

Government Industrial Training Institute
(Gr-A) Solan.
District Solan, Himachal Pradesh

Approved

PROCUREMENT PLAN

under

STRIVE PROJECT - YEAR 3 & 4

Part C: Procurement Plan

Procurement Plan: IMC to submit the procurement plan for ITI as per Section 4.2- Procurement guidelines in the below format:

- i. Total Planned Procurement Amount (Year 1 to Year 5) **250** (in INR lakh)
- ii. Year-wise details of procurement of items (Goods, services etc.) are detailed below:

C. Items to be procured in Year-3

Sr. No	Name of items	Specifications	Trade for which it is required	Total Required	Rate / Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	Seven Segment DPM Trainer		Electronics Mechanic	6	6000	36000	National Competitive Bidding
2	Dual DC Regulated Power Supply	30-0-30 V, 2 Amps	Electronics Mechanic	4	14000	56000	National Competitive Bidding
3	Frequency Modulator and De-Modulator Trainer Kit	FM Modulator Type: Reactance Modulator, Varactor, Modulator, VCO Based Modulator FM Demodulator type All 5 demodulation techniques Detailed teaching and learning contents through software.	Electronics Mechanic	2	16000	32000	National Competitive Bidding
4	Fire Extinguisher	Arrange all proper NOCs and equipment from Municipal/Competent authorities	Electronics Mechanic	1	2000	2000	National Competitive Bidding
5	Analog Component Trainer	Analog Component Trainer (Breadboard for Circuit design with necessary DC/AC power supply: Sine, Square, Triangle Modulation Signal Generator and Simulation Software)	Electronics Mechanic	1	18000	18000	National Competitive Bidding
6	LCD Based DPM		Electronics Mechanic	6	6000	36000	National Competitive Bidding
7	PAM, PPM, PWM Trainer Kit		Electronics Mechanic	2	14000	28000	National Competitive Bidding
8	Fire Buckets		Electronics Mechanic	2	4500	9000	National Competitive Bidding
9	UPS Trainer	UPS trainer (PWM switching technology, Test points to measure the voltages of different sections Overall functioning of UPS Trainer, AVR transformer, UPS with load condition.	Electronics Mechanic	1	25000	25000	National Competitive Bidding
10	Clamp Meter (0-10Amp.)	(0-10Amp)	Electronics Mechanic	1	2000	2000	National Competitive Bidding
11	AM/FM Commercial Radio Receiver		Electronics Mechanic	2	12000	24000	National Competitive Bidding
12	Smart Phone of Different Make		Electronics Mechanic	2	30000	60000	National Competitive Bidding

		coupled to DC shunt Generator and switch board mounted with regulator air breaker, Digital Volt meter, Ammeter, knife blade switches and fuses set complete with cast iron bed plates, fixing bolts, and flexible coupling. Induction motor rating: 7.5 HP, 415 volts, 50Hz, 3 Phase. DC Shunt Generator Rating: 5 Kw, 440 volt. (Output voltage varies 110-440 volt)					
13	DC Compound Generator with control panel	(Shunt generator coupled with ac 3 phase squirrel cage motor with star delta starter) including switch board mounted with regulator air breaker, Digital Volt meter, Ammeter, knife blade switches and fuses set complete with cast iron bed plates, fixing bolts, and flexible coupling. DC Compound Generator: 2.5 KW, 220 volt. With digital meters	Electrician	1	1,10,000	1,10,000	National Competitive Bidding
14	Motor Generator (DC to AC) set	consisting of Shunt Motor with starting compensator and switch directly coupled to AC Generator with exciter and switch board mounted with regulator breaker, Digital Volt meter, Ammeter, frequency meter, knife blade switches and fuses set complete with cast iron bed plate, fixing bolts, and flexible coupling. Shunt Motor Rating: 5hp, 440 volt. AC Generator Rating: 3.5 KVA, 3 Phase 4 wire 440/230 volts, 0.8 PF 50 HZ.	Electrician	1	1,30,000	1,30,000	National Competitive Bidding
15	Synchronous motor with starter & excitation arrangements & Digital Meter	including switch board mounted with regulator air breaker, Digital Volt meter, Ammeter, knife blade switches and fuses set complete	Electrician	1	55,000	55,000	National Competitive Bidding



13	Microcontroller Kits along with programming software	(Assembly level Programming) with Core 8051, ready to run programmer for AT89C51/52 & 55, programming modes Key Pad and PC circuits. Detailed learning content through simulation Software.	Electronics Mechanic	2	20000	40000	National Competitive Bidding
14	DOL Starter		Electronics Mechanic	1	2400	2400	National Competitive Bidding
15	Cell Phone Power Source with charger chords for Diff. Cell phones		Electronics Mechanic	1	2000	2000	National Competitive Bidding
16	Dimmer Starter	(3 Amps)	Electronics Mechanic	2	3000	6000	National Competitive Bidding
17	Application Kits for microcontroller	(1. Input Interface: 4x4 Matrix Keypad, ASCII Key PAD, Four Input Switch. 2. Display Module 16X2 LCD, Seven Segment, LED Bar Graph. 3. ADC/DAC Module with most popular DC/DAC0808. 4. PC Interface: RS232 & USB 5. Motor Drive: DC, Servo, Stepper 6. DAQ: Data Acquisition to sense different sensors signals.	Electronics Mechanic	1	32000	32000	National Competitive Bidding
18	AC Motor Trainer Kit	AC Motor Trainer Kit with (¼ HP motor Single Phase, Contactors, Relays, MCB, DOL Starter).	Electronics Mechanic	1	28000	28000	National Competitive Bidding
19	Bench Vice	125mm	Electronics Mechanic	1	4500	4500	National Competitive Bidding
20	File Flat Bastard.	200mm	Electronics Mechanic	2	600	1200	National Competitive Bidding
21	Screw Driver	Set of 7	Electronics Mechanic	2	360	720	National Competitive Bidding
22	Tweezer Bend Tip		Electronics Mechanic	2	200	400	National Competitive Bidding
23	Hack saw Frame Adjustable 300mm	300mm	Electronics Mechanic	2	200	400	National Competitive Bidding
24	File Flat Second Cut 200mm	200mm	Electronics Mechanic	2	360	720	National Competitive Bidding
25	Chisel Cold Flat	10mm*150mm	Electronics Mechanic	1	200	200	National Competitive Bidding
26	File Flat Nose 150mm	150mm	Electronics Mechanic	4	360	1440	National Competitive Bidding
27	Insulated Side Cutting Pliers	150mm	Electronics Mechanic	10	280	2800	National Competitive Bidding
28	Long Nose Pliers	150mm	Electronics Mechanic	4	280	1120	National Competitive Bidding
29	Tool Maker Vice		Electronics Mechanic	1	800	800	National Competitive Bidding
30	Handsaw	450mm	Electronics Mechanic	1	450	450	National Competitive Bidding
31	Tubular Box Spanner (Set of Six)	Set - 6 - 32 mm	Electronics Mechanic	1	200	200	National Competitive Bidding
32	Soldering Iron	25 watt, 240 volt	Electronics Mechanic	10	200	2000	National Competitive Bidding
33	Magnetic Spanner (Set of 8)	8 spanners	Electronics Mechanic	2	800	1600	National Competitive Bidding
34	Bench Vice	100mm	Electronics Mechanic	1	6500	6500	National Competitive Bidding
35	Insulated Combination Plier	150mm	Electronics Mechanic	8	280	2240	National Competitive Bidding



36	Bench vice	50mm	Electronics Mechanic	1	5500	5500	National Competitive Bidding
37	Electric knife 100MM	100mm	Electronics Mechanic	3	266	798	National Competitive Bidding
38	Soldering Iron 25Watt	25watt,240volt	Electronics Mechanic	12	200	2400	National Competitive Bidding
39	Connecting Screw driver 10x100mm	10x100mm	Electronics Mechanic	2	100	200	National Competitive Bidding
40	Smart Different Make		Electronics Mechanic	1	30000	30000	National Competitive Bidding
41	Digital Multimeter 4000 Count	(3 3/4 digit) ,4000 Counts	Electronics Mechanic	3	1000	3000	National Competitive Bidding
42	Digital Multimeter 4000 Count	(3 3/4 digit) ,4000 Counts	Electronics Mechanic	2	1000	2000	National Competitive Bidding
43	Screw Driver Set of 7	Set of 7	Electronics Mechanic	4	360	1440	National Competitive Bidding
44	Soldering Iron Changeable Bit 15Watt		Electronics Mechanic	8	200	1600	National Competitive Bidding
45	Soldering Iron Changeable Bit 15Watt	15watt,240volt	Electronics Mechanic	8	200	1600	National Competitive Bidding
46	Screw Driver Set		Electronics Mechanic	2	360	720	National Competitive Bidding
47	Precision set of screw Driver(T5,T6&T7)	T5, T6, T7	Electronics Mechanic	1	360	360	National Competitive Bidding
48	Soldering Iron 25Watt	25watt,240volt	Electronics Mechanic	4	200	800	National Competitive Bidding
49	Insulated side cutting plier	150mm	Electronics Mechanic	10	300	3000	National Competitive Bidding
50	Long nos plier	150mm	Electronics Mechanic	8	300	2400	National Competitive Bidding
51	Desoldering pump	230V, 40W	Electronics Mechanic	12	300	3600	National Competitive Bidding
52	Soldering iron	25watt,240volt	Electronics Mechanic	12	220	2640	National Competitive Bidding
53	Neon tester	500V	Electronics Mechanic	8	200	1600	National Competitive Bidding
54	Electrician knife	100mm	Electronics Mechanic	8	200	1600	National Competitive Bidding
55	Screw driver	Set of 7	Electronics Mechanic	12	380	4560	National Competitive Bidding
56	Insulated Combination plier	150mm	Electronics Mechanic	8	300	2400	National Competitive Bidding
57	Naksh steel Yes 10		Electronics Mechanic	4	65	260	National Competitive Bidding
58	Tool maker		Electronics Mechanic	1	600	600	National Competitive Bidding
59	Shakti round nose plier 10mm	10mm	Electronics Mechanic	4	280	1120	National Competitive Bidding
60	Continuity tester		Electronics Mechanic	5	150	750	National Competitive Bidding
61	Unbranded sharp/blunt blade light o/system		Electronics Mechanic	1	200	200	National Competitive Bidding
62	Hand drill	13mm	Electronics Mechanic	2	3500	7000	National Competitive Bidding
63	Home theater		Electronics Mechanic	1	9000	9000	National Competitive Bidding
64	Powertrac AC ,DC ammeter, boltmeter		Electronics Mechanic	4	500	2000	National Competitive Bidding
65	Long nose plier 150mm	150mm	Electronics Mechanic	4	280	1120	National Competitive Bidding




66	Electrician knife	100mm	Electronics Mechanic	4	266	1064	National Competitive Bidding
67	Precision screw Driver	T5, T6, T7	Electronics Mechanic	2	360	720	National Competitive Bidding
68	LED lighting system	Measurement of Power, Voltage, Current, Power Factor and Light output performance of different lighting products like LED, CFL at variable input voltages 0 to 245V variable AC	Electronics Mechanic	1	26000	26000	National Competitive Bidding
69	Battery charger	0 - 6 - 9 - 12 - 24 - 48 V, 30 Amp	Electronics Mechanic	4	13000	52000	National Competitive Bidding
70	Function Generator 10MHZ	1 mHz -10 MHz FunctionPulse – Modulation Generator with Built in 40MHz Frequency Counter	Electronics Mechanic	2	17000	34000	National Competitive Bidding
71	De Soldering Pump	230V, 40W	Electronics Mechanic	14	308.5714	4320	National Competitive Bidding
72	Screw Driver Set of 7	Set of 7	Electronics Mechanic	12	826.6667	9920	National Competitive Bidding
73	Auto Transformer 3 Phase	15 Amps	Electronics Mechanic	2	17000	34000	National Competitive Bidding
74	Digital Multimeter	(3 3/4 digit) ,4000 Counts	Electronics Mechanic	14	1000	14000	National Competitive Bidding
75	Soldering Iron(Naksh)		Electronics Mechanic	16	200	3200	National Competitive Bidding
76	Plastic Grip Tweezer6"		Electronics Mechanic	24	102.9167	2470	National Competitive Bidding
77	Ratchet Pipe Threaded	1-1/4Inch	Plumber	1	13700	13700	National Competitive Bidding
78	Bosch Angle Grinder	4"	Plumber, Fitter, Welder	3	3800	11400	National Competitive Bidding
79	Bosch Angle Grinder	7"	Welder	1	8300	8300	National Competitive Bidding
80	AC Voltas 1.5 Ton	(Hot & Cold) 5 Star	I&CTSM	2	44449	88898	National Competitive Bidding
81	AC Voltas	2 Ton (Hot & Cold) 3 Star	Draughtsman & Basic Cosmetology	2	54000	108000	National Competitive Bidding
82	Demolition Hammer Breaker	With Hex	Plumber	1	24200	24200	National Competitive Bidding
83	BOSCH Electric Drill	850 Watt	Welder, Fitter, Elect. Maintenance	3	13997.67	41993	National Competitive Bidding
84	Interactive Pannels	85"	Electronics Mechanic	1	450000	450000	National Competitive Bidding
85	Laptop	i5 and i7 and above configuration	Elect. Mech., I&CTSM	3	54985.6	164956.8	National Competitive Bidding
86	All in One PC		Elect. Mech.,	5	66908.8	334544	National Competitive Bidding
87	Computer Table		Electronic Mechanic	1	6500	6500	National Competitive Bidding
88	3KVA Numeric Online	3KVA	Electronic Mechanic	1	60000	60000	National Competitive Bidding
89	5KVA Numeric Online UPS	5KVA	I&CTSM	1	155250	155250	National Competitive Bidding
90	E learning software		COPA & Electroics Mechanics lab			987500	National Competitive Bidding
91	Two Seater Desk		Elect. Mech.	7	5800	40600	National Competitive Bidding



92	Revolving Chair Computer		Electronics Mechanic	8	4199	33592	National Competitive Bidding
93	Instructor Chair		Electronics Mechanic	3	6800	20400	National Competitive Bidding
94	Instructor Table		Electronics Mechanic	1	9200	9200	National Competitive Bidding
95	Steel Cloths lockers for students		Electronics Mechanic	8	21800	174400	National Competitive Bidding
96	Steel Classic Almirah 2500x1200x500mm		Electronics Mechanic	1	24900	24900	National Competitive Bidding
97	Metal 5 Shelving Rack	100cm x 150cm x 45cm	Electronics Mechanic	3	6165	18495	National Competitive Bidding
98	Metal 3 Shelving Rack		Electronics Mechanic	2	5500	11000	National Competitive Bidding
Total including GST						3529481	


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 Chairman (IMC)
 I.T.I. Solan (H.P.)

D. Items to be procured in Year-4

#	Name of items	Specifications	Trade/Course for which it is required	Total Required	Rate / Unit (in INR lakh)	Total (in INR lakh)	Method of Procurement (e.g. Shopping/Competitive Bidding)
1	LearnEngg- 3 Dimensional Visual Teaching Content Software for ITI Electrician Trade	For Virtual Classroom study	Electrician	1	1,32,300	1,32,300	National Competitive Bidding
2	LearnEngg- 3 Dimensional Visual Teaching Content Software for ITI Welder Trade	Virtual Class Room study	Welder	1	1,57,950	1,57,950	National Competitive Bidding
3	LearnEngg- 3 Dimensional Visual Teaching Content Software for ITI Fitter Trade	Virtual Class Room study	Fitter	1	1,32,300	1,32,300	National Competitive Bidding
4	Interactive LED Pannel 85"	With Shutter for Virtual Class room	Electrician	1	4,50,000	4,50,000	National Competitive Bidding
5	Interactive LED Pannel 85"	With Shutter for Virtual Class room	COPA-1	1	4,50,000	4,50,000	National Competitive Bidding
6	Interactive LED Pannel 85"	With Shutter for Class room	Welder	1	4,50,000	4,50,000	National Competitive Bidding
7	Interactive LED Pannel 85"	With Shutter for Class room	Fitter	1	4,50,000	4,50,000	National Competitive Bidding
8	Interactive LED Pannel 85"	With Shutter for Class room	Turner	1	4,50,000	4,50,000	National Competitive Bidding
9	Interactive LED Pannel 85"	With Shutter for Class room	Mechanic Motor Vehicle	1	4,50,000	4,50,000	National Competitive Bidding
10	Electronics Workbench	Wooden	Electronics Mech	3	13,800	41,400	National Competitive Bidding
11	DC Shunt Generator with control panel	{ Shunt generator coupled with ac 3 phase squirrel cage motor with star delta starter) including switch board mounted with regulator air breaker, Digital Volt meter, Ammeter, knife blade switches and fuses set complete with cast iron bed plates, fixing bolts, and flexible coupling. DC Shunt Generator: 2.5 KW, 220 volt. With digital meters. 3 Phase Sq. cage motor: 5 HP 440 volt, with control panel & digital meters.	Electrician	1	1,10,000	1,10,000	National Competitive Bidding
12	Motor Generator Set (AC to DC)	Squirrel cage induction Motor with star delta starter and directly	Electrician	1	1,30,000	1,30,000	National Competitive Bidding



		with cast iron bed plates, fixing bolts, and flexible coupling. Synchronous motor: 3 phase, 3 HP 440 volt 50 Hz					
16	Electrical Machine Trainer	suitable for demonstrating the construction and functioning of different types of DC machines and AC machines (Single phase and Three phase). Should be fitted with friction brake arrangement, dynamometer instrument panel and power supply unit. 3 Phase motor rating: 3HP, 415 volts, 50Hz, 3 Phase. DC Machine rating: Dc compound machine 3hp, 440 volt.	Electrician	1	2,15,000	2,15,000	National Competitive Bidding
17	Thyristor/IGBT controlled AC motor drive with VVVF Control 3 PHASE.	Induction motor rating: 2HP, 415 volts, 50Hz, 3 Phase.	Electrician	1	7,00,000	7,00,000	National Competitive Bidding
18	Pillar Electric Drill machine 12-20 mm Capacity with 3 phase motor & starter.	3 Phase Motor : 1 HP 4 Pole 50 Hz. 440 Volt.	Electrician	1	12,000	12,000	National Competitive Bidding
19	Motorized Bench grinder double side with smooth & rough wheel & tool base.	3 Phase motor Rating: 3 phase, 1 HP 440 volt, 4 pole 50 Hz. With DOL starter.	Electrician	1	8,500	8,500	National Competitive Bidding
20	Working bench	2.5 m x 1.20 m x 0.75 m with 2.5 inch angle frame, 35 mm thick Wooden Top (well furnished & seasoned wood)	Electrician	4	15,000	60,000	National Competitive Bidding
21	LCD Projector with complete smart class solution	Complete projection system in one cabinet with trolley	COPA-1	1	1,50,000	1,50,000	National Competitive Bidding
22	Online UPS	5KVA	COPA-1	2	1,20,000	2,40,000	National Competitive Bidding
23	Multimedia Computer (all -in-One)	CPU:- 64 Bit i7, RAM:- 8GB DDR-III HDD:- 500GB, Wi-fi Enabled, Wi-fi USB Mouse & Keyboard, Licensed Windows-10,	COPA-1	15	90,000	13,50,000	National Competitive Bidding
24	Laptop 4th Gen	CPU:- 64 Bit i7, RAM:- 8GB DDR-III HDD:- 1TB, 2GB Graphic Card , Licensed Windows-10,	COPA-1	1	1,00,000	1,00,000	National Competitive Bidding
25	Laser Printer	Coloured	COPA-1	1	17,900	17,900	National Competitive Bidding



26	MS-Office 2019	25 User	COPA-1	25	5,000	1,25,000	National Competitive Bidding
27	Network Laser Printer	Monochrome	COPA-1	1	1,06,645	1,06,645	National Competitive Bidding
28	Injector cleaning unit		Mechanic Diesel-	1	38,000	38,000	National Competitive Bidding
29	Diesel Engine – CRDI - 4 stroke (NEW)	Dismantling and assembling with swivelling stand	Mechanic Diesel-	1	1,90,000	1,90,000	National Competitive Bidding
30	Welding Transformer	{ 150-300 Amps}	Mechanic Diesel-	1	10,000	10,000	National Competitive Bidding
31	Working Condition Diesel Engine – CRDI - 4 stroke Engine Assembly with fault simulation board (NEW)		Mechanic Diesel-	1	2,20,000	2,20,000	National Competitive Bidding
32	Cut Section of 4/6 cylinder with moving condition to show momentum of internal parts		Mechanic Diesel-	1	2,00,000	2,00,000	National Competitive Bidding
33	Hydraulic jack trolley Type	5 ton capacity	MMV	1	20,000	20,000	National Competitive Bidding
34	Injector pressure tester	(Hand Tester)	MMV	1	13,500	13,500	National Competitive Bidding
35	Personal computer with latest configuration	min. 19 inch LED Screen and graphic card with latest operating system	Draughtsman Civil-I	20	25,000	5,00,000	National Competitive Bidding
36	Printer	A3 Laserjet with scanner (Multipurpose)	Draughtsman Civil-I	1	30,000	30,000	National Competitive Bidding
37	CAD software		Draughtsman Civil-I	1	1,00,000	1,00,000	National Competitive Bidding
38	Tenoning machine (single ended)		Carpenter-I	1	40,000	40,000	National Competitive Bidding
39	Drill Machine Pillar Type	12 mm. Capacity	Carpenter-I	1	10,000	10,000	National Competitive Bidding
40	Invertor with battery	1 Kva with 12 volt battery input 12 volt DC output 220 volt ac	Electrician Unit-1	1	25,000	25,000	National Competitive Bidding
41	i3 All in one PC	i3 Processor,8GB RAM, 1TB HDD	Electrician Unit-1	1	56,000	56,000	National Competitive Bidding
42	Primary current injection set	250V, 50Hz, 1-phase, output current- 200A(min) with timer	Electrician Unit-1	1	20,000	20,000	National Competitive Bidding
43	i3 All in One	i3 Processor,8GB RAM,1TB HDD	Electrician-II	1	56,000	56,000	National Competitive Bidding
44	Laser Printer/Scan/Copy	Electrician-II	1	14,000	14,000	National Competitive Bidding
45	Work Station	All in one i3 processor	Front Office Assistant-II	1	56,000	56,000	National Competitive Bidding
46	Work Station	All in one i3 processor	Front Office Assistant-I	8	56,000	4,48,000	National Competitive Bidding
47	Hydraulic pressure machine	for testing leakage in GI pipe	PLUMBER -I	1	8,000	8,000	National Competitive Bidding



48	Bench drilling machine with starter and 1HP 3phase motor	with chuck key up to 15mm	PLUMBER -I	1	29,000	29,000	National Competitive Bidding
49	Pipe bender (hydraulic type)		PLUMBER -I	1	28,000	28,000	National Competitive Bidding
50	Manual Surface Grinder Machine	Model No - M7125 - Spindle Speed -2800 Rpm Motor Power-3HP, Grinding Wheel Size-200x13x31.75mm	Fitter	1	1,19,000	1,19,000	National Competitive Bidding
51	Gang Drilling Machine	(MS-2/ LD MS-3/ LD MS-4 / LD2 ,3 OR 04 Spindle Drills A) MS-2/MD MS-3/MD (C.K.P Machine Tools)	Fitter	1	1,55,000	1,55,000	National Competitive Bidding
52	Lathe SS & S.C (all geared types) S-20	150 MM Center Height, 1000 Mm Between Centers, Gap Bed Machine To Be Motorized, And Supplied With Coolant Installation, 4-Jaw independent Chuck 250mm, 3-Jaw Self Self Centering Chuck 200 Mm Fixed Steady, Face Plate, Driving Plate, 4- Way Tool Post, Quick Change Gear Box For Metric / British Threads, Live And Dead Centers, With Taper Attachments, Motor Capacity-5.5 KW	Fitter	1	10,00,000	10,00,000	National Competitive Bidding
Total						1,01,69,495	
GST@18%						18,30,509	
G.Total						1,20,00,004	


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