## Schedule of Requirements

**Tender:** INF P 1672/23

S.No	Project Name	Location	Packages	Date and Time of Bid Opening
1	Purchase of Equipment /tools/Furniture/Books for GPI Lakki Marwat	Lakki Marwat	Chemistry Lab     Physics Lab	16 (00 (2022
2	Purchase of Equipment/tools /Furniture /Books for GPI Mansehra	Mansehra	3. Woodworking Workshop	16/08/2023  Bid Submission time:
3	Purchase of Equipment/tools/Furniture/Books for GPI Alpuri Shangla	Shangla	4. Plumbing & Public Health Workshop 5. Machinist	10:30 am Bid Opening Time:
4	Purchase of Equipment/tools/Furniture/Books for GPI Pattan Kohistan	Kohistan	5. Machinist 6. Computer Lab	11:50 am

### \*PLEASE ORGANIZE YOUR BID FOR THE PACKAGE AS FOLLOWS;

- 1) Bidder can bid ITEM-WISE against the Schedule of requirements.
- 2) The Items/Equipment must have Minimum Specification acceptable to the Technical Committee of KP-TEVTA; however the higher specification may be accepted if within the financial limit.
- 3) All bidders must submit the relevant details of bid/proposals duly labelled by a permanent marker with the name of bidder and also to provide documents in soft copies (MS WORD format) on USB drive
- 4) The Supplier shall write in bold & legible letters "Name of the Project & Package" on the envelope.
- 5) The supplier will submit the tender documents properly <u>Computer Typed and each page shall be endorsed and numbered</u>, along with terms and condition issued by the KP-TEVTA, dully signed by the authorized personnel with company seal; otherwise the bid will not be accepted.
- 6) The prices, including all taxes, should be quoted item-wise in Pakistani Rupees so as to reach the premises of the KP-TEVTA Head Office.
- 7) After Sale service and supply of spare parts must be quaranteed for a period of One year.
- 8) Please list the Ernest Money of this package in the Ernest Money Letter Stamp Paper.
- 9) Bid Processing Fee is Rs. 3500/-.
- 10) The supplier will supply the items won as a result of bidding on FOR basis to GPI Mansehra, Kohistan, Shangla and Lakki Marwat.
- 11) National Manufacturers are eligible to bid/quote their manufactured items but Branded items with Country of Origin/OEM: USA, Europe, Turkey, Japan, Korea will be appreciated.
- 12) Brand of the quoted item(s) shall be exclusively mentioned.
- 13) After Sale service and supply of spare parts must be quaranteed for a period of One year.
- 14) The original Request for Proposal documents duly signed and officially sealed by the bidder must be submitted as a whole with the proposals. Any conditional, ambiguous, incomplete, supplementary, or revised offer after the opening of tender shall not be entertained.
- 15) Any overwriting/crossing, etc. appearing in the offer may be properly signed by the person signing the tender. All pages of the tender must be properly signed & stamped. Offer with any overwriting/use of Blanco shall not be accepted in any circumstances.
- 16) Offers should be valid for FY: 2023-24 from the date of opening of the Tender.
- 17) The successful bidder(s) shall get the equipment inspected at their premises workshop before its dispatch to the indicated Locations.

1	CHEMISTRY & PHYSICS LAB GLASS WARE						
S#	Items	Quantity Required	Cost per item	Total Cost	Amount of CDR		
1.	Beaker 50 ml (Pyrex)	24 No					
2.	Beaker 250 MI (Pyrex)	24 No			1		
3.	Beaker 500 ml (Pyrex)	24 No			-		
4.	Beaker 1000 ml (Pyrex)	12 No					
5.	Wash bottle (plastic)	24 No			-		
6.	Bottle reagent 500ml (narrow mouth)	16 Doz			1		
7.	Bottle reagent 250 ml (narrow mouth)	24 doz			-		
8.	Bottle Reagent 500 ml (wide mouth)	6 doz			1		
9.	Bottle Reagent 3 ltr	24 No			-		
10.	Burette 50 ml	24 No			1		
11.	Measuring cylinder 100 ml	6 No			-		
12.	Measuring cylinder 10 ml	12No			1		
13.	Crucible Porcelain with lid	24 No			-		
14.	Cork rubber assorted	6 doz			1		
15.	Fusion tube	24 gross			-		
16.	Capillary tube	10 lb			-		
17.	Centered Glass Crucible lid	24 No			-		
18.	Borosilicate Glass	24 No			-		
19.	Dish evaporating (Porcelain 75	15 No			-		
20.	Flask Round bottom 500 ml	24 No			1		
21.	Flask Flat Bottom 3 ltr,	10 No			-		
22.	Flask Conical 100 ml	24 No			1		
23.	Flask Filtration 500 ml	24 No			-		
24.	Funnel Buchner	24 No			1		
25.	Funnel separating 250 ml	24 No			-		
26.	Funnel	24 No					
27.	Filter paper	6 Pkt			-		
28.	Glass rods	24 No			-		
29.	Kipps "s apparatus 1000 ml	10No			-		
30.	Litmus paper blue and Red	24 pkt			1		
31.	Pestle & Mortar glass	10 No			-		
32.	Tiles Glazed white	24 No			1		
33.	Test tube holder	4 gross					
34.	Trough Glass	24 No			1		
35.	Burette.	24 No					
36.	Suction pump glass	24 No			1		
37.	Watch glass	24 No					
38.	Ostwald Viscometer	24 No			1		
39.	Stalagmometer	<sub>1</sub> 24 No			1		

# **CHEMISTRY LAB EQUIPMENT**

S#	Items	Quantity Required	Unit Cost	Total Amount	Amount of CDR
1	Electrolyzer 220V, 50HS with platinum electrode and DC power supply.	2 Nos			
2	Filter paper (whatman No.1) .	100 sheet			
3	Glass funnel dia: 7.5 cm	25 Nos			
4	Glass tube: Soda lime length: 150cm Ex-dia:3-4 mm	25 Nos			
5	Glass rods: (Stirring) Length: 20 cm, dia: 6-7 mm	25 Nos			
6	Pipette Graduated: 10ml,	50 Nos			
7	Pipette 15ml.	50 Nos			
8	Stand Tripod (cast iron) Height: 20cm, with circular top,	50 Nos			
9	Spirit lamp. Metallic medium size.	50 Nos			
10	Test Tubes: Dimension: 150x12mm, Pyrex	300 Nos			
11	Test tube stand (wooden) .	25 Nos			
12	Tongs (Black ended steel) with Bow length: 20cms, /.	25 Nos			
14	Wire gauze, .	50 Nos			
15	Volumetric flask. 100ml,	12 Nos			
16	Volumetric flask. 250ml,	12 Nos			
17	Distillation plant: Stainless steel, 220 V, 300V, capacity: 1 gallon	2 Nos			
18	Periodic chart/ Periodic table	2 Nos			
19	Copper sulphate (anhydrous).	0.5 kg			
20	Potassium Nitrate	0.5 kg			
21	Ferrous sulphate	0.5 kg			
22	Calcium sulphate.	0.5 kg			
23	Soda Ash.	0.5 kg			
24	Sodium Bicarbonate.	2 kg			
25	Spirit Methylated.	10 liter			
26	Iron Stand with clamp.	50 Nos			
27	Wooden Stand	50 Nos			

#### **CHEMICALS Unit Cost** Quantity **Total Amount** Amount of CDR S# Items Required 1. Nitric Acid 5 ltr Hydrochloric Acid 5 ltr 2. Sodium Hydroxide (Pellets) 3. 2 kg Ammonia liquor 4. 5 ltr 5. Carbon Disulphide 2 kg Silver Nitrate 6. 250 gm 7. Ammonium carbonate 1 kg Sodium Carbonate/Washing soda 8. 1 kg 9. Sodium Nitrate 1 kg Sodium bicarbonate 10. 1 kg Potassium carbonate 1 kg 11. Potassium chloride 1 kg 12. Potassium chromate 13. 1 kg Potassium Dichromate 14. 1 kg Potassium chlorate 15. 1 kg Ammonium sulfide 16. 1 kg Ammonium sulfate 17. 1 kg Ammonium Molybdate 18. 1 kg 19. Bismuth Nitrate 1 kg 20. Bismuth Chloride 1 kg 21. Cadmium Nitrate 1 kg Cadmium chloride 22. 1 kg 23. Lead Nitrate 1 kg Lead Carbonate 24. 1 kg 25. Lead Acetate 1 kg Sodium Nitrogen per oxide 26. 1 kg 27. Sodium sulfite 1 kg Sodium sulfate 28. 1 kg 29. Sodium Thiosulfate 1 kg 30. Sodium Chloride 1 kg 31. Sodium chromate 1 kg Acetic acid (glacial) 2.5 ltr Oxalic Acid 33. 1 kg Maleic Acid 1 kg 35. Succinic Acid 1 kg Salicylic acid 2.5 ltr 36. 37. Ethylene glycol 1 kg 38. Potassium permanganate 1 kg 39. Glycerin 1 kg 40. Acetone 2. Itr Chloroform 2.5 ltr 41.

42.	Carbon Tetrachloride	2.5 ltr	
43.	Benzene	2.5 ltr	
44.	Toluene	2.5 ltr	
45.	Xylene	2.5 ltr	
46.	Benzaldehyde	1ltr	
47.	Cyclohexane	2.5 ltr	
48.	Bleaching powder	1 kg	
49.	Butyl acetate	2.5 ltr	
50.	Methyl ethyl ketone	2.5 ltr	
51.	Copper sulfate	1 kg	
52.	Copper Chloride	1 kg	
53.	Zinc Chloride	1 kg	
54.	Zinc Sulfate	1 kg	
55.	Zinc Carbonate	1 kg	
56.	Zinc Granules	1	
57.	Urea	1 kg	
58.	Magnesium sulfate	1 kg	
59.	Magnesium Chloride	1 kg	
60.	Magnesium Nitrate	1 kg	
61.	Magnesium oxide	1 kg	
62.	Cobalt chloride	1 kg	
63.	Cobalt Nitrate	1 kg	
64.	Cobalt carbonate	1 kg	
65.	Nickel sulfate	1 kg	
66.	Nickel nitrate	1 kg	
67.	Stannous chloride	1 kg	
68.	Stannic chloride	1 kg	
69.	Phenolphthalein	0.5 kg	
70.	Methyl orange	1 pack	
71.	Methyl red	1 pack	
72.	Congo red	1pack	
73.	Aluminum Nitrate	1 kg	
74.	Aluminum sulfate	1 kg	
75.	Ethyl alcohol absolute	2.5 ltr	
76.	Methyl alcohol	2.5ltr	
77.	Sodium Benzoate	1 kg	
78.	Sodium phosphate	1 kg	
79.	Sodium tripolyphosphate	1 kg	
80.	Sodium silicate	1 kg	
81.	Zinc Oxide	1 kg	
82.	Boric Acid	0.5 kg	
83.	Sodium Tetra Borate (Borax)	0.5 kg	
84.	Stearic Acid	0.5 kg	
85.	lodine crystals	0.5 kg	

86.	Potassium Iodate	0.5 kg	
87.	Starch	0.5 kg	
88.	Buffer solution pH-7	1 ltr	
89.	Buffer solution pH-4	1ltr	
90.	Buffer solution pH-9/-10	1ltr	]
95	Citric acid	0.5 kg	]
96	Acid Acetic	2.5 ltr	
97	Acid Picric	1 kg	
98	Aniline	1 kg	]
99	Ammonium Chloride	1 kg	
100	Ammonium Cyanate	1 kg	
101	Ammonium Phosphate	1 kg	
102	Ammonium Acetate	1 kg	
103	Aceto Phenone	1 lb	
104	Acid Cinnamic	1 lb	
105	Antimony Chloride	1 lb	
106	Barium Chloride	1 kg	
107	Barium Nitrate	2 ltr	
108	Bromine	1 lb	
109	Cadmium Bromide	1 lb	-
110	Calcium Acetate	1 lb	-
111	Calcium Carbonate	1 lb	-
112	Calcium Chloride Anhydrous	1 lb	
113	Calcium Sulphate Anhydrous	1 lb	
114	Cobalt Sulphate	1 lb	
115	Copper Carbonate	1 lb	
116	Copper Nitrate	2 lb	1
117	Chemical Label books	2 doz	-
118	Dimethyl Amine	10 kg	
119	2,4- Dintro Phenyl Hydrazine	100 gm	
120	Ferric Chloride	2 lb	
121	Ferrous Sulphate	5kg	
122	Dextrose	1 lb	
123	Hydroxyl Amine Hydro Chloride	10gm	
124	Magnesium Metal	1 lb	-
125	Magnesium Iodide	1kg	
126	Mercuric Chloride	250 gm	
127	Nickel Chloride	1kg	
128	Potassium Bromide	1 lb	
129	Potassium Ferricyanide	1 lb	1
130	Potassium iodide	1 lb	]
131	Potassium Nitrate	1 lb	]

132	Potassium oxalate	1 lb		
133	Potassium Thiocyanate	1 lb		
134	Potassium Sulphate	1 kg		
135	Phenyl Hydrazine Hydrochloride	1 lb		

	PHYSICS LA	BOR	ATORY	<b>Y</b>	
S.No	Description of Items with Specification	Qty.	Unite Rate	Total amount	Amount of CDR
1.	Resonance tube apparatus, length 1 meter: With Plastic tube 840×25mm mounted on record with 500ml Plastic tube bulb.	10 Nos			
2.	Sonometer with slotted weights and two wedges: Wooden resonance box with two rules 1m long. one each brassand steel wires.two moveable bridges pulley and fixed screws, slotted weights ½ kg×4,1 kg×4,2 kg×4	10 Nos			
3.	Linear Expansion apparatus with metal rod and Accessories:  Apparatus added with speedometer, glass jacket enclose Brass, Iron, Aluminum and a Copper rod within Error scale having differently colored pointers. Accessories: Brass, Iron, Aluminum ,Copper rods	each sets			
4.	Steam generator: Aluminum vessel with cork lid and retainer on an adjustable hot plate with thermal circuit breaker, volume 250ml	12 No			
5.	Sextant: Student model, Comprising 220mm radius, withsighter adjustable half mirror and scale 0 to 130 with Vernier reading to five minimum in wooden case.	10 Nos			
6.	<b>Set of weights:</b> 13 pieces set of Brass weights in storage block. 1×1g,2×2g,1×5g,1×10g.2×20g,1×50g,1×100g, 2×200g,1×500g ,1×1000g.	10 Nos			
7.	Kundt's tube with scale and Accessories: Transparent acrylic tube with scale and end plates with tubing nozzles for filling with various gases,built-in speaker at one end, a bore and guide for accommodating moving piston or probe microphone at the other end. Includes retaining clips for mounting on stands and a connector lead for the speaker,length 1000mm,dia 70mm,tube nozzle 7mm dia. Accessories for each set: 1Probe micro phone with frequency range 20hz-20000hz with DIN plug for battery box,barrel foot, 1function	10 Nos			

I				
	generator			
	(230V,50hz),1 whistle,a 1700hz tuning fork,1			
	bottle of corkpowder.			
8.	Hook's law apparatus with helical spring:	10 Nos		
	Pointer and scale graduated in cm and mm			
	hanging			
	weights 6×50gm, 5 helical springs of lengths			
	120mm, 145mm,			
	150mm. 147mm,142mm <b>.</b>			
9.	Convex lenses:	60 No		
9.	Of different focal lengths from 10cm to 50 cm	60 110		
10.	Concave lenses:	60 No		
	Of different focal lengths from 10cm to 50cm			
11.	Concave mirrors:	60 No		
	Of different focal lengths from 10cm to 50cm			
12.	Convex mirrors:	60 No		
12.	Of different focal lengths from 10cm to 50cm	00110		
13.	Fletcher trolley complete:	03 No		
13.		03 110		
	Light metal track 1720×150 min wide with			
	leveling feetcovered with stops at either end,			
	aluminum pulley 50mm			
	dia., clamp for vibrator and automatic Pen			
	release. Metal trolley with three wheels			
	mounted.on ball bearings. Five hooks to			
	accommodate cylindrical masses approximate			
	350gm. Vibrator 60mm long with clamping			
	works at 5 and 8Hz and Pen holder to take			
	fibertip type of pen.			
14.	Single ray projector with accessories:	02 sets		
	Light source for experiments on optics,			
	connecting line 1.5m long with 4mm plug			
	dimension 120mm×70mm dia., magnetic			
	holder for single ray projector 12V, 60VA			
	(230V, 50Hz), Halogen lamp12V, 35W			
15.	Multiple ray projectors, magnetic with	02 sets		
	accessories:			
	Light source for optics. Lamp 12V, 55W			
	connecting line 1.5 meter long with 4mm Plug.			
	Dimension $150 \times 200 \times 50 \text{mm}^3$ Transformer			
	12V, 60 VA9230,50Hz) Halogen Lamp 12V,			
	55W.			
16.	Optics kit for white board:	10 Nos		
10.	Plan mirror (plastic) 200×35×35mm³. Convex,	.01403		
	concave mirror f=±100mm 200×35×35mm³.			
	Plano Concave lens (Acrylic glass), f= 400mm,			
	200×40×35mm <sup>3</sup> .			
	Plan parallel Plate (Acrylic glass) 200×100×35mm³.			
	Semicircular body, f=200mm dia. 200×35mm <sup>2</sup>			
	•			
	(Acrylic glass)			
	Right angled prism 200×200×35mm <sup>2</sup> (acrylic			
	glass)			
	Cubide ( Plastic) 100×20× 35mm <sup>3</sup>			
	Cylinder (plastic), dia. 5×35mm <sup>2</sup>			
	Cylinder(plastic) dia. 6×35mm <sup>2</sup>			

17.	Heat equivalent apparatus:	10 Nos		
17.		10 1103		
	Consist of a shaft with ball bearing at both			
	ends, an integrated counter for measuring the			
	number of revolutions and an attached table			
	clamp. 1 basic unit, 1 Aluminum calorimeter, 1			
	temperature sensor, 1 pair of adopter cables			
	with 4mm safety plugs / 2mm plugs, 1 fraction			
	belt, 1 bucket of 5 liter, 1 counter weight, cord			
	of length 1.80m and temperature calibration			
	table.			
18.	Optical bench complete with all standard	10No		
	accessories:			
	Optical bench:			
	Optics Track (1.2 m) rugged aluminum track.			
	The metric tape makes position measurements			
	easy.			
	Accessories:			
	Light Source has a lighted crossed arrow target			
	with metric scale for focusing images through			
	lenses or using with the concave mirror. Acts as			
	a point light source, 1, 3, or 5parallel rays, or			
	red-green-blue rays.			
	Lenses:4 - 50 mm diameter. Lens's focal			
	lengths +100, +200, +250, -150 mm mounted			
	in protective holders. Concave/Convex Mirror:			
	50 mm diameter plastic mirror with reflective			
	surface on both sides.			
	Includes "half-screen" upon which the image			
	is focused.			
	Adjustable Lens Holder: from 19 mm to 75 mm			
	in diameter.			
	Storage Box:Everything fits neatly into the			
	protective storage box, with the exception of			
	the 1.2 meter Optics Track.			
	1 transparent screen, 1 white screen.			
	1 pin hole aperture d=1mm			
	1 pin hole aperture d=6mm			
19.	Electrical calorimeter (1200ml) with	10		
19.	accessories:	each		
	Consist of a double walled, heat insulating	set		
	plastic container with insulating vessel inside	361		
	,			
	made of reflecting glass with heating coil and			
	stirrer			
	Accessories:			
	Aluminum shot 100g, copper shot 200g, glass			
20	shot 100g, granules for filling calorimeter.	10.11		
20.	Precision hair Hygrometer:	10 Nos		
	Consist of a round plastic housing with a			
	human hair			
	Measuring range:0%100% relative humidity			
	Temperature range: 35c-+65% <sup>0</sup> C			
	Reading accuracy: ±5%			
	Diameter: 100mm			
21.	Torsion apparatus:	10 Nos		
	Searle horizontal pattern. Two cast iron feet			
	and grub securing screws separated by two			
	support rods approx. 700mm long, wheel		 	
_	<u> </u>	)		

				1	
	165mm dia. moving in ball bearings, mounted				
	on front foot, other end supported with				
	clamping block through rear foot with two				
	aluminum scales graduated with 30-0-30 in				
	single degree mounted on pillar support, two				
	pointers with clamp for attaching to specimen,				
	one each Brass and Steel rods 5mm diameter,				
	chord and hook for carrying massesand two				
	spanners for clampingblock nuts.				
22.	Differential pulley:	06 No			
22.	One piece aluminum with diameter of 38.5 mm	00110			
	& 63.5mm mounted in a metal frame with				
	hook.				
22		06 N			
23.	Differential wheel and axle;	06 No			
	compound wheel and axel with cast aluminum				
	alloy block				
	Comprising wheel 100mm diameter and axel				
	50mm & 25mm diameter mounted on				
	adjustable steel cones and steel frame, wood				
	back board with four holes for wall mounting,				
	complete 5m nylon cord and steel hook.				
24.	Maxwell's needle with accessories:	10 Nos			
	Hollow metal cylinder 200mm long pointer and				
	chuck to accommodate wires up to 20swg with				
	each hollow and solid cylinders 50mm long				
	tripod, stand with rod 1.2m long, base with				
	leveling screws, clamp with arms 180mm long				
	with chuck complete with three wires 1.5m				
	long.one Brass26swg and one each steel 26				
	and 20swg.				
25.	Friction measuring apparatus with	03 No.			
	Accessories:				
	Demonstration apparatus with moveable				
	friction surface for measuring static and				
	dynamic friction. The track can be made				
	inclined. Dynamometer, 3 rails for holding				
	static bodies, three 100gm weight.				
	Accessories:				
	Precision dynamometer (1N range),(2N				
	range),(10N range)				
26.	Experiment set pulleys, block and tackle:	03 Nos			
	Complete set of equipment consisting of a				
	stable base plate, retort stand rods, pulley				
	blocks, block and tackle, a set of pulleys of				
	various diameters on an axle, weight holders,				
	slotted weights with base plate 810×200mm				
	,pulleys 50mm diameter,				
	standrods810mm×12.5mm,slottedweights2×1				
	0g,2×20g,2×50,4×100g,4×200g,1×500g,holder				
	s,1×10g,1×20g,5×50g.				
27.	Reciprocating motion motor:	03 Nos	·		
<i>_</i> ,	A field coil motor connected to a rotatory to	05 1103	1		
	linear convertermechanism showing cross		İ		
	sectional view. Both motor and gearbox are		1	]	
			ı	]	
i	I fully sectioned to show the method of				i e
	fully sectioned to show the method of operation. Lead from motor and gear box		l		

1	together taken to three 4mm sockets for			
	connection to a 12 volts DC or AC supply			
	mounted on plastic base complete with			
	instructional booklet.			
28.	Compound lever (Brace version):	03 Nos		
	Wooden structure consisting of Front and rear			
	legs, leaver arm, base beam, handle, arms,			
	lever arm, beam sides, brace, feet, hex bolt,			
	washer, fasteners.			
29.	Forces in a Jib crane apparatus with	06 Nos		
	complete accessories:			
	Bench mounted. The unit consists of a metallic			
	rod which provides the support locations for			
	jib and tie. Load is applied via a hanger on the			
	junction of jib and tie. To measure the			
	deformation in jib and tie, dial gauges are			
	connected to both elements.			
	connected to both elements.			
30.	Simple screw jack for demonstration to	04 No		
	students:			
	220 mm diameter turntable fitted with a 30			
	mm x 6 mm pitch screw is supported in a			
	heavy cast iron base. Stand on a firm bench			
	and a cord and weight hanger are wound			
	round the rim of the turntable and hung over			
	the pulley. The pulley runs on ball bearings to			
	reduce friction to a minimum. To be provided			
	with instructional manual			
31	Inclined plane:	03 No		
31.	Inclined plane:  Metal base and inclined surface plane hinged	03 No		
31.	Metal base and inclined surface plane hinged	03 No		
31.	Metal base and inclined surface plane hinged with scales	03 No		
31.	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of	03 No		
31.	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination	03 No		
31.	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight	03 No		
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord			
31.	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus:	03 No 10 Nos		
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus:  Consist of a black metal disc, 200mm dia			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus: Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus: Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base fitted with feet. A white marker 13mmdia may			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus:  Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base fitted with feet. A white marker 13mmdia may be made to follow a circular orbit about the			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus:  Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base fitted with feet. A white marker 13mmdia may be made to follow a circular orbit about the central of the disc. A similar marker move in a			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus:  Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base fitted with feet. A white marker 13mmdia may be made to follow a circular orbit about the central of the disc. A similar marker move in a slot along the			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus: Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base fitted with feet. A white marker 13mmdia may be made to follow a circular orbit about the central of the disc. A similar marker move in a slot along the diameter of the disc in phase with the			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus: Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base fitted with feet. A white marker 13mmdia may be made to follow a circular orbit about the central of the disc. A similar marker move in a slot along the diameter of the disc in phase with the peripheral marker performing SHM when the			
	Metal base and inclined surface plane hinged with scales for angles, length and height. angle of inclination between 0-45,adjustable pulley, roller weight pan and cord  Simple harmonic module/apparatus: Consist of a black metal disc, 200mm dia supported vertically on a clear plastic base fitted with feet. A white marker 13mmdia may be made to follow a circular orbit about the central of the disc. A similar marker move in a slot along the diameter of the disc in phase with the peripheral marker performing SHM when the peripheral marker caused to rotate			
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	pin-jointed framework. Deflection measured by individually calibrated leaf-spring balances. Movement measured by digital Vernier. Load hanger, loading weights, link and digital caliper.			
35.	Gearing elements to illustrate simple mechanical belt and	03 sets		
	gear wheel drives: Gearing elements consisting of base plate, belt pulley(35mm diameter), belt pulley (70mm dia.) gear wheel (20 teeth), gear wheel (40 teeth), crank handle, drive belt sets.			
37.	Reaction of beam apparatus:  .Bench mounted. This apparatus is designed for simple experiments and demonstrations on simply supported beams. Two spring balances act as supports and enable reactions to be read directly. Three movable load hangers allow loads to be put in a number of positions. Levers can be investigated by suspending the beam from the free standing frame, and holding down the end with a spring balance.  Bell crank lever:-  (1) Strong table unit for demonstrating the application of moment to a crank lever.  (2) Pressure gauge 50N.  (3) Metal crank mounted in ball bearings.  (4) Mechanical advantage min. 1:1 max. 2:1  (5) Fine compensation device for adjusting the crank so that the forces always act	04No		
	vertically.  (6) Crank length vertical: 200mm, horizontal: 400mm.  Set of weights: up to 20N along with 6 weights with carrier.			
38.	Fractional horse power motor and	10 Nos		
	Accessories: max 746 watts(single phase induction)with prony brake and revolution counter. With related accessories required for operational characteristics.			
39.	Fly wheel with slotted weight: Cast metal made, approx. 200mm dia×40mm thick mounted on a balanced horizontal shaft in metal bracket 280×180mm <sup>2</sup> drilled forwall mounting.	03 No		
40.	Specific gravity bottle,25cc:	24 No		
41.	Specific gravity bottle,50cc:	24 No		
42.	Viscometer (Standard Size)with	10 Nos		
	Accessories:			
	Falling sphere viscometer with 6 spheres and 1 ball gauge measuring range 0.5mPaS To 7×10 <sup>4</sup> mPaS.			
		2	1	1

	Accessories:			
	2 sphere of Borosilicate glass,2 spheres of Ni-			
	iron and 2 spheres of steel, thermometer 0-			
	100C,test certificate with accurate values for			
	spheres constant K and density ,silicon			
	tubing(2x) immersion/circulation thermostat			
43.	Photo Electric cell for determining planks	10 Nos		
	constant with Accessories:			
	Basic apparatus with photo cell, volt meter,			
	Nano ammeter and power supply, 5 LEDs in			
	casing with connector leads one plug in supply			
	12V AC, wave length 472 nm, 505 nm, 525nm,			
	588 nm, 611nm,			
	Accessoriesfor photo electric cell:			
	-			
4.4	Set of 15 experimental leads,75cm	10 Nos		
44.	Galvanometer DC:	10 NOS		
	Range ± 35 Micro Amp, scale division 1 Micro			
45	Amp, Internal resistance 1000 ohm	10.11		
45.	Laser beam apparatus :	10 Nos		
	> 0.5mw He-Ne Laser			
	optical bench			
	> screen			
	Metal bench ,guide rail with leveling plate form			
	500mm,laser diode driver and temperature			
	controller, laser safety goggles.1000mw and			
	100mw diode laser with built in cooler,			
	thermistor and photo diode, lens, collimator,			
	optical rider, mounting plate, Nd:YaG crystal.			
	Laser mirror 1 and 2.frequency module, passive			
	Q switch. PIN photo diode on optical rider,			
	cylindrical lens of $f = +15$ mm, $+25$ mm,			
	+45mm, colliminator lens of f=			
	+75mm,focusing lens f= +75mm, filter holder			
	with filters, polarization filter and transport			
	case.			
	Or			
	Equivalent Specification.			
46.	Magnets Horseshoe:	10 Nos		
	Horseshoe magnet Alnico magnet with screw,			
	Poles marked red and green pole Area approx.			
	20x10mm <sup>2</sup> . Distance between poles approx.			
	50mm length of shank approx. 70mm.			
47.	Parallel plate capacitor with Accessories:	10 Nos		
	A fixed and a moveable plate on a guide rail			
	having centimeter scale, plate separation can			
	be finally adjusted and read off from display to			
	an accuracy of 1/10mm plate spacing: 0-			
	160mm,plate area 500cm <sup>2</sup> plates solid casting.			
	Plates can be adjusted between 0 and 20mm			
	via a sindle.			
	Accessories:			
	Plastic dielectric plate 300x300x2mm³approx			
	Plexiglass dielectric plate 300x300x2mm <sup>3</sup>			
48.	approx Electric field meter (230V,50Hz.) with	10 Nos		
40.	Accessories:	TO NOS		
	הננכסטטוופס.	<u> </u>		

	Maximum output voltage: 10 VIV output can correspond to 100V/c,300V/cm,1000V/cm,10V,30V, 100V(with Ix voltage measurement plate), 100V,300V,1000V( with 10 x voltage measurement plate), I capacitor measurement plate 250cm <sup>2</sup> set Plexiglas spacers, Drip cup basin.			
49.	Center of gravity apparatus: Comprises a rod mounted on a base with a suspension screw at the top and four laminas of clear acrylic - 1 each of circular, triangular, square and trapezoidal. Each lamina has suspension holes along their periphery.	10 Nos		

#### **WOODWORK SHOP Description of Items with Specification** Unite S.No Qty. Total **Amount of CDR** Rate amount Work Benches. Local Best quality 1 10 1320mmx560mmx838mm Wood tops thickness No 32 mm with wooden leg 102mm square. Bits Auger.6mm to 25mm Bits auger consisting 10 of 13 bits 6mm to 25mm. Local Best quality No 3 Bits Auger. Local Best quality 10 6mm 10mm 12.5mm 19mmMade of tool steel No double square. Bits Expansive and Adjustable.15 to 35mmBits 4 10 expansive and adjustable, boring from 15mm to No 5mm. Local Best quality 5 Bits Countersink.12.5mmBits countersink for 10 brace. For wood, 12.5mm dia. Local Best quality No 6 Bits Screwdriver. Local Best quality 10 4.75mmBits screwdriver 4.75mm for brace. No 7 Screwdriver. Local Best quality 10 6mmScrewdriver, 6mm for brace. No Bits Screwdriver. Local Best quality 8 10 8mm,15mmBits screwdriver, for brace. No 9 Bits Gimlet. Local Best quality 10 2 Size No2,3 Size No3,4 Size No4,5 Size No5 No 6 Size No6,7 Size No7,8 Size No8 Bits Brace.200mm Bits brace 200 mm sweep 10 10 "Alligator" Jaw chromed. Local Best quality No Bits (Machine).9.5mm 12.5mm 9mm, 25mm Bits 11 10 Machine for wood. Local Best quality No 12 Twist Drills.1.5mm to 12.5mm 3mm 4.74mm 05 Twist Drills straight shank. Local Best quality No 13 Hand Drill, Local Best quality 05 8mmDouble pinion drill with die cast body and No wooden handle. Used for small drilling operations. Overall dia. 215mm 3jaw chuck type. 14 Vice. Local Best quality 05 175mmVice, wood workers rapid action, dog in No front jaw. Curving Sets. Curving sets consisting of chisel, 15 6 bent gauge u-tool skew chisel, veining tool, No forged stool blades long wooden handles (set of size) Local Best quality 16 Chisels.3mm, 115mmChisels wood forged in 12 one piece, tough plastic handles. Local Best No quality Chisel Wood. 17 10 6mm 9.5mm 12.5mm 19mm 25mm 37.5mm No Chisels wood forged in one piece, tough plastic handles 115 mm blades. Local Best quality Gauges. Local Best quality 10 18 3mm 6mm 12.5mm 19mm 25mm No

Gauges outside ground for wood working.    Hammer. Local Best quality   10   1/2 Kg, 1/4 Kg, Hammer nail bent claws, bell face designed to pull nails without heads.   10   10   10   10   10   10   10   1				
½ Kg, ¹A Kg, Hammer nail bent claws, bell face designed to pull nails without heads.       No         20       Planes.355mm x 50mm Planes jack smooth bottom fine gray cast iron frames. Local Best quality       10         21       Plane. Local Best quality 355mm x 50mmPlane jointer.       10         22       Planes. Local Best quality 100 140mm x 19mmPlanes rabbit.       No         23       Planes. Local Best quality 100 225mm x 50mm Planes smoothing.       No         24       Plane. Planes Router hand plane circular for concave and convex surfaces, steel base. Local Best quality 150mmPlanes block low cutting angle of 12 No degree.       10         25       Rules. Local Best quality 100mm x 28mm 350mm Rules bench, made of hardwood.       10         27       Shrink Rules. Local Best quality 300mm 7.5mm (L)5mm(L) No Shrink Rules Steel.       10         28       Saw Coping.162mmSaws coping using pin type blades adjustable to any angle. Local Best quality 10 150mm Saw blades coping saw.       10         30       Saw. Local Best quality 300mm.Saws back full hand grip handle.       No         31       Saw. Local Best quality 300mm.Saws back full hand grip handle.       No         32       Saw. Local Best quality 300mmSaw compass with reversible blade, feature.       No         33       Saw. Local Best quality 400mmSaws corpass with reversible blade, feature.       No         33       Saw. Local Best quality 400mmSaws corpass w		Gauges outside ground for wood working.		
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Best quality  25  Plane. Local Best quality 150mmPlanes block low cutting angle of 12 degree.  26  Rules. Local Best quality 610mm x 28mm 350mm Rules bench, made of hardwood.  27  Shrink Rules. Local Best quality 300mm 7.5mm (L)5mm(L) Shrink Rules Steel.  28  Saw Coping.162mmSaws coping using pin type blades adjustable to any angle. Local Best quality 29  Saw, Blades. Local Best quality 10  150mm Saw blades coping saw.  30  Saw. Local Best quality 300mm.Saws back full hand grip handle.  31  Saw. Local Best quality 300mmSaw compass with reversible blade, feature.  32  Saw. Local Best quality 660mm Hand Saws, coarse cut 8 TPl No 33  Saw. Local Best quality 10	24	Plane. Planes Router hand plane circular for	10	
Plane. Local Best quality 150mmPlanes block low cutting angle of 12 degree.  26 Rules. Local Best quality 610mm x 28mm 350mm Rules bench, made of hardwood.  27 Shrink Rules. Local Best quality 300mm 7.5mm (L)5mm(L) No Shrink Rules Steel.  28 Saw Coping.162mmSaws coping using pin type blades adjustable to any angle. Local Best quality  29 Saw, Blades. Local Best quality 150mm Saw blades coping saw.  30 Saw. Local Best quality 300mm.Saws back full hand grip handle.  31 Saw. Local Best quality 300mmSaw compass with reversible blade, feature.  32 Saw. Local Best quality 660mm Hand Saws, coarse cut 8 TPI No 33 Saw. Local Best quality 10		concave and convex surfaces, steel base. Local	No	
150mmPlanes block low cutting angle of 12 degree.  26 Rules. Local Best quality 610mm x 28mm 350mm Rules bench, made of hardwood.  27 Shrink Rules. Local Best quality 300mm 7.5mm (L)5mm(L) Shrink Rules Steel.  28 Saw Coping.162mmSaws coping using pin type blades adjustable to any angle. Local Best quality  29 Saw, Blades. Local Best quality 150mm Saw blades coping saw.  30 Saw. Local Best quality 300mm.Saws back full hand grip handle.  31 Saw. Local Best quality 300mmSaw compass with reversible blade, feature.  32 Saw. Local Best quality 660mm Hand Saws, coarse cut 8 TPI No 33 Saw. Local Best quality 10				
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hardwood.  27 Shrink Rules. Local Best quality 300mm 7.5mm (L)5mm(L) Shrink Rules Steel.  28 Saw Coping.162mmSaws coping using pin type blades adjustable to any angle. Local Best quality  29 Saw, Blades. Local Best quality 150mm Saw blades coping saw.  30 Saw. Local Best quality 300mm.Saws back full hand grip handle.  31 Saw. Local Best quality 300mmSaw compass with reversible blade, feature.  32 Saw. Local Best quality 660mm Hand Saws, coarse cut 8 TPI No  33 Saw. Local Best quality 10	26		10	
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28 Saw Coping.162mmSaws coping using pin type blades adjustable to any angle. Local Best quality  29 Saw, Blades. Local Best quality 10 150mm Saw blades coping saw.  30 Saw. Local Best quality 10 300mm.Saws back full hand grip handle. No  31 Saw. Local Best quality 10 300mmSaw compass with reversible blade, feature.  32 Saw. Local Best quality 10 No 660mm Hand Saws, coarse cut 8 TPI No  33 Saw. Local Best quality 10			No	
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660mm Hand Saws, coarse cut 8 TPI No  33 Saw. Local Best quality 10	22		10	
33 Saw. Local Best quality 10	32		1 1	
	22			
1-online & ocontine Saw hand rip.	33			
24 Cour 200mm 14 TPL Local Book modifies	24	'		
34 Saw.300mm 14 TPI. Local Best quality 10	34	Saw.300mm 14 1PI. Local Best quality		
No No 10 Say Local Post quality 10	2.5	Saw Local Post quality		
35 Saw. Local Best quality 10 No	55		1	
225mmHand saw coarse cut. No  36 Mitre Box.608mm x 127mmMitre box including 10	36			
eleven point stiff back saw, adjustable angle No	50			
capacity at right angle 200 mm at 45 degree,			140	
125mm. Local Best quality				
37 Miter Machine.660mm x 100mm Mitre machine 10	37		10	
		including vice clamps stiff back fine tooth saw	No	
including vice clamps stiff back fine tooth saw   No		- · · · · · · · · · · · · · · · · · · ·		
including vice clamps stiff back fine tooth saw for picture frame and molding cutting. Local		To picture frame and molding cutting, Local	1	

38	Screw Driver. Size 1, 2, 3, 100mm shank 6mm	10		
	blade 150mm shank 6mm blade 225mm shank	No		
	6mm blade. Screw drivers. Local Best quality			

	PLUMBING & PUB	LIC H	ALTH	ENGG SHO	)P
S. No	Description of Items with Specification	Qty.	Unite Rate	Total amount	Amount of CDR
1.	<b>Pipe Wrench</b> . Best quality 18",12",08", Pipe wrench heavy-duty pipe wrench. Tough quality one pipe frame housing and handle with replaceable heel jaws, pipe capacity 2, 1, and <sup>3</sup> / <sub>4</sub> respectively.	10 No	733.0		
2.	<b>Pipe Wrench</b> , Best quality1/4"-4"Cap.Pipe wrench China type ratcheting and reversing china pipe wrench. Drop forged steel body nickel chrome plate 12"handle 15"chain capacity 1/4 to 4"	10 No			
3.	Pipe Grip, Best qualityCap-2"Pipe grip 2"capacity fabric step 14"metal handle.	10 No			
4.	Pipe Reamer.  Best quality Cap-1"-2"Pipe reamer with handle ratchet type 1"to 2"capacity with burning spiral flutes.	10 No			
5.	Pipe Vice (stand/leg) Best quality. 1/8"-2 ½ "Cap Pipe vice capacity 1/8"to 2 ½"mouthed on triangular metha table tray, fitted with three metal folding legs.	10 No			
6.	Pipe Thread Set, (Pipe threading Dic:) Best quality1/4 "to 1 1/4" Pipe thread set (NPT) reversible reversible ratchet handle set to include dies for pipe size 1/4, 3/8 1/2, and 3/4,1, 1 1/4 inches.	10 No			
7.	<b>Pipe Cutter</b> . 1/4" to 1 1/4" Pipe cutter with heavy duty cutter wheel (capacity 1/8" to 1 1/4".), Best quality.	10 No			
8.	<b>Pipe Cutter.</b> 1/4" to 2"Pipe cutter with heavy duty cutter wheel (capacity 1/4" to 2"), Best quality.	10 No			
9.	Cutter Wheel. Cutter wheels these wheels to fit above cutters (CTP2-1 & CTP2-2), Local Best quality.	10 No			
10.	WrenchesLocal good quality made 08",10",12",Wrench adjustable alloy steel construction drop forged rust resistant finish., Local Best quality.	5 set			
11.	<b>Level aluminum</b> masons 48"with 2 double plumbs and one double level. Local Best quality.	10 No			
12.	Square Steel.24"x 16" Square steel 24"body 16"tongue. , Local Best quality.	10 No			

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13.	Star Drill.¾ " Star drill forged alloy steel,	5 set	
	each set to consist of one each 1/2, 1/4, 3/8		
	3/4 with 12 shank (for drilling brick stone		
4.4	concrete) , Local Best quality .	10.11	
14.	Hacksaw.12" Hacksaw 10"to	10 No	
	12"adjustable pistol grip handle rust proof		
15	finish. , Local Best quality .	10.11	
15.	Hammer Ball. 24 Oz Hammer Ball peen	10 No	
	150 Oz size: hardwood handles, drop		
	forged alloyed steel head , Local Best		
16.	quality .  Hammer Ball Pin.16 Oz Hammer ball	10 No	
10.	peen 24 0z size: hardwood handles drop	TONO	
	forged alloyed steel head , Local Best		
	quality.		
17.	Hammers Nail.16 Oz x 1/4 Oz Hammer	10 No	
17.	nails, 16 0z, bell face, curved (Claw	10110	
	carpenters) , Local Best quality .		
18.	Screwdrivers.16"x ¼ " Screwdrivers ¼"x	12 No	
	16"shank plastic handle, vanadium steel		
	blade , Local Best quality .		
19.	Water closet English type, (Complete	06 NO	
	Set)		
	Best quality .		
20.	Water closet Indian type , Best quality .	06 NO	
21.	Wash Hand Basin. Wash hand basin	06 NO	
	central pillar cock pattern, Best quality.		
22.	Wash Hand Basin.2 Pillar cock pattern ,	06 NO	
	Best quality .		
23.	Urinal., Best quality.	06 NO	
24.	Pillar Cock. Pillar cock (Asian Pattern) ,	12 No	
	Local Best quality .		
25.	Mixer Type. Mixer type pillar cock , Local	12No	
	Best quality .		
26.	Stop Cock , Best quality .	12No	
27.	Bib Cock , Best quality .	12No	
28.	Waste Coupling , Best quality .	12No	
29.	Files.Round12" 2 <sup>nd</sup> cut , Local Best quality	12No	
		12110	
30.	Files. Flat 12" 2 <sup>nd</sup> cut , Local Best quality .	12No	-
31.	Files. Three square 12" 2 <sup>nd</sup> cut , Local Best	12No	
ا ، ا	quality.	12110	
32.	Electric Pipe thread cutting Machine with	03 Nos	
ا عد	pipe cutter and pipe reamer ½",to 1/1 2"	05 1103	
33.	Piller type Drill machine 3ph Motor power	03 Nos	
	1.1 kw		
	With work surface table 475x425mm		
	surface stand 410x325 mm		
34.	Pedestal Grander Machine 400 v/3ph	03 Nos	
	motor power 1.5w		
35.	Portable/ hand Grinding machine 4" dia	05 Nos	
36.	Portable / hand Grinding machine 4" dia	05 Nos	
37.	Portable/ hand Circular Saw 4"with cutter	12 Nos	
	·		]
38.	Air Compressor with Electric Motor 1 hp	02 Nos	

	and pressure working gauges			
39.	Pipe Bender for M.S G.I pipe bedding with	02 Nos		
	complete accessories 1/2" to 1 1/2 " pipe			
40.	Bending Portable LT	03 Nos		-
40.	Hammer Drill machine 5mm to 32mm 03	05 1105		
	Nos			
41.	Driver Socket Wrench set	2 set		1
	(16 pieces ) ½" to 2"			
42.	Testing Equipment for Fresh water pipe	02 Nos		
	system leakage testing (manual)	00.1:		-
43.	Hot air Gun for PVC welding 50 C <sup>0</sup> 450 C <sup>0</sup>	03 Nos		-
44.	Ratchets pipe threader kit set	12 Nos		
	(Ratcheting w/5 does and case ½" to 1 1/4"			
45.	Flat Plier (Electrician)	12 Nos		
46.	Slip Joint plier	12 Nos		
47.	Aluminum ladder (18 feet)	03 Nos		
48.	Basin Wrench / sink wrench	12 Nos		Ī
49.	First Aid Box ( Plastic) 220x270mm	03 Nos		1
50.	PPRC pipe cutter	12 Nos		1
51.	Tim Srip 10"	06 Nos		
52.	Centre punch 4"	12 Nos		
53.	Flat Chisel 12" long	06 Nos		
54.	Number Punch set 4" (09 pieces)	03 Nos		
55.	Masonry Drill Bit set 5 mm to 32mm	03 Nos		
56.	Steel tap 60cm-5"	36 Nos		
57.	Scriber	36 Nos		
58.	Tap and Die set 5mm to 25mm	03 set		
59.	Oil cane (Plastic)	36 Nos		
60.	Adjustable Wrenches 8"-10" 3 types	10 Nos		
		each		
	PDF D	size		-
61.	PPE Personal Protective Equipment	05.4:		-
62.	Safety jacket (Plastic, Highways)	25 Nos		
63.	Safety Helmet (Plastic)	25 Nos		
64.	Safety shoes with Copper plate toe	25 Nos		
65.	Safety Gloves	25 pairs		
66.	Safety Goggles (Plastic)	25 Nos		

	WOOD	WO	RK SH	OP	
S. No	Description of Items with Specification	Qty.	Unite Rate	Total amount	Amount of CDR
1.	Work Benches. Local Best quality 1320mmx560mmx838mm Wood tops thickness 32 mm with wooden leg 102mm square.	10 No			
2.	Bits Auger.6mm to 25mm Bits auger consisting of 13 bits 6mm to 25mm. Local Best quality	10 No			
3.	Bits Auger. Local Best quality 6mm 10mm 12.5mm 19mmMade of tool steel double square.	10 No			
4.	Bits Expansive and Adjustable.15 to 35mmBits expansive and adjustable, boring from 15mm to 5mm. Local Best quality	10 No			
5.	Bits Countersink.12.5mmBits countersink for brace. For wood, 12.5mm dia. Local Best quality	10 No			
6.	Bits Screwdriver. Local Best quality 4.75mmBits screwdriver 4.75mm for brace.	10 No			
7.	Screwdriver. Local Best quality 6mmScrewdriver, 6mm for brace.	10 No			
8.	Bits Screwdriver. Local Best quality 8mm,15mmBits screwdriver, for brace.	10 No			
9.	Bits Gimlet. Local Best quality 2 Size No2,3 Size No3,4 Size No4,5 Size No5 6 Size No6,7 Size No7,8 Size No8	10 No			
10.	Bits Brace.200mm Bits brace 200 mm sweep "Alligator" Jaw chromed. Local Best quality	10 No			
11.	Bits (Machine).9.5mm 12.5mm 9mm, 25mm Bits Machine for wood. Local Best quality	10 No			
12.	Twist Drills.1.5mm to 12.5mm 3mm 4.74mm Twist Drills straight shank. Local Best quality	05 No			
13.	Hand Drill , Local Best quality 8mmDouble pinion drill with die cast body and wooden handle. Used for small drilling operations. Overall dia. 215mm 3jaw chuck type.	05 No			
14.	Vice. Local Best quality 175mmVice, wood workers rapid action, dog in front jaw.	05 No			
15.	Curving Sets. Curving sets consisting of chisel, bent gauge u-tool skew chisel, veining tool, forged stool blades long wooden handles (set of size) Local Best quality	6 No			

16.	Chisels.3mm, 115mmChisels wood forged in one piece, tough plastic handles. Local Best quality	12 No		
17.	Chisel Wood. 6mm 9.5mm 12.5mm 19mm 25mm 37.5mm 50mm Chisels wood forged in one piece, tough plastic handles 115 mm blades. Local Best quality	10 No		
18.	Gauges. Local Best quality 3mm 6mm 12.5mm 19mm 25mm Gauges outside ground for wood working.	10 No		
19.	Hammer. Local Best quality 1/2 Kg,1/4 Kg, Hammer nail bent claws, bell face designed to pull nails without heads.	10 No		
20.	Planes.355mm x 50mm Planes jack smooth bottom fine gray cast iron frames. Local Best quality	10 No		
21.	Plane. Local Best quality 355mm x 50mmPlane jointer.	10 No		
22.	Planes. Local Best quality 140mm x 19mmPlanes rabbit.	10 No		
23.	Planes. Local Best quality 225mm x 50mm Planes smoothing.	10 No		
24.	Plane. Planes Router hand plane circular for concave and convex surfaces, steel base. Local Best quality	10 No		
25.	Plane. Local Best quality 150mmPlanes block low cutting angle of 12 degree.	10 No		
26.	Rules. Local Best quality 610mm x 28mm 350mm Rules bench, made of hardwood.	10		
27.	Shrink Rules. Local Best quality 300mm 7.5mm (L)5mm(L) Shrink Rules Steel.	10 No		
28.	Saw Coping.162mmSaws coping using pin type blades adjustable to any angle. Local Best quality	10 No		
29.	Saw, Blades. Local Best quality 150mm Saw blades coping saw.	10		
30.	Saw. Local Best quality 300mm.Saws back full hand grip handle.	10 No		
31.	Saw. Local Best quality 300mmSaw compass with reversible blade, feature.	10 No		
32.	Saw. Local Best quality 660mm Hand Saws, coarse cut 8 TPI	10 No		
33.	Saw. Local Best quality 140mm & 660mm Saw hand rip.	10 No		
34.	Saw.300mm 14 TPI. Local Best quality	10 No		

35.	Saw. Local Best quality	10 No		
	225mmHand saw coarse cut.			
36.	Mitre Box.608mm x 127mmMitre box	10 No		
	including eleven point stiff back saw,			
	adjustable angle capacity at right angle			
	200 mm at 45 degree, 125mm. Local			
	Best quality			
37.	Miter Machine.660mm x 100mm Mitre	10 No		
	machine including vice clamps stiff			
	back fine tooth saw for picture frame			
	and molding cutting. Local Best quality			
38.	Screw Driver. Size 1, 2, 3, 100mm shank	10 No		
	6mm blade 150mm shank 6mm blade			
	225mm shank 6mm blade. Screw			
	drivers. Local Best quality			

S. Description of Items with Specification	Qty.	Unite Rate	Total amount	Amount of CDR
I. Universal Milling Machine Heavy, solid model made of high-grade Meehanite casting Dovetail slideways All slideways hardened Central lubricating Main switch with protective motor switch, right-/ left-handed rotation switch, emergency-stop button Largely dimensioned hand wheels with scale Machine lamp supplied as standard Coolant equipment supplied as standard Drilling capacity(max.) ø40 mm Milling capacity cutter head(max.) ø200 mm Milling capacity end mill cutter(max.) ø30 mm Spindle taper ISO50 Spindle speed 58~1800 rpm(50Hz) 60~1750 rpm(60Hz) Tabel (LxW) 1320x360 mm/ 1600x360 mm(optional) X/Y-axis travel automatic 1000/300/400 mm T-slot size/distance/number 14 mm / 95 mm / 5 Motor 4 KW packing size(L×W×H) 2260x2070x2250 mm 1. Vertical head. 2. Slotting head 3. Indexing head 4. Rotary table. 5. Milling vice swivel 90° 6. Milling arbor long dia 22,25,27,32mm 7. Stub Arbor.	1			

		Т.	Т		Γ	
2.	Lathe Machine	1				
	Electrical connection 400 V Spindle					
	Drive motor 1.5/2.4 kW 4 kW					
	Spindle taper MT 6					
	Spindle seat Camlock DIN ISO 702-2 No. 5					
	Spindle bore, bar passage diameter Ø 52 mm					
	Quadruple tool holder mounting height max. 16 mm					
	Centre height 205 mm					
	Centre width 1 000 mm					
	Swing Ø over machine bed 410 mm					
	Swing in the bed bridge 540 mm					
	Turning length in bed bridge 165 mm					
	Bed width 206 mm					
	Speed range					
	Spindle speed 45 - 1 800 rpm					
	speeds 16 speeds					
	2 speeds; elec.control					
	Travel Top slide travel 100 mm					
	Cross slide travel 195 mm					
	Feeds and pitches					
	Longitudinal feed within the range 0.043 - 0.653					
	mm/rev (48 feeds)					
	Cross feed within 0.015 - 0.206 mm					
	Pitch - metric in range 0.4 - 7 mm					
	Pitch - inch in range 70 - 4 turns					
	Tailstock					
	Tailstock seat MT 3					
	Tailstock- sleeve diameter					
	Dimensions					
	Length x width x height 1 920 x 740 x 1 222					
	Accessories					
	Stead Rest (Fined) 01					
	Steady Rest (Moveable) 01					
	3 Jaws chuck-01					
	4 Jaws chuck-01					
	Revaluing Center-01					
	Tools post-01					
	Drilling vice 5" for Drill Machine.					
	Live Center MT4 set 02 qty					
	2-Axis Digital Read Out 01 qty					
	Tapet Turning Attachment Qty 01					
	raper ranning Attachment Qty 01					
	Change Marchine	1	+	<del>                                     </del>		
3.	Shaper Machine	1				
	Max stroke length 460mm 18"					
	Max horizental travel of working table					
	485mm 19"					
	Max vertical travel of working table					
	350mm 14"					
	Size of working table 420,300,16.5",12"					
	Max vertical travel of tool holder 140mm 5.5"					
	Max rotation angle of cutter holder 0-90 degree					
	Stroke per minute 12-70					
	Speed changing of the sliding 1-3					
	Machine gear speed 3Motor 2-HP-956 RPM-to					
	Cam Switch					
1	<del>.</del>	_1			1	

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4.	Power Hacksaw	1			
	Model NO.				
	G7025				
	Precision Normal Precision				
	Blade size 450X35X2mm				
	cutting capacity 250X250				
	clamping type manual				
	Drive V-belt				
	motor 1.5kw				
	Trademark HOTON				
	Transport Package				
	Plywood Case				
	Specification 550kgs				
5.	Pillar Type Drill Machine	1			
	Electrical connection 400V / 3Ph ~50Hz				
	Motor power 1.1 kW				
	Drilling capacity in steel (S235JR O 30 mm				
	Spindle seat MT 4				
	Spindle speeds 120-1810 rpm				
	Work surface table (LxW) 475 x 425 mm				
	Work surface stand (Lx W) 410 x 325 mm				
	Column diameter O 92 mm				
	Length x width x height 860x480x1720 mm				
	Total weight 135 kg				
6.	Surface Grinding Machine	1			
	Max. width to be ground 220 mm				
	Max. length to be ground 470 mm				
	Max. height to be ground 350 mm				
	Table size (W×L) 210×450 mm				
	Grinding wheel Wheel sizes 200×13×31.75 mm				
	Grinding wheel Speed 3450 (60HZ)				
	Machine weight 920 kg				
	Package size 1150×1410×1950 mm				
	Optional accessories :				
	Permanent Magnetic Chuck For M818ACooling				
	And Dust Collecter				
	Wheel Balancing Stand				
	Parallel Wheel Dresser				
	Wheel Chuck				
7.	Pedestal Grinding Machine	1			
	Electrical connection				
	400 V/3 Ph				
	~50 Hz				
	Motor power 1.5 kW				
	Lengthxwidthxheight 542x304x365 mm				
	Net weight 37 kg				
	Net weight Vario 45 kg			1	

8.	Bench Vice with Bench Item Weight 9.88 Kg Product Dimensions 45 x 18 x 21.1 cm S.G. DUCTILE IRON BODY: Guaranteeing strength and long life SAFETY STOP: Prevents slide separating from body SWIVEL BASE: Three mounting points and a 120° rotation for more flexible positioning of the work piece FUSED HANDLE: Will bend before the vice can be overstressed	1		
9.	Steel Ruler Clear readings crack resistance light weight Size: 30 Cm	1		
10.	Vernier Caliper High precision vernier caliper 4-way measurement Mono-block solid slider model Made of hardened stainless steel Chromed scale with laser engraved graduations The scale shows both mm and inch value Measuring surface is micro-lapped Supplied with leather-look wallet Optional plastic box Range 0-150mm / 0-6" Resolution 0.05mm - 1/128" Length of jaws (A) 40mm	1		
11.	Vernier Height Gauge Range 0-12"/0-300mm Accuracy ±001" Resolution .0005"(0.01mm) [.0002"(0.005mm) Switchable)] Mass (kg) 4.7	1		
12.	Vee Block Set with Clump  vee block with clump  Size  100x80x80  Range of shafts 7-80mm  Parallelism of both V grooves to top & bottom sides 5µm  Squareness of both V grooves to front & back sides 5µm  Height difference of a matched pair 5µm	1		
13.	<ul> <li>Centre Punch</li> <li>High performance</li> <li>Easy to use</li> <li>Knurled grip for secure holding</li> <li>Made of steel</li> <li>Hardened and tempered</li> <li>Precision centred tip for accuracy</li> </ul>	1		
14.	Scriber - Measurement System Inch	1		

15.	Divider	1		
	<ul> <li>Pencil holder for use as a compass</li> </ul>			
	<ul> <li>Lockable wing for repeat measurements</li> </ul>			
	size 6"			
16.	Flat Screw Driver Set Bi-	1		-
10.	material (PP+TPR) soft grip handle providing.	'		
	Excellent comfort			
	Chrome Vanadium (Cr-V) blade for durability.			
	•			
	Magnetic tips for easy pick up and screw locator.			
	Three-sided handle allowing more torque with			
	anti-slip			
	and anti rolling features reducing handle slippage.			
	Ergonomic design with finger point in neckdown.			
	Area for precise control. Built-in hang hole for			
	easy storage. Screw tip identification on the			
	handle for organization.			
	<b>1-</b> 3mmx 75mm <b>2-</b> 3mm x 125mm			
	<b>3-</b> 5mm x 100mm <b>4-</b> 6.5mm x 150mm			
	5- 8mm x 200mm			
	<b>6-</b> 8mm x 250mm			
17.	Philips Screw Driver	1		
	Bi-material (PP+TPR) soft grip handle providing.			
	Excellent comfort			
	Chrome Vanadium (Cr-V) blade for durability.			
	Magnetic tips for easy pick up and screw locator.			
	Three-sided handle allowing more torque with			
	anti-slip			
	and anti rolling features reducing handle slippage.			
	Ergonomic design with finger point in neckdown.			
	Area for precise control. Built-in hang hole for			
	easy storage. Screw tip identification on the			
	handle for organization.			
	1- 1mmx 75mm 2- 1mm x 150mm			
	3- 2mm x 100mm			
	4- 2mm x 150mm 5- 3mm x 200mm			
	6- 3mm x 250mm			
18.	Tap & Die Set	1		
	Set of 40 pieces			
	size 3mm to 12 mm			
19.	Screw Pitch Gauge 60°	1		
	-			
20.	Screw Pitch Gauge 55°	1		
21.	Radius gauge 1-7,7.5-14mm	1		
				1
22.	Combination Set	1		
	Combination Set 300mm/12inch			
	Range 180 degrees			
	Three measuring heads are attached to the			
	stainless steel ruler, allowing versatile			
	measurements on various types of work pieces			
	Square head, protractor head and Centre head			
	For various measuring and marking applications			
	Stainless steel rule with engraved graduations			
	4 Items in set			
	2		<u> </u>	1

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35.	Cross Cut Chisel	1			
	• Width: 3.7 inch				
	Height : 0.4 inch				
	• Length: 6.5 inch				
36.	Grooving Chisel	1			
	Length (L, L1):- 150 mm				
	Width of Cutting Edge (a,b):- 3 mm				
	Packing Unit:- 10 Piece				
	Width Across Flat of Shaft (s):- 10 mm				
	Weight:- 0.07 kg				
37.	Reamer 4,6,8,10, 12 mm	1			
	Sturdy construction				
	Efficient performance				
	Effective				
38.	Die M5, M6, M8, M10, M12	1			
39.	Dies Handles	1			
	Hardened and tempered jaws.				
	Shiny black finish.				
	General tool for handy tapping.				
	High Quality Tool for Hand Tapping Operation.				
	Smaller Sizes available in Zinc Die Casting.				
	Large sizes above 3/4" available in Steel Casting				
40.	Drills Bit Set	1			
40.	• 25 twist drill bits	'			
	Made of high speed steel				
	Hand-guided and stationary drills.				
	Long lifetime.				
	Low risk of breakage due to excellent				
	elasticity.				
	<ul> <li>Suitable for all power tool brands.</li> </ul>				
	Stored in a rugged metal box for tool				
	protection and a clean layout.				
	Note: Use of coolant recommended, e.g. Bosch				
	universal cutting oil 2 607 001 409.				
41.	Drill Bit Set				
	Twist drill HSS with morse taper				
	>> 9-part; sizes 14.5/16/18/20/22/24/26/28/30				
	mm				
	>> Long service life.				
	>> Good chip removal				
	>> Right handed				
42.	Drill Set 1 to 6 mm with Difference 0.1 mm				
42.	Hss Drill Bit Set For Wood, Plastic And Aluminum				
	Ideal For DIY, Home And General Building /				
	Engineering Using Containing sizes:0.1, 1mm, 1.5mm, 2mm, 2.5mm,				
	3mm				
	Material: High Speed Steel with Titanium coated				
	material. Flight speed Steel with Hitaliidill Coated	1	I		

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43.	Centre Drill 2.5, 3.0 mm	1		
	Durable and Resistance: Center drill bit is made of			
	HSS high speed steel, with extremely sharp blade,			
	low consumption and durable with impact			
	resistance, wear resistance.			
	6 Difference Sizes: Drill tip diameter size of center			
	drill bits including			
	1.0mm, 1.6mm, 2.0mm, 2.5mm,			
	3.15mm, 5.0mm.			
	•			
	Wide Usages: Center drill bits can be used to			
	make conical holes for a lathe center in order to			
	make a starting point for a standard twist drill,			
	designed to prevent the twist drill from walking, as			
	well as for producing center holds in components			
	or work pieces with require machining between			
	centers.			
	Metal, Alloy, Copper, Iron, Wood, Aluminum,			
44.	H.S.S tool Bits Different Size	1		
	Size 1/4 x 6 5/16 x 6 3/8 x 6 1/2 x 6			
	5/8 x 6 3/4 x 6			
	Lathe tools, or tool bits as they are sometimes			
	called, are the cutting tools that are used for			
	turning and facing work on the lathe.			
	The most popular lathe tools are those made of			
	high-speed tool steel (HSS).			
	They can be used for machining most materials			
	including wood, plastic, aluminum, brass and free-			
	machining steel.			
	These tools will retain their hardness at			
	temperatures up to 1000° Fahrenheit (588° C.). For			
	this reason, depth of cut, cutting speed and feed			
	rates are important.			
	The big advantage of high-speed steel tools is the			
45	ease with which they can be sharpened.	1		-
45.	Morse Taper Gauge set (plug + ring) MT-2,	1		
	MT-3, MT-4			
	Material is solid, not easy to break.			
	High strength and hardness.			
	Easy to install. Durable in use. Brand new Material:			
	carbon steel Color: gray & black Size:			
	92x12mm,112x17mm,133x23mm Drill type: fixed			
	sleeve Applicable machine tools: drilling machine			
	Package included: 3pcs x Morse Taper Adapter			
	Only the above package content, other products			
	are not included.			
46.	Oil Canes	1	 	
	An Oil Can is a very handy tool that holds oil, and			
	also lets you lubricate machines through its thin			
	nozzle tip.			
	You can buy Oil Cans online in a variety of			
	standard sizes and capacities.			
	You can choose form brands like Fame, Prima and			
	many others.			
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47.	Tool Centre Gauge	1	1		
77.	Very Handy Gauge For Grinding & Setting Thread	'			
	Cutting Tools.				
	Made From Stainless Steel.				
	Satin Chrome Finish.				
	Permanently Deep Etched Graduations.				
	Edge Profile Ground.				
	Useful to find number of threads per inch by				
	means of graduations in 14ths, 24ths and 32nds				
	of an inch.				
48.	Hand Vice	1			
	Jaw Opening 28 mm				
	Jaw Width 50 mm				
	Nett Weight 0.55 kg				
49.	Adjustable Wrench 12"	1			
	Forged chrome vanadium steel is strong and				
	durable				
	Handle hole for tethering, hanging or storage				
	Laser etched jaw scale for easy size identification				
	Polished chrome head and chrome plated body				
	for anti-corrosion protection				
50.	Try Angle	1			
	Item Name Squares				
	Colour Black				
	Length (MilliMeter) 200mm				
	Handle Length 124mm				
51.	Counter Sink	1			
	<ul> <li>Material: Stainless Steel</li> </ul>				
	• Size: 6.30-31.00 mm				
	Diameter: 8.30 mm				
	Surface Finish: Polished				
52.	Counter Bore Different Size	1			
	7Pcs/set Counterbore Drill Bit Sets HSS				
	Counterbore End Milling Cutter M3.2-M12.4				
	Countersink Drill Bits Pilot Slotting Milling Cutter				
	End Mill Cutting Tool Set for Copper Aluminum				
	Cast Iron				
53.	Twist Drill Grinding Gauge	1			
	uitable for drill bits up to a diameter of 50 mm.				
	<u> </u>	1	I .	1	ļ

54.	Safatu Garala	1		
<b>54.</b>	Safety Goggle	1		
	• Extra wide and ultra soft safety goggles			
	with hard plastic lens and durable coating is			
	scratch proof, waterproof, and is an essential piece			
	of protective gear to provide concealment			
	• Dual injected rubber design conforms to			
	the face and fits over regular glasses to provide an			
	excellent field of view and offers a high level			
	security from chemicals, dust and debris			
	<ul> <li>Universal standard fit wrap-around PVC</li> </ul>			
	frame offers maximum comfort and adjustable			
	strap fits a wide range of head sizes			
	Polycarbonate lens is impact resistant and			
	ideal for use on jobs sites with construction tools,			
	worksites, laboratories and class			
	High approved eye wear meets ANSI			
	standard Z87.1 is suitable for use as firearms			
	safety glasses at firing ranges			_
55.	Diamond Dresser with Holder	1		
	<ul> <li>Small and compact size.</li> </ul>			
	Powerful holding of the magnet on the			
	machine table.			
	<ul> <li>Easy holding of the diamond dresser.</li> </ul>			
56.	Acme Thread Gauge	1		
	<ul> <li>American Specifications: ANSI/ ASME B1.5-</li> </ul>			
	1997			
	<ul> <li>B.S Specifications: B.S 1104 – 1957</li> </ul>			
57.	Tool Center Gauge	1		
	<ul> <li>Material Aluminum</li> </ul>			
	<ul> <li>Color Silver</li> </ul>			
	<ul> <li>Thread Angle 30 Degree</li> </ul>			
	Weight Upto 50 gram			
58.	Drill Drift	1		
	<ul> <li>Used to remove taper shank tools from</li> </ul>			
	sleeves or spindles.			
	<ul> <li>Drop forged and hardened.</li> </ul>			
59.	Combination Pliers	1		
	<ul> <li>Carbon steel hardened and tempered</li> </ul>			
	The jaws and cutting edges are induction			
	hardened			
	<ul> <li>Heavy duty two-tone soft grip handles with</li> </ul>			
	slip guards			
60.	Tool Box	1		1
	Includes 5 tray			
	Metal tool box			
	Durable and long lasting			
	Made up of elegant material			
<u> </u>		<u> </u>	1	1

61.	Plain Milling cutter Diffrent Size.100mmx75mm,100x50,150mmx80,150x60  Arbor Hole Diameter 26mm Brand Name F&D Tool Company Cutting Angle 45 degrees Cutting Direction Multi Directional Finish Type Uncoated (Bright) Material High-Speed Steel	1	
62.	Side and Face Cutter Diffrent Size.  100mmx10mm,75mmx10mm,150mmx12mm,  150mmx10  Material hss Color black Brand bjs	1	
63.	Shell &Mill  Taper: DIN69871  Runout: <0.005mm  Taper Torlerabce: <mt3 15000="" application:="" balancing:="" blackening="" cutters="" for="" g6.3="" groove.<="" longitudinal="" milling="" mounting="" or="" surface="" td="" transverse="" treatment:="" with=""><td>1</td><td></td></mt3>	1	
64.	Colet chuck with Colet Optimum 18-piece Ø2-20mm ER32 clamping sleeve set with socket, ISO40 mounting cone! Easy-to-use, high quality ER32 socket set with key, socket, M16 / M16 and BT40 clamping bolts and 18 Ø2-20mm sockets, all packed in a convenient metal storage box. DIN ISO 15488. The seat has an ISO40 mounting cone.	1	

6 E	End mill Cuttor	1		
65.	End mill Cutter	1		
	Titanium coated			
	>> Improved hardness and stability with 2x to 5x			
	service life			
	>> Twice the machining performance			
	>> Improved workpiece finish			
	>> Cylindrical shank and lateral lugs			
	>> Version with 2 cutting edges for milling			
	keyways/fixing grooves and			
	milling out the workpiece centre			
	>> Vertical or lateral milling possible			
	>> Version with 4 cutting edges and 30° right-			
	hand twist for good chip			
	removal in normal to hard materials			
	12-part 3352250			
	>>6 end mills, short version · Version with 2			
	cutting edges.			
	>>DIN 1835 B (Ø12x73, Ø10 x 63, Ø8 x 61, Ø6 x			
	52, Ø5 x 52, Ø4 x 51 mm)			
	>>6 end mills, short version · Version with 4			
	cutting edges.			
	DIN 1835 B (Ø12 x 83, Ø10 x 73, Ø8 x 61, Ø6 x 57,			
	Ø5 x 57, Ø4 x 55 mm)			
	20-part 3352255			
	>> 10 end mills DIN 327 D · Short version · 2			
	cutting edges			
	DIN 1835 B, (3/4/5/6/8/10/12/14/18/20 mm)			
	>> 10 end mills DIN 844 B · Short version · 4			
	cutting edges			
	DIN 1835 B, (3/4/5/6/8/10/12/14/18/20 mm)	1		
66.	Involute Gear Milling Cutter Different Size  Module Number: 1.75	1		
	Module Number: 1.75     Material: HSS			
	Outer Diameter: 60mm			
	Inside Bore: 22mm			
	Pressure Angle: 20 degree			
67.	Key Way Cutter	1		
	Sizes: 4mm,5mm,6mm,7mm,8mm,9mm10mm			
	Parallel shank keyway milling cutter			
	according to GB1112-81 production. Accuracy			
	levels are e8 and d8.			
	<ul> <li>2 Flutes Keyway End Mill Cutter</li> </ul>			
	<ul> <li>Usually used to be assembled on milling</li> </ul>			
	machine			
	<ul> <li>Can milling of copper, aluminum, tool</li> </ul>			
	steel, cast iron, etc			
	<ul> <li>High toughness, abrasion resistance, high-</li> </ul>			
	speed cutting for the high hardness			
	<ul> <li>Can processing directly or fine processing</li> </ul>			
	to the heat treatment mold			
68.	Micro Meter Different Sizes	1		
	Range 0-25 Accuracy0.004			
	Resolution 0.01			
	<b>2.</b> Range 25-50 Accuracy 0.004			
	Resolution 0.01			
		1	1	1

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69.	Inside Micro Meter	10			
	Using the measured diameter				
	Design standard, compact, lightweight, easy to				
	use.				
	Range: 5-30mm				
	Accuracy: ± 2μm				
	The split: 0.01mm				
	Read the result on line division				
70.	Dial Verniercallipers	10			
	Dial Caliper 0-150mm				
	Capacity 0-150mm				
	Resolution 0.02mm				
	Standard DIN862				
	Shockproof dial caliper				
	Rapid movement with thumb wheel				
	4 way measurement				
	Hardened stainless steel rack				
	Measuring surface is micro-lapped				
71.	Dial Indicator with Magnetic Stand	1			
	Dial Indicator 0-10mm				
	Range 0-10mm				
	Resolution 0.01mm				
	Diameter 58mm/ear				
	Magnetic Indicator Stand				
	With powerful on/off magnetic base				
	Magnetic force 80kg/ 175LBS				
	Universal mode which can be used for indicators				
	with or without "lug" on backplate				
	Extra rigid				
72.	Digital Vernier calipers Different Size	1			
	Feature Easy to read LCD display				
	Ground micro-lapped measuring surfaces				
	Thumb wheel for fine adjustment				
	Functions: mm/inch conversion, on/off,				
	zero-setting, battery low indication				
	SR44 Battery Capacity Resolution Jaw				
	Length 0-150mm 0-6" 0.01mm 0.0005"				
	40mm				
73.	First Aid box	1			
	<ul> <li>Classic Empty First Aid Box</li> </ul>				
	Red plastic case				
	<ul> <li>H220 x W270 x D90mm</li> </ul>				

## LIST OF ITEMS FOR COMPUTER LAB

(Shangla, Kohistan, Mansehra, Lakki Marwat)

	(Shangia, Konistan, Mansenra, Lakki Marwat)								
S. No	Description of Items with Specification	Qty.	Unite Rate	Total amount	Amount of CDR				
1.	Desktop System	Total 100							
	Processor: 12th Gen Intel Core i5-12400 (cores 06, cache 18 MB,) Turbo boost frequency: 4.4 GHz RAM: 08 GB DDR4, 3200 MHz Storage: 1TB HDD + 256 GB SSD/NVMe Graphics Card: Intel UHD Graphics 730 Network: One RJ-45 USB: Four USB 3.2 Gen 1 ports, Four USB 2.0 ports Audio: One global headset jack, One audio line-out port Video: One DisplayPort, One HDMI Ethernet: Realtek RTL8111HSD Wireless: 2.4 GHz/5 GHz+ Bluetooth Operating system: Win 11 Pro Accessories: Dell Wired Keyboard & Mouse LED: Branded 18.5" LED Warranty: One Year Local Warranty Installation: Yes	25 Shangla 25 Kohistan 25 Lakki Marwat 25 Mansehra							
2.	65" LED Specs	Total 08							
	Size: 65" OS: Android RAM/ROM: DDR3-2133: 1G Bytes or Above Certification: CB, HDMI, Dolby Audio, CTS (Google Official Certification), Netflix Display Type: 4K LED UHD Display Resolution: 3840×2160 UHD Support: Yes Refresh Rate: sixty or Above Dynamic Contrast: Yes Connectivity Internet Link: 2.4GHz dual-band Wi-Fi 802.11 b/g/n or Above HDMI: Yes USB: Yes A/V IN: Yes Headphone: Yes Speaker Type: Integrated Speaker Boxes (Bottom Side) Warranty: One Year Local Installation: Yes	02 Shangla 02 Kohistan 02 Lakki Marwat 02 Mansehra							
3.	LaserJet Printer Memory: 64MB Processor: 400MHz Connectivity: Hi-Speed USB 2.0 port Print speed: Black (normal, A4): Up to 20 ppm	Total 08							
	<b>First page out:</b> Black (A4, ready): As fast as 8.3 seconds; Black (A4, sleep): As fast as 18	02 Shangla							
	seconds	02 Kohistan							

		1	T. T.
	Resolution: Black (best): Up to 1200 x 1200 dpi; Black (normal): Up to 600 x 600 dpi  Duty cycle (monthly, A4): Up to 10,000 pages  Wireless Connectivity: Yes  Recommended monthly page volume: 100 to 1,500 pages.  Warranty: 1 year Local	02 Lakki Marwat 02 Mansehra	
4.	Photocopier Specs Copy, Print, Scan, Wireless Continuous output speed: 27 PPM or better Operation Panel: 4-Line LCD or better Warm up Time: 19 seconds	Total 04	
	First Page output Time: 6.5 seconds  Memory: 512MB or Above	01 Shangla	
	ARDF capacity: 50 Sheets	01 Kohistan	
	Multiple copying: Upto 999 Copies or Above	01 Lakki Marwat	
	Resolution: 600 dpi or Above	O I Lakki Wai wat	
	<b>Zoom:</b> From 25% to 400% in 1% steps	01 Mansehra	
	<b>Print Resolution:</b> 600 x 600 dpi	O i Walisellia	
	Network Interface: Standard: Ethernet		
	(1000/100/10BASE), USB 2.0 Type B x1,		
	Wireless LAN (IEEE 802.11a/b/g/n/ac)		
	<b>Wi-Fi:</b> Yes		
	Scanning Speed: Mono: 18ipm Color: 6ipm		
	Resolution: 600 dpi		
	Compression Method: MH/MR/MMR, JPEG		
	File Formats: Single Page TIFF, Multi Page		
	TIFF, Single Page JPEG, Single Page PDF,		
	Multi Page PDF		
	Scan Modes: Email, Folder, USB		
	Paper Handling Size:		
	A3, A4, A5, A6, B4, B5, B6		
	Paper Input Capacity: Standard: 500 sheets		
	Maximum: 1,600 sheets		
	Paper Output Capacity: 250 sheets		
	Warranty: One Year Local		
	Installation: Yes		