

# PROCUREMENT PLAN YEAR-I

Package I & II



**Procurement Plan under Strive Scheme Instrument Mechanic & Electronics Mechanic**

Items to be procured in Year-1

Package-1

| S. No. | Name of the item  | Specifications   | Trade/Course for which it is required | Total required | Rate per Unit | Total | Method of procurement |
|--------|---|--|---------------------------------------|----------------|---------------|-------|-----------------------|
| 1.     | Watch maker screw driver (set of six)                           | Minimum to maximum   | Inst.Mech                             | 54 NO'S        | 0.005         | 0.27  | shopping              |
| 2.     | File hand smooth  | 200 mm   | Inst.Mech                             | 54 NO'S        | 0.003         | 0.162 | shopping              |
| 3.     | File Flat 2nd cut   | 200 mm   | Inst.Mech                             | 54 NO'S        | 0.003         | 0.162 | shopping              |
| 4.     | Universal scribing block  | 250 mm plier   | Inst.Mech                             | 02 Nos.        | 0.015         | 0.03  | shopping              |
| 5.     | Punch frame set   | 2 mm (No of six Set)   | Inst.Mech                             | 02 Sets.       | 0.008         | 0.016 | shopping              |
| 6.     | Flaring tool set  | (No of six set) up to 20 mm  | Inst.Mech                             | 01 set.        | 0.015         | 0.015 | shopping              |
| 7.     | Combination set   | different sizes  | Inst.Mech                             | 01 set.        | 0.05          | 0.05  | shopping              |
| 8.     | Standard wire gauge   | Inch/mm  | Inst.Mech                             | 01 No.         | 0.004         | 0.004 | shopping              |
| 9.     | Radius gauge leaf type  | 1 to 15 mm   | Inst.Mech                             | 01 No.         | 0.006         | 0.006 | shopping              |
| 10.    | Tube cutter   |  | Inst.Mech                             | 01 No.         | 0.008         | 0.008 | shopping              |
| 11.    | Tube bender   |  | Inst.Mech                             | 01 No.         | 0.015         | 0.015 | shopping              |
| 12.    | Pinching tool   |  | Inst.Mech                             | 01 No.         | 0.015         | 0.015 | shopping              |
| 13.    | Soldering station (temp. controlled) with necessary accessories | With stand and changeable 5 bits   | Inst.Mech                             | 02 Nos.        | 0.04          | 0.08  | shopping              |
| 14.    | Vice bench jaw  | 100 mm   | Inst.Mech                             | 04 Nos.        | 0.02          | 0.08  | shopping              |
| 15.    | Pointer extractors (puller)                                     | 12"  | Inst.Mech                             | 04 Nos.        | 0.06          | 0.24  | shopping              |
| 16.    | Gauge blocks  |  | Inst.Mech                             | 03 Nos.        | 0.01          | 0.03  | shopping              |
| 17.    | Monochromatic light source                                      |  | Inst.Mech                             | 01 No.         | 0.15          | 0.15  | shopping              |
| 18.    | Wire type strain gauge (load cell/cantilever beam)              |  | Inst.Mech                             | 04 Nos.        | 0.02          | 0.08  | shopping              |
| 19.    | Load cells of various ranges                                    |  | Inst.Mech                             | 02 Nos.        | 0.015         | 0.03  | shopping              |
| 20.    | Electrical tachometer   |  | Inst.Mech                             | 01 Nos.        | 0.03          | 0.03  | shopping              |
| 21.    | Digital type tachometer   | 0-10000 Counts   | Inst.Mech                             | 01 No.         | 0.04          | 0.04  | shopping              |
| 22.    | Stroboscope   |  | Inst.Mech                             | 01 No.         | 0.25          | 0.25  | shopping              |
| 23.    | Digital panel meters  | 3 ½" digit LED display   | Inst.Mech                             | 06 nos.        | 0.05          | 0.3   | shopping              |
| 24.    | Digital line frequency indicator                                | 3 ½" digit LED display   | Inst.Mech                             | 02 nos.        | 0.06          | 0.12  | shopping              |
| 25.    | D.C. regulated power supply                                     | (+/-15V / +/- 30V) 0-3 Amp display for voltage and current. 0-30 V , 0-2 A, dual power supply with digital display   | Inst.Mech                             | 02 nos.        | 0.25          | 0.5   | shopping              |
| 26.    | Digital multi signal generator                                  | ( 1 MHz) with frequency counter ( 8 digit or 10 MHz)   | Inst.Mech                             | 01 No.         | 0.2           | 0.2   | shopping              |
| 27.    | Digital function generator                                      | 1 MHz -10 MHz Function-Pulse - Modulation Generator with Built in 40MHz Frequency Counter  | Inst.Mech                             | 01 No.         | 0.3           | 0.3   | shopping              |
| 28.    | Pulse generator   |  | Inst.Mech                             | 01 No.         | 0.3           | 0.3   | shopping              |
| 29.    | Digital insulation tester                                       |  | Inst.Mech                             | 01 No.         | 0.25          | 0.25  | shopping              |
| 30.    | Analog dual trace CRO   | 30MHz, dual trace  | Inst.Mech                             | 01 No.         | 0.5           | 0.5   | shopping              |
| 31.    | DSO   | 4 Channel, 70MHz Real Time Sampling 1G Samples/Sec, more than 20 Mpts Memory with PC Interface USB, LAN and math function includes +, -, FFT, differential, integral, abs, log and advanced triggering I2C, SPI, UART etc. | Inst.Mech                             | 01 No.         | 0.2           | 0.2   | shopping              |



|     |   |   |           |             |        |       |          |
|-----|---|---|-----------|-------------|--------|-------|----------|
| 32. | Trainer on basic digital electronics<br>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 | Inst.Mech | 01 No.      | 0.15   | 0.15  | shopping |
| 33. | Trainers on power supplier's halfwave rectifier, full wave rectifier  | 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.  | Inst.Mech | 01 No. each | 0.2    | 0.2   | shopping |
| 34. | DC moving coil milli ammeters (various ranges)  |   | Inst.Mech | 03 Nos.     | 0.008  | 0.024 | shopping |
| 35. | Centre zero galvanometers   |   | Inst.Mech | 02 Nos.     | 0.015  | 0.03  | shopping |
| 36. | AC moving iron type voltmeter (various ranges)  |   | Inst.Mech | 03 Nos.     | 0.012  | 0.036 | shopping |
| 37. | AC moving iron type ammeter (various ranges)  |   | Inst.Mech | 03 Nos.     | 0.012  | 0.036 | shopping |
| 38. | Wattmeter dynamometer type  |   | Inst.Mech | 1 no.       | 0.015  | 0.015 | shopping |
| 39. | Watt hour meter induction type 1 ph   |   | Inst.Mech | 2 no        | 0.0075 | 0.015 | shopping |



|     |  |   |           |            |       |       |          |
|-----|--|---|-----------|------------|-------|-------|----------|
| 40. | 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. | Inst.Mech | 1 no.      | 0.1   | 0.1   | shopping |
| 41. | Autotransformer 1Ø and 3Ø  | 0 to 120 % or above, 5A or above current rating   | Inst.Mech | 1 no. each | 0.08  | 0.08  | shopping |
| 42. | Bourdon tube type gauges of various ranges   | 0-7 kg /Cm <sup>2</sup> 4 " dial  | Inst.Mech | 5 nos.     | 0.02. | 0.1   | shopping |
| 43. | Capsule type pressure gauges   | 0-7 kg /Cm <sup>2</sup> 4 " dial  | Inst.Mech | 3 nos.     | 0.015 | 0.045 | shopping |
| 44. | Differential pressure transmitter (pneumatic)  | Differential pressure transmitter (pneumatic) Max. Air Supply: 30 psi, Output: 0.2 - 1.0 Kg/cm <sup>2</sup> , 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.  | Inst.Mech | 1no.       | 0.4   | 0.4   | shopping |
| 45. | Differential pressure transmitter (electronic - HART/field bus type)   | Differential pressure transmitter with HART/field bus facility, S.S. Orifice plate assembly, S.S. tank, S.S. body pump, control valve, actuator, valve positioner, rota meter, air regulator. To study the working principal of DP Transmitter and functioning of it with HART/field bus on suitable frame structure.   | Inst.Mech | 1 no.      | 2     | 2     | shopping |
| 46. | Diaphragm type pressure gauges of various ranges   | Glycerin filled Various Type having dial size 4" or above, any four ranges, connection 1/8" or 3/8"   | Inst.Mech | 2 nos.     | 0.05  | 0.1   | shopping |
| 47. | Pressure transducers training kits Potentiometer Capacitive Reluctive strain gauge LVDT Load cell Servo type Piezo resistive | All transducers having range such that change in output of each can be identify. With Small compressor.   | Inst.Mech | 1 no. each | 0.15  | 0.15  | shopping |



|     |   |   |           |        |      |      |          |
|-----|---|---|-----------|--------|------|------|----------|
| 48. | Experimental set up for pressure measurement consisting of air compressor pressure vessel pressure transmitter controller recorder and final control element, computer i.e. closed loop system or full scope system i.e. pressure instrumentation process control trainer / simulator | Pressure transmitter 0-1 bar or above. Auto- Manual PID controller with digital display for PV, set point (with three term facility), PC communication facility. Pneumatic control valve, I/P converter with regulator and gauges, pressure vessel, circular chart recorder, SCADA software with necessary fitting to run the set up. | Inst.Mech | 1 no.  | 0.5  | 0.5  | shopping |
| 49. | HART device communicator and calibrator   | Microprocessor base HART Communicator calibrator with Full multi-bus communicator for HART, Touch Screen LCD display, for calibration of various HART transmitters.   | Inst.Mech | 1 No.  | 3.7  | 3.7  | shopping |
| 50. | Pneumatic calibrator  | For calibration of vacuum gauges, pressure gauges, pressure switches, pressure transmitters, etc. Alpha Numeric LCD/LED Display, Switch Test Facility, Zero setting, Units Selectable, up to 25 Ma Measurement & Voltage Measurements and Pneumatic hand pump for Pressure & Vacuum. - 0.85 to 10 Bar Range, Rechargeable Battery     | Inst.Mech | 1 no.  | 0.75 | 0.75 | shopping |
| 51. | Pressure switches of various ranges   |   | Inst.Mech | 4 nos. | 0.05 | 0.2  | shopping |
| 52. | Low pressure measuring gauges such as thermal conductivity gauge, McLeod gauge  | Digital display of pirani type (thermal conductivity type) Vacuum measurement, mercury in glass tube ,McLeod gauge with inclination provision, close vessel for create vacuum, fitted on frame work.  | Inst.Mech | 1 no.  | 0.2  | 0.2  | shopping |



|     |                              |  |           |             |       |       |          |
|-----|------------------------------|--|-----------|-------------|-------|-------|----------|
| 53. | P to I and I to P converters | <p>P/I converter :<br/> Input : 0 – 15 PSI or above<br/> Output : 4 – 20 mA Span and zero adjustment facility.<br/> With Air filter regulator : 0- 2 Kg/cm<sup>2</sup> range with pressure indicator<br/> Digital Ammeter :0 – 20 mA range (for output read out)<br/> I/P converter : output : 3 – 15 PSI input put : 4 – 20 mA Span and zero adjustment facility.<br/> Air supply : 25 PSI Air filter regulator : 0- 2 Kg/cm<sup>2</sup> range with pressure indicator<br/> Digital Ammeter :0 – 20 mA range or above<br/> Variable Current source: 4- 20 mA<br/> Pressure gauge : 2 kg/cm<sup>2</sup>, having dial 150 mm dia or above</p> | Inst.Mech | 1 no. each. | 0.2   | 0.2   | shopping |
| 54. | Vacuum tester with pump      | <p>Two stage vacuum pump 50 LPM &amp; Ultimate Vacuum 0.05 mm of Hg,<br/> Vacuum Tester based on High Frequency Spark Unit (Tesla), 230 Volt supply, 20 kV High Frequency Output, MS Vacuum Chamber mounted on stand.</p>  | Inst.Mech | 1 no. each. | 0.1   | 0.1   | shopping |
| 55. | Vacuum gauge                 | <p>Vacuum gauge with dial 6 inch or above. Sensor SS made. Precision high accuracy.</p>  | Inst.Mech | 1 no.       | 0.015 | 0.015 | shopping |
| 56. | Magnetic flow meter          | <p>Magnetic flow meter with HART communication facility &amp; 4-20 mA output along with SS sump tank, SS measuring tank, SS body pump and with required all fittings accessories and mounted on stand.</p>   | Inst.Mech | 1 no.       | 0.25  | 0.25  | shopping |
| 57. | Vortex flow meter            | <p>SS sump tank, SS measuring tank, SS body pump, flow meter with HART Communication &amp; 4-20 mA output and with required all fittings accessories and mounted on stand.</p>   | Inst.Mech | 1 no.       | 0.45  | 0.45  | shopping |



|     |   |  |           |          |     |     |          |
|-----|---|--|-----------|----------|-----|-----|----------|
| 58. | Flow control loop set with flow controller recorder, D.P. transmitter, receiver, unit control valve and impulse line, computer complete experimental set- up for flow measurement | DP transmitter with HART, Auto- Manual PID controller (with three term facility), communication facility, control valve, I/P converter, S.S. sump tank, rotameter, circular chart recorder, SCADA software with necessary fitting to run the set up.                                     | Inst.Mech | 1 no.    | 2   | 2   | shopping |
| 59. | Experimental closed loop set up for solid flow measurement and Control with storage vessel, hopper, solid flow sensor, controller, Recorder and final control element             | Microwave based Solid flow sensor, Hopper, collection tray, control valve/FCE, PID controller, electronic circuit chart recorder, current meter, and seamless data transfer unit. Complete working set up mounted on suitable frame structure.   | Inst.Mech | 1 no.    | 0.5 | 0.5 | shopping |
| 60. | Coriolis mass flow meter  | Coriolis mass flow meter with HART communication facility, output 4-20 mA along with sump Tank, Measuring Tank, Pump, and accessories with stand, mounted on suitable frame structure.   | Inst.Mech | 1 no.    | 1.7 | 1.7 | shopping |
| 61. | Flow nozzle   | SS Flow nozzle flange Type mounting with manifold assembly, sump tank, measuring tank, pump, mercury manometer, mounted on suitable frame structure.   | Inst.Mech | 1 no.    | 0.3 | 0.3 | shopping |
| 62. | Static pressure and air purge type level indicator  | Static pressure and air purge Level Indicator with glass tube, SS purge pipe. Fixed on tank having minimum height of 1000 mm height. Static Pressure gauge air purge gauge with 6 inch dial and isolation valves. FR unit for air supply and reference bubble column used for air purge. | Inst.Mech | 1no.     | 1   | 1   | shopping |
| 63. | Level transmitter (interface) (HART/Field bus/profibus compatible)  | To study the Interface between two Different Immiscible Medium. Min. measuring range 1100 mm, SS sump tank, suitable measuring tank, S.S. body pump, with hardware and fitting to understand level Interface measurement.  | Inst.Mech | 1no.each | 0.5 | 0.5 | shopping |



|     |   |  |           |             |       |       |          |
|-----|---|--|-----------|-------------|-------|-------|----------|
| 64. | Level control set up with level transmitters level recorder Controller & control valve complete Experimental set up or level simulator  | Level transmitter, Auto- Manual PID controller (with three term facility), communication facility, control valve, I/P converter, S.S. sump tank, measuring tank of suitable height with sight glass, S.S. body pump, circular chart recorder, SCADA software with necessary fitting to run the setup, mounted on suitable frame structure.   | Inst.Mech | 1 no.       | 1     | 1     | shopping |
| 65. | Allen key Set(Metric)   | Set of Six   | Inst.Mech | 02 sets.    | 0.01  | 0.02  | shopping |
| 66. | Allen key Set(English)  | Set of Six   | Inst.Mech | 02 sets.    | 0.01  | 0.02  | shopping |
| 67. | Lap top (for convenient to field bus system/control system)   |  | Inst.Mech | 02 Nos.     | 0.5   | 1     | shopping |
| 68. | Licensed operating system (latest version)  |  | Inst.Mech | 02 Nos.     | 0.5   | 1     | shopping |
| 69. | Latest Office (licensed version)  |  | Inst.Mech | 01 No.      | 0.4   | 0.4   | shopping |
| 70. | LCD multimedia projector  |  | Inst.Mech | 01 No.      | 0.3   | 0.3   | shopping |
| 71. | Broad band internet connection  |  | Inst.Mech | 01 No.      | 0.04  | 0.04  | shopping |
| 72. | Printer (Scan/copy)   |  | Inst.Mech | 01 No.      | 0.3   | 0.3   | shopping |
| 73. | Different type of control valves such as gate valves, globe valves, Ball valves, diaphragm valves, butterfly valves etc. eclectically actuated, pneumatic actuated and hydraulic actuated | Control valves such as gate valves, globe valves, Ball valves, diaphragm valves, butterfly valves etc. Each valve is actuated with any one type of eclectically actuated/ pneumatic actuated/ hydraulic actuated (3 types of actuations should available with any one type of valve) with working condition and mounted on MS fabricated Stand. With suitable source and fittings. | Inst.Mech | 1 no. each. | 0.7   | 0.7   | shopping |
| 74. | Dual DC regulated power supply  | 30-0-30 V, 2 Amps  | ELE. MECH | 4           | 0.06  | 0.24  | Shopping |
| 75. | CRO Dual Trace  | 20 MHz (component testing facilities)  | ELE. MECH | 2           | 0.35  | 0.7   | Shopping |
| 76. | Signal Generator with Digital Display for Frequency Amplitude   | 10 Hz to 100 Khz, 50/600 Ohms (output impedance)   | ELE. MECH | 2           | 0.15  | 0.3   | Shopping |
| 77. | Battery Charger   | 0 - 6 - 9 - 12 - 24 - 48 V, 30 Amp   | ELE. MECH | 1           | 0.03  | 0.03  | Shopping |
| 78. | Clamp meter   | 0 - 10 A   | ELE. MECH | 2           | 0.02  | 0.04  | Shopping |
| 79. | Function generator ( DDS Technology (Sine, Square, Triangle, Ramp, Pulse, Serial Data, TTL and Modulation.)in 40MHz Frequency Counter   | 1 mHz - 10 MHz Function- Pulse - Modulation Generator with Built   | ELE. MECH | 1           | 0.35  | 0.35  | Shopping |
| 80. | Dimmer starter  | 3 Amps   | ELE. MECH | 2           | 0.015 | 0.03  | Shopping |
| 81. | Autotransformer   | 15 Amps  | ELE. MECH | 2           | 0.013 | 0.026 | Shopping |
| 82. | Analog Component Trainer  | Breadboard for Circuit design with necessary DC /AC power supply: Sine, Square, Triangle Modulating Signal Generator and Simulation Software   | ELE. MECH | 4           | 0.15  | 0.6   | Shopping |



|      |   |   |           |    |         |        |          |
|------|---|---|-----------|----|---------|--------|----------|
| 83.  | Milli Ammeter   | (AC) 0 – 200 Ma   | ELE. MECH | 2  | 0.014   | 0.028  | Shopping |
| 84.  | Milli Ammeter   | (DC) 0 – 500 mA   | ELE. MECH | 2  | 0.014   | 0.028  | Shopping |
| 85.  | Op Amp trainer  | Semi automatic  | ELE. MECH | 2  | 0.04    | 0.08   | Shopping |
| 86.  | 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: (TTL), Seven Segment Display, Teaching Simulation software | ELE. MECH | 3  | 0.3     | 0.9    | Shopping |
| 87.  | Digital IC Tester   | M.M.E   | ELE. MECH | 1  | 0.025   | 0.025  | Shopping |
| 88.  | 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.   | ELE. MECH | 6  | 0.25    | 1.5    | Shopping |
| 89.  | 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.   | H.P   | ELE. MECH | 4  | 0.4     | 1.6    | Shopping |
| 90.  | 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.                 | ELE. MECH | 2  | 0.25    | 0.5    | Shopping |
| 91.  | Sensor Trainer Kit Containing following Sensors<br>1. Thermocouple<br>2. RTD<br>3. Load Cell/ Strain Gauge<br>4. LVDT<br>5. Smoke Detector Sensors<br>6. Speed Sensor<br>7. Limit Switch<br>8. Photo sensors<br>9. Optocoupler<br>10. Proximity Sensor                  | Graphical touch LCD with inbuilt processor for viewing the output waveforms, In built DAQ, and standard processing circuits like Inverting , Non – Inverting , Power, Current , Instrumentation               | ELE. MECH | 2  | 0.12    | 0.24   | Shopping |
| 92.  | LED TV (Trainer kit ) 20-inch full HD LED Color Television, PAL/ NTSC video formats, complete block diagram of a LED TV system , Study board indicating various sections of LED TV along with the test points and switch faults Trouble shooting in different sections. | Differential Amplifier, F/V,V/F,V/I,I/V Converter, Sensors :RTD,NTC,Thermistor,LM35 Thermocouple, Gas(Smoke) Sensor, Load cell, LVDT Sensor, Speed Sensor   | ELE. MECH | 1  | 0.25    | 0.25   | Shopping |
| 93.  | LED TV  | (21")   | ELE. MECH | 2  | 0.25    | 0.5    | Shopping |
| 94.  | Connecting screwdriver  | 10 X 100 mm   | ELE. MECH | 20 | 0.00075 | 0.015  | Shopping |
| 95.  | Neon tester   | 500 V.  | ELE. MECH | 6  | 0.0003  | 0.0018 | Shopping |
| 96.  | Screw driver set  | Set of 7  | ELE. MECH | 10 | 0.0015  | 0.015  | Shopping |
| 97.  | Insulated combination pliers  | 150 mm  | ELE. MECH | 10 | 0.0015  | 0.015  | Shopping |
| 98.  | Soldering iron  | 25 Watt, 240 Volt   | ELE. MECH | 20 | 0.0015  | 0.03   | Shopping |
| 99.  | Electrician knife   | 100mm (clamp)   | ELE. MECH | 12 | 0.0005  | 0.006  | Shopping |
| 100. | Tweezers  | 150mm   | ELE. MECH | 20 | 0.00075 | 0.015  | Shopping |
| 101. | Digital Multimeter  | (3 3/4 digit) ,4000 Counts  | ELE. MECH | 14 | 0.002   | 0.028  | Shopping |



|      |   |   |           |    |        |        |          |
|------|---|---|-----------|----|--------|--------|----------|
| 102. | Soldering Iron Changeable bits  | 15 Watt, 240 Volt   | ELE. MECH | 12 | 0.002  | 0.024  | Shopping |
| 103. | De- soldering pump electrical heated, manual operators  | 230 V, 40 W   | ELE. MECH | 10 | 0.0015 | 0.015  | Shopping |
| 104. | Precision set of screw drivers  | T5, T6, T7  | ELE. MECH | 2  | 0.0025 | 0.005  | Shopping |
| 105. | Tweezers – Bend tip   | 2-3mm, 8*10   | ELE. MECH | 2  | 0.0015 | 0.003  | Shopping |
| 106. | Steel measuring tape  | 3 meter   | ELE. MECH | 4  | 0.0015 | 0.006  | Shopping |
| 107. | Tools makers vice   | 100mm (clamp)   | ELE. MECH | 1  | 0.002  | 0.002  | Shopping |
| 108. | Tools maker vice  | 50mm (clamp)  | ELE. MECH | 1  | 0.0015 | 0.0015 | Shopping |
| 109. | Crimping tool (pliers)  | 7 in 1  | ELE. MECH | 2  | 0.01   | 0.02   | Shopping |
| 110. | Magneto spanner   | set 8 Spanners  | ELE. MECH | 2  | 0.004  | 0.008  | Shopping |
| 111. | File flat bastard   | 200 mm  | ELE. MECH | 2  | 0.0015 | 0.003  | Shopping |
| 112. | Plier - Flat Nose   | 150 mm  | ELE. MECH | 4  | 0.0015 | 0.006  | Shopping |
| 113. | Round Nose pliers   | 100 mm  | ELE. MECH | 4  | 0.0016 | 0.0064 | Shopping |
| 114. | Scriber straight  | 150 mm  | ELE. MECH | 2  | 0.0015 | 0.003  | Shopping |
| 115. | Hammer ball pen   | 500 grams   | ELE. MECH | 1  | 0.0015 | 0.0015 | Shopping |
| 116. | Allen key   | set (Hexagonal -set of  | ELE. MECH | 1  | 0.0025 | 0.0025 | Shopping |
| 117. | Tubular box spanner Set - 6 - 32 mm   | 9) 1 - 12 mm, set of 24 Keys  | ELE. MECH | 1  | 0.003  | 0.003  | Shopping |
| 118. | Magnifying lenses   | 75 mm   | ELE. MECH | 2  | 0.002  | 0.004  | Shopping |
| 119. | Continuity tester   | 1PH 50ma  | ELE. MECH | 6  | 0.0015 | 0.009  | Shopping |
| 120. | Hacksaw frame adjustable  | 300 mm  | ELE. MECH | 2  | 0.0025 | 0.005  | Shopping |
| 121. | Chisel - Cold - Flat  | 10 mm X 150 mm  | ELE. MECH | 1  | 0.0015 | 0.0015 | Shopping |
| 122. | Scissors  | 200mm   | ELE. MECH | 1  | 0.0012 | 0.0012 | Shopping |
| 123. | Handsaw 450mm Hand Saw  | 450 mm  | ELE. MECH | 1  | 0.0018 | 0.0018 | Shopping |
| 124. | Hand Drill Machine Electric with Hammer Action  | 13 mm   | ELE. MECH | 2  | 0.02   | 0.04   | Shopping |
| 125. | First aid kit   |   | ELE. MECH | 1  | 0.004  | 0.004  | Shopping |
| 126. | Bench Vice  | 150 MM  | ELE. MECH | 2  | 0.008  | 0.016  | Shopping |
| 127. | DC Regulated Variable Programmable DC Power Supply  | 0-30V/3A  | ELE. MECH | 1  | 0.08   | 0.08   | Shopping |
| 128. | LCR meter (Digital) Handheld  | 1ph ,230v AC  | ELE. MECH | 1  | 0.012  | 0.012  | Shopping |
| 129. | Analog multimeter   | H-159,5*w-129*D-41.5mm  | ELE. MECH | 4  | 0.006  | 0.024  | Shopping |
| 130. | Rheostats various values and ratings  | 220-240v,SS   | ELE. MECH | 2  | 0.0085 | 0.017  | Shopping |
| 131. | 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 |   | ELE. MECH | 4  | 0.4    | 1.6    | Shopping |
| 132. | Laptops latest configuration  | HP,i3   | ELE. MECH | 1  | 0.35   | 0.35   | Shopping |
| 133. | Laser jet Printer   | 1020 Laser printer  | ELE. MECH | 1  | 0.15   | 0.15   | Shopping |
| 134. | INTERNET BROADBAND CONNECTION   | BSNL  | ELE. MECH | 1  | 0.05   | 0.05   | Shopping |
| 135. | 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.                           | ELE. MECH | 1  | 0.3    | 0.3    | Shopping |
| 136. | DSO   | (colour) 4 Channel , 50MHz Real Time Sampling 1G Samples/Sec, 12 Mpts Memory with PC Interface USB, LAN and math function includes +, -, FFT, differential, integral, abs, log etc. | ELE. MECH | 1  | 0.3    | 0.3    | Shopping |



|      |  |  |           |   |                    |      |                |
|------|--|--|-----------|---|--------------------|------|----------------|
| 137. | AC Motor Trainer Kit   | ¼ HP motor Single Phase<br>Contactors Relays MCB DOL<br>Starter  | ELE. MECH | 1 | 0.08               | 0.08 | Shopping       |
| 138. | PAM, PPM, PWM trainer kit  | 5v Dc, 20KHZ   | ELE. MECH | 2 | 0.2                | 0.4  | Shopping       |
| 139. | AM/FM Commercial radio<br>receivers                                  | IC-R6  | ELE. MECH | 2 | 0.04               | 0.08 | Shopping       |
| 140. | Application kits for<br>Microcontrollers 6 different<br>applications | 1. Input Interface : 4x4<br>Matrix Keypad, ASCII Key<br>PAD, Four Input Switch<br>2. Display Module 16X2<br>LCD, Seven Segment, LED<br>Bar Graph<br>3. ADC/DAC Module with<br>most popular DC/DAC0808<br>4. PC Interface: RS232 &<br>USB<br>5. Motor Drive: DC, Servo,<br>Stepper<br>6. DAQ: Data Acquisition to<br>sense different sensors<br>signals | ELE. MECH | 1 | 0.15               | 0.15 | Shopping       |
| 141. | Fiber optic communication<br>trainer                                 | Full Duplex Analog & Digital<br>Trans-receiver with 660nm &<br>950nm, Noise Generator with<br>variable gain, Four Seven<br>Segment Display BER<br>Counter, Eye Pattern.  | ELE. MECH | 2 | 0.15               | 0.3  | Shopping       |
| 142. | Seven segment DPM trainer  | 230v   | ELE. MECH | 6 | 0.12               | 0.72 | Shopping       |
|      |  |  |           |   | <b>Grand Total</b> |      | <b>37.9572</b> |

*V. Sreenivasulu Reddy*  
Signature of  
Secretary/Principal

*S. S. S. S.*  
Signature of  
I M C Chairman

PRINCIPAL  
Industrial Training Institute  
Bhimavaram, W.G.O.

*[Signature]*



**Procurement Plan under Strive Scheme Electrician, Mechanic Ref & AC, Welder, Fitter, D'man Civil & Short term Courses**

**Items to be procured in Year-1**

**Package-2**

| Sl. NO | Name of Items   | Specifications                    | Trade /course for which it is required | quantity Required | Approximate cost of each item | Total COST | Method of Procurement |
|--------|---|-----------------------------------|--|-------------------|-------------------------------|------------|-----------------------|
| 1.     | Measuring Steel Tape                                    | 5 meter                           | ELECTRICIAN                            | 84                | 0.0015                        | 0.126      | Shopping              |
| 2.     | Combination Plier Insulated                             | 200 mm                            | ELECTRICIAN                            | 84                | 0.0022                        | 0.1848     | Shopping              |
| 3.     | Screw Driver Insulated                                  | 4mm X 150 mm, Diamond Head        | ELECTRICIAN                            | 84                | 0.0025                        | 0.21       | Shopping              |
| 4.     | Heavy Duty Screw Driver insulated                       | 5mm X 200 mm                      | ELECTRICIAN                            | 84                | 0.003                         | 0.252      | Shopping              |
| 5.     | Electrician Screw Driver thin stem insulated handle     | 4mm X 250 mm                      | ELECTRICIAN                            | 54                | 0.0035                        | 0.189      | Shopping              |
| 6.     | Knife Double Bladed Electrician                         | 100 mm                            | ELECTRICIAN                            | 68                | 0.00025                       | 0.017      | Shopping              |
| 7.     | Neon Tester   | 500 V                             | ELECTRICIAN                            | 80                | 0.0015                        | 0.12       | Shopping              |
| 8.     | Steel Rule Graduated both in Metric and English Unit    | 300 mm with precision of 1/4th mm | ELECTRICIAN                            | 80                | 0.0015                        | 0.12       | Shopping              |
| 9.     | Hammer, cross peen with handle                          | 250 grams                         | ELECTRICIAN                            | 84                | 0.0026                        | 0.2184     | Shopping              |
| 10.    | Pincer  | 150 mm                            | ELECTRICIAN                            | 8                 | 0.0005                        | 0.004      | Shopping              |
| 11.    | Spanner Adjustable drop forged, SS                      | 150 mm & 300mm                    | ELECTRICIAN                            | 4                 | 0.001                         | 0.004      | Shopping              |
| 12.    | Blow lamp brass   | 0.5 ltr                           | ELECTRICIAN                            | 4                 | 0.005                         | 0.02       | Shopping              |
| 13.    | Chisel firmer with wooden Handle                        | 6 mm X 200 mm                     | ELECTRICIAN                            | 4                 | 0.0015                        | 0.006      | Shopping              |
| 14.    | Grease Gun  | 0.5 ltr. Capacity                 | ELECTRICIAN                            | 2                 | 0.008                         | 0.016      | Shopping              |
| 15.    | Bradawl   |                                   | ELECTRICIAN                            | 4                 | 0.0008                        | 0.0032     | Shopping              |
| 16.    | Pully Puller with 3 legs                                | 150 mm & 300mm                    | ELECTRICIAN                            | 2                 | 0.012                         | 0.024      | Shopping              |
| 17.    | Bearing Puller (inside and outside)                     | 200 mm                            | ELECTRICIAN                            | 1                 | 0.012                         | 0.012      | Shopping              |
| 18.    | Pipe vice Cast Iron with hardened jaw open type         | 100 mm                            | ELECTRICIAN                            | 3                 | 0.015                         | 0.045      | Shopping              |
| 19.    | Scissors blade, SS                                      | 200mm                             | ELECTRICIAN                            | 8                 | 0.001                         | 0.008      | Shopping              |
| 20.    | Scissors blade, SS                                      | 150 mm                            | ELECTRICIAN                            | 4                 | 0.0012                        | 0.0048     | Shopping              |
| 21.    | Crimping Tool   | 1.5 sq mm to 16 sq mm             | ELECTRICIAN                            | 4                 | 0.006                         | 0.024      | Shopping              |
| 22.    | Crimping Tool   | 16 sq mm to 95 sq mm              | ELECTRICIAN                            | 4                 | 0.01                          | 0.04       | Shopping              |
| 23.    | Wire Cutter and Stripper                                | 150 mm                            | ELECTRICIAN                            | 8                 | 0.0015                        | 0.012      | Shopping              |
| 24.    | Mallet hard wood  | 0.50 kg                           | ELECTRICIAN                            | 4                 | 0.002                         | 0.008      | Shopping              |
| 25.    | Mallet hard wood  | 0.50 kg                           | ELECTRICIAN                            | 4                 | 0.005                         | 0.02       | Shopping              |
| 26.    | Hammer Extractor type                                   | 250 grams                         | ELECTRICIAN                            | 8                 | 0.0025                        | 0.02       | Shopping              |
| 27.    | Pliers round nose insulated                             | 100 mm                            | ELECTRICIAN                            | 8                 | 0.001                         | 0.008      | Shopping              |
| 28.    | Pliers round nose insulated                             | 150 mm                            | ELECTRICIAN                            | 8                 | 0.001                         | 0.008      | Shopping              |
| 29.    | Tweezers  | 150 mm                            | ELECTRICIAN                            | 2                 | 0.004                         | 0.008      | Shopping              |
| 30.    | Snip Straight and Bent heavy duty                       | 250 mm                            | ELECTRICIAN                            | 8                 | 0.008                         | 0.064      | Shopping              |
| 31.    | Drill hand brace  | 0-100mm                           | ELECTRICIAN                            | 8                 | 0.01                          | 0.08       | Shopping              |
| 32.    | Drill S.S. Twist block                                  | 2 mm, 5 mm and 6 mm set of 3      | ELECTRICIAN                            | 8                 | 0.0045                        | 0.018      | Shopping              |
| 33.    | Plane cutters   | 50 mm X 200mm                     | ELECTRICIAN                            | 4                 | 0.0045                        | 0.018      | Shopping              |
| 34.    | Smoothing cutters                                       | 50 mm X 200mm                     | ELECTRICIAN                            | 8                 | 0.0045                        | 0.036      | Shopping              |
| 35.    | Gauge, wire imperial stainless steel marked in SWG & mm | Wire Gauge - Metric               | ELECTRICIAN                            | 5                 | 0.0025                        | 0.0125     | Shopping              |
| 36.    | File flat   | 200 mm 2nd cut with handle        | ELECTRICIAN                            | 16                | 0.0015                        | 0.024      | Shopping              |
| 37.    | File half round   | 200 mm 2nd cut with handle        | ELECTRICIAN                            | 8                 | 0.0015                        | 0.012      | Shopping              |
| 38.    | File round  | 200 mm 2nd cut with handle        | ELECTRICIAN                            | 8                 | 0.0015                        | 0.012      | Shopping              |
| 39.    | File flat rough   | 150 mm with handle                | ELECTRICIAN                            | 8                 | 0.0015                        | 0.012      | Shopping              |



|     |  |  |             |   |         |         |          |
|-----|--|--|-------------|---|---------|---------|----------|
| 38. | File flat smooth   | 250 mm with handle   | ELECTRICIAN | 4 | 0.0015  | 0.006   | Shopping |
| 39. | File Rasp, half round  | 200 mm bastard with handle                                   | ELECTRICIAN | 8 | 0.0015  | 0.0012  | Shopping |
| 40. | Copper bit soldering iron.   | 0.25 kg  | ELECTRICIAN | 4 | 0.0035  | 0.014   | Shopping |
| 41. | De soldering Gun   | Heat proof nozzle, PVC type, 250mm                           | ELECTRICIAN | 8 | 0.0025  | 0.02    | Shopping |
| 42. | Hand Vice  | 50 mm jaw  | ELECTRICIAN | 8 | 0.0035  | 0.028   | Shopping |
| 43. | Table Vice   | 100 mm jaw   | ELECTRICIAN | 6 | 0.008   | 0.048   | Shopping |
| 44. | Oil Can  | 250 ml   | ELECTRICIAN | 3 | 0.0025  | 0.0075  | Shopping |
| 45. | Contactor & auxiliary contacts   | 3 phase, 415 Volt, 25 Amp with 2 NO and 2 NC                 | ELECTRICIAN | 4 | 0.005   | 0.02    | Shopping |
| 46. | Contactor & auxiliary contacts.  | 3 phase, 415 volt, 32 Amp with 2 NO and 2 NC                 | ELECTRICIAN | 4 | 0.006   | 0.024   | Shopping |
| 47. | Limit Switch   | Limit Switch, Liver operated 2A 500v, 2-contacts             | ELECTRICIAN | 4 | 0.005   | 0.02    | Shopping |
| 48. | Rotary Switch  | 16 A/440v  | ELECTRICIAN | 4 | 0.006   | 0.024   | Shopping |
| 49. | Relay-<br>a. Cut out Relays<br>b. Reverse current<br>c. Over current<br>d. Under voltage | a. 16A, 440V b. 16A, 440V c. 16A, 440V d. 360V-440V          | ELECTRICIAN | 4 | 0.0035  | 0.014   | Shopping |
| 50. | Pin Type, shackle type, egg type & suspension type insulators including hardware fitting |  | ELECTRICIAN | 5 | 0.0045  | 0.0225  | Shopping |
| 51. | Hydrometer   |  | ELECTRICIAN | 1 | 0.0025  | 0.0025  | Shopping |
| 52. | Hand Drill Machine   | 0-6 mm capacity  | ELECTRICIAN | 2 | 0.02    | 0.04    | Shopping |
| 53. | Portable Electric Drill Machine  | 0-12 mm capacity 750w, 240v with chuck and key               | ELECTRICIAN | 1 | 0.012   | 0.12    | Shopping |
| 54. | Load Bank ( Lamp / heater Type)  | 6 KW, 3Ph  | ELECTRICIAN | 2 | 0.003   | 0.06    | Shopping |
| 55. | Brake Test arrangement with two spring balance rating                                    | 0 to 25 kg   | ELECTRICIAN | 2 | 0.002   | 0.004   | Shopping |
| 56. | Laboratory Type Induction Coil   | 1000 W   | ELECTRICIAN | 4 | 0.003   | 0.12    | Shopping |
| 57. | Series Test Lamp   | 230V, 60W  | ELECTRICIAN | 8 | 0.00007 | 0.00056 | Shopping |
| 58. | Knife Switch DPDT fitted with fuse terminals   | 16 Amp   | ELECTRICIAN | 8 | 0.00015 | 0.0012  | Shopping |
| 59. | Knife Switch TPDT fitted with fuse terminals   | 16 Amp/ 440 V  | ELECTRICIAN | 8 | 0.0002  | 0.0016  | Shopping |
| 60. | Miniature Breaker  | 16 amp   | ELECTRICIAN | 4 | 0.00025 | 0.001   | Shopping |
| 61. | Earth Plate  | 60cm X 60cm X 3.15mm Copper Plate 60cm X 60cm X 6mm GI Plate | ELECTRICIAN | 2 | 0.018   | 0.036   | Shopping |
| 62. | Earth Electrode  | Primary Electrode 100x28x3.2 5mm Secondary Cu Strip 20x5mm   | ELECTRICIAN | 2 | 0.005   | 0.01    | Shopping |
| 63. | MCCB   | 100Amps, Triple pole   | ELECTRICIAN | 2 | 0.003   | 0.006   | Shopping |
| 64. | ELCB and RCCB  | 25Amps, double pole and 25Amps, double pole, IΔn 30 mA       | ELECTRICIAN | 2 | 0.005   | 0.01    | Shopping |
| 65. | Fuses  | HRC  | ELECTRICIAN | 8 | 0.0025  | 0.02    | Shopping |
| 66. | Rheostat (Sliding type)  | 0 - 25 Ohm, 2 Amp  | ELECTRICIAN | 2 | 0.012   | 0.024   | Shopping |
| 67. |  | 0 - 300 Ohm, 2 Amp   | ELECTRICIAN | 2 | 0.012   | 0.024   | Shopping |
| 68. |  | 0 - 1 Ohm, 10Amp   | ELECTRICIAN | 2 | 0.012   | 0.024   | Shopping |
| 69. |  | 0 - 10 Ohm, 5 Amp  | ELECTRICIAN | 2 | 0.012   | 0.024   | Shopping |



|      |   |   |             |         |         |         |          |
|------|---|---|-------------|---------|---------|---------|----------|
| 70.  | Capacitors  | Electrolytic Ceramic Polyester film Variable Dual run   | ELECTRICIAN | 4       | 0.003   | 0.012   | Shopping |
| 71.  | Bus bar with brackets   | 1 mtr each  | ELECTRICIAN | 6       | 0.005   | 0.03    | Shopping |
| 72.  | Rubber mat  | 2' x 4' x 1"  | ELECTRICIAN | 4       | 0.005   | 0.02    | Shopping |
| 73.  | Electrician Helmet  | Yellow Colour   | ELECTRICIAN | 4       | 0.006   | 0.024   | Shopping |
| 74.  | RCC Pole with accessories (MS angle iron, 'C' clamp, stay insulator etc.) and materials | 6 Mtr   | ELECTRICIAN | 2       | 0.05    | 0.1     | Shopping |
| 75.  | Safety Belt   | Standard quality  | ELECTRICIAN | 4       | 0.025   | 0.1     | Shopping |
| 76.  | Ohm Meter; Series Type & Shunt Type ,portable box type                                  | 50/2000-ohm analog  | ELECTRICIAN | 4       | 0.006   | 0.024   | Shopping |
| 77.  | Digital Multi Meter   | DC 200mv -1000v,0 - 10A & AC 200mv- 750v , 0- 10A, resistance 0-20 MΩ and 3 1/2 digit                         | ELECTRICIAN | 17      | 0.004   | 0.068   | Shopping |
| 112. | Oxy-acetylene welding set complete  | cylinders, regulators welding torches with difference nozzles   | MECH R & AC | 1 no.   | 0.4567  | 0.4567  | Shopping |
| 113. | Dry N <sub>2</sub> cylinder   | 2 stage regulator or commercial N <sub>2</sub> in cylinder with drier unit and 2 stage regulator & meter cube | MECH R & AC | 1 no's  | 0.95745 | 0.95745 | Shopping |
| 114. | Cassette Air conditioner  | 4500 kcal/hr  | MECH R & AC | 1 no.   | 0.93184 | 0.93184 | Shopping |
| 115. | Fan coil unit   | with water valves (2 & 3 way)   | MECH R & AC | 1 no.   | 0.98725 | 0.98725 | Shopping |
| 116. | Shell and tube, DX chillers (small)   | 5 Ton with Cu tubing only   | MECH R & AC | 1 no    | 0.385   | 0.385   | Shopping |
| 117. | Circulating water pump (small)  | 0.5 H.P with stainless steel tank capacity 20 liters within let/ outlet provision.                            | MECH R & AC | 1 no.   | 0.1159  | 0.1159  | Shopping |
| 118. | Display Cabinet   | 2 ton capacity  | MECH R & AC | 1 no's  | 0.3456  | 0.3456  | Shopping |
| 119. | Water dispenser bubble type (Hot and Cold)  | 2.5 to 3ltr. Delivery capacity per hour   | MECH R & AC | 1 no's  | 0.0969  | 0.0969  | Shopping |
| 121. | Package A/C   | 5 ton capacity, Air cooled type with open type compressor reciprocating type                                  | MECH R & AC | 1 no's  | 2.5     | 2.5     | Shopping |
| 122. | CAR AC tutorial model   |   | MECH R & AC | 1 no's  | 0.365   | 0.365   | Shopping |
| 123. | Split A/C ( inverter technology)  | 1.5 TR  | MECH R & AC | 2 no's  | 0.425   | 0.425   | Shopping |
| 124. | Absorption system   | Small size  | MECH R & AC | 1 no's  | 1       | 1       | Shopping |
| 125. | Automatic ice cube m/c  | 50 kg/hour  | MECH R & AC | 1 no's  | 0.72786 | 0.72786 | Shopping |
| 134. | Flash back arrester (torch mounted)   |   | WELDER      | 4 pairs | 0.004   | 0.016   | Shopping |
| 135. | Flash back arrester (cylinder mounted)  |   | WELDER      | 4 pairs | 0.005   | 0.02    | Shopping |
| 136. | Air Plasma cutting equipment  | with all accessories, capacity to cut 12 mm clearcut  | WELDER      | 01 set  | 1.75    | 1.75    | Shopping |
| 137. | Air compressor suitable for above air plasma cutting system.                            |   | WELDER      | 01 no   | 0.25    | 0.25    | Shopping |



|      |   |  |                             |        |       |       |          |
|------|---|--|-----------------------------|--------|-------|-------|----------|
| 138. | Auto Darkening Welding Helmet   |  | WELDER                      | 2 nos. | 0.04  | 0.08  | Shopping |
| 139. | Spot welding machine  | 15 KVA with all accessories  | WELDER                      | 01 set | 0.2   | 0.2   | Shopping |
| 140. | AG 4 Grinder  |  | WELDER                      | 2 Nos  | 0.08  | 0.16  | Shopping |
| 141. | Trolley for cylinder (H.P. Unit)  |  | WELDER                      | 2      | 0.07  | 0.014 | Shopping |
| 142. | Oven, electrode drying  | 0 to 350°C, 10 kg capacity   | WELDER                      | 1      | 0.2   | 0.2   | Shopping |
| 143. | Work bench  | 340x120x75 cm with 4 bench vices of 150 mm jaw opening   | WELDER                      | 2      | 0.03  | 0.06  | Shopping |
| 144. | Oxygen, Acetylene Cylinders *   |  | WELDER                      | 2 each | 0.26  | 0.52  | Shopping |
| 145. | CO <sub>2</sub> cylinder *  |  | WELDER                      | 2 Nos  | 0.18  | 0.36  | Shopping |
| 146. | Argon gas cylinder *  |  | WELDER                      | 2 Nos  | 0.2   | 0.4   | Shopping |
| 147. | Die penetrant testing kit   |  | WELDER                      | 1 set  | 0.06  | 0.06  | Shopping |
| 148. | Magnetic particle testing Kit #   |  | WELDER                      | 1 set  | 0.07  | 0.07  | Shopping |
| 149. | 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. | fitter                      | 2      | 2     | 4     | shopping |
| 150. | Steel tape 30 metres long   | Steel tape 30 m long   | Draught's man civil         | 6      | 0.009 | 0.054 | Shopping |
| 151. | Calculator Scientific (Non programmable)  |  | Draught's man civil         | 6      | 0.008 | 0.048 | Shopping |
| 152. | Land measuring chain  | 30m with 2 handles   | Draught's man civil         | 4      | 0.011 | 0.044 | Shopping |
| 153. | Instrument for Total Station with latest model, With all accessories(Graphic LCD display on both side.Multy function key board on both side. Able to interchange data between GPS and Total station with out any data conversion. Minimum 8 hours rechargeable Li-ion battery Poles and Prism 2 Nos each) | Total Station  | Draught's man civil         | 1      | 2.5   | 2.5   | Shopping |
| 154. | Hand held GPS (Latest model) with standard specification  | Hand held GPS  | Draught's man civil         | 2      | 0.25  | 0.5   | Shopping |
| 155. | Auto level with all accessories   | Auto level   | Draught's man civil         | 4      | 0.25  | 1     | Shopping |
| 156. | Plotter A1 size   | Plotter A1 size  | Draught's man civil         | 1      | 1.5   | 1.5   | Shopping |
| 157. | LCD monitor 32"   | 32"  | Construction Electrician-LV | 1      | 0.18  | 0.18  | shopping |
| 158. | Laptop  | i3 processor   | Construction Electrician-LV | 1      | 0.5   | 0.5   | shopping |
| 159. | Wire strippers  | 205mm  | Construction Electrician-LV | 30     | 0.001 | 0.03  | shopping |
| 160. | Vibrators   | 3ph 42V - 3ph 230/400V   | Construction Electrician-LV | 1      | 0.1   | 0.1   | shopping |
| 161. | Bar bending machine   | 0-50 mm.   | Construction Electrician-LV | 1      | 0.35  | 0.35  | shopping |



|      |                          |  |                                     |    |        |       |          |
|------|--------------------------|--|-------------------------------------|----|--------|-------|----------|
| 162. | Wall chasing chisel      | 150 mm   | Construction Electrician-LV         | 1  | 0.17   | 0.17  | shopping |
| 163. | Helmet                   | Electrical   | Construction Electrician-LV         | 30 | 0.01   | 0.3   | shopping |
| 164. | Eafety shoes             | Electrical   | Construction Electrician-LV         | 30 | 0.02   | 0.6   | shopping |
| 165. | Safety belt              | Electrical   | Construction Electrician-LV         | 10 | 0.01   | 0.1   | shopping |
| 166. | Cotton hand gloves       | Cotton   | Construction Electrician-LV         | 30 | 0.004  | 0.12  | shopping |
| 167. | Goggles                  |  | Construction Electrician-LV         | 30 | 0.003  | 0.09  | shopping |
| 168. | Reflective jackets       | 120 GSM (100% Polyester Fabric) 210 GSM (65% Polyester & 35% Cotton) | Construction Electrician-LV         | 30 | 0.002  | 0.06  | shopping |
| 169. | Pick axe                 | Railroad pick  | Construction Electrician-LV         | 1  | 0.01   | 0.01  | shopping |
| 170. | GI bucket                | 5L capacity  | Construction Electrician-LV         | 2  | 0.005  | 0.01  | shopping |
| 171. | Hand roller              |  | Construction Electrician-LV         | 2  | 0.005  | 0.01  | shopping |
| 172. | Plate vibrator           | 1800 M/Min.  | Construction Electrician-LV         | 1  | 0.02   | 0.02  | shopping |
| 173. | RECTIFIER ESAB           | 400 AMPS   | Assistant Tungsten Inert Gas Welder | 1  | 0.32   | 0.32  | shopping |
| 174. | INVERTER ESAB            | 415V   | Assistant Tungsten Inert Gas Welder | 1  | 0.38   | 0.38  | shopping |
| 175. | ELECTRODE TUNGSTON       | 150MM  | Assistant Tungsten Inert Gas Welder | 20 | 0.001  | 0.02  | shopping |
| 176. | FILLER WIRE              | ER 70 S2 CORBON  | Assistant Tungsten Inert Gas Welder | 10 | 0.005  | 0.05  | shopping |
| 177. | JIGS AND FIXTURES        |  | Assistant Tungsten Inert Gas Welder | 1  | 0.045  | 0.045 | shopping |
| 178. | CERAMIC NOZZLE           |  | Assistant Tungsten Inert Gas Welder | 1  | 0.004  | 0.004 | shopping |
| 179. | COLLET AND HOLDER        |  | Assistant Tungsten Inert Gas Welder | 1  | 0.015  | 0.015 | shopping |
| 180. | LEATHER APRON            | FULL LENGTH  | Assistant Tungsten Inert Gas Welder | 30 | 0.01   | 0.3   | shopping |
| 181. | LEATHER GLOVES           |  | Assistant Tungsten Inert Gas Welder | 30 | 0.003  | 0.09  | shopping |
| 182. | HELMETS                  |  | Assistant Tungsten Inert Gas Welder | 30 | 0.005  | 0.15  | shopping |
| 183. | WIRE BRUSHES             |  | Assistant Tungsten Inert Gas Welder | 30 | 0.0005 | 0.015 | shopping |
| 184. | SAFETY SHOES             | 9 ,10 INCHES   | Assistant Tungsten Inert Gas Welder | 30 | 0.02   | 0.6   | shopping |
| 185. | CHIPPING HAMMERS         |  | Assistant Tungsten Inert Gas Welder | 30 | 0.001  | 0.03  | shopping |
| 186. | ARGON GAS WITH CYLINDERS | CGA 580  | Assistant Tungsten Inert Gas Welder | 2  | 0.21   | 0.42  | shopping |
| 187. | FIRST AID BOX            |  | Assistant Tungsten Inert Gas Welder | 1  | 0.01   | 0.01  | shopping |
| 188. | Training Kit             | set of 18  | Maitenance fitter                   | 31 | 0.038  | 1.178 | shopping |



|                    |                                      |  |                    |    |                 |       |          |
|--------------------|--------------------------------------|--|--------------------|----|-----------------|-------|----------|
| 189.               | torque wrench                        | Accuracy: +/- 3 %<br>Length: 120 mm<br>Torque: 2 - 420 Nm<br>Weight: 0.16 Kg | Maintenance fitter | 1  | 0.08            | 0.08  | shopping |
| 190.               | plier                                | 210mm  | Maintenance fitter | 10 | 0.003           | 0.03  | shopping |
| 191.               | bearing puller                       | 4, 8 BPL/3J/3, 8,<br>BPL/2J/3, 6   | Maintenance fitter | 1  | 0.06            | 0.06  | shopping |
| 192.               | circlip plier                        | 150mm  | Maintenance fitter | 10 | 0.003           | 0.03  | shopping |
| 193.               | scraper                              | All Sizes  | Maintenance fitter | 1  | 0.05            | 0.05  | shopping |
| 194.               | thermal indicators                   |  | Maintenance fitter | 1  | 0.03            | 0.03  | shopping |
| 195.               | dial test indicator                  | rang; 12.7mm<br>resolution; 0.01mm   | Maintenance fitter | 1  | 0.07            | 0.07  | shopping |
| 196.               | audio test devices                   | NA   | Maintenance fitter | 1  | 0.045           | 0.045 | shopping |
| 197.               | collet chuck                         | 1-34mm   | Maintenance fitter | 1  | 0.03            | 0.03  | shopping |
| 198.               | drive plate                          | 316 Stainless steel,<br>Through bore 2.2"                                    | Maintenance fitter | 1  | 0.05            | 0.05  | shopping |
| 199.               | jigs and fixtures,                   | BSI-BS 5078  | Maintenance fitter | 1  | 0.05            | 0.05  | shopping |
| 200.               | shafts                               | Different sizes  | Maintenance fitter | 10 | 0.015           | 0.15  | shopping |
| 201.               | couplings                            | Different sizes  | Maintenance fitter | 10 | 0.025           | 0.25  | shopping |
| 202.               | gears                                | Different sizes  | Maintenance fitter | 10 | 0.025           | 0.25  | shopping |
| 203.               | bearings and seals                   | Different sizes  | Maintenance fitter | 10 | 0.0035          | 0.035 | shopping |
| 204.               | cams and followers                   | Different sizes  | Maintenance fitter | 10 | 0.0075          | 0.075 | shopping |
| 205.               | chains and sprockets                 | 13 TEETH, 40MM<br>BORE   | Maintenance fitter | 1  | 0.03            | 0.03  | shopping |
| 206.               | pulleys and belts                    | Different sizes  | Maintenance fitter | 10 | 0.018           | 0.18  | shopping |
| 207.               | cutch,                               | Different sizes  | Maintenance fitter | 1  | 0.04            | 0.04  | shopping |
| 208.               | valves,                              | Different sizes  | Maintenance fitter | 10 | 0.0085          | 0.085 | shopping |
| 209.               | solenoid operated cylinders          | Different sizes  | Maintenance fitter | 10 | 0.015           | 0.15  | shopping |
| 210.               | Leather gloves                       | Different sizes  | Maintenance fitter | 6  | 0.018           | 0.108 | shopping |
| 211.               | leather apron,                       | Different sizes  | Maintenance fitter | 6  | 0.028           | 0.168 | shopping |
| 212.               | welding screen- helmet types         | Different sizes  | Maintenance fitter | 5  | 0.015           | 0.075 | shopping |
| 213.               | hand screen welding and safety shoes | Different sizes  | Maintenance fitter | 6  | 0.015           | 0.09  | shopping |
| 214.               | First aid kit with all contents      | *  | Maintenance fitter | 2  | 0.015           | 0.03  | shopping |
| 215.               | K fire extinguishers,                | 5 kgs  | Maintenance fitter | 2  | 0.038           | 0.076 | shopping |
| <b>Grand Total</b> |                                      |  |                    |    | <b>34.84526</b> |       |          |

V. Srinivas Reddy  
Signature of  
Secretary/Principal

S. B. S. S.  
Signature of  
I M C Chairman

Govt. Industrial Training Institute  
Chinnivaram, W.G.D.

*[Handwritten signature]*