NAME OF THE SCHEDULE : SCHEDULE-4 - ELECTRICAL SECTOR

Sl.No.	Trade	Item Code	Name of the Tool, Machinery / Equipment	Specification	Name of the ITI and Quantity													Total Quantity
					Govt. ITI, Rajam	Govt. ITI, Bobbili	Govt. ITI (O), Visakhapatnam	Govt. ITI, Kakinada	Govt. ITI, Bhimavaram	Govt. ITI, Vijayawada	Govt. ITI, Tenali	Govt. ITI (B), Ongole	Govt. ITI(B), Nellore	Govt. ITI(G), Nellore	Govt. ITI, Tada	Govt. ITI, Chitoor	Govt. ITI, Tirupathi	Govt. ITI, Srisailam	Govt. ITI, Chakrayapet	
1	INSTRUMENT MECHANIC	IM-E001	Soldering station (temp. controlled) with necessary accessories	500 to 600 W with with 60 W Iron bit (5 nos of interchangeable bits of different sizes) and 400 to 500 Watt hot air blower with stand	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
2	INSTRUMENT MECHANIC	IM-E002	Monochromatic light source	Diameter : up to 150mm, light source : 35W sodium Wave length : 0.5 micron	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3	INSTRUMENT MECHANIC	IM-E003	Wire type strain gauge (load cell/cantilever beam)	Excitation: 10 Vdc, 15 Vdc max. Output: 3 mV/V ±0.25% Cantilever beam load cells, ±50 kgF to ±10,000 kgF	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
4	INSTRUMENT MECHANIC	IM-E004	Load cells of various ranges	Gage factor : 2.05, Rated output : 1.8 - 2.2 mV/V, Maximum excitation : 6 Kg creep : 0.03 Input resistance :380 ohms to 420 ohms output resistance : 345 ohms to 355 ohms	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
5	INSTRUMENT MECHANIC	IM-E005	Electrical tachometer	Analog type - 10000 RPM	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
6	INSTRUMENT MECHANIC	IM-E006	Digital type tachometer	0-10000 Counts	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
7	INSTRUMENT MECHANIC	IM-E007	Stroboscope	Frequency range : o to 120000 flashes per minute High intensity light 9000 LUX at 30cm	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
8	INSTRUMENT MECHANIC	IM-E008	Digital panel meters	3 ½" digit LED display	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
9	INSTRUMENT MECHANIC	IM-E009	Digital line frequency indicator	3 ½" digit LED display	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
10	INSTRUMENT MECHANIC	IM-E010	D.C. regulated power supply	Ref: Annexure-4-i	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	4
11	INSTRUMENT MECHANIC	IM-E011	Digital multi signal generator	Ref: Annexure-4-ii	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
12	INSTRUMENT MECHANIC	IM-E012	Digital function generator	Ref: Annexure-4-iii	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
13	INSTRUMENT MECHANIC	IM-E013	Pulse generator	Ref: Annexure-4-iv	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
14	INSTRUMENT MECHANIC	IM-E014	Digital insulation tester	Digital Insulation Resistance Tester with Buil-in Multimeter, Data Hold, Test Voltage: 500V / 1000V / 2500V/5000V, 0 to 99.9G.Ohms, Measures AC/DC Voltage, AC/DC Current up to 500mA, Resistance,Capacitance, Frequency, Diode & Continuity Test Facility.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
15	INSTRUMENT MECHANIC	IM-E015	Analog dual trace CRO	Ref: Annexure-4-v	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
16	INSTRUMENT MECHANIC	IM-E016	DSO (Digital storage oscilloscope)	Ref: Annexure-4-vi	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
17	INSTRUMENT MECHANIC	IM-E017	Trainer on basic digital electronics i.e. logic gates Boolean Expression adder, sub tractor, flip flop, counter register, converter etc.	Instrument with Fixed DC Power Supplies : +5V / 1.5A; - 5V / 0.3A; +12V / 0.3A. Adjustable DC Power Supply : 0 to 15V / 0.5A., Clock Signal Generator : 1 Hz to 1MHz (in 6 Ranges). 16 SPDT switches as HI / Low Inputs., 2 Nos. pulsar switch with Q and Q' o/p with denounce circuit. Trainer on basic digital electronics i.e. Logic gates, Boolean Expression, adder , sub tractor, Flip-flop, counter, register, converter, 2 digit BCD coded thumbwheel Switch.16 sets of independent LED's to indicate high & low logic state. 4 sets of independent 7 segment LED display with BCD to Seven Segment Decoder driver. Logic Probe: TTL and CMOS level with 5mm LED Display to display "Low" and "High", An 8 ohm / 0.5W speaker, Breadboard Module	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
18	INSTRUMENT MECHANIC	IM-E018	Trainers on power supplier's halfwave rectifier, full wave rectifier(01 No. each)	IC based DC Reg. : + 12 V / 500 mA (fixed and with facility to vary from 0 to +12 V). Power Supplies : - 12 V / 500 mA (fixed and with facility to vary from 0 to -12 V). + 5V / 500mA (fixed). AC Supplies : 9 - 0 - 9 V AC / 500 mA. resistor, capacitor, diode, IC 7805, IC 7905,IC 7812,IC 7912,IC 317.	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
19	INSTRUMENT MECHANIC	IM-E019	DC moving coil mili ammeters (various ranges)	0-1mA,0-25mA, 0-50mA (01 No. each)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
20	INSTRUMENT MECHANIC	IM-E020	Centre zero galvanometers	300 - 0 - 300 mA , 240V	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
21	INSTRUMENT MECHANIC	IM-E021	AC moving iron type voltmeter (various ranges)	0-75v, 0-150v, 0-300v (1 No. each)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
22	INSTRUMENT MECHANIC	IM-E022	AC moving iron type ammeter (various ranges)	0-1A, 0-5A, 0-10A (1 No. each)	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
23	INSTRUMENT MECHANIC	IM-E023	Wattmeter dynamometer type	0-1.5-3KW, pressure coil rating 5A/10A Analog,Portable type housed in bakelite case	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
24	INSTRUMENT MECHANIC	IM-E024	Watt hour meter induction type 1 ph	AC 1-Phase 2 wire 240v,5-30A, 50 HZ 3200 imp/kwh induction type	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
25	INSTRUMENT MECHANIC	IM-E025	Potentiometer / thermocouple test set	Precision Potentiometer for resistance feeding For RTD transmitter with digital display. Milli volt source for voltage feeding to thermocouple transmitter. Measurement of milli volt and resistance of sensors.Heating source with temperature change and display like muffle furnace or dry block type up to temperature range 6000 or above. Two types(each) of thermocouple and RTD sensors for testing.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
26	INSTRUMENT MECHANIC	IM-E026	Autotransformer 1Ø and 3Ø (1 no. each)	0 to 120 % or above, 5A or above current rating	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
27	INSTRUMENT MECHANIC	IM-E027	Bourdon tube type gauges of various ranges	0-7 kg /Cm² 4 " dial	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
28	INSTRUMENT MECHANIC	IM-E028	Capsule type pressure gauges	0-7 kg /Cm² 4 " dial	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
29	INSTRUMENT MECHANIC	IM-E029	Differential pressure transmitter (pneumatic)	Differential pressure transmitter (pneumatic) Max. Air Supply: 30 psi, Output: 0.2 - 1.0 Kg/cm2, S.S. Orifice plate assembly, Pneumatic PID controller, control valve,actuator, valve positioner, rotameter, air regulator. To study the working principal of pneumatic DP Transmitter and functioning of it with working.	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1