

**PROCUREMENT PLAN OF GOVT. ITI BALASORE( UNDER STRIVE PROJECT ) FOR THE YEAR -2020-2021, MRAC**

SI No	Name of the Item	Specification	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	File flat rough double cut	200mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
2	File, half round, fine double cut,	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
3	File, round, fine double cut	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
4	File flat, fine double cut,	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
5	File square, fine double cut,	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
6	File triangular fine double cut	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
7	Scriber	150mm length	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
8	Centre punch	length 100mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
9	Try square	150 mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
10	Divider spring joint	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
11	Caliper spring joint in side	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
12	Caliper, odd leg, spring joint	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
13	Hammer ball pane	220 gms	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
14	Cold Chisel flat and cross cut	length 150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
15	Engineers rule	300mm long	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
16	Tape measuring	10m graduation in mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
17	Pliers combination insulated	length 200mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
18	Pliers long nose	200 mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
19	Pliers flat nose	150mm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
20	Line tester	500 v heavy duty	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
21	Tweezers	10 cm	MRAC	72 nos.		Less than 1 lakh	GeM/Shopping
22	Surface plate	45 x45 cms	MRAC	1no.		Less than 1 lakh	GeM/Shopping
23	Oil can	500 ml	MRAC	5 nos.		Less than 1 lakh	GeM/Shopping

24	Surface Gauge universal	150 mm	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
25	Bench vice	150 to 300mm jaw	MRAC	10 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
26	Hack saw tubular metal frame adjustable	300mm	MRAC	10 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
27	Snip sheet metal straight nose	200 mm	MRAC	10 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
28	Snip sheet metal curved nose	200 mm	MRAC	10 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
29	Anvil	100X200mm	MRAC	1no.		Less than 1 lakh	<b>GeM/Shopping</b>
30	Stakes [ different Types]	100mm	MRAC	1 no. each		Less than 1 lakh	<b>GeM/Shopping</b>
31	Tin smith	400mm	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
32	Wooden mallet /Nylon mallet	500 gm good finish	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
33	Round Punch	3mm,4mm,6mm	MRAC	5 Nos. each		Less than 1 lakh	<b>GeM/Shopping</b>
34	Electrical drill portable drill with chuck and key	capacity 6.4mm	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
35	Screw driver, plastic handle,	6mm TIP length 100mm to 150mm	MRAC	6nos.		Less than 1 lakh	<b>GeM/Shopping</b>
36	Screw driver, plastic handle, Flat tip	10mm TIP length 200mm & 250mm	MRAC	6 nos. each		Less than 1 lakh	<b>GeM/Shopping</b>
37	Philips screw driver -	complete set in leather case	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
38	Screw driver, plastic handle, Flat tip	handle 3mm TIP length 100mm to 150mm insulated	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
39	Soldering iron exchangeable copper tip	65 watts	MRAC	10 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
40	Knife folded stainless steel -	150mm	MRAC	10 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
41	Tong tester (clamp on multi meter)	0-10-30 amps 0-500 v	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
42	Tenon saw	250 mm	MRAC	5nos.		Less than 1 lakh	<b>GeM/Shopping</b>

43	Firmer chisel	6, 12, 25mm	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
44	Rawal plug tool	6 mm	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
45	Fire extinguisher	ABC dry powder type 2 kg capacity	MRAC	2 no.		Less than 1 lakh	<b>GeM/Shopping</b>
46	Fire buckets	10 Litre	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
47	D.E spanner	6-32 mm	MRAC	5 set		Less than 1 lakh	<b>GeM/Shopping</b>
48	Ring spanner	6 -32 mm	MRAC	5 set		Less than 1 lakh	<b>GeM/Shopping</b>
49	Quick couples, process tube adopter	¼" & 3/8"	MRAC	4 nos. each		Less than 1 lakh	<b>GeM/Shopping</b>
50	Tong Close mouth and pick		MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
51	Welding table for gas/Arc	1200x760	MRAC	1no. each		<b>More than 1 lakh</b>	<b>GeM/Shopping</b>
52	Flaring tool set, single type for tube.	4.7mm to 16mm O.D	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
53	Swaging tool, punch type, set of size for tube.	4.7mm to 16mm O.D	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
54	Bending spring external type, for copper tube	3mm to 16mm DIA	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
55	Pipe cutter miniature for copper tube	3mm to 16mm DIA	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
56	Pinch of tool, for copper tube,	6mm to 18mm DIA	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
57	Ratchet spanner	6.4 sq.mm reversible	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>

58	Capillary plug gauge		MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
59	Piercing pliers & reversing valve with access fitting	6-18mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
60	Spanner double ended	4.7mm to 16mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
61	Ring spanner off set	4.7mm to 16mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
62	Wrench adjustable	length 150mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
63	Wrench adjustable	length 200mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
64	Wrench adjustable	length 250mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
65	Valve key handle[Treated as consumable]	4.7mm & 6.4mm sq.	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
66	(Hollo) Punch hole for cutting gasket	4.7-16mm die	MRAC	2 sets		Less than 1 lakh	<b>GeM/Shopping</b>
67	Scissor, gasket cutting stainless steel	length 25mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
68	L-Allen key	set size 1.5mm to 6.4mm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
69	T-Allen key set	size 5/32" to 1/8"	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
70	Pipe cutter with built in reamer and space cutter, for copper tube	3mm to 32mm	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
71	Pipe /Tube bender lever type	3-16 mm	MRAC	1 no each		Less than 1 lakh	<b>GeM/Shopping</b>
72	Spanner double ended	19mm to 31.8 mm	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>

73	Pipe wrench	size 50mm to 150mm	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
74	Lapping plate	250mm x 200mm	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
75	Hammer ball peen	450 gms	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
76	Puller 3 legged with flexible arm	300mm	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
77	Hand blower portable complete	1/10 HP	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
78	Spirit level precision metallic	200mm	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
79	Tap set with matching drills	3 mm to 16mm	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
80	Tap set with matching drills	V to 5/8"	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
81	Refrigerant cylinder	2.5 Kg	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
82	Heating kit with infrared bulb	(200 w capacity)	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
83	Plumbing hammer weight	200 gm	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
84	Cylinder 134 a	5 kg	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
85	Torque Wrench	300mm-12.7mm	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
86	Piercing Valve	¼ Inch	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
87	Feeler gauge	0.05mm to 1mm	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>

88	Four way reversible valve		MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
89	Vernier hight gauge	300mm ,LC 0.02	MRAC	1 set		Less than 1 lakh	<b>GeM/Shopping</b>
90	Tape measuring graduation in	2 m	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
91	Voltmeter, AC/DC portable precision grade Digital Panel board type	0 to 500 volt	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
92	Ammeter, AC/DC portable precision grade Digital Panel board type	0 to 30 amp	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
93	Megger	1000v	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
94	Wattmeter multi-range up	1 KW	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
95	Multi meter digital type		MRAC	5 nos. 4 no.		Less than 1 lakh	<b>GeM/Shopping</b>
96	K.W. meter	0 -1 K w	MRAC			Less than 1 lakh	<b>GeM/Shopping</b>
97	Service Oscillator		MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
98	C.R.O Single beam	5 MHZ	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
99	C.R.O Dual trace/ Double beam	60 MHZ	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
100	A.F.O Oscillators		MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
101	Pressure gauge Digital type	diameter 63mm with recalibration set	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
102	Compound gauge, Digital type	diameter 63mm, with recalibration set screw, scale vacuum 760mm. Pressure 15 Kg/sq.cm	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>

103	Service man thermometer in	- 30 <sup>0</sup> C to +110 <sup>0</sup> C	MRAC	5 sets		Less than 1 lakh	<b>GeM/Shopping</b>
104	Gas leak detector for halogen gas		MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
105	Electronic leak detector		MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
106	Sling psychro meter mounted on aluminum back,	scale -10 <sup>0</sup> C to +110 <sup>0</sup> C	MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
107	Stop watch		MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
108	Vernier caliper	length 250mm	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
109	Micrometer outside measurement	0 to 25mm	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
110	Multi meter analogue type		MRAC	5 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
111	Tachometer digital, multi range	0 r m p to 3000 r m p. Portable small size in leather case	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
112	Micron vacuum gauge	capable of reading up to 20 microns	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
113	Sensor thermometer (digital)	0	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
114	Fin straightened/fin comb.	With strong steel wire based combing on wood	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
115	Filler gauge	0.05 mm - 1 mm	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
116	Wire gauge metric & British.	Steel plate embossing converse of British & Metric	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
117	Dial thermometer remote control, armored capillary dial	75mm - 50C to +50 C	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>

118	Anemometer	Digital type	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
119	Compressors testers for small hermetic compressors	Fixed with electrical input/ output indicating facilities	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
120	Digital thermometer	Graduated disc analogy type	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
121	Temperature & Humidity recorder	Capacity to record 24 hrs record	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
122	Inst rumentation screw driver set	100 mm	MRAC	25nos.		Less than 1 lakh	<b>GeM/Shopping</b>
123	Digi tal weighing machine	100 kg	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
124	Split phase induction motor	1hp, 230 V	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
125	BLDC motor with controller	15 – 30 watts,315 Volt DC	MRAC	2 nos.		<b>More than 1 lakh</b>	<b>GeM/Shopping</b>
126	IDU Pulse Generation type motor	15watt,230volt A.C 1 Hp, 230 V	MRAC	2 nos. 1 no.		<b>More than 1 lakh</b>	<b>GeM/Shopping</b>
127	Capacitor start induction motor	1 Hp, 230 V	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
128	AC 3 Phase motor, 400/50 Hz	2 Hp	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
129	Star delta starter	2 hp	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
130	Auto Transformer starter	3 hp	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
131	D.O.L Starter	2 hp	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
132	Portable air - LPG brazing kit	2 kg. LPG cylinder, torches, houses, stand make	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>




133	Oxy-acetylene welding set complete	cylinders, regulators welding torches with difference nozzles	MRAC	1 no.		More than 1 lakh	GeM/NCB
134	Single door direct cool refrigerator, carrying with HFC	185 L	MRAC	1 each		More than 1 lakh	GeM/NCB
135	Frost free refrigerator	200L carrying with HC blend	MRAC	2 nos.		More than 1 lakh	GeM/NCB
136	Three/four door refrigerator (Inverter type)	300L carrying with HC R-600a	MRAC	2 nos.		More than 1 lakh	GeM/NCB
137	Core drill machine.		MRAC	1 no		Less than 1 lakh	GeM/Shopping
138	Bench Drilling machine	20 mm capacity,200-2500rpm	MRAC	1 no.		Less than 1 lakh	GeM/Shopping
139	Grinding Machine	200mm,3000rpm,Double ended1/2	MRAC	1 no.		Less than 1 lakh	GeM/Shopping
140	Evacuating and refrigerant harging station, consist of a) Rotary two stage vacuum pump and motor (with gas ballast and anti such back) b) manifold with gauges and valves and capable of pulling vacuum up to 50 microns of Hg and with provision of connecting to a microns level vacuum gauge b)Graduated charging cylinder with provision for temperature correction and all necessary isolating valves	(CAP. 2 kg. In lieu of (b) above and with accuracy of + / - g for charging hydrocarbons)	MRAC	1 no.		Less than 1 lakh	GeM/Shopping
141	Evacuating and charging station as above but fitted with weighing scale		MRAC			Less than 1 lakh	GeM/Shopping
142	Two stage rotary vacuum pump,3or 4 CFM.	capacity approx. 60 - 10rpm capable of evacuating to 50 microns of Hg and fitted with gas ballast, anti such back valve and single phase motor.	MRAC	1 no.		Less than 1 lakh	GeM/Shopping

143	Dry N2 cylinder	2 stage regulator or commercial N2 in cylinder with drier unit and 2 stage regulator & meter cube	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
144	Window A.C	1 Ton with R-22 Blend reciprocating compressor	MRAC	2 nos		<b>More than 1 lakh</b>	GeM/NCB
145	Split A.C	1.5 Ton with R134a or R-22 reciprocating compressor	MRAC	2 nos		<b>More than 1 lakh</b>	GeM/NCB
146	Duct able split A.C 1.5 ton	1.5 Ton with R134a or R-22 reciprocating compressor	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
147	Recovery unit with cylinders	CFC, HFC & HCFC	MRAC	1 each		<b>More than 1 lakh</b>	GeM/NCB
148	Decibel meter	30-100 db	MRAC	1 no.		Less than 1 lakh	<b>Shopping</b>
149	Cassette Air conditioner	4500 kcal/hr	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
150	Descaling pump set	with stainless steel impeller and housing complete with motor 1/2 hp and accessories	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
151	Fan coil unit	with water valves (2 & 3 way)	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
152	Shell and tube, DX chillers (small)	5 Ton with Cu tubing only	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
153	Circulating water pump (small)	0.5 H.P with stainless steel tank capacity 20 liters within let/ outlet provision.	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
154	Refrigerant Cylinder	10 kg capacity	MRAC	2 nos		Less than 1 lakh	<b>GeM/Shopping</b>
155	Gauge manifold with gauges	Different size of hoses for R 134a,R22 and R 410.	MRAC	3 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
156	Shell and tube type condenser	5 Ton	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>

157	Rota ry hermetic compressor	2 Ton	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
158	Bottle cooler visible	200 L carrying with HFC-134a& reciprocating compressor	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
159	Deep freezer	200 L carrying with HFC-134a& reciprocating compressor	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
160	Disp lay Cabinet	2 ton capacity	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
161	Wat er cooler storage type	200 L carrying with HFC-134a& reciprocating compressor	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
162	Water dispenser bubble type (Hot and Cold)	2.5 to 3ltr. Delivery capacity per hour	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
163	Ice candy plant	2 ton with capacity to make 32 ice candy at a time with Forma tray, stainless steel tank on trolley	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
164	Air-conditioning, direct system.	Complete with all controls including humidity control	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
165	Air-conditioning, indirect system. (water cooled )	Complete with all controls including humidity control	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
166	Package A/C	5 ton capacity, Air cooled type with open type compressor reciprocating type	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
167	Car A.C components(full kit) a) Wobble plate compressor with mounting brackets. b) Serpentine Evaporator c) Parallel Flow Condenser d) Hoses, tubes, Receiver, Ex. valve. e) Electrical components & wiring Harness		MRAC	1 Set		<b>More than 1 lakh</b>	GeM/NCB
168	CAR AC tutorial model		MRAC	1 set		<b>More than 1 lakh</b>	GeM/NCB
169	Bus AC tutorial model		MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB
170	Automatic ice cube m/c	50 kg/hour	MRAC	1 no.		<b>More than 1 lakh</b>	GeM/NCB

171	Storage type water cooler( hot and cold)		MRAC	1 no.		More than 1 lakh	GeM/NCB
172	Visi cooler	185 L	MRAC	1 no.		More than 1 lakh	GeM/NCB
173	VRF/VRV unit with two indoor units 2.5TR each and 5TR capacity out door unit complete with air cooled condenser		MRAC	1 no.		More than 1 lakh	GeM/NCB
174	Split A/C ( inverter technology)	1.5 TR	MRAC	2 nos.		More than 1 lakh	GeM/NCB
175	Walk in cooler PUF insulated for cold room 6X4.5X8 cft.	temperature 00-50 c	MRAC	1 complete set		More than 1 lakh	GeM/NCB
176	Absorption system	Small size	MRAC	1 no		More than 1 lakh	GeM/NCB
177	Class room table	One table for each trainee size or 2.5 provisions with open rack. Frame square conduit of1".top sun mica ply board	MRAC	20 nos.		Less than 1 lakh	GeM/Shopping
178	Work bench	2000 x1000 x 700 mm with 2" pipe frame. Top with teak slab and fixing with3/4" good quality rubber sheet.	MRAC	6 nos.		Less than 1 lakh	GeM/Shopping
179	Almirah	195 x90 x 48 cm outer sheet 20 SWG inner partition with four selves of 22Swg	MRAC	4 nos.		Less than 1 lakh	GeM/Shopping
180	Lockers	195 x 90 x 48 set six locker in one structure	MRAC	2 nos.		Less than 1 lakh	GeM/Shopping
181	Glass board portable	2.5'X4' with stand	MRAC	2 nos.		Less than 1 lakh	GeM/Shopping
182	Instructor table	4'X2'X2.5' with steel tubular frame & sun mica top	MRAC	1 no.		Less than 1 lakh	GeM/Shopping
183	Instructor chair	Standard revolving with wheel	MRAC	1 no.		Less than 1 lakh	GeM/Shopping
184	Computer table	Standard with drawers & self to accommodate UPS & CPU	MRAC	1 no.		Less than 1 lakh	GeM/Shopping
185	Computer chair	Revolving type metal based & metal wheel standard one	MRAC	1 no.		Less than 1 lakh	GeM/Shopping

186	White board	4'X3' ferrous base sheet to hold magnetic duster with white finish surface.	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
187	Chart stand	6'X3' providing with hanging clip top & bottom plate	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
188	Computer with printer and scanner	Latest configuration	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
189	LCD PROJECTOR / LED / LCD TV	Big Size	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
190	Laptop	Latest version	MRAC	1 no.		Less than 1 lakh	<b>GeM/Shopping</b>
191	UPS	2 KVA	MRAC	1 sets		Less than 1 lakh	<b>GeM/Shopping</b>
192	Copier machine.		MRAC	1 no		Less than 1 lakh	<b>GeM/Shopping</b>
193	Interactive Board	Latest version	MRAC	1 no		Less than 1 lakh	<b>GeM/Shopping</b>
194	Stool	2' x 1.5'	MRAC	20 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
195	Book Self with glass panel	6' x 3'	MRAC	1 No.		Less than 1 lakh	<b>GeM/Shopping</b>
196	Storage rack	6' x 3'	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>
197	Storage shelf	6' x 3'	MRAC	2 nos.		Less than 1 lakh	<b>GeM/Shopping</b>

  
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**PROCUREMENT PLAN OF GOVT. ITI BALASORE( UNDER STRIVE PROJECT ) FOR THE YEAR -2020-2021, COPA**

Sl No	Name of the Item	Specification	Trade/Course for which it is required	Total Required	Rate/Unit ( in INR Lakh)	Total (in INR Lakh)	Method of Procurment ( e.g Shopping/Competitive Bidding)
1	Desktop Computer	CPU: 32/64 Bit i3/i5/i7 or latest processor, Speed: 3 GHz or Higher. RAM:-4 GB DDR-III or Higher, Wi-Fi Enabled. Network Card: Integrated Gigabit Ethernet, with USB Mouse, USB Keyboard and Monitor (Min. 17 Inch. Licensed Operating System and Antivirus compatible with trade related software.	COPA	24 Nos.		More than 1 lakh	GeM/NCB
2	Laptop	4 th Gen Ci5 or higher Processor, 4GB RAM, 1TB Hard Disk, Win8/latest Preloaded Licensed OS, 2GB Graphics Card, DVD Writer, Standard Ports And Connectors.	COPA	01 No.		Less than 1 lakh	GeM/Shopping
3	Wi-Fi Router	With Wireless Connectivity	COPA	01 No.		Less than 1 lakh	GeM/Shopping
4	Switch	24 Port	COPA	01 No.		Less than 1 lakh	GeM/Shopping
5	Structured cabling in Lab	to enable working with Wired Networks for Practical	COPA	As required		Less than 1 lakh	GeM/Shopping
6	Internet Connectivity	Broadband connection with min. 2 mbps speed	COPA	As required		Less than 1 lakh	GeM/Shopping
7	Registered Domain	at least 100 MB Web Space	COPA	As required		Less than 1 lakh	GeM/Shopping
8	Laser Printer	Colour A4 Size	COPA	01 No.		Less than 1 lakh	GeM/Shopping
9	Network Laser Printer	Monochrome A4 Size	COPA	01 No.		Less than 1 lakh	GeM/Shopping
10	Optical Scanner	Flatbed A4	COPA	01 No.		Less than 1 lakh	GeM/Shopping
11	Digital Web Cam	High Resolution(3.1 mp or higher)	COPA	04 Nos.		Less than 1 lakh	GeM/Shopping
12	DVD or Blu-Ray Writer	24X or higher external (usb)	COPA	02 Nos.		Less than 1 lakh	GeM/Shopping


13	LCD Projector	3000 lumens or higher	COPA	01 No.		Less than 1 lakh	GeM/Shopping
14	Projector Screen	matte(antiglare) screen	COPA	01 No.		Less than 1 lakh	GeM/Shopping
15	Online UPS		COPA	As required		Less than 1 lakh	GeM/Shopping
16	Crimping Tool	RJ-45	COPA	05 Nos.		Less than 1 lakh	GeM/Shopping
17	Network Rack	4U for 24 port	COPA	01 No.		Less than 1 lakh	GeM/Shopping
18	Digital Multimeters .	3.5 digit handheld type	COPA	04 Nos.		Less than 1 lakh	GeM/Shopping
19	Screw Driver Set	Standard	COPA	04 Sets		Less than 1 lakh	GeM/Shopping
20	Mini Dongle for Bluetooth devices Connection	USB	COPA	04 Nos.		Less than 1 lakh	GeM/Shopping
21	Headphone &mic. set	Wired	COPA	05 Nos.		Less than 1 lakh	GeM/Shopping
22	Sound System	2:01	COPA	01 No.		Less than 1 lakh	GeM/Shopping
23	External Hard Disk	1 TB	COPA	02 Nos.		Less than 1 lakh	GeM/Shopping
24	Patch Panel	24 Port	COPA	02 Nos.		Less than 1 lakh	GeM/Shopping
25	LAN Tester	UTP cat5 cable tester (RJ 45)	COPA	05 Nos.		Less than 1 lakh	GeM/Shopping
26	Punching Tool	for punching RJ 45 socket with cat 5 cable	COPA	05 Nos.		Less than 1 lakh	GeM/Shopping
27	MS Office	2010 (professional) or the latest version available at the time of procurement	COPA	25 Licenses		Less than 1 lakh	GeM/Shopping
28	Antivirus for – clients / workstations in profile	validity of an year or more which should be renewed upon expiry	COPA	25 Licenses		Less than 1 lakh	GeM/Shopping
29	Open Office or equivalent	Latest version	COPA	Open source software		Less than 1 lakh	GeM/Shopping
30	GIMP / IrfanView Image editor or equivalent	Latest version	COPA	Open source software		Less than 1 lakh	GeM/Shopping
31	LINUX OS	Latest version	COPA	Open source software		Less than 1 lakh	GeM/Shopping

32	Web Authoring tool	WYSIWYG Web Authoring tool Dreamweaver or Open Source tools like Kompozer, FrontPage or similar tools along with FTP tools for ex. Filezilla etc.	COPA	Proprietary /Open source software		Less than 1 lakh	GeM/Shopping
33	Tally	ERP 9 or Latest	COPA	13 Licenses		Less than 1 lakh	GeM/Shopping
34	E Commerce Simulation Software	Latest version	COPA	Open source software		Less than 1 lakh	GeM/Shopping
35	Web Server	HTTP Web server / XAMPP or any other similar server	COPA	Open source software		Less than 1 lakh	GeM/Shopping
36	Vacuum cleaner	Hand Held	COPA	01 No.		Less than 1 lakh	GeM/Shopping
37	Pigeon hole cabinet	20 compartments	COPA	01 No.		Less than 1 lakh	GeM/Shopping
38	Chair and table for the instructor	with armrest mounted on castor wheels, adjustable height/Standard	COPA	02 Nos. (for class room & laboratory)		Less than 1 lakh	GeM/Shopping
39	Dual Desk or Chair and Tables for Trainees	Standard	COPA	12 / 24 Nos.		Less than 1 lakh	GeM/Shopping
40	Computer table	laminated top 150X650X750 mm with sliding tray for key board and one shelf of storage	COPA	12 Nos.		Less than 1 lakh	GeM/Shopping
41	Operators chair	without arms mounted on castor wheels, adjustable height	COPA	24 Nos.		Less than 1 lakh	GeM/Shopping
42	Printer table	650X500X750 mm can be varied as per local	COPA	03 Nos.		Less than 1 lakh	GeM/Shopping
43	Air conditioner		COPA	As required		Less than 1 lakh	GeM/Shopping
44	Storage cabinet	60X700X450mm	COPA	01 No.		Less than 1 lakh	GeM/Shopping
45	White Board	minimum 4X6 feet	COPA	01 No.		Less than 1 lakh	GeM/Shopping
46	Steel Almirah	2.5 m x 1.20 m x 0.5 m	COPA	01 No.		Less than 1 lakh	GeM/Shopping
47	Fire Extinguisher CO2	2 KG	COPA	02 Nos.		Less than 1 lakh	GeM/Shopping
48	Fire Buckets	Standard size	COPA	02 Nos.		Less than 1 lakh	GeM/Shopping



49	White Board Marker	Assorted colour	COPA	As required		Less than 1 lakh	GeM/Shopping
50	Duster Cloth	2'2'	COPA	As required		Less than 1 lakh	GeM/Shopping
51	Cleaning Liquid	500 ml	COPA	As required		Less than 1 lakh	GeM/Shopping
52	Photo Copy Paper	A4	COPA	As required		Less than 1 lakh	GeM/Shopping
53	Full Scape Paper	White	COPA	02 reams		Less than 1 lakh	GeM/Shopping
54	Cartridges for printer	Colour/monochrome as per model of the printer	COPA	As required		Less than 1 lakh	GeM/Shopping
55	I/O Box with socket	RJ 45	COPA	As required		Less than 1 lakh	GeM/Shopping
56	RJ 45 connector	For connecting utp cat 5 cable	COPA	200 Pcs.		Less than 1 lakh	GeM/Shopping
57	Optical Mouse	USB/PS2	COPA	As required		Less than 1 lakh	GeM/Shopping
58	Key Board	USB/PS2	COPA	As required		Less than 1 lakh	GeM/Shopping
59	SMPS	12V DC	COPA	As required		Less than 1 lakh	GeM/Shopping
60	CMOS Batteries	3.0 V	COPA	As required		Less than 1 lakh	GeM/Shopping
61	Power Chord	3 Pin	COPA	As required		Less than 1 lakh	GeM/Shopping
62	Cable	Cat 5/5e	COPA	100 meter		Less than 1 lakh	GeM/Shopping
63	Stapler	Small	COPA	02 pcs.		Less than 1 lakh	GeM/Shopping
64	Stapler	Big	COPA	01 pc.		Less than 1 lakh	GeM/Shopping
65	Battery for remote	AAA	COPA	As required		Less than 1 lakh	GeM/Shopping
66	Battery for clock	AA	COPA	As required		Less than 1 lakh	GeM/Shopping

67	Pen drive	8 GB	COPA	02 Nos.		Less than 1 lakh	GeM/Shopping
68	CDs	52x or higher	COPA	50 Nos.		Less than 1 lakh	GeM/Shopping
69	DVDs	4.7GB or higher	COPA	50 Nos.		Less than 1 lakh	GeM/Shopping
70	Wall Clock	Analog	COPA	01 pc.		Less than 1 lakh	GeM/Shopping
71	Battery for LAN tester	9 V	COPA	As required		Less than 1 lakh	GeM/Shopping
72	Power Adapter	For Hub, Switch, Router	COPA	As required		Less than 1 lakh	GeM/Shopping

  
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**PROCUREMENT PLAN OF GOVT. ITI BALASORE( UNDER STRIVE PROJECT ) FOR THE YEAR -2020-2021,ICTSM**

SI No	Name of the Item	Specification	Trade/Course for which it is required	Total Required	Rate/Unit ( in INR Lakh)	Total (in INR Lakh)	Method of Procurment ( e.g Shopping/Competitive Bidding)
1	Connecting screwdriver	100 mm	ICTSM	27 Nos.		Less than 1 lakh	GeM/ Shopping
2	Neon tester	500 V	ICTSM	*27 Nos.		Less than 1 lakh	GeM/Shopping
3	Screw driver set	set of 5	ICTSM	*50Nos.		Less than 1 lakh	GeM/Shopping
4	Insulated combination pliers	150 mm	ICTSM	*27 Nos.		Less than 1 lakh	GeM/Shopping
5	Insulated side cutting pliers	150 mm	ICTSM	*27 Nos.		Less than 1 lakh	GeM/Shopping
6	Long nose pliers	150 mm	ICTSM	*50 Nos.		Less than 1 lakh	GeM/Shopping
7	Soldering iron	25 W. 240 V	ICTSM	*25 Nos.		Less than 1 lakh	GeM/Shopping
8	Electrician knife		ICTSM	*27 Nos.		Less than 1 lakh	GeM/Shopping
9	Tweezers	100 mm	ICTSM	*42 Nos.		Less than 1 lakh	GeM/Shopping
10	Digital Multimeter		ICTSM	30Nos.		Less than 1 lakh	GeM/Shopping
11	Soldering Iron Changeable bits	15 W	ICTSM	*25 Nos.		Less than 1 lakh	GeM/Shopping
12	De- soldering pump		ICTSM	*25 Nos.		Less than 1 lakh	GeM/Shopping
13	Crimping tool (pliers)		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
14	Soldering Iron	25 W	ICTSM	6 Nos.		Less than 1 lakh	GeM/Shopping
15	Magneto spanner set		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping

16	Screw driver	150 mm	ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
17	Steel rule	150 mm	ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
18	Scriber straight	150 mm	ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
19	Soldering Iron	240 W	ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
20	Allen key set	set of 9	ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
21	Tubular box spanner	set of 6	ICTSM	2 No.		Less than 1 lakh	GeM/Shopping
22	Magnifying lenses	75 mm	ICTSM	6 Nos.		Less than 1 lakh	GeM/Shopping
23	Continuity tester		ICTSM	12 Nos.		Less than 1 lakh	GeM/Shopping
24	Soldering iron	10 W	ICTSM	12Nos.		Less than 1 lakh	GeM/Shopping
25	Cold chisel	20 mm	ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
26	Scissors	200 mm	ICTSM	2 No.		Less than 1 lakh	GeM/Shopping
27	Handsaw	450 mm	ICTSM	2 No.		Less than 1 lakh	GeM/Shopping
28	Server Computer		ICTSM	01 No.		Less than 1 lakh	GeM/Shopping
29	Desktop Computer		ICTSM	*12 Nos.		More than 1 lakh	GeM
30	Laptop, Notebook		ICTSM	01 each		Less than 1 lakh	GeM/Shopping
31	Intel Mobile Desktop based PC with LCD monitor		ICTSM	01 No.		Less than 1 lakh	GeM/Shopping
32	Online UPS	5 KVA	ICTSM	02 Nos.		Less than 1 lakh	GeM/Shopping
33	LAN Cards, Wi-fi LAN Cards		ICTSM	06 Nos		Less than 1 lakh	GeM/Shopping

34	Power Meter		ICTSM	02 Nos.		Less than 1 lakh	GeM/Shopping
35	Crimping Tools		ICTSM	06 Nos		Less than 1 lakh	GeM/Shopping
36	Computer Toolkits		ICTSM	06 Nos		Less than 1 lakh	GeM/Shopping
37	Motherboards (of different make)		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
38	Cabinets		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
39	Processors (of different make)		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
40	Hard Disk different types		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
41	Optical Drives		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
42	LCD/ LED/ TFT Monitors		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
43	Pen Drives		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
44	External Hard disk		ICTSM	1 Nos.		Less than 1 lakh	GeM/Shopping
45	External DVD Writer		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
46	Keyboards		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
47	Mouse		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
48	Anti static pads		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
49	Anti static wrist wraps		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
50	SMPS		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
51	Digital Multimeters		ICTSM	*12 Nos.		Less than 1 lakh	GeM/Shopping


52	Blu-Ray drive and player		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
53	External Hard Disk		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
54	Digital Camera		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
55	HD Display		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
56	Network storage		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
57	Card Reader		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
58	Game video card		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
59	Web Cam		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
60	Surround sound speakers		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
61	Different types of memory cards		ICTSM	2 Nos. each		Less than 1 lakh	GeM/Shopping
62	Laptop kits		ICTSM	12 Nos.		Less than 1 lakh	GeM/Shopping
63	SMPS Trainer kit		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
64	UPS Trainer kit		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
65	Power electronics Trainer kit		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
66	Post error debugging card		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
67	SMPS Tester		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
68	PCI slot Testing tool		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
69	Windows Server Operating System		ICTSM	1 license		Less than 1 lakh	GeM/Shopping

70	Windows Operating System		ICTSM	2 licenses		Less than 1 lakh	GeM/Shopping
71	Linux Operating System		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
72	Network Management Software		ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
73	MS Office		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
74	Anti-virus software		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
75	Data recovery software		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
76	LINUX Server Operating System (Samba / Suse)		ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
77	Open source Pc Utility / Tweak Software		ICTSM	1 no		Less than 1 lakh	GeM/Shopping
78	Computer Tables		ICTSM	*12 Nos.		Less than 1 lakh	GeM/Shopping
79	Computer Chairs		ICTSM	*24 Nos.		Less than 1 lakh	GeM/Shopping
80	Printer Table		ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
81	Class Room Chairs		ICTSM	*24 Nos.		Less than 1 lakh	GeM/Shopping
82	Air Conditioners		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
83	Scanner		ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
84	Modem		ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
85	Telephone Line		ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
86	Broadband Internet Connection		ICTSM	1 No.		Less than 1 lakh	GeM/Shopping
87	Fire Fighting Equipments		ICTSM	As required		Less than 1 lakh	GeM/Shopping

88	Hardware and Network Trainer Kit		ICTSM	6 Nos.		Less than 1 lakh	GeM/Shopping
89	Wireless Network Adapter		ICTSM	6 Nos.		Less than 1 lakh	GeM/Shopping
90	Wireless Access Point		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
91	Router		ICTSM	4 Nos.		Less than 1 lakh	GeM/Shopping
92	Managed Layer 2 Ethernet Switch	8/16/24 port	ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
93	Managed Layer 3 Ethernet Switch	8/16/24 port	ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
94	Network Training System		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
95	LAN Protocol Simulation and Analyser		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
96	Network and Internet security trainer		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
97	LAN cable tester		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
98	Network cables – UTP		ICTSM	As required		Less than 1 lakh	GeM/Shopping
99	Network Cables – coaxial, flat, ribbon		ICTSM	As required		Less than 1 lakh	GeM/Shopping
100	LAN Cards, wi-fi LAN Card		ICTSM	05 Nos.		Less than 1 lakh	GeM/Shopping
101	Connectors for cables		ICTSM	As required		Less than 1 lakh	GeM/Shopping
102	Power Meter		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
103	Media Convertor		ICTSM	4 each		Less than 1 lakh	GeM/Shopping
104	UTP jack panel	8/16/2024	ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
105	SC Couplers		ICTSM	12 Nos.		Less than 1 lakh	GeM/Shopping



106	SC Pigtails		ICTSM	12 Nos.		Less than 1 lakh	GeM/Shopping
107	RJ-45 connector		ICTSM	As required		Less than 1 lakh	GeM/Shopping
108	Fluke Meter		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
109	Crimping Tools		ICTSM	6 Nos.		Less than 1 lakh	GeM/Shopping
110	Switch with POE ports		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
111	POE adapters		ICTSM	2 Nos.		Less than 1 lakh	GeM/Shopping
112	Network Camera (Outdoor/ Indoor)		ICTSM	2 No. each		Less than 1 lakh	GeM/Shopping

  
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**PROCUREMENT PLAN OF GOVT. ITI BALASORE( UNDER STRIVE PROJECT ) FOR THE YEAR -2020-2021, ETC MECH.**

SI No	Name of the Item	Specification	Trade/Course for which it is required	Total Required	Rate/Unit ( in INR Lakh)	Total (in INR Lakh)	Method of Procurment ( e.g Shopping/Competitive Bidding)
1	Connecting screwdriver	10 X 100 mm	ETC MECH	10 Nos.		Less than 1 lakh	GeM/Shopping
2	Neon tester 500 V.	500 V	ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
3	Screw driver set	Set of 7	ETC MECH	10 Nos.		Less than 1 lakh	GeM/Shopping
4	Insulated combination pliers	150 mm	ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
5	Insulated side cutting pliers	150mm	ETC MECH	8 Nos.		Less than 1 lakh	GeM/Shopping
6	Long nose pliers	150mm	ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
7	Soldering iron	25 Watt, 240 Volt	ETC MECH	10 Nos.		Less than 1 lakh	GeM/Shopping
8	Electrician knife	100 mm	ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
9	Tweezers	150 mm	ETC MECH	10 Nos.		Less than 1 lakh	GeM/Shopping
10	Digital Multimeter	(3 3/4 digit) ,4000 Counts	ETC MECH	10 Nos.		Less than 1 lakh	GeM/Shopping
11	Soldering Iron Changeable bits	15 Watt, 240 Volt	ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
12	De- soldering pump electrical heated, manual operators	230 V, 40 W	ETC MECH	10 Nos.		Less than 1 lakh	GeM/Shopping
13	Precision set of screw drivers	T5, T6, T7	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
14	Steel measuring tape	3 meter	ETC MECH	4 Nos.		Less than 1 lakh	GeM/Shopping
15	Crimping tool (pliers)	7 in 1	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping

16	Tubular box spanner	Set - 6 - 32 mm	ETC MECH	1 set.		Less than 1 lakh	GeM/Shopping
17	Magnifying lenses	75 mm	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
18	Continuity tester		ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
19	Scissors	200mm	ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
20	Hand Drill Machine Electric with Hammer Action	13 mm	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
21	Dual DC regulated power supply	30-0-30 V, 2 Amps	ETC MECH	1Nos.		Less than 1 lakh	GeM/Shopping
22	DC Regulated Variable Programmable DC Power Supply	0-30V/3A	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
23	LCR meter (Digital) Handheld		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
24	CRO Dual Trace	20 MHz (component testing facilities)	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
25	Signal Generator with Digital Display for Frequency Amplitude	10 Hz to 100 Khz, 50/600 Ohms (output impedance)	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
26	Battery Charger	0 - 6 - 9 - 12 - 24 - 48 V, 30 Amp	ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
27	Analog multimeter		ETC MECH	4 Nos.		Less than 1 lakh	GeM/Shopping
28	Clamp meter	0 - 10 A	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
29	Function generator ( DDS Technology (Sine, Square, Triangle, Ramp, Pulse, Serial Data, TTL and Modulation.)	1 mHz -10 MHz Function- Pulse – Modulation Generator with Built in 40MHz Frequency Counter	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
30	Dimmer starter	3 Amps	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
31	Autotransformer	15 Amps	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
32	Analog Component Trainer	Breadboard for Circuit design	ETC MECH	4 Nos.		Less than 1 lakh	GeM/Shopping


33	Op Amp trainer		ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
34	Digital IC Trainer	Breadboard for Circuit design with necessary DC Power Supply, Graphical LCD, Clock Frequency 4 different steps, Data Switches: 8 Nos, LED Display: 8 Nos. (TTL), Seven Segment Display, Teaching Simulation Software	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
35	Digital IC Tester		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
36	Digital and Analog Bread Board Trainer	DC/AC Power Supply, Sine/ Square/ TTL Generator Data Switches, LED indication, LED Display: 8 in Nos Simulation/Teaching Content through software	ETC MECH	6 Nos each		Less than 1 lakh	GeM/Shopping
37	Rheostats various values and ratings		ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
38	POWER ELECTRONICS TRAINER with at least 6 no's of application board MOSFET Characteristics SCR Characteristics SCR Lamp Flasher SCR Alarm Circuit Series Inverter Single Phase PWM Inverter		ETC MECH	4 No.		Less than 1 lakh	GeM/Shopping
39	Computers in the assembled form (including cabinet, motherboards, HDD, DVD, SMPS, Monitor, KB, Mouse, LAN card, Blu-Ray drive and player), MS Office education version.		ETC MECH	4 No.		Less than 1 lakh	GeM/Shopping
40	Laptops latest configuration		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping

41	Laser jet Printer		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
42	INTERNET BROADBAND CONNECTION		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
43	Electronic circuit simulation software with 6 user licenses	Circuit Design and Simulation Software with PCB Design with Gerber and G Code Generation, 3D View of PCB, Breadboard View, Fault Creation and Simulation.	ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
44	SMD Soldering & De soldering Station with necessary accessories		ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
45	DOL starter		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
46	AC Motor Trainer Kit ¼ HP motor Single Phase Contactors Relays MCB DOL Starter		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
47	Frequency modulator and Demodulator 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.	ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
48	AM/FM Commercial radio receivers		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
49	Seven segment DPM trainer		ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
50	LCD based DPM		ETC MECH	6 Nos.		Less than 1 lakh	GeM/Shopping
51	SMPS of different make		ETC MECH	4 Nos.		Less than 1 lakh	GeM/Shopping

52	UPS trainer	PWM switching technology, Test points to measures the voltages of different sections Overall functioning of UPS Trainer, AVR transformer, UPS with load condition	ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
53	UPS 3 KVA with backup time minimum 30 minutes		ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
54	Mobile phone Trainer	2G /3G/4G Dual SIM GSM Handset. Frequency measurement and band verification. Real time Mobile Operation	ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
55	Smart phones of different make (android/Windows)		ETC MECH	4 Nos.		Less than 1 lakh	GeM/Shopping
56	Cell phone power source with charger chords for different cell phones		ETC MECH	As required		Less than 1 lakh	GeM/Shopping
57	LCD TV (Trainer kit )	21-inch full HD LCD Color Television should support PAL/ NTSC video formats Complete block diagram of a LCD TV system, Study board indicating various sections of LCD TV along with the test points and switch faults	ETC MECH	1 No.		Less than 1 lakh	GeM/Shopping
58	LCD TV (21")		ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
59	LED TV (21")		ETC MECH	2 Nos.		Less than 1 lakh	GeM/Shopping
60	Home theatre system		ETC MECH	1No.		Less than 1 lakh	GeM/Shopping

61	Solar Training Kit/ Simulator	With built in meters for DCV, DCA, AC multifunction Meter (for ACI, ACV, Power, Frequency), Protection Circuits, BS-10 terminals for making the connection, Single/ Dual axis tracking system Charge Controller : PWM based MPPT, Charging Stage : Bulk, Absorptions and Float	ETC MECH	1No.		Less than 1 lakh	GeM/Shopping
62	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	ETC MECH	2 Set		Less than 1 lakh	GeM/Shopping
63	Computer (PC) with latest configurations and Internet connection with standard operating system and standard word processor and worksheet software		ETC MECH			Less than 1 lakh	GeM/Shopping
64	UPS - 500Va		ETC MECH	10 nos.		Less than 1 lakh	GeM/Shopping
65	Scanner cum Printer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
66	LCD Projector		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
67	White Board 1200mm x 900mm		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
68	Half Adder Full Adder Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
69	Clipper Clamper Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
70	Series and Parallel Resonance circuit		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
71	RTD Temp. Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
72	Crystal Oscillatore Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
73	LDR Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
74	FET Amplifier Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping

75	HW & FW Rectification Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
76	555 timer trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
77	SMPS Trainer		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
78	PIPO trainer kit		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
79	UJT Trainer Kit		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
80	Oscillator Trainer Kit		ETC MECH	1 no.		Less than 1 lakh	GeM/Shopping
81	Audio Generator		ETC MECH	2 nos.		Less than 1 lakh	GeM/Shopping
82	1 KVA UPS		ETC MECH	10 nos.		More than 1 lakh	GeM

  
 PRINCIPAL  
 INDUSTRIAL TRAINING INSTITUTE  
 BALASORE, ODISHA



## PROCUREMENT PLAN OF GOVT. ITI BALASORE( UNDER STRIVE PROJECT ) FOR THE YEAR -2021-2022,ELECTRICIAN

Sl No	Name of the Item	Specification	Trade/Course for which it is required	Total Required	Rate/Unit ( in INR Lakh)	Total (in INR Lakh)	Method of Procurment ( e.g Shopping/Competitive Bidding)
1	Measuring Steel Tape	5 meter	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
2	Combination Plier Insulated	200 mm	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
3	Screw Driver Insulated	4mm X 150 mm, Diamond Head	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
4	Screw Driver Insulated	6mm X 150 mm	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
5	Electrician screw driver thin stem insulated handle	4mm X 100 mm	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
6	Heavy Duty Screw Driver insulated	5mm X 200 mm	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
7	Electrician Screw Driver thin stem insulated handle	Electrician Screw Driver thin stem insulated handle	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
8	Punch Centre	9mm X 150 mm	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
9	Knife Double Bladed Electrician	100 mm	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
10	Neon Tester	500 V	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
11	Steel Rule Graduated both in Metric and English Unit	300 mm with precision of 1/4th mm	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
12	Hammer, cross peen with handle	250 grams	Electrician (2+2+2)	*126 Nos.		Less than 1 lakh	GeM/Shopping
13	Hammer, ball peen With handle	500 grams	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
14	Pincer	150 mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
15	C- Clamp	200 mm and 100 mm	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
16	Spanner Adjustable drop forged, SS	150 mm & 300mm	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
17	Blow lamp brass	0.5 ltr	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
18	Chisel Cold	25 mm X 200 mm	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
19	Chisel firmer with wooden Handle	6 mm X 200 mm	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
20	Allen Key alloy steel	1.5-10 mm (set of 9)	Electrician (2+2+2)	2 Set		Less than 1 lakh	GeM/Shopping
21	Grease Gun	0.5 ltr. Capacity	Electrician (2+2+2)	2 No		Less than 1 lakh	GeM/Shopping
22	Bradawl		Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
23	Pully Puller with 3 legs	150 mm & 300mm	Electrician (2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
24	Bearing Puller (inside and outside)	200 mm	Electrician (2+2+2)	4 No. each		Less than 1 lakh	GeM/Shopping
25	Pipe vice Cast Iron with hardened jaw open type	100 mm	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
26	Scissors blade, SS	200mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
27	Scissors blade, SS	150 mm	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
28	Crimping Tool	1.5 sq mm to 16 sq mm 16 sq mm to 95 sq mm	Electrician (2+2+2)	4 Nos. 4 Nos.		Less than 1 lakh	GeM/Shopping
29	Wire Cutter and Stripper	150 mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
30	Mallet hard wood	0.50 kg	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
31	Hammer Extractor type	250 grams	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
32	Hacksaw frame	Adjustable 300 mm Fixed 150 mm	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
33	Try Square	150 mm blade	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping

34	Outside Calliper	150 mm spring type	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
35	Inside Calliper	150 mm spring type	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
36	Divider	150 mm spring type	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
37	Pliers long nose insulated	150 mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
38	Pliers flat nose insulated	200 mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
39	Pliers round nose insulated	100 mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
40	Tweezers	150 mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
41	Snip Straight and Bent heavy duty	250 mm	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
42	D.E. metric Spanner Double Ended	6 - 32 mm	Electrician (2+2+2)	4 Set		Less than 1 lakh	GeM/Shopping
43	Drill hand brace	0-100mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
44	Drill S.S. Twist block	2 mm, 5 mm and 6 mm set of 3	Electrician (2+2+2)	8 Set		Less than 1 lakh	GeM/Shopping
45	Plane cutters	50 mm X 200mm	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
46	Smoothing cutters	50 mm X 200mm	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
47	Gauge, wire imperial stainless steel marked in SWG & mm	Wire Gauge - Metric	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
48	File flat	200 mm 2nd cut with handle	Electrician (2+2+2)	16 Nos.		Less than 1 lakh	GeM/Shopping
49	File half round	200 mm 2nd cut with handle	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
50	File round	200 mm 2nd cut with handle	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
51	File flat rough	150 mm with handle	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
52	File flat bastard	250 mm with handle	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
53	File flat smooth	250 mm with handle	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
54	File Rasp, half round	200 mm bastard with handle	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
55	Copper bit soldering iron.	0.25 kg	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
56	De soldering Gun	Heat proof nozzle, PVC type, 250mm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
57	Hand Vice	50 mm jaw	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
58	Table Vice	100 mm jaw	Electrician (2+2+2)	16 Nos.		Less than 1 lakh	GeM/Shopping
59	Oil Can	250 ml	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
60	Contactors & auxiliary contacts	3 phase, 415 Volt, 25 Amp with 2 NO and 2 NC	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
61	Contactors & auxiliary contacts	3 phase, 415 volt, 32 Amp with 2 NO and 2 NC	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
62	Limit Switch	Limit Switch, Liver operated 2A 500v, 2-contacts	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
63	Rotary Switch	16 A/440v	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
64	Relay- a. Cut out Relays b. Reverse current c. Over current d. Under voltage	a. 16A, 440V b. 16A, 440V c. 16A, 440V d. 360V-440V	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
65	Pin Type, shackle type, egg type & suspension type insulators including hardware fitting		Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
66	Hydrometer		Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping

67	Hand Drill Machine	0-6 mm capacity	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
68	Portable Electric Drill Machine	0-12 mm capacity 750w, 240v with chuck and key	Electrician (2+2+2)	2 Nos.		Less than 1 lakh	GeM/Shopping
69	Load Bank ( Lamp / heater Type)	6 KW, 3Ph	Electrician (2+2+2)	2 Nos.		Less than 1 lakh	GeM/Shopping
70	Brake Test arrangement with two spring balance rating	0 to 25 kg	Electrician (2+2+2)	2 Nos.		Less than 1 lakh	GeM/Shopping
71	Laboratory Type Induction Coil	1000 W	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
72	Out Side Micrometer	0 - 25 mm least count 0.01mm	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
73	Thermometer Digital	0° C - 150° C	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
74	Series Test Lamp	230V, 60W	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
75	Knife Switch DPDT fitted with fuse terminals	16 Amp	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
76	Knife Switch TPDT fitted with fuse terminals	16 Amp/ 440 V	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
77	Miniature Breaker	16 amp	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
78	Earth Plate	60cm X 60cm X 3.15mm Copper Plate 60cm X 60cm X 6mm GI Plate	Electrician (2+2+2)	2 Each		Less than 1 lakh	GeM/Shopping
79	Earth Electrode	Primary Electrode 2100x28x3.25mm Secondary Cu Strip 20x5mm	Electrician (2+2+2)	2 Each		Less than 1 lakh	GeM/Shopping
80	MCCB	100Amps, Triple pole	Electrician (2+2+2)	2 Nos		Less than 1 lakh	GeM/Shopping
81	ELCB and RCCB	25Amps, double pole and 25Amps, double pole, IΔn 30 mA	Electrician (2+2+2)	2 Each		Less than 1 lakh	GeM/Shopping
82	Fuses	HRC Glass Rewire Type	Electrician (2+2+2)	8 Each		Less than 1 lakh	GeM/Shopping
83	Rheostat (Sliding type)	0 - 25 Ohm, 2 Amp 0 - 300 Ohm, 2 Amp 0 - 1 Ohm, 10Amp 0 - 10 Ohm, 5 Amp	Electrician (2+2+2)	2 No. each		Less than 1 lakh	GeM/Shopping
84	Capacitors	Electrolytic Ceramic Polyester film Variable Dual run	Electrician (2+2+2)	4 Each		Less than 1 lakh	GeM/Shopping
85	Various Electronic components	Resistors, Diode, Transistor, UJT, FET, SCR, DIAC, TRAIAC, IGBT, Small transformer etc.	Electrician (2+2+2)	As required		Less than 1 lakh	GeM/Shopping

86	Various Lamps	Halogen Incandescent Lamp Fluorescent tube HP mercury vapor Lamp High-pressure sodium Lamp Low-pressure sodium Lamp LED	Electrician (2+2+2)	2 Each		Less than 1 lakh	GeM/Shopping
87	Plug socket Piano Switch Lamp Holder	230 V, 5 A	Electrician (2+2+2)	4 Each		Less than 1 lakh	GeM/Shopping
88	Cables : Twisted Pair Non-Metallic Sheathed Cable Underground Feeder Cable Ribbon Cable Metallic Sheathed Cable Multi-Conductor Cable Coaxial Cable Direct-Buried Cable	1 mtr each	Electrician (2+2+2)	2 Each		Less than 1 lakh	GeM/Shopping
89	Bus bar with brackets	1 mtr each	Electrician (2+2+2)	6 Nos.		Less than 1 lakh	GeM/Shopping
90	Rubber mat	2' x 4' x 1"	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
91	Electrician Helmet	Yellow Colour	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
92	RCC Pole with accessories (MS angle iron, 'C' clamp, stay insulator etc.) and materials	6 Mtr	Electrician (2+2+2)	2 NO		Less than 1 lakh	GeM/Shopping
93	Safety Belt	Standard quality	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
94	Ohm Meter; Series Type & Shunt Type, portable box type	50/2000-ohm analog	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
95	Digital Multi Meter	DC 200mv -1000v, 0 – 10A & AC 200mv- 750v , 0-10A, resistance 0-20 MΩ and 3 1/2 digit	Electrician (2+2+2)	*24 Nos.		Less than 1 lakh	GeM/Shopping
96	A.C. Voltmeter M.I. analog, portable box type housed in Bakelite case	Multi range 75 V - 150V - 300V - 600V	Electrician (2+2+2)	6 Nos.		Less than 1 lakh	GeM/Shopping
97	Milli Voltmeter centre zero analog, portable box type housed in Bakelite case	100 – 0 – 100 Mv	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
98	Ammeter MC analog, portable box type housed in Bakelite case	0 - 500 mA, 0-5 A, 0-25 A	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
99	AC Ammeter MI, analog, portable box type housed in Bakelite case	0 - 1 A, 0-5 A, 0-25 A	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
100	Kilo Wattmeter Analog	0-1.5-3KW, pressure coil rating- 240v/440v, current rating-5A/10A Analoge, portable type Housed in bakelite case	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
101	Digital Wattmeter	230 V, 1 KW, 50 Hz	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
102	A.C. Energy Meter	Single Phase, 10 A, 240 V induction type	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
103	A.C. Energy Meter	Three Phase, 15 A , 440 V induction type	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping

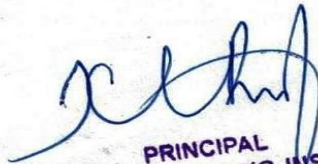
104	Power Factor Meter Digital	440 V, 20 A, Three Phase portable box type	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
105	Frequency Meter	45 to 55 Hz	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
106	Magnetic Flux Meter	0-500 tesla	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
107	Lux meter	lux meter LCD read out 0.05 to 7000 lumens with battery.	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
108	Tachometer	Analog Type - 10000 RPM	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
109	Tachometer	Digital Photo Sensor Type - 10000 RPM	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
110	Tong Tester / Clamp Meter	0 - 100 A (Digital Type)	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
111	Megger	Analog - 500 V	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
112	3- point D.C. Starter	For 2.5 KW DC motor	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
113	4- point D.C. Starter	For 2.5 KW DC motor	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
114	Wheat Stone Bridge with galvanometer and battery		Electrician (2+2+2)	4 Nos		Less than 1 lakh	GeM/Shopping
115	Single Phase Variable Auto Transformer	0 - 270 V, 10Amp (Air cooled)	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
116	Phase Sequence Indicator	3 Phase, 415 V	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
117	Growler	230 V, 50 Hz, Single Phase, Adjustable jaws, Testing armature with ampere meter and testing probes.	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
118	AC Starters: - a. Resistance type starter b. Direct on line Starter c. Star Delta Starter- Manual d. Star Delta Starter – Semi automatic e. Star Delta Starter – Fully automatic f. Star Delta Starter - Soft starter g. Auto Transformer type	For A.C Motors of 2 to 5 H.P.	Electrician (2+2+2)	2 No. each		Less than 1 lakh	GeM/Shopping
119	Oscilloscope Dual Trace	20 MHz	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
120	Function Generator	2 to 200 KHz, Sine, Square, Triangular 220 V, 50 Hz, Single Phase	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
121	Soldering Iron	25 Watt, 65 Watt and 120 Watt, 230 Volt	Electrician (2+2+2)	4 Nos. each		Less than 1 lakh	GeM/Shopping
122	Temperature controlled Soldering Iron	50 Watt, 230 Volt	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
123	Discrete Component Trainer	Discrete Component (for diode and transistor circuit) with regulated power supply +5,0- 5 V,+12 ,0-12 V	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping

124	Linear I.C. Trainer	Linear I.C. Trainer with regulated power supply 1.2V to 15V PIC socket 16pin and 20 pin with bread board	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
125	Digital I.C. Trainer	Digital I.C. Trainer 7 segment display and bread board	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
126	Domestic Appliances – a. Electric Induction plate b. Electric Kettle c. Electric Iron d. Immersion Heater e. A.C. Ceiling Fan and AC Table Fan f. Geyser (Storage type) g. Mixture & Grinder h. Washing Machine Semi Automatic i. Motor Pump set	a. 1500 Watt, 240V b. 1500 Watts, 240V c. Automatic - 750 W, 240 V d. 1500 Watt, 240V e. 68 Watt, 230 V f. 10 litre g. 750 W, 240 V h. 5 Kg, i. 1 HP, 1 Phase, 240 V	Electrician (2+2+2)	2 No. each		Less than 1 lakh	GeM/Shopping
127	Oil Testing Kit	Oil Testing Kit 230 V, single phase 50 Hz 60 VA output 0-60 KV Variable	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
128	Inverter with Battery	1 KVA with 12 V Battery Input- 12 volt DC, Output- 220 volt AC	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
129	Voltage Stabilizer	AC Input - 150 - 250 V, 600 VA AC Output - 240 V, 10 A	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
130	DC Power Supply	0 - 30 V, 5 A	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
131	Battery Charger	0 - 6 - 9 - 12 - 24 - 48 V, 30amp	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
132	Current Transformer	415 V, 50Hz, CT Ratio 25 / 5 A, 5VA	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
133	Potential Transformer	415 V, 50Hz, PT Ratio, 440V/110V, 10VA	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
134	Solar panel with Battery	18 Watt	Electrician (2+2+2)	2 Set		Less than 1 lakh	GeM/Shopping
135	Pentium IV Computer or latest	2.8 GHz & above, 1 GB RAM, 80 GB HDD, DVD Combo Drive, 19/21" Monitor, optical scroll mouse, multimedia key board, 32 bit LAN card with UPP port, necessary Drivers, etc. OR (Latest Version)	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
136	Ink jet/ laser printer		Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping

137	D.C. Shunt Generator with control panel	D.C. Shunt Generator with control panel, 2.5 KW, 220V & 3-phase Squirrel cage Induction Motor, 5HP, 440V with control panel & star delta starter	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
138	Motor-Generator (AC to DC)	Squirrel Cage Induction Motor with star delta starter and directly coupled to DC shunt generator and switch board mounted with regulator, air breaker, ammeter, voltmeter, knife blade switches and fuses, set complete with case iron and plate, fixing bolts, foundation bolts and flexible coupling. Induction Motor rating: 7.5 HP, 415V, 50 cycles, 3 phase. DC Shunt Generator rating: 5 KW, 440V (Output voltage varies 110-440v)	Electrician (2+2+2)	1 No.		More than 1 lakh	GeM/NCB
139	D.C. Compound Generator with control panel including fitted rheostat, voltmeter, ammeter and breaker	D.C. Compound Generator with control panel including fitted rheostat, voltmeter, ammeter and breaker, 2.5 KW, 220V & 3-phase Squirrel cage Induction Motor, 5HP, 440V, with control panel & star delta starter	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
140	DC Series Motor coupled with spring balance load	2.5 KW, 220 Volts	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
141	DC Shunt Motor	2.5 KW, 220 V	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
142	DC compound Motor with starter and switch	2.5 KW, 220 volts	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
143	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, ammeter, voltmeter frequency meter, knife blade switch and fuses etc. Set complete with cast iron bed plate, fixing bolts, foundation bolts and flexible coupling.	Shunt Motor rating : 5 HP, 440V AC Generator rating : 3-Phase, 4 wire, 3.5 KVA, 400/230 Volts, 0.8 pf, 50cycles	Electrician (2+2+2)	1 No.		More than 1 lakh	GeM/NCB
144	<b>AC Squirrel Cage Motor with star delta starter and triple pole iron clad switch fuse with Mechanical Load.</b>	<b>5 HP, 3-Phase, 415 V, 50 Hz</b>	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
145	AC phase-wound slip ring Motor with starter switch	5 HP, 440 V, 3 Phase, 50 Hz	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
146	Universal Motor with starter/switch	240 V, 50 Hz, 1 HP	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
147	Synchronous motor with accessories like starter, excitation arrangements.	3 Phase, 3 HP, 440V, 50Hz, 4 Pole	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
148	Thyristor /IGBT controlled D.C. motor drive with tacho-generator feedback arrangement	1 HP	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
149	Thyristor/IGBT controlled A.C. motor drive with	VVVF control 3 Phase, 2 HP	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping

150	Single phase Transformer, core type, air cooled	1 KVA , 240/415 V, 50 Hz	Electrician (2+2+2)	3 Nos.		Less than 1 lakh	GeM/Shopping
151	Three phase transformer, shell type oil cooled with Delta/ Star	3 KVA , 415/240 V, 50 Hz	Electrician (2+2+2)	2 Nos.		Less than 1 lakh	GeM/Shopping
152	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, dynamo meter, instrument panel and power supply unit	Electrician (2+2+2)	1 for 8 (4+4) Units		Less than 1 lakh	GeM/Shopping
153	Diesel Generator Set with change over switch, over current breaker and water/ air-cooled with armature, star-delta connections AC 3 phase	7.5 KVA, 415 volt or higher rating	Electrician (2+2+2)	1 No. per institute		Less than 1 lakh	GeM/Shopping
154	Used DC Generators-series, shunt and compound type for overhauling practice		Electrician (2+2+2)	1 No. Each		Less than 1 lakh	GeM/Shopping
155	Pillar Electric Drill Machine Motorized	12-20 mm Capacity, 1HP, 440V, 3 phase, Induction Motor with DOL starter, Bench Type	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
156	Motorised Bench Grinder	1 HP. 3 phase, 440V with DOL starter, Double side with smooth and rough wheel with Tool Base	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
157	A.C. Series type Motor	1 HP, 240 V, 50 Hz	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
158	Single Phase Capacitor Motor with starter switch	1 HP, 240 V, 50 Hz	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
159	Manual Motor coil Winding Machine	With step arbor	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
160	Ceiling fan coil Winding Machine	250V, 50 Hz, 1-Φ, with speed control	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
161	Primary current injection set	220V, 50 Hz, 1-Φ, output current - 200 A (min) with timer	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
162	Stepper Motor with Digital Controller		Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
163	Shaded Pole Motor	Fractional HP, 240 V, 50 Hz	Electrician (2+2+2)	1 No.		Less than 1 lakh	GeM/Shopping
164	Working Bench	2.5 m x 1.20 m x 0.75 m	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
165	Wiring Board	3 meter x1 meter with 0.5 meter projection on the top	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
166	Instructor's table		Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
167	Instructor's chair		Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
168	Metal Rack	100cm x 150cm x 45cm	Electrician (2+2+2)	8 Nos.		Less than 1 lakh	GeM/Shopping
169	Lockers with drawers		Electrician (2+2+2)	2 for Each Trainee		Less than 1 lakh	GeM/Shopping
170	Almirah	2.5 m x 1.20 m x 0.5 m	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
171	Black board/white board	(minimum 4X6 feet)	Electrician (2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
172	Fire Extinguisher CO <sub>2</sub>	2 KG	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping
173	Fire Buckets	Standard size	Electrician (2+2+2)	4 Nos.		Less than 1 lakh	GeM/Shopping



  
PRINCIPAL  
INDUSTRIAL TRAINING INSTITUTE  
BALASORE, ODISHA

## PROCUREMENT PLAN OF GOVT. ITI BALASORE( UNDER STRIVE PROJECT ) FOR THE YEAR -2021-2022, FITTER

Sl No	Name of the Item	Specification	Trade/Course for which it is required	Total Required	Rate/U nit ( in INR Lakh)	Total (in INR Lakh)	Method of Procurement ( e.g Shopping/Competitive Bidding)
1	Steel Rule with metric & British graduation	<b>150 mm, Stainless steel</b>	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
2	Try Square.	150 mm blade	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
3	Caliper inside spring type.	150 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
4	Caliper hermaphrodite spring type	150 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
5	Caliper outside spring type	150 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
6	Divider spring type	150 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
7	Scriber	150 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
8	Centre Punch	10 mm and Length - 120 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
9	Screw driver	150mm insulated flat type	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
10	Chisel cold flat	20 mm X 150 mm High carbon steel	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
11	Hammer ball peen With handle 450 grams (1 lb)	450 grams (1 lb)	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
12	Hammer ball peen With handle.	220 grams (1/2 lb)	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
13	File flat - second cut	250 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
14	File flat smooth	250 mm.	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
15	File half round second cut	150 mm.	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
16	Hacksaw frame fixed type	300 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
17	Safety goggles.		Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
18	Dot punch	100 mm	Fitter(2+2+2)	126 Nos		Less than 1 lakh	GeM/Shopping
19	Steel Rule Graduated both in Metric and English Unit	300 mm Stainless steel	Fitter(2+2+2)	16 nos.		Less than 1 lakh	GeM/Shopping
20	Straight edge steel	300 mm or above	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
21	Spirit Level metal Type - 2	300 mm Basic Length Accuracy 0.1mm/Meter	Fitter(2+2+2)	4 no.		Less than 1 lakh	GeM/Shopping
22	Stud Extractor EZY - out	Set of 8	Fitter(2+2+2)	8 sets		Less than 1 lakh	GeM/Shopping
23	Combination Set	300 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
24	Micrometer outside.	0 - 25 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
25	Micrometer outside.	25 - 50 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
26	Micrometer outside.	50 - 75 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
27	Micrometer inside with extension rods.	Accuracy 0.01 mm with extension rods upto 150 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
28	Vernier caliper	150 mm	Fitter(2+2+2)	16 nos.		Less than 1 lakh	GeM/Shopping

29	Vernier height gauges	0 - 300 mm with least count = 0.02 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
30	Vernier bevel protractor Blade with Acute Angle Attachment	300 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
31	Screw pitch gauge Metric	0.25 to 6 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
32	Wire gauge, metric standard.		Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
33	Surface plate C.I./Granite with Stand and Cover	600 x 600 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
34	Marking table (Mild steel)	900X900X900 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
35	Universal scribing block.	220 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
36	V-Block pair with clamps	150 x 100 x 100 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
37	Angle plate	150 X 150 X 250 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
38	Punch letter set.	3 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
39	Punch number set.	3 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
40	Portable hand drill (Electric)	0 to 13 mm Capacity	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
41	Drill twist straight shank	3 mm to 12 mm by 0.5 mm H.S.S.	Fitter(2+2+2)	8 Sets		Less than 1 lakh	GeM/Shopping
42	Drill twist Taper shank	8 mm to 20 mm by 0.5 mm H.S.S.	Fitter(2+2+2)	8 Sets		Less than 1 lakh	GeM/Shopping
43	Taps and dies complete set in box.	Wit-worth	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
44	Taps and dies complete set	5, 6, 8, 10 & 12 mm set of 5	Fitter(2+2+2)	8 Sets		Less than 1 lakh	GeM/Shopping
45	File knife edge smooth	150 mm	Fitter(2+2+2)	16 nos.		Less than 1 lakh	GeM/Shopping
46	File feather edge smooth	150 mm	Fitter(2+2+2)	16 nos.		Less than 1 lakh	GeM/Shopping
47	File triangular smooth	200 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
48	File round second cut	200 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
49	File square second cut	250 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
50	Feeler gauge	Gauge Feeler / Thickness -0.05 mm to 0.3 mm by 0.05 and 0.4 mm to 1 mm by 0.1 mm - 13 leaves	Fitter(2+2+2)	4 set		Less than 1 lakh	GeM/Shopping
51	File triangular second cut.	200 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
52	File flat second cut safe edge.	300 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
53	File flat bastard	200 mm	Fitter(2+2+2)	40 nos.		Less than 1 lakh	GeM/Shopping
54	File flat bastard.	300 mm	Fitter(2+2+2)	40 nos.		Less than 1 lakh	GeM/Shopping
55	File Swiss type needle	Set of 12, Length = 150 mm	Fitter(2+2+2)	8 sets		Less than 1 lakh	GeM/Shopping
56	File half round second cut.	250 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
57	File half round bastard.	250 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
58	File round bastard.	250 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
59	File hand second cut.	150 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
60	File card.	3"x5" size, brass or steel wire	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping

61	Oil Can	250 ml	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
62	Pliers combination insulated	150 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
63	Wooden handle forged Soldering Iron copper bit.	230V, 250 W, 350 gm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
64	Blow Lamp	0.5 litre	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
65	Spanner- Double Ended	6x7, 8x9, 10x11, 12x13,14x15, 16x17, 18x19,20x22	Fitter(2+2+2)	2 set each		Less than 1 lakh	GeM/Shopping
66	Spanner adjustable	150 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
67	Interchangeable ratchet socket set	12 mm driver, sized10-32 mm set of 18 socket & attachments.	Fitter(2+2+2)	2 set		Less than 1 lakh	GeM/Shopping
68	Double Ended tubular Box spanner set with Tommy bar.	A/F 6-25 mm set of 10 Tommy Bar Dia 6, 8, 10, 12,b 14, 16	Fitter(2+2+2)	2 set		Less than 1 lakh	GeM/Shopping
69	Glass magnifying	75 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
70	Clamp toolmaker	5 cm and 7.5 cm set of 2.	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
71	Clamp "C"	100 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
72	Clamp "C"	200 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
73	Hand Reamer set (Tapar pin straight flute)	Nominal Dia 6, 8, 10, 12, 16mm	Fitter(2+2+2)	2 set		Less than 1 lakh	GeM/Shopping
74	Machine Reamer parallel (Helical flute)	12 - 16mm set of 5.	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
75	Scraper flat	150 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
76	Scraper triangular	150 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
77	Scraper half round	150 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
78	Chisel cold cross cut & diamond point.	9 mm X 150 mm	Fitter(2+2+2)	*20 each		Less than 1 lakh	GeM/Shopping
79	Chisel cold flat	9 mm X 100 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping
80	Chisel cold round noze.	9 mm X 100 mm	Fitter(2+2+2)	*20 nos.		Less than 1 lakh	GeM/Shopping

81	Drill chuck with key	12 mm.	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
82	Pipe wrench	400 mm	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
83	Pipe vice	100 mm	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
84	Adjustable pipe die set BSP	cover pipe size 1" or 3/4"	Fitter(2+2+2)	1 Set		Less than 1 lakh	GeM/Shopping
85	Wheel dresser (One for 4 units) Star/Dresser with Holder	Length 150 mm, diamond point	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
86	Machine vice - Swivel Base	100 mm	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
87	Machine vice - Swivel Base	125 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
88	Sleeve drill Morse	No. 0 - 1, 1 - 2, 2 - 3, 3 - 4, 4,-5	Fitter(2+2+2)	2 Set		Less than 1 lakh	GeM/Shopping
89	Vice bench	150 mm	Fitter(2+2+2)	40 nos.		Less than 1 lakh	GeM/Shopping
90	Bench working.	2400 x 1200 x 900 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
91	Almirah.	1800 x 900 x 450 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
92	Lockers with 8 drawers (standard size).	One locker for each trainee	Fitter(2+2+2)	6 nos.		Less than 1 lakh	GeM/Shopping
93	Metal rack	1820 x 1820 x 450 cm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
94	Instructor Table		Fitter(2+2+2)			Less than 1 lakh	GeM/Shopping
95	Instructor Chair		Fitter(2+2+2)			Less than 1 lakh	GeM/Shopping
96	Black board with easel.		Fitter(2+2+2)			Less than 1 lakh	GeM/Shopping
97	Fire extinguisher (For 4 Units)	CO2 type, 3 kg capacity	Fitter(2+2+2)			Less than 1 lakh	GeM/Shopping
98	Fire buckets.		Fitter(2+2+2)			Less than 1 lakh	GeM/Shopping

99	Machine vice.	100mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
100	Wing compass.	254 mm or 300 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
101	Hand hammer with handle.	1000 gm	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
102	Torque wrench (Standard/Ratchet type)	14 to 68 Nm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
103	Power tools for fastening	Capacity 10-18mm	Fitter(2+2+2)	2 No.		Less than 1 lakh	GeM/Shopping
104	Different Profile gauges (Plate type) - For demonstration	Metric standard	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
105	Knurling tool (Diamond, straight & Diagonal)		Fitter(2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
106	Indexable boring bar with inserts	1" shank	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
107	Machine maintenance manual for Lathe, Pedestal grinder, Drill machine, Power saw		Fitter(2+2+2)	2		Less than 1 lakh	GeM/Shopping
108	Temperature gauge	Range 0 - 150°C	Fitter(2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
109	Dowel pin ( straight)	Dia. -1" Length -4" (Mat: Stainless Steel)	Fitter(2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
110	Standard Tap screws	M3, M4, M5, M6, M8, M10, M12, M14, M16	Fitter(2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
111	Lapping plate	Dia. -6"	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
112	Medium carbon Heat treated alloy steel Metric Studs and bolts along with nuts (for display) of standard length (May be manufactured in-house)	M6, M8, M10, M12, M14, M16 (Standard)	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
113	Caps screws	M6, M8, M10, M12	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
114	Drill gauges	Letter drill gauge (A to Z) , Number drill gauge (1 to 60) , Metric drill gauge (1.5mm to	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
115	Cast Iron Globe Valve (Flanged type)	150NB, Class# 150 Flange:ANSI125-B16.1	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
116	C.I. Sluice / Gate valve (flanged type)	150NB, Class# 150b Flange:ANSI125-B16.1	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping

117	Stop cock	25NB (2-way, Threaded end)	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
118	M.S. Pipe	150NB, Sch.40, ERW, IS:1239	Fitter(2+2+2)	as required		Less than 1 lakh	GeM/Shopping
119	G.I. Pipe	25mm, Sch.40, ERW	Fitter(2+2+2)	as required		Less than 1 lakh	GeM/Shopping
120	Slip-on Forged steel Flange	150NB, ANSI-B16.5, Class#150	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
121	Bolt & Nut with washer (May be manufactured in-house)	M20x2.5x90Long (part thread - Hex. Head)	Fitter(2+2+2)	*40 nos.		Less than 1 lakh	GeM/Shopping
122	Pipe threading die with handle	Ratchet type Die head of 1/2" , 3/4" and 1"	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
123	Jigs & Fixture (sample)-For demonstration (May be manufactured in-house)		Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
124	M. S. Shaft (May be manufactured in-house)	Bright M.S. round bar • 80mm, 600mm long, Stepped • • 0mm on 300mm one end	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
125	Pulleys (for V-belt or Flat belt)	to fit on 50mm dia. Shaft with key slot	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
126	Steel keys (May be manufactured in-house)	to fit with keyslot of shaft & pulley	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
127	Damaged old spur gear	to fit 50mm dia. Shaft	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
128	V-belt and Flat belt	to fit on pulley	Fitter(2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
129	Packing gasket	PTFE gasket roll small size	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
130	Washer, clutch, keys, jib, cotter & circlip	minimum 25mm size, carbon steel material	Fitter(2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
131	Hollow punch	Straight Shank Hollow Punch Sets 5-12mm	Fitter(2+2+2)	2 set		Less than 1 lakh	GeM/Shopping
132	Drill Drift (May be manufactured in-house)	200mm hardened and black finish	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
133	Bearing different types	each type of diameter 25mm (min.)	Fitter(2+2+2)	2 each		Less than 1 lakh	GeM/Shopping
134	Lifting sling	8mm Nominal Dia. Single leg sling	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping

135	Bearing extractor	Universal gear puller 2 or 3 jaws adjustable	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
136	Pulley extractor	- do -	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
<b>C. TOOLS FOR ALLIED TRADE - SHEET METAL WORKER</b>			Fitter(2+2+2)			Less than 1 lakh	GeM/Shopping
1	Trammel	300 mm	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
2	Pocker.		Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
3	Prick punch	100 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
4	Mallet.	Dia 100 mm X 150 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
5	Aviation Snips straight Cut	300 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
6	Flat headed hammers with handle.		Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
7	Planishing hammer.		Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
8	Snip bent Left Cut	250 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
9	Stake hatchet with Leg.	300 X 200 X 20 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
10	Stake grooving.	100 X 100 X 300 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
*1.	Slip Gauge as Johnson metric set.	87 Pieces Set	Fitter(2+2+2)	2 Set		Less than 1 lakh	GeM/Shopping
*2.	Gauge snap Go and Not Go	25 to 50 mm by 5 mm, Set of 6 pieces	Fitter(2+2+2)	2 Set		Less than 1 lakh	GeM/Shopping
*3.	Gauge plug	Single ended 5 to 55 by 5 mm. Set of 11 pcs.	Fitter(2+2+2)	2 Set		Less than 1 lakh	GeM/Shopping
**4.	Gauge telescopic set.	8 - 150 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
5	Dial test indicator on stand	0.01 mm least count	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping



6	Sine bar	125 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
**7.	Dial verniercaliper. (Universal type)	0 - 300 mm, LC 0.05 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
**8.	Screw thread micrometer with interchangeable. Pitch anvils for checking	0 - 25 mm LC 0.01 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
9	Depth micrometer. 0-25 mm	Accuracy 0.01 mm with standard set of extension rods upto 200 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
**10.	Vernier caliper.	0 - 150 mm with least count 0.02mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
**11.	Digital Micrometer outside.	0 - 25 mm L.C. 0.001 mm.	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
**12.	Comparators Gauge - Dial Indication with Stand and Bracket.	LC 0.01mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
13	Engineer's try square (knife-edge)	150 mm Blade	Fitter(2+2+2)	2 nos.		Less than 1 lakh	GeM/Shopping
**14.	Surface roughness comparison plates	N1 - N12 Grade	Fitter(2+2+2)	2 Set		Less than 1 lakh	GeM/Shopping
15	Digital Vernier caliper	0 - 200 mm L.C. 0.01 mm (Optional)	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
16	Vernier Bevel protector	Range 360deg, LC. : 5min(150mm blade)	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
			Fitter(2+2+2)			Less than 1 lakh	GeM/Shopping
17	Carbide Wear Block.	1 mm - 2 mm	Fitter(2+2+2)	4 each		Less than 1 lakh	GeM/Shopping
18	Lathe tools H.S.S. tipped set.		Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
19	Lathe tools bit.	6 mm x 75 mm HSS/Carbide	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
20	Lathe tools bit.	8 mm x 75 mm	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
21	Lathe tools bit.	10 mm x 75 mm HSS/Carbide	Fitter(2+2+2)	8 nos.		Less than 1 lakh	GeM/Shopping
22	Arm strong type tool bit holder.	Right hand	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping

23	Arm strong type tool bit holder.	Left hand	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
24	Arm strong type tool bit holder.	Straight	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
25	Stillson wrenches	250 mm	Fitter(2+2+2)	4 nos.		Less than 1 lakh	GeM/Shopping
26	Pipe cutter wheel type.	6 mm to 25 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
27	Pipe bender machine spool type with stand manually operated.	up to 25 mm cold bending	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
28	Adjustable pipe chain tonge to take pipes	up to 300 mm	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping
29	Adjustable spanner.	380 mm long	Fitter(2+2+2)	2 no.		Less than 1 lakh	GeM/Shopping

<b>E. GENERAL MACHINERY INSTALLATION</b>							
	SS and SC centre lathe (all geared) with minimum specification	Centre height 150 mm and centre distance 1000 mm along with 3 & 4 jaw chucks, auto feed system, safety guard, taper turning attachment, motorized coolant system, lighting arrangement & standard accessories.		2 Nos.		More than one Lak	Gem/Tender
	Pillar Type Drilling machine	Sensitive 0-20 mm cap. with swivel table motorized with chuck & key.		1 no.		Less than 1 lakh	Gem/Tender

	Drilling machine bench	Sensitive 0-12 mm cap motorized with chuck and key.		2 nos		Less than 1 lakh	Gem/Tender
	D.E. pedestal Grinding machine with wheels rough and smooth	2 H.P.-3Phase-415V, 1500 rpm,250 dia. wheel		1 no.		Less than 1 lakh	Gem/Tender
<b>F. LIST OF ADDITIONAL TOOLS FOR ALLIED TRADE IN WELDING</b> <b>(Note: - Those additional items are to be provided for the Allied Trade Training where the Welder trade does not exist.)</b>							
	Transformer welding set - continuous welding current, with all accessories and electrode holder 60% Duty Cycle with Standard Accessories	300 A, OCV 60 - 100 V,		1 set		Less than 1 lakh	Gem/Shoping
	Welder cable	Able to carry 300 amps. With flexible rubber cover		20 Meter		Less than 1 lakh	Gem/Shoping
	Lugs for cable			12 Nos.		Less than 1 lakh	Gem/Shoping
	Earth clamps.			2 Nos.		Less than 1 lakh	Gem/Shoping
	Arc welding table (all metal top) with positioner.	1200 X 1200 X 750 mm		1 No.		Less than 1 lakh	Gem/Shoping
	Oxy - acetylene gas welding set equipment with hoses, Oxygen & Acetylene cylinders, regulator and other accessories.			1 Set.		Less than 1 lakh	Gem/Shoping
	Gas welding table with positioner with Fire Bricks	900 X 600 X 750 mm		1 No.		Less than 1 lakh	Gem/Shoping

	Welding torch tips of different sizes for Oxy - acetylene gas welding	To fit nozzle no. 1, 2, & 3		1 Set		Less than 1 lakh	Gem/Shoping
	Gas lighter.			2 Nos.		Less than 1 lakh	Gem/Shoping
	Trolley for gas cylinders.			1 No		Less than 1 lakh	Gem/Shoping
	Chipping hammer.			2 Nos.		Less than 1 lakh	Gem/Shoping
	Gloves (Leather)			2 Pairs		Less than 1 lakh	Gem/Shoping
	Leather apron.			2 Nos.		Less than 1 lakh	Gem/Shoping
	Spindle key for cylinder valve.			2 Nos.		Less than 1 lakh	Gem/Shoping
	Welding torches.	Nozzles no. 1, 2, & 3		1 Set.		Less than 1 lakh	Gem/Shoping
	Welding goggles			4 Pairs.		Less than 1 lakh	Gem/Shoping
	Welding helmet with coloured flame retardent glass			2 Nos.		Less than 1 lakh	Gem/Shoping
	Tip cleaner			5 Sets.		Less than 1 lakh	Gem/Shoping
						Less than 1 lakh	Gem/Shoping

#### #G. LIST OF TOOLS & ACCESSORIES FOR PNEUMATICS AND HYDRULICS

	Compressor unit	bar, Delivery: 50 lpm (or more), Reservoir capacity: 24 Litres (or more), 230V, 50 Hz, with pressure regulator and water separator		1 no		More than one Lakh	Gem/Tender
	Pneumatic Trainer Kit, each consisting of the following matching components and accessories:			01 sets			
	I. Single acting cylinder	Max. stroke length 50 mm, Bore dia 20 mm		1 No			
	II. Double acting cylinder	Max. stroke length 100 mm, Bore dia 20 mm, magnetic type		1 No			

	III. 3/2-way valve	manually-actuated, Normally Closed		2 Nos.	
	IV. 3/2-way valve	pneumatically-actuated,		1 No	
	V. One-way flow control valve			2 Nos.	
	VI. 5/2-way valve	with manually-operated switch		1 No	
	VII. 5/2-way valve	pneumatically-actuated, spring return		1 No	
	VIII. 5/2-way pneumatic actuated valve	double pilot		1 No	
	IX. 3/2-way roller lever valve	direct actuation Normally Closed		2 Nos.	
	X. Shuttle valve (OR)			1 No	
	XI. Two-pressure valve (AND)			1 No	
	XII. Pressure gauge	0-16 bar		1 Nos.	
	XIII. Manifold with self-closing	NRV, 6-way		1 No	
	XIV. Pushbutton station for electrical signal input	with 3 illuminated momentary-contact switches (1 NO + 1 NC) and 1 illuminated maintained-contact switch (1 NO + 1 NC), Contact load 2A		1 No	
	XV. Relay station	with 3 relays each with 4 contact sets (3NO+1NC or Change-over type), 5 A		1 No	
	XVI. 3/2-way single solenoid valve	with LED		1 No	
	XVII. 5/2-way single solenoid valve	with manual override and LED		1 No	
	XVIII. 5/2-way double solenoid valve	with manual override and LED		1 No	
	XIX. Power supply unit,	Input voltage 85 – 265 V AC, Output voltage: 24 V DC, Output current: max.4.5 A, short-circuit-proof.		1 No	

More than one Lak

Gem/Tender


	XX. Profile plate, Anodised Aluminium	1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto thepneumatic workstation)		1 sets		
3	Pneumatic Workstation with 40 square mm aluminium profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide:	(1) Work Table – Size(Approx.) L1200mmXW900mmXH900mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer –Size (Approx.) – L460mmxW495mm xH158mm each, and overall size of Drawer unit (Approx.) - L470mmxW495mmxH825 mm and (3) Drawer slide height (Approx.) 85mm.		1 No	More than one Lak	Gem/Tender
4	Carrier for mounting components, such asPB & relay boxes.			1 No	More than one Lak	Gem/Tender
5	Cut section model for pneumaticcomponents			1 set	More than one Lak	Gem/Tender
6	Hydraulic Trainer Kit, each consisting of the following matching components andaccessories:			01 set		
	I. Hydraulic Power pack	with (1) external gear pump having a delivery rate of 2.5 lpm, (approx.) @ 1400 rpm operating pressure 60 bar, coupled to a single-phase AC motor (230 V AC) having start capacitor and ON/OFF switch		1 No		
	II. Pressure relief valve	pilot-operated		1 No		
	III. Drip tray, steel	size 1160 mm x 760 mm.		1 No.		
	IV. Pressure Gauge	Glycerin-damped, Indication range of: 0 – 100bar		1 No.		

	V. Four-Way distributor	with five ports, equipped with a pressure gauge		1 No.		more than one Lak	Gem/Tender
	VI. Double acting hydraulic cylinder	with a control cam, Piston diameter 16 mm, Piston rod diameter 10 mm, Stroke length 200 mm.		1 No.			
	VII. Suitable Weight	for vertical loading of hydraulic cylinder		1 No.			
	VIII. Mounting kit for weight	for realizing pulling and pushing load.		1 No.			
	IX. 3/2-way directional control valve	with hand lever actuation.		1 No.			
	X. 4/2-way directional control valve	with hand lever actuation.		1 No.			
	XI. 4/3-way directional control valve	closed-centre position, with hand lever actuation.		1 No.			
	XII. Non-return valve.			1 No.			
	XIII. Pilot-operated check valve	Pilot to open.		1 No.			
	XIV. One-way flow control valve	With integrated check valve.		1 No.			
	XV. T-Connector with self sealing coupling nipples (2 Nos.) and quick coupling socket (1 No.).			2 Nos.			
	XVI. Profile plate,	Anodised Aluminium, 1100x700 mm, with carriers, mounting frames and mounting accessories (To be fitted onto the Hydraulic workstation)		1 SET			

7	Hydraulic Workstation with 40 square mm aluminium profile legs, wooden work surface, and one pedestal drawer unit having 5 drawers, each with handles and individual locks, on metallic full panel drawer slide:	(1) Work Table – Size(Approx.) L1200mmXW900mmXH900mm, with four castor wheels including two lockable wheels at the front side, (2) Drawer – Size (Approx.) – L460mmxW495mm xH158mm each, and overall size of Drawer unit (Approx.) - L470mmxW495mmxH825 mm and(3) Drawer slide heightApprox.) 85mm.		1 No	More than one Lak	Gem/Tender
8	Cut-section models for hydrauliccomponents			1 set	More than one Lak	Gem/Tender

**TOOLS & EQUIPMENT FOR EMPLOYABILITY SKILLS**

1	Computer (PC) with latest configurations and Internet connection with standard operating system and standard word processor and worksheet software			10 Nos.	More than one Lak	Gem/Tender
2	UPS - 500VA			10 Nos.	Less than 1 lakh	Gem/Shoping
3	Scanner cum Printer			1 No.	Less than 1 lakh	Gem/Shoping
4	Computer Tables			10 Nos.	Less than 1 lakh	Gem/Shoping
5	Computer Chairs			20 Nos.	Less than 1 lakh	Gem/Shoping
6	LCD Projector			1 No.	Less than 1 lakh	Gem/Shoping
7	White Board 1200mm x 900mm			1 No.	Less than 1 lakh	Gem/Shoping

  
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