

Part C: Procurement Plan (Revised) Govt I.T.I., Phulbani (MIS code GU21000511) Name of Principal : Er. B.B.Nayak
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 3): 140, 40,000 (in INR lakh)
ii. Year -wise details of procurement of items (Goods, services etc.) are detailed below:

A. Items to be procured in Year-1

Sl.No	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 (Shopping / Competitive Bidding)
1	Diesel Engine CRDI 4 stroke	Latest 4 stroke 4 cylinder turbo charged CRDI Engine, 800-1600cc, in running condition with ECM, BCM and all sensors wiring, fuel feed & cooling system & instrument cluster	MMV	1	300000	300000	Competitive Bidding)
2	working condition of Diesel Engine CRDI-4 stroke assembly with fault simulation board	latest 4 stroke 4 cylinder turbo charged CRDI Engine, with ECM, BCM and all sensors wiring, fuel feed & cooling system & instrument cluster. Fault setting bank for minimum 8 sensors and with diagnostic socket & scanner to read the faults. Engine management circuit diagram to be printed on the panel board	MMV	1	300000	300000	Competitive Bidding)
3	Air conditioned CRDI Vehicle in running condition LMV	New vehicle with CRDI engine, 4 strokes, 4 cylinders, BS-IV, fitted with air condition	MMV	1	600000	600000	Competitive Bidding)
4	Heavy Commercial Vehicle	Fitted with latest 6 cylinder CRDI diesel engine with all parts and accessories. (without body on frame)	MMV	1	1500000	1500000	Competitive Bidding)

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5	Hydraulic Pipe bending machine		Plumber	1	30000	30000	Competitive Bidding)
6	Copper Pipe bending machine		Plumber	1	30000	30000	Competitive Bidding)
7	Sensor Type wash basin		Plumber	1	30000	30000	Competitive Bidding)
8	Sensor type urinal fitting		Plumber	1	30000	30000	Competitive Bidding)
9	CNC lathe/CNC turn Center		Machinist	1	1200000	1200000	Competitive Bidding)
10	3D Printer-with Continuous Filament Fabrication(CFF)	Build Volume -320mm x 132mm x 154mmwith z resolution -100 microns	3 D Printing	1	700000	700000	Competitive Bidding)
11	3D Printer-FFF(Fused Filament Fabrication)	200x300x200PLA support	3 D Printing	8	150000	120000	Competitive Bidding)
12	3D Printer-with Direct Light Processing technology (DLP)	Build Volume –100mm x 50mm x 150 mm or better with dynamic Z resolution-0.0001 inches -0.003 inchesSoftware –Prefactory&MagicsLight Source – Industrial UV LED	3 D Printing	1	650000	650000	Competitive Bidding)
13	Scanner for Reverse Engineering	Opticalscanner tripod mounted with turn table andnecessary accessories, accuracy up to 100microns	3 D Printing	1	15000	15000	Competitive Bidding)

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14	Software for Reverse Engineering-(Integrated with CAD)		3 D Printing	1	15000	15000	Competitive Bidding)
15	Sever	True dedicated sever	3 D Printing	1	400000	400000	Competitive Bidding)
16	3D CAD	17 user licience	3 D Printing	1	20000	20000	Competitive Bidding)
17	UPS -5 KVA for printing machine & computer		3 D Printing	2	126000	252000	Competitive Bidding)
18	Sensor Kit (all types)		3 D Printing	1 Set	20000	20000	Competitive Bidding)
19	Solar Insulation meter		Solar Technician	2	15000	30000	Competitive Bidding)
20	Pyranometer		Solar Technician	1	13500	13500	Competitive Bidding)
21	Pyrheliometer		Solar Technician	1	8300	8300	Competitive Bidding)
22	Lux meter	Lux meter LCD read out 0.05 to 7000 Lumens with battery.	Solar Technician	2	10000	20000	Competitive Bidding)
23	Magnetic Flux Meter	0-500 tesla	Solar Technician	2	18000	36000	Competitive Bidding)

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24	Weather monitoring station	To monitor and record Sunshine, wind velocity, temperature, rainfall etc with software	Solar Technician	1	25000	25000	Competitive Bidding)
25	Solar cell based sunlight radiation meter		Solar Technician	1	25000	25000	Competitive Bidding)
26	Cut models of photo voltaic cell assembl		Solar Technician	1	32500	32500	Competitive Bidding)
27	Sun path finder		Solar Technician	1	23920		Competitive Bidding)
28	Solar energy trainer with grouping of solar cells		Solar Technician	1	50000	50000	Competitive Bidding)
29	Solar tracker demonstrator kit		Solar Technician	1	225000	225000	Competitive Bidding)
30	Solar photovoltaic module	75 W mono crystalline module	Solar Technician	1	5000	5000	Competitive Bidding)
31		75 W amorphous silicon module	Solar Technician	1	6000	6000	Competitive Bidding)
32		250 W thin film module	Solar Technician	1	20000	20000	Competitive Bidding)
33		5W poly crystalline module	Solar Technician	1	1000	1000	Competitive Bidding)

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34		40W poly crystalline module	Solar Technician	1	4000	4000	Competitive Bidding)
35	Solar panels	250 Wp	Solar Technician	4	30000	120000	Competitive Bidding)
36	Solar Charge controller with Dusk to Dawn automatic switching	12V, 10A	Solar Technician	5	3000	15000	Competitive Bidding)
37	Solar charge controller with manual switch (Day lighting)	12V, 10A	Solar Technician	5	40000	200000	Competitive Bidding)
38	Array junction box	for connecting 250W x 4 Nos. solar panel with DC fuse, DC MCB, and surge suppressor protection	Solar Technician	2	15000	30000	Competitive Bidding)
39	Inverter with Battery	1 KVA with 12 V Battery Input-12 volt DC, Output-220 volt AC	Solar Technician	1	35000	35000	Competitive Bidding)
40	Solar PCU	Off grid 1 KW MPPT Sine wave Solar Power Conditioning Unit	Solar Technician	4	30000	120000	Competitive Bidding)
41	Solar, wind and hybrid power plant	1 KW cumulative	Solar Technician	1	150000	150000	Competitive Bidding)
42	Solar Traffic Light		Solar Technician	1	8000	8000	Competitive Bidding)

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20

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A. Items to be procured in Year-1

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43	Used water treatment solar plant demonstrator kit 1 litter		Solar Technician	1	30000	30000	Competitive Bidding)
44	Computer (PC)	latest configurations and Internet connection with standard operating system and standard word processor and worksheet software	Solar Technician	10	35000	350000	Competitive Bidding)
45	UPS -500VA		Solar Technician	10	3000	30000	Competitive Bidding)
46	LCD Projector		Solar Technician	1	80000	80000	Competitive Bidding)
	Total					7881300	

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A. Items to be procured in Year-2

Sl.No	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 (Shopping / Competitive Bidding)
1	Power Supply	0-30V DC, 3A	Machinist	1	20000	20000	Competitive Bidding)
2	Mounting Plate		Machinist	1 Set	40000	40000	Competitive Bidding)
3	Power Distribution Box	24V DC, 4A	Machinist				Competitive Bidding)
4	Counter Box	10-30V, DC/0.05A	Machinist				Competitive Bidding)
5	Indication Box	24V DC	Machinist				Competitive Bidding)
6	Material Box		Machinist				Competitive Bidding)
7	Inductive Sensor	10-30 V DC, PNP, NO, 5mm range	Machinist				Competitive Bidding)
8	Capacitive Sensor	10-30 V DC, PNP, NO, 2mm-8mm range	Machinist				Competitive Bidding)
9	Magnetic Sensor	10-60 V DC, PNP, NO, 60mm	Machinist				Competitive Bidding)
10	Ultrasonic Sensor	20-30 V DC, PNP, NO, 80-300 mm	Machinist				Competitive Bidding)
11	Connecting Wires		Machinist				Competitive Bidding)
12	Motor with Control Unit	24V DC, 1A	Machinist				Competitive Bidding)
13	Milling Cutter, Cylindrical Cutter	63 mm, 90 mm length and 20 mm bore diameter	Machinist	6 Nos	40000	40000	Competitive Bidding)
14	Milling Cutter, Cylindrical Cutter	80 mm, 90 mm length and 27 mm Bore Diameter	Machinist	6 Nos	40000	40000	Competitive Bidding)
15	Milling Cutter	Side and face cutter dia 100 x 10 x 27 mm	Machinist	4 No's	30000	30000	Competitive Bidding)
16	Milling Cutter	Side and face cutter dia 100 x 12 x 27 mm	Machinist	6 Nos	40000	40000	Competitive Bidding)
17	Milling Cutter	Side and face cutter dia 160 x 10 x 27 mm	Machinist	4 No's	30000	30000	Competitive Bidding)

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A. Items to be procured in Year-2

Sl.No	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 (Shopping / Competitive Bidding)
18	Milling Cutter	Side and face cutter dia 160 x 16 x 27 mm	Machinist	4 No's	30000	30000	Competitive Bidding)
19	Milling Cutter- Side and face cutter	dia 200x20x27 mm	Machinist	6 Nos	40000	40000	Competitive Bidding)
20	Plotter	Max Size	DMM	1 No	1000000	1000000	Competitive Bidding)
21	UPS	5 KVA	DMM	2 No's	200000	200000	Competitive Bidding)
22	Software	Ms Office, CAD, Solid work, Auto Desk, Catia & Pro-E, EROE latest Version - 16 user (with laicence)	DMM	1 set	1600000	1600000	Competitive Bidding)
23	Compressor unit	Suitable for pressure, 8 bar, Delivery 50 lpm, reservoir capacity 24 litres, 230 V, 50 Hz, with pressure regulator and water separator	Fitter	1 No	100000	100000	Competitive Bidding)
24	Pneumatic Trainer Kit, each consisting of the following machining components and with all accessories		Fitter	1 Set	100000	100000	Competitive Bidding)
25	Pneumatic workstation with 40 square mm aluminium profile legs, wooden work surface and one pedestal drawer unit having 5 drawers each with handles and individula locks on metallic full panel drawer slide	Work table size L 1200 mm XW 900mm XH 900 mm with four castor wheels including two lockable wheels at the front side, Drawer - Size L460 mm x W495 mm x 158 mm each and overall size of drawer unit - L470 mm x W495 mm x H825 mm	Fitter	1 No	150000	150000	Competitive Bidding)
26	Carrier for mounting components such as PB & relay boxes		Fitter	1 No	20000	20000	Competitive Bidding)

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17

A. Items to be procured in Year-2							
Sl.No	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 (Shopping / Competitive Bidding)
27	Cut section model for pneumatic components		Fitter	1 Set	20000	20000	Competitive Bidding)
28	Advance MIG welding Machine & Assesories		Welder	1 Nos	800000	800000	Competitive Bidding)
29	Flux cored are welding machine & Assesories		Welder	1 Nos	500000	500000	Competitive Bidding)
30	Sonal panel with battery		Electrician	2 set	100000	100000	Competitive Bidding)
31	Function Generator (Digital)	2 to 200 KHZ, 220 V, 50 HZ	Electrician	2 Nos	120000	120000	Competitive Bidding)
	Total				5020000	5020000	

A. Items to be procured in Year-3							
Sl.No	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 (Shopping / Competitive Bidding)
1	Ceeling fan winding machine		Electrician	2 No's	60000	60000	Competitive Bidding)
2	Inkjet / Laser Printer		Electrician	2 Nos	50000	50000	Competitive Bidding)
3	Primary current injection set	220V, 50Hz, 0-200 Amp	Electrician	2 Nos	100000	100000	Competitive Bidding)
4	Furniture		All Trade		500000	500000	Competitive Bidding)
5	Phase Sequence indicator	3 phase, 415 volt	Electrician	4 No's	70000	70000	Competitive Bidding)
6	Magnetic flux meter	0-500 resla	Electrician	4 No's	30000	30000	Competitive Bidding)
7	Ohm meter series type 7 shunt type portable box type	50/200 ohm analog	Electrician	4 Nos	20000	20000	Competitive Bidding)

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16

A. Items to be procured in Year-3							
Sl.No	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 (Shopping / Competitive Bidding)
8	Seam welding machine 7 Assesories		Welder	1 Nos	300000	300000	Competitive Bidding)
9	Impact test machine		Welder	1 Nos	95000	95000	Competitive Bidding)
10	Advance Rebot welding machine		Welder	3 No's	500000	500000	Competitive Bidding)
11	Simulator welding machines & Asserosiers for SMAW/GTAW/GMAW		Welder	3 No's	2400000	2400000	Competitive Bidding)
12	Dye penetrant test machines kit		Welder	3 No's	120000	120000	Competitive Bidding)
13.	Magnetic particle test machines kit		Welder	3 No's	180000	180000	Competitive Bidding)
14	Nick break test machine		Welder	3 No's	180000	180000	Competitive Bidding)
15	Hydraulic Trainer Kit Matching Components and with all Accessories		Fitter	1 Set	100000	100000	Competitive Bidding)
16	Hydraulic workstation with 40 square mm aluminium profile legs, wooden work surface and one pedestal drawer unit having 5 drawers each with handles and individula locks on metallic full panel drawer slide	Work table size L 1200 mm XW 900mm XH 900 mm with four castor wheels including two lockable wheels at the front side, Drawer - Size L460 mm x W495 mm x 158 mm each and overall size of drawer unit - L470 mm x W495 mm x H825 mm	Fitter	1 No	100000	100000	Competitive Bidding)
17	Lapping Plate	Dia 6"	Fitter	2 each	30000	30000	Competitive Bidding)
18	Bearing extractor	universal gear puller 2 or 3 jaws	Fitter	1 No	10000	10000	Competitive Bidding)
19	Universal Machine Vice	100 mm	Machinist	2 No's	30000	30000	Competitive Bidding)
20	Universal Table angle Plate	150x150x150 mm	Machinist	2 No's	30000	30000	Competitive Bidding)

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15 ✓

A. Items to be procured in Year-3							
SLNo	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 (Shopping / Competitive Bidding)
21	Assorted tools and bit holders for lathe, shaper, slotter & planner in different shapes and sizes		Machinist	4 Nos	40000	40000	Competitive Bidding)
22	angle plate adjustable	250 x 150 x 175 mm	Machinist	4 No's	40000	40000	Competitive Bidding)
23	Solid parallels in pairs (different sizes in metric)		Machinist	12 Pair	15000	15000	Competitive Bidding)
	Total				5000000	5000000	

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