

TENDER SCHEDULE NO:- A

Bill of Quantities/ Schedule of Requirements for TRADE : " MECHANIC CONSUMER ELECTRONICS"

LIST OF HAND TOOLS, INSTRUMENTS AND EQUIPMENT

DELIVERY POINTS:- 1) ITI Habibpur, Hapania, Bulbul Chandi, Dist :-Malda.

2) ITI Egra, Dist :-Purba Madinipur,

Sl.No.	Description of Item with Specification	Qty Required	UNIT	RATE (Rs)	TOTAL AMOUNT	
					In figures(Rs.)	In words
1	COMBINATION PLIER 15 CMS INSULATED	21Nos	each			
2	LONG NOSE INSULATED PLIER 15 CMS.	21Nos	each			
3	DIAONAL CUTTER 15 CMS INSULATED	21Nos	each			
4	END CUTTING NIPPER INSULATED 15 CMS.	21Nos	each			
5	TWEEZERS 10 CMS INSULATED	21Nos	each			
6	HEAT SINK PLIER	21Nos	each			
7	TWEEZER	21Nos	each			
8	NEON LAMP TESTER	21Nos	each			
9	KNOB SCREW DRIVER INSULATED 10 CMS.	21Nos	each			
10	SCREW DRIVERS SET OF 6.	21Nos	each			
11	KNIFE ELECTRICIAN	21Nos	each			
	SHOP OUT FITS					
12	ADJUSTABLE SPANNER/SLIDE WRENCH (15-20 CIS)	8Nos	each			
13	WIRE STRIPPER	8 SETS	Sets			
14	ALLEN KEY	1 SET	Set			
15	FIRST AID KIT	1 NO.	each			
16	ARTIFICIAL RESPIRATION CHART	2 NOS.	each			
17	WORK BENCHES 120 X 400 X 75 CMS.	6 NOS.	each			
18	RUBBER MAT – 180 X 45 X 2.5 CM.	3 NOS.	each			
19	RUBBER GLOVES PAIR	1 SET	Set			
20	STEEL RULER 30 CMS.	8 NOS.	each			
21	SCRIBER 15 TO 20 CMS.	4 NOS.	each			
22	CENTRE PUNCH 10 CM.	4Nos	each			
23	HAMMER CROSS PIN 110 CM WITH HANDLE	4Nos	each			
24	HAMMER BR PIN 220 CM WITH HANDLE	4Nos	each			
25	SPANNERS DOUBLE ENDED METRIC SYSTEM 6 MM TO 19 MM BY 1.6 MM	4 SETS	Sets			
26	SPANNERS SINGLE ENDED 6 MM TO 25 MM BY 1.6 MM	2 SETS	Sets			
27	BOX SPANNER SET OF (4-15) MM	1 SET	SET			
28	MALLET 8 PZ	2 NOS.	each			
29	GIMLET	2 NOS.	each			
30	SAW TENON 25 CM.S	2 NOS.	each			
31	CHISEL WOOD 15 CMS. SET OF 6 MM TO 25 MM	2 SETS	Sets			
32	CHISEL COLD FLAT 10 MM	2 NOS.	each			
33	HAND SHARES METAL CUTTING 25 CMS.	2 NOS.	each			
34	BRADAWL	2 NOS.	each			
35	RATCHET BRACE DRILL 10 M	2 NOS.	each			
36	ELECTRIC DRILL 10 MM WITH POLISHING AND BUFFING ACCESSORIES.	2 NOS.	each			
37	HACKSAW 20-25 CM (ADJUSTABLE)	4 NOS.	each			
38	HAND OPERATED BENDING BREAKER	2 SETS	Sets			
39	FLY PRESS – 4 TO 5 TON	1 NO.	each			
40	JUNIOR SAW 20 CMS.	2 NOS.	each			

41	FILE FLAT 20 CMS.	4 NOS.	each			
42	-DO- 15 CMS. BUSTARD	4 NOS.	each			
43	-DO- HALF ROUND 20 CMS. BUSTARD	4 NOS.	each			
44	-DO- ROUND 20 CMS. 2ND CUT	4 NOS.	each			
45	-DO- FLAT 20 CMS.	4 NOS.	each			
46	INSTRUMENT FILES SET OF 12	2 SETS	Sets			
47	VICE BENCH 10 CMS JAW	2 NOS.	each			
48	-DO- 5 CM JAW	4 NOS.	each			
49	TAPS SET 3 MM TO 10 MM (SET OF 9)	2 SETS	Sets			
50	DIES SET 3 MM TO 10 MM	2 SETS	Sets			
51	SOLDERING IRON 25 W	20 NOS.	each			
52	-DO- 250 W	2 NOS.	each			
53	-DO- 65 W	10 NOS.	each			
54	-DO- 10 W	10 NOS.	each			
55	DESOLDERING PUMP	2 NOS.	each			
56	WIRE GAUGE SET.	2 NOS.	each			
57	FEELER GAUGE	2 NOS.	each			
58	PERMANENT BAR MAGNET 15 CMS.	2 NOS.	each			
59	SOLDENOID WITH CORE	2 NOS.	each			
60	HYDROMETER	2 NOS.	each			
61	RHEOSTATS ASSORTED VALUES AND RATINGS	25 NOS.	each			
62	VARIABLE RESISTANCES/POTENTIOMETER	25 NOS.	each			
63	DC/AC AMMETER 0 – 1 A.	2 NOS.	each			
64	-DO- 0-500 m A	2 nos.	each			
65	-DO- 0 – 100 m A	2 nos.	each			
66	-B3675:D3675DO- 0 – 1 m A	4 nos.	each			
67	-Do- 0 – 5 m A	4 nos.	each			
68	DC/AC AMMETER 0-50 m A	2 NOS.	each			
69	DC/AC VOLTMETER 0-5 V	10 NOS.	each			
70	-DO- 0 – 10 V	10 NOS.	each			
71	-DO- 0 – 50 V	10 NOS.	each			
72	-DO- 0 – 500 V	4 NOS.	each			
73	-DO- 0 – 1000 V	2 NOS.	each			
74	LOUDSPEAKERS VARIOUS TYPES.	10 NOS.	each			
75	ELECTRIC BELL	20 Nos.	each			
76	BATTERY ELIMINATOR	20 Nos.	each			
77	MICROPHONE (ASSORTED)	4 NOS.	each			
78	HEAD PHONE, EARPHONE	4 EACH	each			
79	RECEIVER AERIAL KIT (INDOOR AND OUT DOOR)	2 NOS.	each			
80	TRANSISTORS (ASSORTED)	25 NOS.	each			
81	ELECTRICAL COMPONENTS FOR ASSEMBLE	25 NOS.	each			
82	LOGIC PROBES	4 NOS.	each			
83	IC EXTRACTOR	4 NOS.	each			
84	TABLE LAMP	8 NOS.	each			
85	TV MIRROR	8 NOS.	each			
86	LINEAR ICs ASSORTED	25 NOS.	each			
87	DIGITAL ICs ASSORTED	25 NOS.	each			
	EQUIPMENT:					
1	ANALOG MULTIMETER BIG (SIMILAR TO SIMSON 260)	8 NOS.	each			
2	DIGITAL MULTIMETER (3 ½ Digit)	8 NOS.	each			

3	A.F. OSCILLIATOR	4 NOS.	each			
4	FREQUENCY MODULATOR	4 NOS.	each			
5	DUAL TRACE CRO (20 MHz)	5 NOS.	each			
6	LCR BRIDGE	2 NOS.	each			
7	SIGNAL GENERATOR AM/FM	4 NOS.	each			
8	FREQUENCY COUNTER	2 NOS.	each			
9	FUNCTION GENERATOR	2 NOS.	each			
10	COMMERCIAL AM/FM RECEIVER (TABLE TOP TYPE)	8 NOS.	each			
11	WATT METER 100W / 250V	2 NOS.	each			
12	P.A. AMPLIFIER	4 NOS.	each			
13	INSULATION TESTER	2 NOS.	each			
14	AUDIO OUTPUT METER	5 NOS.	each			
15	POWER SUPPLY 0-30 V/DC ,2 Amp	4 NOS.	each			
16	POWER SUPPLY 0 – 300 V DC	4 NOS.	each			
17	DISTORTION METER/ANALYSER	2 NOS.	each			
18	COLOUR PATTERN GENERATOR	2 NOS.	each			
19	TAPE RECORDER STEREO TYPE	4 NOS.	each			
20	PULSE GENERATOR	2 NOS.	each			
21	TV RECEIVER (BLACK & WHITE & COLOUR) 4 EACH	8 NOS.	each			
22	COLOUR T.V. DEMONSTRATOR	1 NO.	each			
23	COLOUR TV CAMERA	2 EACH	each			
24	DIGITAL IC TESTER	1 NO.	each			
25	SIGNAL INJECTOR	4 NOS.	each			
26	BASIC ELECTRONIC TRAINER	8 NOS.	each			
27	LINEAR IC TRAINER	4 NOS.	each			
28	DIGITAL IC TRAINER	4 NOS.	each			
29	8085 MICROPROCESSOR TRAINING KIT	2 NOS.	each			
30	MICROPROCESSOR APPLICATION CARDS	1 SET	Set			
31	VCR	4 NOS.	each			
32	CD PLAYER	2 NOS.	each			
33	VCD PLAYER	2 NOS.	each			
34	DVD PLAYER	2 NOS.	each			
35	CD WRITER	1 NO.	each			
36	INTERCOM SYSTEM	1 NO.	each			
37	TELEPHONE PUSH BUTTON (PBT)	6 NOS.	each			
38	CORDLESS TELEPHONE (CLT)	6 NOS.	each			
39	CORDLESS MICROPHONE WITH AMPLIFIER	2 NOS.	each			
40	COLAR MICROPHONE	2 NOS.	each			
41	TELEPHONE SYSTEM TRAINER	1 NO.	each			
42	CAR STEREO HAVING AUTO REVERSE SYSTEM	6 NOS.	each			
43	WOBBULATOR	2 NOS.	each			
44	ELECTRIC IRON (AUTOMATIC)	2 NOS.	each			
45	ELECTRIC IRON (AUTOMATIC WITH WATER SPRAY)	2 NOS.	each			
46	WASHING MACHINE (MICROPROCESSOR/ MICROCONTROLLED BASED)	1 NO.	each			
47	INVERTERS 500 KVA WITH BATTERIES	2 NOS.	each			
48	LEAD ACID BATTERIES	2 NOS.	each			
49	MAINTENANCE FREE BATTERIES	2 NOS.	each			
50	P-IV COMPUTER WITH MULTIMEDIA	2 NOS.	each			
51	DOT MATRIX PRINTER	1 NO.	each			
52	MICROWAVE OVEN	1 NO.	each			

53	OVERHEAD PROJECTOR WITH SCREEN	1 NO.	each			
54	MEGGER	2 NOS.	each			
55	TEMPERATURE CONTROLLED SOLDERING STATION	4 NOS.	each			
56	TEMPERATURE CONTROLLED DESOLDERING STATION	2 NOS.	each			
57	VARIAC 500 VA	4 NOS.	each			
58	ISOLATION TRANSFORMER 500 VA	2 NOS.	each			
59	FRACTIONAL H.P. AC MOTORS	2 NOS.	each			
60	FRACTIONAL H.P. DC MOTORS	2 NOS.	each			
61	COIL WINDING MACHINE (MANUAL)	1 NO.	each			
61	BATTERY CHARGER 25V/10A	1 NO.	each			
62	HIGH RATE DISCHARGE TESTER	1 NO.	each			
63	GRINDER BENCH ELECTRIC	1 NO.	each			

We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.

We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.

We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.

We agree to make necessary arrangements for Inspection and Testing of all the above items at places within Kolkata Metropolitan area before dispatch to the consignee.

Signature of Supplier

TENDER SCHEDULE NO:- B

Bill of Quantities/ Schedule of Requirements for TRADE : " Surveyor"

LIST OF HAND TOOLS, INSTRUMENTS AND EQUIPMENT

DELIVERY POINTS:- 1. ITI, Shimlapal, Karakanali, Dist :- Bankura.

2. ITI, Ghatal, Birsingha, Udaygunj, Dist :- Paschim Medinipur.

SI.No.	Description of Item with Specification	Qty Required per institution	UNIT	RATE (Rs)	TOTAL AMOUNT	
					In figures(Rs.)	In words
1	Money level	1 No	Each			
2	Ammonia Printing box	1 No	Each			
3	Box sextant	2 Nos	Each			
4	Boning Rod	1 set	Set.			
5	Binocular	3 Nos	Each			
6	Black board with easel	1 No	Each			
7	Box Drawing instrument containing compass with pencil point, point divider, interchangeable, divider pen point interchangeable, divider spring box, pen spring box, lengthening bar, pen drawing lines, screw divider instrument, tube with leads	17 Nos	Each			
9	Calculators (8 digits)	17 Nos	Each			
10	Chisels steel 80 mm blade	4 Nos.	Each			
11	Computing scale two hectares	4 Nos.	Each			
12	Computing scale five hectares	4 Nos.	Each			
13	Card board scales (8 in one box)	16 boxes	Boxes			
14	Celonghatracer	2 Nos.	Each			
15	Cross stuff wooden box type	2 Nos.	Each			
16	Cross stuff wooden open type	2 Nos.	Each			
17	Drawing Board (Imperial size)	17 Nos	Each			

18	Drawing machine (Horizontal)	4 Nos.	Each			
20	Engineer's Chain	5 Nos.	Each			
21	Engineer's level	5 Nos.	Each			
22	Dumpy level	2 Nos.	Each			
23	Cokes reversible level	1 No	Each			
24	Tilting level	1 No	Each			
25	Erasing shield	16 Nos	Each			
26	French curve plastic (set of 12)	4sets.	Sets			
27	Ferro Printing frame, 450 x 600 mm	1 No	Each			
28	Ferro Printing frame, 800 x 600 mm	1 No	Each			
29	Fire extinguisher	2 Nos.	Each			
30	Gunter's chain	5 Nos.	Each			
31	Graphos pen for lining	2 Nos.	Each			
32	Graphos pen for printing	2 Nos.	Each			
33	Hand press for numbering and lettering	1 No	Each			
34	Haversacks (canvas bag for keeping tools) (Survey of India pattern)	8 Nos.	Each			
35	Height indicators (Survey of India pattern)	8 Nos.	Each			
36	Holdall Canvas for instruments (Survey of India pattern)	8 Nos.	Each			
37	Hones in case (Survey of India pattern)	1 No	Each			
40	Light tracing board fitted glass, Lamp and frame	4 Nos.	Each			
41	Levelling staff telescope	10 Nos.	Each			
42	Metric Chain (30 m & 20 m)	5 Nos EACH.	Each			
43	Magnifying glass	2 Nos.	Each			
44	Magnet bar (for magnetising through compass needles)	1 set	Set			
45	Metal tubes for keeping drawing dia 100 mm and 1 m. long	8 Nos.	Each			
46	Pen knife	16 Nos.	Each			
47	Protactor full circle (plastic 150 mm dia)	16 Nos.	Each			
48	Proportionate compass	16 Nos.	Each			
49	Planimeter	2 Nos.	Each			
50	Pentagraph	2 Nos.	Each			
51	Prismatic compass	5 Nos.	Each			
52	Plane table with stands with waterproof cover	4 Nos.	Each			
53	Alidade	4 Nos.	Each			
54	Through compass (compass beam wooden)	8 Nos.	Each			
55	Plumbing fork with bobs	8 Nos.	Each			
56	Telescopic alidade	8 Nos.	Each			
57	Indian pattern clinometer	8 Nos.	Each			
58	Ranging rods 4 m	32 Nos.	Each			
59	Off-set rod	4 Nos.	Each			
60	Optical square	4 Nos.	Each			
61	Railways curves	1 set	Set			
64	Scales diagonal, electroplated	1 Nos	Each			
65	Survey plotting scales with off-set bits (8 in a set)	16 Nos.	Each			
66	Stencil set in complete box	2 Nos.	Each			
67	Substance bar	2 Nos.	Each			
68	Set squares (45 deg. & 60 deg. Plastic 280 mm)	17 pairs	Pairs			
69	Tapes Mettalic 30 m	10 Nos.	Each			
70	Tapes Mettalic 20 m	10 Nos.	Each			



71	Steel tape 30 m	2 Nos.	Each			
72	Steel band 30 m & 20 m	2 Nos.	Each			
73	Tee square	17 Nos	Each			
74	Surveyors umbrella	8 Nos.	Each			
75	Theodolite transit	4 Nos.	Each			
76	Micrometer Theodolite transit	1 No	Each			
77	Traverse staff (survey of India)	1 No	Each			
78	Rules Ebonite Plain for drawing lines	16 Nos.	Each			
79	Zinc tray (for washing prints)	1 No	Each			
80	Wooden set squares Tee-square and compass for black board work	1 set	Set			
81	Total Station, with one side display and fixed tribrach consists of the following.	1 No	Each			
	each					
	Accessories					
	Data Transfer Cable : 1 no.					
	Data Transfer Software DL-01: 1 no.					
	Battery MB08: 1 no.					
	Battery Charger MC05: 1 no.					
	Plumb Bob : 1 no.					
	Screw Driver: 1 no.					
	Tommy Pin : 1 no.					
	Rain Cover: 1 no.					
	CD containing instruction manual : 1 no.					
	Carrying Case: 1 no.					
	Heavy duty wooden stand : 1 no.					
	Features					
	Fast Measurement in quick mode less than equal to 1.5 sec.					
	Three focussing modes = Auto Focus; Power Focus; and Manual Focus.					
	Visible Laser Pointer.					
	Graph of entire survey displayed on screen of Total Station.					
	Dual Axis compensator.					
	On Board pre-loaded graphical software including Area, Perimeter, Volume{Cut/Fill}.					
	16000 points on board memory.					
	Range under Normal Conditions					
	Single Prism : 3000 m (PRISM NOT INCLUDED IN SCOPE OF SUPPLY).					
	Three Prism : 4000 m.					
	Angle Accuracy 5".					
	Distance accuracy to one Prism : $\pm(2 \text{ mm} + 2\text{ppmXD})$ mm.					
	Distance Least count : 0.1mm.					
	Stake out programme will calculate the co-ordinate in 0.1 mm. unit-					
	Temperature Pressure Sensors in-built.					
	Large LCD display screen, 8 lines 20 characters.					
	Battery 4/5 hrs. continuous use.					
	Charger with graphic display & discharge function.					
	Laser Plummet in alidade rotating through 3600.					
	A small bull's eye bubble on alidade.					
	Two Electronic bubbles 20"/30" sensitivity at right angles to each other on display panel.					

Alpha Numeric Keyboard (one side only, second side Keyboard & Display not possible).					
Maximum Number of files that can be created = 20.					
Maximum number of points that can be stored in each file = 1500 subject to maximum number of points storage, i.e 16000.					
Single Prism Assembly					
Single Prism Assembly consisting of :					
1 no. Prism.					
1 no. Target Plate.					
1 no. Single Prism Holder.					
1 no. Range Pole 2 mtrs x 2 sections with bipod stand					

We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.

We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.

We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.

We agree to make necessary arrangements for Inspection and Testing of all the above items at places within Kolkata Metropolitan area before dispatch to the consignee.

Signature of Supplier

TENDER SCHEDULE NO:- C

Bill of Quantities/ Schedule of Requirements for TRADE : "Dress Making"

LIST OF HAND TOOLS, INSTRUMENTS AND EQUIPMENT

DELIVERY POINTS:- 1. ITI, Habibpur, Hapania, Bulbul Chandi, Dist :-Malda.

2. ITI Shimlapal, Karakanali, Dist :- Bankura. 3) ITI Egra, Dist :-Purba Madinipur,

Sl.No.	Description of Item with Specification	Qty Required per institute.	UNIT	RATE (Rs)	TOTAL AMOUNT	
					In figures(Rs.)	In words
1	Cloth Brush, Nylon Hair (Wooden Handle)	16 Nos.	each			
2	French Curve set of 3 (Plastic)	16 Nos.	each			
3	Leg Shaper – Wooden / Plastic	17 Nos.	each			
4	Marking Wheel (Steel Body 6")	16 Nos.	each			
5	Measuring Tape 150 cm	16 Nos.	each			
6	Scissors 25 cm (Carbon Steel)	17 Nos.	each			
7	Tailor's Art Curve – Wooden / Plastic	16 Nos.	each			
8	Tailor's Card triangle	16 Nos.	each			
9	Tailors Square – Wooden / Plastic	17 Nos.	each			
10	Thimbles	16 Nos.	each			
11	Thread Ripper / Seam Ripper (Carbon Steel)	16 Nos.	each			
12	Commercial type sewing machine with treadle and motor mounted suitably on a table having a drawer(1/8 HP) Motorised	20 Nos.	each			
13	Fashion maker machine (1/8 HP) Motorised	2 Nos.	each			
14	Overlock machine-single needle 3 thread (1/8 HP) Motorised	1No.	each			
15	Button hole machine	1 No.	each			

16	Machine attachment (a) Narrow hammer (b) Pintuck Foot (c) Gahtering Foot (d) Overedge Foot (e) Ruffler attachment (f) Suam gauge	2 Sets.	Sets			
17	Button hole Scissors	5 Nos.	each			
18	Pincking Scissors (Carbon Steel 20 cm)	5 Nos.	each			
19	Left handed Scissors 25 cm	4 Nos.	each			
20	Shear 30 cm (Carbon Steel)	2 Nos.	each			
21	Table Sharpner	2 Nos.	each			
22	Gun Tape Dispenser	1 Nos.	each			
23	Rubber mat 30 cm x 125 cm	4 Nos.	each			
24	Sprayer	4 Nos.	each			
25	Electric Press (Ordinary)	4 Nos.	each			
26	Electric steam press (Regulated)	2 Nos.	each			
27	Electric automatic press	2 Nos.	each			
28	Milton Cloth double width x 2 mtrs	8 Nos.	each			
29	Waste paper basket – Tin / Plastic	8 Nos.	each			
30	Pattern punch	2 Nos.	each			
31	Pattern Notchor	2 Nos.	each			
32	Pattern hanging hooks	72 Nos.	each			
33	Pattern Hanging angles (Steel)	2 Nos.	each			
34	Water tub 60 cm dig for	1 No.	each			
35	Stand Wooden T shapped for hanging dresses	4 Nos.	each			
36	Hangers (Steel / Wooden)	20 Nos.	each			
37	Glass covered show case size 120 cm x 60 cm for hanging dresses	2 Nos.	each			
38	Dummies Gent's	2 Nos.	each			
39	Dummies lady's	2 Nos.	each			
40	Dummies Children	2 Nos.	each			
41	Calculator desk type	1 No.	each			
42	Wall Clock	1 No.	each			
43	Overhead Projector with trolley and screen Overhead Projector 3 – element lens Twin lamp 2500 lumen Features like easy set up & manipulation, silent cooling system, elegant transportation and perfect picture due to the top optical elements (3- element vario projection lens & condenser) have made this OHP one of the best selling flatbed portables in many Specification : Lamp (W/V) 250/24, Lamp Changer Yes Power Supply Transformer Projection Lenses (elements) 3-vario Focal Length (f=mm) 280-320 Picture Width (cm) min-max 90-425 Projection Distance (cm) min-max 120-450 Condenser Yes Working Surface (mm) 285x285 Foldable Post Yes	1 Set.	Set			

Thermo-Cut off Yes					
Light Output (Lumens) 2700					
Net Dimensions (mm) LxWxH 440x305x450					
Net Dimensions folded (mm) 490x305x130					
Weight (Kg.) Net/Gross (Packed) 7,5/10,5					

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Signature of Supplier.

TENDER SCHEDULE NO:- D

Bill of Quantities/ Schedule of Requirements for TRADE : "Plumber"

LIST OF HAND TOOLS, INSTRUMENTS AND EQUIPMENT

DELEVERY POINTS:- 1) ITI Shimlapal, D27Karakanali, Dist :- Bankura.

SI.No.	Description of Item with Specification	QtyRequired	UNIT	RATE (Rs)	TOTAL AMOUNT	
					In figures(Rs.)	In words
1	Rule Steel 300 mm both in inch and mm	17Nos.	each			
2	Rule wooden 4 fold 690 mm	17No.	each			
3	Hacksaw frame adjustable for 250 to 300 mm.	17No.	each			
4	Scriber 200mm	17No.	each			
5	Centre Punch 100mm.	17No.	each			
6	Chisel cold flat 20 x 250mm	17No.	each			
7	Hammer ball peen 800gms	17No.	each			
8	Hammer ball peen 300mm	17No.	each			
9	File flat rough 300mm	17No.	each			
10	Sprit level wooden 300mm	17No.	each			
11	Plumb bob 50 gms	17No.	each			
12	Trowel 125 IS ; 6013	17No.	each			
13	Stillson wrench 200 & 350 mm	17No.	each			
14	Screw driver 250mm	17No.	each			
15	Wooden mallet small IS : 2022	17No.	each			
16	Cutting pliers 200 IS : 3650	17No.	each			
17	Steel tape, 30m	17No.	each			
18	Surface Plate 400 x 400mm grade	1No.	each			

19	Marking Table 900x600x900mm high	1No.	each			
20	V Blocks with clamps 80/7-63	2Nos.	each			
21	Combinations Plier Set 200/300mm	2Nos.	each			
22	Scribing Block Universal 300	2Nos.	each			
23	Hand vice jaw 50 mm	2Nos.	each			
24	File flat smooth 200mm	8Nos.	each			
25	File half round rough 100mm	8Nos.	each			
26	File square rough 250mm	8Nos.	each			
27	File square smooth 200mm	8Nos.	each			
28	File Triangular rough 250mm	6Nos.	each			
29	File flat rasp 250mm	6Nos.	each			
30	File Triangular smooth 200mm	6Nos.	each			
31	Chisel cold flat 20mm x 300mm	6Nos.	each			
32	Chisel cross cut 6 x 150mm	6Nos.	each			
33	Chisel round cut 3 x 150mm	6Nos.	each			
34	Chisel diamond point 6 x 150mm	6Nos.	each			
35	Tap and die set cut BSP thread	1set	Set			
36	Screw Pitch Gauge	1No.	each			
37	Punch letter set	1No.	each			
38	Punch number set	1set	set			
39	Chase wedge 50 mm	3Nos.	each			
40	Dresser lead 350 x 50 mm	4Nos.	each			
41	Stick setting in 350 x 50 mm	4Nos.	each			
42	Saw plumber 300mm	4Nos.	each			
43	Spanner monkry up to 50 mm	2Nos.	each			
44	Stove Melting Solder	1No.	each			
45	Cutter , pipe wheel type 6mm to 25mm	1No.	each			
46	Pipe jointer , lead , universal	1No.	each			
47	Oil stone 150 mm x 50mm x 25mm	3Nos.	each			
48	Soldering Iron , 35watt	4Nos.	each			
49	Snip straight 250mm	1No.	each			
50	Try square 200mm	4Nos.	each			
51	Inside caliper 150mm	4Nos.	each			
52	Caliper outside 150mm	4Nos.	each			
53	Odd leg caliper 200mm	4Nos.	each			
54	Tenon saw	2Nos.	each			
55	Handsaw	2Nos.	each			
56	Morticc Chisel	2sets	sets			
57	Firmer chisel	2sets	sets			
58	Mallet medium IS : 2922	2sets	sets			
59	Jack Plane	2sets	sets			
60	Welding Plant, Oxy-acetylene complete (either high & low pressure)	1No.	each			
61	Goggles Pair Welder 100mm	2pairs	pairs			
62	Brass steel wire 150x50mm	1No.	each			
63	Table welding 1200x750mm with fire bricks top and stand	1No.	each			
64	Pliers Combination 200mm	2sets	sets			
65	Blow lamp 500 ml	4sets	sets			
66	Pipe opener	1No.	each			

67	Washer cutter	1No.	each			
68	Pressing stick	1No.	each			
69	Mandrel	2Nos.	each			
70	Plumber kit containing tampin , bent pin , plumbers hammer dressers , mallets , chase wedges , draw knife and step turner .	2sets	sets.			
71	Bobbin and follower	2 each	each			
72	Bend bolt	2Nos.	each			
73	Sheet lead knife	2Nos.	each			
74	Chipping knife	2Nos.	each			
75	Mirror 100 x 150 mm	2Nos.	each			
76	Splash stick	1No.	each			
77	Scribing gauge	1No.	each			
78	Soil pot with brush	1No.	each			
79	Pot hook	1No.	each			
80	Turn pin	1No.	each			
81	DE spanners 7 x 8 , 10 x 11 , 13 x 17 , 19x 22 , 24x27	2sets	sets			
82	Branch Grimlets	2Nos.	each			
83	Bending spring	1set	set			
84	Long Dumy	2Nos.	each			
85	Short Dumy	2Nos.	each			
86	Plumber Ladle	2Nos.	each			
87	Joining cramp	2Nos.	each			
88	Plumbers metal melting pot 10 kg	1No.	each			
89	Pipe stocks and dies complete with stocks brushing , brushing holders taps and tap wrenches sizes covered to to suit pipes of bore dia 6 , 8 , 10,20, 25,32,40,and 50 mm	3sets	sets			
90	Pipe Vice to grip pipes up to 77 mm IS : 2587	3Nos.	each			
91	Tool caulking set of 2	2Nos.	each			
92	Stillson Pattern pipe wrenches 450mm to take pipe upto 52mm dia	2Nos.	each			
93	Stillson Pattern pipe wrenches 320mm to take pipe upto 20mm to 32mm	2Nos.	each			
94	Chain pipe wrench 90 mm 650mm	1No.	each			
95	Adjustable Spanner	2Nos.	each			
96	Anvil 50 or 63 kg.	1No.	each			
97	Pipe Bending Machine , Manually Operated Hand Operated having capacity ½" to 2" dia, C class pipes, complete with 2Nos. dolly block with pins and a set of 6Nos. CI formers, duly mounted on MS fabricated tripod stand.	2Nos.	each			
98	Vice leg 75mm jaw on stand	1No.	each			
99	Drill Machine Hand Operated 6mm Capacity : 6mm Watts input : 235 Watts No Load Speed : 2800 rpm Approx Weight : 1.975Kg.	5Nos.	each			
100	Drill twist (straight shank) 3mm to 6mm	1set	set			
101	Hand Blower Capacity : 1.5mm / min	5Nos.	each			

	Watt : 350 Nozzle air Velocity : 308 Kmph Appx. 4.6Kg					
102	Flat smithy tong	2Nos.	each			
103	Working bench 2400 x 1200 x 750 mm with 4 ices 125mm jaws.	2Nos.	each			
104	Bath Tub	1No.	each			
105	Stop tap water 20mm	4Nos.	each			
106	Wash basin (16" x 14" x 10") equivalent metric	2Nos.	each			
107	Water Heater 22ltrs.	2Nos.	each			
108	Water closet (European type with down type cistern)	1set	set			
109	Water closet Indian type complete with over head low down cistern	1set	set			
110	Urinal wall type complete with automatic system	1set	set			
111	Water Analyzer Kit DISPLAY 3 ½ DIGIT LCD pH RANGE 0 TO 14 PH RESOLUTION 0.01 PH ACCURACY 0.01± 1 DIGIT TEMP. COMP. 0 TO 100°C (manual) CONDUCTIVITY (EC) RANGE 0-200µs 0-2,0-20,0-200mS RESOLUTION 0.1 µs RANGE SELECTION MANUAL ACCURACY ±0.5%FS±1 DIGIT CELL CONSTANT ADJUSTABLE (0.4 TO 1.5) TEMP.COEFFICIENT 2% TEMP.COMP. 0 to 100° C (Manual) REFERENCE TEMP. 25°C TEMPERATURE RANGE 0-100°C RESOLUTION 0.1°C ACCURACY ±0.1°C± 1Digit SENSOR Semi Conductor Type TDS RANGE 0-200 ppm 0-2,0-20,0-200 ppt RANGE SELECTION Manual RESOLUTION 0.1 ppm ACCURACY ±0.5%FS±1 DIGIT CELL CONSTANT 0.4 to 1.5 on display DO RANGE 0-20 ppm RESOLUTION 0.1 ppm ACCURACY 0.5 ppm ± 1 Digit TEMP.COMP. Manual(5°Cto 55°C) DO SENSOR Gold/ Silver Amperometric probe	2Nos.	each			

	<p>MV (ORP) RANGE 0 to ± 1999 mV RESOLUTION 1 mV ACCURACY 1 mV ± 1 digit RANGE 0-50 ppt RESOLUTION 0.1 ppt ACCURACY ± 0.5%FS ± 1Digit POWER SUPPLY 1.5V X 6 Dry cells or 230V±10%AC,50Hz SALINITY RANGE 0-50 ppt RESOLUTION 0.1 ppt ACCURACY ±0.5% FS ±1 Digit STANDARD ACCESSORIES pH Electrode, cond./TDS/Salinity cell, temp. Probe, Do Probe, Dry cell container, Main lead operation manual, Bottles for pH solution & pH Tablets Bottles, Turbidity Test Tube Set</p>					
112	<p>Fire Extinguisher Mechanical Foam type The Blanketing effect of AFFF Provides a swift fire fighting action by cutting the atmospheric oxygen connection with the fire, thereby preventing the re-ignition of flames. Capacity Kgs : 9 Kg. IS Specification : 10204 Test Pressure : 30 Kg/cm² CO2 Cartridge :60gms. Discharge Range : 6m Height: 595 mm Diameter : 175mm Weight : 14.5 Kgs.</p>	5Nos.	each			
113	Fire Bucket with stand	5Nos.	each			
114	Ratched break with post ad clamp flat drill 15 to 50mm by 0.2mm	1No.	each			
115	PVC welding plant	1No.	each			
116	Electric pump 1 HP	1No.	each			
117	<p>Pedestal Grinder , Double ended wheel dia 200mm 3000rpm Double Ended Pedestal Grinder Double Ended Pedestal Grinder of 1HP Motor AC 440V, 3-Phase , 3000 RPM , Fitted with 2Nos. 8" x 1" x 5/8", size Grinding wheels (one fine and one course) with guards, Tool Rests , Rotary Switch / Push Button starter, eye shields & machine mounted on CI pedestal Stand.</p>	2Nos.	each			
118	Hydraulic pressure machines for testing leakage in	1No.	each			
119	GI pipe fittings					
120	Sight rail & bonning rod	1No.	each			
121	Ratchet pipe die 15mm to 32mm	1No.	each			
122	<p>Bench Drilling Machine 13mm Drilling Capacity in MS : 13mm Max. Distance from Spindle Centre to Column Centre : 205mm</p>	2Nos.	each			

	Max. Distance from Spindle to and Base Plate : 610mm Max. Distance from Spindle Nose to Working Table : 275mm Spindle Travel : 110mm No. of Spindle Speeds : 5 Range of Spindle Speeds RPM : 5 Round Table Working Surface : 230mm Main Drive Motor : 1HP					
123	Double face hammers	1No.	each			
124	Dormat , pickle , spade , Girmale	1No.	each			
125	Spring divider	1No.	each			
126	Pipe Bending Machine (Hydraulic Type) Hand Operated having capacity 1/2" to 3" dia, C class pipes, complete with 2Nos. dolly block with pins and a set of 6Nos. CI formers, duly mounted on MS fabricated tripod stand.	2Nos.	each			
127	Vernier caliper 250 mm	1No.	each			
128	Outside Micrometer 0 – 25mm	1No.	each			

We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.

We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.

We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.

We agree to make necessary arrangements for Inspection and Testing of all the above items at places within Kolkata Metropolitan area before dispatch to the consignee.

Signature of Supplier

TENDER SCHEDULE NO:- E / 1

Bill of Quantities/ Schedule of Requirements for TRADE : "ELECTRICIAN "
LIST OF HAND TOOLS, INSTRUMENTS AND EQUIPMENT

DELIVERY POINTS:- 1) ITI Habibpur, Hapania, Bulbul Chandi, Dist :-Malda.

Sl.No.	Description of Item with Specification	QtyRequired	UNIT	RATE (Rs)	TOTAL AMOUNT	
					In figures(Rs.)	In words
1	Bradwal	16Nos.	each			
2	Electrician Connector , Screw Driver 100mm insulated handle	16Nos.	each			
3	Electrician Connector , Screw Driver 250mm	16Nos.	each			

	insulated handle				
4	Electrician Testing Pencil / Neon Tester	16Nos.	each		
5	Firmer Chisel wood 12mm	16Nos.	each		
6	Gimlet 6mm	16Nos.	each		
7	Hammer Ball peen 0.75kg. with handle	16Nos.	each		
8	Hammer , Cross Peen 115 grams with handle	16Nos.	each		
9	Heavy Duty Screw Driver 200mm	16Nos.	each		
10	Knife Double Bladed Electrician	16Nos.	each		
11	Pincer 150mm	16Nos.	each		
12	Plier Insulated 150mm	16Nos.	each		
13	Piler Side cutting 150mm	16Nos.	each		
14	Punch centre 100mm	16Nos.	each		
15	Rule Steel 300mm	16Nos.	each		
16	Rule Wooden 4 fold 60mm	16Nos.	each		
17	Saw Tenon 250mm	16Nos.	each		
18	Screw Driver 150mm	16Nos.	each		
19	Scriber 150 x 04mm	16Nos.	each		
20	C Clamp 200mm , 150mm and 100mm	2Nos. each	each		
21	Spanner 150mm Adjustable 15 degree	2Nos.	each		
22	Blow lamp 0.5litre	2Nos.	each		
23	Melting Pot	1No.	each		
24	Ladle	2Nos.	each		
25	Chisel Cold firmer 25mm x 200mm	2Nos.	each		
26	Chisel 25mm & 6mm	2Nos.	each		
27	Drill Machine (Hand Operated) Capacity : 6mm Approx Weight : 1.975Kg.	2Nos.	each		
28	Electrical Drill Portable Capacity 6mm , Heavy Duty Capacity : 6mm ,Watt input-235 watt ; No Load Speed 2800 rpm	1No.	each		
29	Pillar Drill Machine 13mm Capacity Drilling Capacity in MS : 13mm Max. Distance from Spindle Centre to Column Centre : 205mm Max. Distance from Spindle to and Base Plate : 610mm Max. Distance from Spindle Nose to Working Table : 275mm Spindle Travel : 110mm No. of Spindle Speeds : 5 Range of Spindle Speeds RPM : 5 Round Table Working Surface : 230mm Main Drive Motor : 1HP	2Nos.	each		
30	Allen Key	1Set	set		
31	Oil Can 0.12 litre	2Nos.	each		
32	Grease Gun	1No.	each		
33	Out Side Micrometer 0 to 25mm	1No.	each		
34	Bench Grinder Motorised AC , Single Phase, 150 x 16 x 12.7, 265W, 2950 RPM	2Nos.	each		

	12.41Kg Appx.					
35	Rawl plug tool & bit	2Sets	set			
36	Pulley Puller, Capacity upto 200mm size pulley	1No.	each			
37	Bearing Puller, Capacity upto 75 mm size bearing	1No.	each			
38	Digital Multimeter Display : 3 ½ digit 1999 counts DC Voltage : 0 – 200mV – 1000V Accuracy : ± 0.5% AC Voltage : 0 – 2 ~ 750V Accuracy : ± 0.8% DC Current : 0 – 200uA ~ 20A Accuracy : ± 0.8% AC Current : 0 – 2mA ~ 20A Accuracy : ± 1.2% Resistance : 0 – 200Ohm ~ 20M Ohm Accuracy : ± 0.8% Diode Test, Transistor Test and Audible Continuity Test.	1No.	each			
39	Ammeter (0 -500mA) Milliammeter Portable AC Moving Iron Ammeter Laboratory type for Horizontal use, Analog for measuring AC Current for continuous use. Housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 130mm height with detachable lid, black bakelite panel fitted w	1No.	each			
40	Ammeter DC (0 – 1Amp) Portable DC Moving Coil Ammeter Laboratory type for Horizontal use, Analog for measuring DC Current for continuous use. Housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 130mm height with detachable lid, black bakelite panel fitted w	1No.	each			
41	AC Energy Meter (Single phase 5 amp. 230v) (96x96x115 mm) panel mounting Self Powered Static Watthour Meter with Electro Mechanical Display (Impulse Counter) suitable for 1-phase use. Input current : 5A. Voltage : 230V. Accuracy class : ±1.0% of reading Display type : 6 Digit Impulse Counter, Non-resettable Pulse output : 100 ±10% m sec. (ON PERIOD)	1No.	each			
42	Single Phase Power Factor Meter Portable Electro Dynamometer type single phase single element laboratory type for horizontal use, housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 180mm height with detachable lid, black bakelite panel fitted with anti-parallax mirr as per IS : 1248 : 1983 Range : 2.5 / 5A , 125/250/500V	1No.	each			
43	Frequency Meter Portable Moving Coil Built-in Transducer type 1-phase, Frequency Meter suitable for 230V. AC operation, in black engg. case, Range : 45-55 Hz., Accuracy class ±1.0% conforming to IS 1248.	1No.	each			

44	Milli Voltmeter MC(-) 0-100mV	1No.	each			
45	Spring Balance 0 to 15Kg & 0 – 2.5Kg	2Sets	sets			
46	Stop Watch	1No.	each			
47	Tachometer Digital (Contact / Non Contact type)	2Nos. each	each			
a)	Digital Non Contact Tachometer Display : 5 digits, 99999 counts large LCD Range : 5 to 99, 999 RPM Resolution : 0.1 RPM for 5 ~ 999.9 RPM 1 RPM over 100p RPM. Accuracy : ± 0.05% Test Range : Selection is automatic Detecting Distance : 50 to 500mm / 2 to 20 inch (typical) max. 100mm / 40 inch depending of ambient light. Memory : Last value, maximum value and minimum value.					
b)	Digital Contact Tachometer Display : 5 digits, 99999 counts large LCD Range : 0.5 to 99, 999 RPM 0.5 to 1,999.9 m/min 0.2 – 6560 ft/min Resolution : 0.1 RPM for 5 ~ 999.9 RPM 1 RPM over 100p RPM. Accuracy : ± 0.05% Test Range : Selection is automatic Detecting Distance : 50 to 500mm / 2 to 20 inch (typical) max. 100mm / 40 inch depending of ambient light. Memory : Last value, maximum value and minimum value.					
48	Scissors blade 150mm	4Nos.	each			
49	Crimping Tools One manual & one hydraulic operated	1No.	each			
50	Screw Driver 100mm	4Nos.	each			
51	Chisel Cold flat 12mm	4Nos.	each			
52	Mallet Hard Wood 0.50Kg	4Nos.	each			
53	Hammer Extractor type 0.40Kg with handle	3Nos.	each			
54	Hacksaw Frame 200mm , 300mm adjustable	2Nos each	each			
55	Square try 150mm blade	4Nos.	each			
56	Divider 150mm , Outside & Inside Caliper	3Nos. each	each			
57	Plier Flat Nose 100mm	4Nos.	each			
58	Plier gas round nose 100mm	4Nos.	each			
59	Plier Combination 165mm	4Nos.	each			
60	Tweezers 100mm	4Nos.	each			
61	Snip Straight 150mm	2Nos.	each			
62	Snip Bent 150mm	2Nos.	each			
63	Spanner D.E Metric standard set	2Nos.	each			
64	Drill Hand 10mm (Light Duty)	4Nos.	each			
65	Drill S.S Twist block 2mm , 5mm , 6mm set of 3	4Nos.	each			
66	Plane Smoothing Cutter	4Nos.	each			

67	Gauge , wire Imperial	2Nos.	each			
68	File Flat 200mm 2 nd cut	3Nos.	each			
69	File Half round 200mm 2 nd cut	4Nos.	each			
70	File Half round 200mm smooth	4Nos.	each			
71	File Round 200mm 2 nd cut	4Nos.	each			
72	File Round 100mm 2 nd cut	4Nos.	each			
73	File Flat 250mm Bastard	4Nos.	each			
74	File Flat 250mm Smooth	4Nos.	each			
75	File Flat 250mm Rough	4Nos.	each			
76	File Flat 200mm Bustard	4Nos.	each			
77	Rasp , Half Round 200 Bastard	4Nos.	each			
78	Iron , Soldering 25watt , 65watt , 125watt	4Nos. each	each			
79	Vice Hand 50mm jaw	4Nos.	each			
80	Stock and Dies conduit with cutter (full set)	1No.	each			
81	Ammeter DC (0 – 25DC) Portable DC Moving Coil Ammeter Laboratory type for Horizontal use, Analog for measuring DC Current for continuous use. Housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 130mm height with detachable lid, black bakelite panel fitted w	1No.	each			
82	Ammeter DC (0 – 5Amp) Portable DC Moving Coil Ammeter Laboratory type for Horizontal use, Analog for measuring DC Current for continuous use. Housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 130mm height with detachable lid, black bakelite panel fitted w	1No.	each			
83	D.C. Energy Meter (Ampere hour type) 5A, 250V Digital Specification : Energy Indication : Max 99.999Kwh . Resolution : 0.1Kwh Current Ranges : 2.5 – 5ADC Accuracy : ±2% Load Voltage : 230VDC Power Rechargeable Nickel/Cadmium Batteries (4x1.5V) With Battery Charger 230VAC Display : LED 0.3 inch 4 digit numbers with low Battery Indication & energy consumption indication	1No.	each			
84	Voltmeter AC (0 – 500V) Portable AC Moving Iron Voltmeter Laboratory type for Horizontal use, Analog for measuring AC Current for continuous use. Housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 130mm height with detachable lid, black bakelite panel fitted	1No.	each			
85	Voltmeter AC (0 – 25V) Portable AC Moving Iron Voltmeter Laboratory type for Horizontal use, Analog for measuring AC Current for continuous use. Housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 130mm height with detachable lid, black bakelite panel fitted	1No.	each			
86	Voltmeter AC (0 – 5V)	1No.	each			

	Portable AC Moving Iron Voltmeter Laboratory type for Horizontal use, Analog for measuring AC Current for continuous use. Housed in laminated Wooden Cabinet of size 235mm length x 200mm width x 130mm height with detachable lid, black bakelite panel fitted					
87	AC Energy Meter (Single phase 5 amp. 230v) (96x96x115 mm) panel mounting Self Powered Static Watthour Meter with Electro Mechanical Display (Impulse Counter) suitable for 1-phase use. Input current : 5A. Voltage : 230V. Accuracy class : $\pm 1.0\%$ of reading Display type : 6 Digit Impulse Counter, Non-resettable Pulse output : 100 $\pm 10\%$ m sec. (ON PERIOD)	1No.	each			
88	Megger 500volts Metal body hand driven generator type Output voltage 500 volts DC and measurable Insulation range 0 – 100MOhm with Carrying case and Testing Leads.	1No.	each			
89	Wheatstone Bridge complete with galvanometer and battery Specification :- Application : Measurement of wire range of Resistance. Layout of Bridge : Ratio Arm : A single dial gives multiples of 0.001, 0.01, 0.1, 1, 10, 100 & 1000Ohm. Variable Arm : This is dials in decades of 1, 10, 100 & 1000 Ohm. Detector : Built in galvanometer Battery : Built in 4.5V , 3Nos. torch cells are fitted in the battery compartment at one side of the box. Terminals : There are 6 terminals on the panel 2 for unknown resistance , galvanometer. Keys : Two press keys are provided to connect the battery and the galvanometer in the circuit. Special Features : Provision to test murrey and varley loop test.	2Nos.	each			
90	Fan AC 230 volt 1200mm	2Nos.	each			
91	Fan DC 220 volt 1200mm	2Nos.	each			
92	Bath Impregnating	1No.	each			
93	Oven Stoving	2Nos.	each			
94	Vice, Table Jaw 100mm	3Nos.	each			
95	Fire Extinguisher Mechanical Foam type The Blanketing effect of AFFF Provides a swift fire fighting action by cutting the atmospheric oxygen connection with the fire, thereby preventing the re-ignition of flomes. Capactiry Kgs : 9 Kg. IS Specification : 10204 Test Pressure : 30 Kg/cm ² CO2 Cartridge :60gms. Dicharge Range : 6m	2Nos.	each			

	Height: 595 mm Diameter : 175mm Weight : 14.5 Kgs.					
96	Fire Bucket	2Nos.	each			
97	Wire Stripper 20cm	4Nos.	each			
98	Copper Bit Soldering Iron 0.25Kg	2Nos.	each			
99	Domestic Appliances –					
	b) Electric kettle , 1000 watts , 230v	2Nos.	each			
	c) Electric iron , 1200watts , 230v with temperature control	2Nos.	each			
	d) Immersion Heater 750 / 1000 / 1500w – 230V	2Nos.	each			
	e) Geyser 25 litre 240 v (storage type	2Nos.	each			
	f) B.A. Taps & Dies	1Set	set			
100	Spring Balance 0-1Kg	1No.	each			
101	Laboratory Type Induction Coil 6 volt to 800 – 10,000 volt	1No.	each			
102	Series Type Ohm Meter Portable self contained, battery operated , moving coil type, anti parallax mirror scale and knife edge pointer , Accuracy $\pm 5\%$ of the indicated value at centre scale. Range 0 to 2000 Ohms.	2Nos.	each			
103	Shunt Type Ohm Meter Portable self contained, battery operated , moving coil type, anti parallax mirror scale and knife edge pointer , Accuracy $\pm 5\%$ of the indicated value at centre scale. Range 0 to 2000 Ohms.	2Nos.	each			
104	3 – Point DC Starters (For 5 HP DC Motor)	1No.	each			
105	4-Point DC Starters (for 5HP DC Compound Motor)	1No.	each			
106	Pipe Cutter to cut pipes upto 5cm dia	4Nos.	each			
107	Load Bank 5 Kw a) Resistance Load Bank Range : 5KW / 20Amps Single Phase b) Capacitance or Inductive Load Bank Range : 5KW / 20Amps Single Phase c) Inductive Load Bank Range : 5KW / 20Amps single Phase	1No.	each			
108	Cut out , reverse current , over load , under voltage relays & R.C.C.B.	1No.	each			
109	Stock and Die Set for 20mm to 50mm GI pipe with cutter (Complete set)	1No.	each			
110	Motor AC series type 230V , 50cycles , ¼ HP with mechanical load	1No.	each			
111	Scientific Calculator	2Nos.	each			
112	Digital Multimeter 4 1/2 digits 19999 counts large LCD display Single easy to use rotary switch for FUNCTION and RANGE selection Automatic zero on all ranges with short circuit Maximum common jack voltage: 750V AC / DC All ranges are fully protected Battery: one 9V battery	5Nos.	each			

	Basic DC accuracy: 0.1 % Low voltage indicator Low battery indicator Fuse protected Weight: 300 gms (approx) Data hold facility Accuracy: + (% reading + NO of digits), guranteed for 1 year Environmental Temperature: 23 °C + 5 °C Relative Humidity: < 75% Impedance:10 M. on all ranges Overload protection: DC or AC peak value of 1000V (except 200mV range with maximum value being 250V rms.					
113	Transformer Single Phase , 3KVA 230/115-50-24-12 volts , 50cycles core type , air cooled .	3Nos.	each			
114	Transformer Three Phase , 5KVA , 440/230 volts , cycles , delta / star , shell type oil cooled .	2Nos.	each			
115	Current Transformer Primary 10, 20, 30, 50 & 100 Amps Secondary : 5Amps	2Nos.	each			
116	Potential Transformer Primary 0 – 250 Volts Secondary : 75/150/300/600Volts	2Nos.	each			
117	Used DC Generator Series , Shunt and Compound type for coupling.	1No.	each			
118	Variac , Variable Auto Transformer Single Phase Portable Variacs are meant for laboratories, housed in sheet steel cabinet duly powder coated . All connections are brought out and terminated with a pin cable for for easy operation, Input 230/240Volts, Single Phase AC 50Hz, Output 0 – 270 v	2Nos.	each			
119	Diesel Generator Set , 5KVA , 415volt , AC 3 phase with Change over switch , Over Current circuit breaker and water cooled with armature , Star –delta connections.	1No.	each			
120	Function Generator Sinewave, Triangle wave, Square wave and so on. Frequency and amplitude both are displayed. Bandwidth 0.2Hz to 2MHz in seven range Output 20Vp-p	2Nos.	each			
121	Flux Meter Digital EMF Tester Quick Response & Reliable Measurement Range : 0.1 to 200mG Frequency Response : 30Hz to 400Hz Accuracy : ± 3%	2Nos.	each			
122	Earth Leakage Circuit Breaker	1No.	each			
123	Desoldering Gun	4Nos.	each			
124	A.C.B. 5 KVA 63 Amp.	1No.	each			
125	O.C.B. 5 KVA 100 Amp.	1No.	each			

126	M.C.B. 5 KVA 6 Amp.	1No.	each			
127	V.C.B. 5KVA	1No.	each			
128	Voltage Stabilizer Manual and Automatic a) Voltage Stabilizer Manual Current 0.45Amp Input Voltage : 90-300V Output Voltage : 200 – 240V ± 2% b) Automatic Voltage Stabilizer Current : 1.4Amps Input Voltage : 130 – 280 V Output Voltage : 200 – 240V ± 2%	1No. each	each each			

We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.

We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.

We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.

We agree to make necessary arrangements for Inspection and Testing of all the above items at places within Kolkata Metropolitan area before dispatch to the consignee.

Signature of Supplier

TENDER SCHEDULE NO:- E / 2

Bill of Quantities/ Schedule of Requirements for TRADE : "ELECTRICIAN "

LIST OF MACHINERY

DELEVERY POINTS:- 1) ITI Habibpur, Hapania, Bulbul Chandi, Dist :-Malda.

SI.No.	Description of Item with Specification	QtyRequired	UNIT	RATE (Rs)	TOTAL AMOUNT	
					In figures(Rs.)	In words
1	Tong Tester General Specifications Incorporates CMOS LSI Circuit for automatic transfer of measuring range. 3-3/4 digits - 3999 counts, LCD Display AC/DC flow 40 mA / 100 mA AC/DC (Measurement of AC/DC mA, current with test leads) Maximum Clamp Dia: 52mm DATA HOLD facility Low Battery indication Auto Power Off Power Supply 3V battery (2 pcs 1.5V batteries) Weight approx: 360 gms Accessories: Leads, Manual, Battery, carrying case Audible continuity Frequency and capacitive measurement An ideal tool for electrical measurement made in accordance with IEC - 1010 -1 Safety Standards. DC Voltage Range Accuracy Resolution Overload Protection	1No.	each			

	<p>400mV +(0.8%+2d) 0.1mV 1000V 4V +(0.8%+2d) 1mV 1000V 40V +(0.8%+2d) 10mV 1000V 400V +(0.8%+2d) 100mV 1000V 1000V +(1%+3d) 1V 1000V AC Voltage Range Accuracy Resolution Frequency Range Overload Protection 400mV +(1.2%+5d) 0.1mV 50~60 Hz 1000V 4V +(1.2%+5d) 1mV 50~60 Hz 1000V 40V +(1.2%+5d) 10mV 50~60 Hz 1000V 400V +(1.2%+5d) 100mV 50~60 Hz 1000V 600V +(1.5%+5d) 1V 50~60 Hz 1000V AC Current (mA From Input Terminals) Range Accuracy Resolution Frequency Range Overload Protection 4 A +(1.5%+5d) 1mA 50~60 Hz 100 A 40 A +(1.5%+5d) 10mA 50~60 Hz 100 A 400 A +(1.5%+5d) 100mA 50~60 Hz 1500 A 1000 A +(1.5%+5d) 1A 50~60 Hz 1500 A Resistance Range Accuracy Resolution Overload Protection 400Ω +(1%+3d) 0.1Ω 220 V 4kΩ +(1%+3d) 1Ω 220 V 40kΩ +(1%+3d) 10Ω 220 V 400kΩ +(1%+3d) 100Ω 220 V 4MΩ +(1%+3d) 1KΩ 220 V 400MΩ +(1.2%+5d) 10KΩ 220 V Capacitance Range Accuracy Resolution Overload Protection 40nF +(3%+5d) 0.01 nF 100 V 400nF +(3%+5d) 0.1 nF 100 V 4uF +(3%+5d) 1 nF 100 V 40uF +(3%+5d) 10 nF 100 V 100uF +(3%+5d) 100 nF 100 V Frequency Range Accuracy Resolution Overload Protection 40 Hz +(0.5%+3d) 0.01Hz 100 V 400 Hz +(0.5%+3d) 0.1Hz 100 V 4 KHz +(0.5%+3d) 1Hz 100 V 40 KHz +(0.5%+3d) 10 Hz 100 V 400 KHz +(0.5%+3d) 100 Hz 100 V 4 MHz +(0.5%+3d) 1KHz 100 V 20 MHz +(0.5%+3d) 10 KHz 100 V Diode Test Indicates the approximate value of forward direction voltage decrease of diode, measuring condition forward direction direct current flow approximately 0.5 mA, backward direction direct voltage approximately 1.5V. Continuity Test</p>					
2	<p>Starters for 3 phase , 400v , 50 cycles , 2 HP AC motor a) Auto Transformer type starter</p>	1No.	each			

	b) Star delta starter with manual , semi auto and automatic c) Direct on line starter					
3	Electrical Machine Trainer (Basic Unit) with flat Demo panel table top rack with set of panels. Essential accessories and following 300W chasis mounted machines (7Nos.) DC machine with swinging stator has torque speed sensor mounted to measure shaft power. a] Integrated DC m/c mounted as Dynamometer & with speed/torque sensor. b] Integrated 3 phase AC 300W m/c chasis mounted c] Integrated 1 phase AC 300W motor chasis mounted d] Integrated 1 phase AC generator & Sync.300W M e] Universal Motor AC/DC, 300W, Chasis mounted f] Repulsion motor chasis mounted g] Squirrel cage 3 phase AC 300W, 2 speed chasis mounted motor.	1Set.	set			
4	MG Set Consisting of Squirrel Case Induction Motor 7HP 400V, 50 cycles with directly coupled DC shunt generator 5 KW 250V with built in panel board laboratory type MG Set should be mounted on a base plate. The Panel Board Consist of : 3-Phase Circuit Breakers Star Delta Starter (Contact type & points) Shunt Field Regulator DC Circuit Breaker Suitable voltmeter on AC & DC side Suitable line ammeters on AC & DC side Field Circuit ammeter Indicating lamps on both the sides (AC & DC) Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual	1Set	set			
5	Motor Generator (DC to AC) Set Consisting of : Motor shunt 5 HP , 440 volts with starting compensator and switch directly coupled to generator AC , 3.5 KVA , 400/230 volts , 3- phase , 4 wire , 0.8 PF 50cycles with exciter and 1 switch board mounted with regulator , circuit breaker , ammeter , voltme	1Set	set			
6	Motor Series DC , 220 volt , 0.5 to 2 HP , coupled with mechanical load.	1No.	each			
7	DC Shunt Motor 3HP 250V with 3 point starter and speed regulator Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : • 3 Point DC Starter. • Speed Regulator. • Suitable Analog Voltmeter. • Suitable Analog Ammeter. Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual	2Nos.	each			
8	AC Squirrel Case Induction Motor 3HP , 400V with DOL Starter	1No.	each			

	Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : <ul style="list-style-type: none"> • DOL Starter • Suitable Analog Voltmeter. • Suitable Analog Ammeter. Accessories : • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual					
9	Motor AC Phase Wound Slip Ring type 5HP 400 volts , 3phase , 50cycles with starter and switch.	1No.	each			
10	DC Compound 3HP 250V with 4 Point Starter and Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : <ul style="list-style-type: none"> • 4 Point DC Starter. • Field Regulator • Suitable Analog Voltmeter. • Suitable Analog Ammeter. Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual	2Nos.	each			
11	Motor AC Single Phase, 230Volt, 1HP Repulsion type complete with starter and switch.	1No.	each			
12	Motor AC Single Phase 230volt 50 cycles ¼ HP with starter / switch	1No.	each			
13	Motor AC Single Phase 230 volt 50cycles 1 HP capacitor type with starter switch 1 HP	1No.	each			
14	Universal Motor 750W AC/DC 250V Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : <ul style="list-style-type: none"> • Suitable Analog Voltmeter. • Suitable Analog Ammeter. Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual DC Shunt Motor 3HP 250V with 3 point starter and speed regulator Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : <ul style="list-style-type: none"> • 3 Point DC Starter. • Speed Regulator. • Suitable Analog Voltmeter. • Suitable Analog Ammeter. Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual	1No.	each			
15	DC Compound 3HP 250V with 4 Point Starter and Laboratory type Motor should be mounted on a base plate. The Panel Board Consist of : <ul style="list-style-type: none"> • 4 Point DC Starter. • Field Regulator • Suitable Analog Voltmeter. • Suitable Analog Ammeter. Accessories: • Tachometer for Speed Measurement. • The circuit diagram will be supplied with the Motor. • Instruction Manual	1No.	each			
16	Oscilloscope	2Nos.	each			

Dual Trace /Double beam 20 MHz
Vertical Deflection System
Deflection Factor Range: 5mV per Division to 10V per Division in a 1 - 2 - 5 sequence of 11 steps
Accuracy: (+) 3% Approx.
Variable Control Range: Continuously variable and uncalibrated between step setting. Increases deflection factor by at least 2.5 to 1
Bandwidth (-3 db): 20 MHz or more
Rise Time: 17.5 nS or less
AC Coupled Cut Off Frequency: 10 Hz or less
Common Mode Rejection Ratio: At least 10 to 1 at 20 MHz
Input Characteristics Direct Input Via 10 : 1 probe
Resistance 1 M.Ohms + 2% 10 M.Ohms + 5%
Capacitance 30 pF + 5 pF 20 pF + 5 pF
Max. Safe Input Voltage (DC or AC Coupled) 400 V (DC + AC) Peak
Channel Isolation: Greater than 100 : 1 at 10 MHz
Visual Delay Time: 40 ns or more
Invert Mode: In Channel 2 only
Trigger System
Trigger Sensitivity (For Auto & Norm. Mode)
Internal Signal: 0.1 Div
External Signal: 0.2 V p-p
TV Field Mode (Composite Sync.)
Internal: 2 Div
External: 0.3 Div
Horizontal Deflection System
Sweep Rate: 0.2s per Div to 0.1 Micro Sec per Div in a 1 - 2 - 5 sequence of 20 steps. Magnification extends Max. usable sweep speed to 20ns per Div.
Accuracy: (+) 3 % Approx.
Variable Control: > or = 2.5 : 1
Sweep Linearity: (+) 10 %
X-Y Operation
Deflector Factor: 0.2V/div ~0.5V/div
Frequency Bandwidth (-3dB): DC:0~1MHz; AC: 10Hz ~ 1MHz
Calibration Signal
Deflection Factor: 5mV per Division to 10V per Division in a 1 - 2 - 5 sequence of 11 steps
Accuracy: (+) 3% Approx.
Bandwidth: DC to at least 1 MHz
Phase Difference Between X and Y Axis Amplifiers: < 'OR' = 3° from DC to 50 kHz
Z Modulation
Sensitivity: 5V cause noticeable modulation positive going input decreases intensity
Usable Frequency Range: DC - 1 MHz
Max. Safe Input Voltage: 50 V (DC + AC)pk
Input Resistance: 10 K.Ohms
Trace Rotation: Possible

	<p>Probe Adjustment Signal Output Voltage into 1M.Ohms load: 0.5V + 2% Repetition Rate: 1 KHz + 2% Wave Form: Square Wave Cathode Ray Tube Display Area: 8 Div x 10 Div (1 Div = 1 cm) Nominal Accelerating Voltage: 2 KV Power Requirement Line Voltage Range: 220V + 10% Line Frequency: 50 Hz + 2 Hz Max. Power Consumption: 40W Mechanical Characteristics Weight: 7.2kg Dimensions: 320mm (L) x 124mm (W) x 380mm (D)</p>					
17	<p>Oil Testing Kit Confirms to IS 6792, IEC 156 Tests insulating oils to IS, IEC, ASTM, etc. Test voltage to 0 – 60 kV. One piece construction with safety interlock Test voltage can be held at any level up to maximum kV meter continues to indicate 'bdv' even after breakdown Light weight, portable, rugged and reliable Specifications Input : 240 V ±10%, AC, 1Phase, 50/60Hz. Display : Analog models: 96mm square Accuracy : ±4% of full scale deflection/range Shut down sensitivity in HV circuit : 20mA approx. Rate of rise of voltage : Motorized sets only: 2kV/second approx. (±20% max.) Dimension : 50x55x48</p>	2Nos.	each			
18	<p>Stepper Motor Demonstrator Features : Single stepping and free running modes of operation with speed variation and direction reversal – internal TTL circuit. 360°C motion servo – potentiometer position – pickup for motor dynamics operation through microprocessor kit – sample control programs provided. Stepper Motor Specification Torque : 2.8 kg – cm Step Angle : 1.8° Power : 12 , 1A / Phase 220±10% , 50 Hz mains operation Complete in all respects , except a measuring CRO High Performance 8085A CPU operating at 3 MHz 4K Powerful monitor firmware in 2732 . includes all standard commands , codes , functions and utility sub – routines 4K user RAM 6116 Versatile keyboard / display controller using 8279 Serial I/O lines , 22 parallel lines from 8155 and 24 from 8255 Built in audio cassette interface 6 digit seven segment LED display.</p>	2Nos.	each			
19	DC Speed Control System	2Nos.	each			

Features and Specifications <ul style="list-style-type: none"> • Speed control of a 12V, 4W permanent magnet d.c. motor • Speed range: 0 to 2000 rpm (typical) • Opto-interrupter based speed sensing • 4-digit speed display in rpm • Electronic tachogenerator for feedback • Separate unit for motor in a see-through cabinet • Smooth, non-contact eddy current brake • Built-in 3½ digit DVM for signal measurements • 220V±10%, 50Hz mains operation • Supporting literature and patch cords included Essential accessory – 20MHz CRO					
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We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.

We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.

We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.

We agree to make necessary arrangements for Inspection and Testing of all the above items at places within Kolkata Metropolitan area before dispatch to the consignee.

Signature of Supplier

TENDER SCHEDULE NO:- AD

Bill of Quantities/ Schedule of Requirements for TRADE : "Health Sanitary Inspector"

LIST OF HAND TOOLS, INSTRUMENTS AND EQUIPMENT

DELIVERY POINTS:- 1) ITI Egra, Dist :-Purba Madinipur,

SI.No.	Description of Item with Specification	Qty Required per institute.	UNIT	RATE (Rs)	TOTAL AMOUNT	
					In figures(Rs.)	In words
1	<p style="text-align: center;"><u>AUDIO-VISUAL AIDS</u></p> Overhead Projector with trolley and screen Overhead Projector 3 – element lens Twin lamp 2500 lumen Features like easy set up & manipulation, silent cooling system, elegant transportation and perfect picture due to the top optical elements (3-element vario projection lens & condenser) have made this OHP one of the best selling flatbed portables in many Specification : Lamp (W/V) 250/24, Lamp Changer Yes Power Supply Transformer Projection Lenses (elements) 3-vario Focal Length (f=mm) 280-320 Picture Width (cm) min-max 90-425 Projection Distance (cm) min-max 120-450 Condenser Yes Working Surface (mm) 285x285 Foldable Post Yes Thermo-Cut off Yes Light Output (Lumens) 2700	1 no.	each			

	Net Dimensions (mm) LxWxH 440x305x450 Net Dimensions folded (mm) 490x305x130 Weight (Kg.) Net/Gross (Packed) 7,5/10,5					
2	Branded Desktop Computer having the following regular configuration on 3 years warranty. Perepherials, with additional units /software as below:- Intel Core 2 DUO Configuratrion a. CPU : Intel Core 2 Duo /E 7300, 2.66 GHz, 3 MB L2 cache and 1066 MHz FSB. b. Motherboard : Intel Q 965/nVidia chipset 7025 or better on OEM Motherboard. c. Bus Architecture : Integrated Graphics, 2 PCI,1 PCI Express x 1 and 1 PCI Bxpress x 16. d. Memory : 2 GB 800 MHz DDR2 SDRAM with minimum 4 total DIMM slots. e. Hard Disk Drive : 160 GB 7200 rpm Serial ATA HDD. f. Monitor : 18.5" TFT. g. PS/2 Keyboard : 104 keys (Same make as PC). h. Mouse : PS/ 2 2 Button Optical (Same make as PC). i. Bays : 6 Nos.(2 Nos. 5.25 inches for Optical Media Drives and 2 Nos. 3.5 inches for Hard Disk Drives). j. Ports : 6 USB Ports (with at least 2 in front), 1 Serial Port, 1 Parallel port, 1 PS/2 Keyboard and 1 PS2 Mouse Port, audio ports for microphone and headphone in front. k. Cabinet : Micro tower. l. DMI : DMI 2.0 Compliance and Support. m. DVD Drive : DVD 8X Rewriter. n.Internal 56 kbps (Fax/Data/Voice) Modem o. Networking facility : 10/100/1000 on board integrated Network Port with remote booting facility remote system installation, remote wake up. p. Operating System : Windows XP Professional (Service pack-2 or latest version) preloaded with Media and Documentation and Certificate of Authenticity. q. OS Certifications : Windows XP Professional OS and Linux Certifications. r. Power Management : Screen Blanking, Hard Disk and System Idle Mode in Power On, Set up Password, Power supply SMPS Surge protected. s. Preloaded Software : Norton , McAfee, ETrust or equivalent Antivirus (Latest Version) with 60 days License. t) MS Office 2007 Professional u)Abobe Acrobat Standard 8.0 With v) Pen Drive(4G.B.)-2Nos.	1 no.	each			
3	Slide Projector	1 no.	each			
4	V.C.R.	1 no.	each			
	MODELS FOR					
5	Sanitary Latrine	1 no.	each			
6	Sewerage system and Treatment Plant	1 no.	each			
7	Ventilation	1 no.	each			
8	Waste Disposal unit	1 no.	each			
9	Water Purification Plant	1 no.	each			
	GENERAL OUTFITS					
10	Autoclave	1 no.	each			

11	Refrigerator , 165 ltrs.	1 no.	each			
12	Sterilizer	1 no.	each			

We agree to supply the above goods in accordance with the technical specification as per terms and conditions specified in Tender Notice.

We also confirm that the normal commercial Warrantee/Gurantee of 12 months shall apply to all the offered goods.

We also confirm that we have taken steps to ensure that no person acting for us or on our behalf will engage in corrupt, fraudulent, collusive, coercive or obstructive practice.

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Signature of Supplier