

Revised

Annex-A-112

**LIST OF MECHANICAL COMPONENTS FOR**

S. NO.	DESCRIPTION PROVIDED BY USER	SPECIFICATION (MAKE/MODEL)
01	3x3 SS square bar (12)	16 Gauge 316L, 4"x3"
02	SS round bar (20)	16 Gauge 316L, 1.5"
03	0.9mm SS wire spool (20)	50 meters sool
04	L bow, Tee, joints (20 each)	SS 316L fittings as per drawing
05	SS cross Phillips Pan Round head with washer collar self-tapping screw (5000)	½" Length
06	SS welding rod (20 Pack)	E316 etc
07	Long screw (20") rod 20mm dia	SS 316L, 20mm dia., 20" length
08	Motorized butterfly valve 12V (6") Qty 2	COVNA-HK60D-F DN50 with COVNA-05 Electric Actuator 50 Nm (Regulation Type/Intelligent type) Supply 12 VDC Control Signal (4-20mA/1-5V/ 0-10V)
09	Clamps (25)	SS 316L Jubilee Calmps 2" & 1 ¾"
10	SS square cage 100'	SS 316L, square pattern (2"x2") wire mesh, wire thickness 1.5 mm
11	Motorized damper valve switch 5 position angle switch control switch for electric air damper HVAC Valve 12VDC	Motorized Damper Valve Switch 5 Position Angle Switch Control Switch for Electric Air Damper HVAC Valve 12V

**LIST OF ELECTRICAL/ELECTRONIC COMPONENTS FOR**

S. NO.	DESCRIPTION PROVIDED BY USER	SPECIFICATION (MAKE/MODEL)
01	High voltage isolator 6", 8", 12" different sizes (10 each)	Ceramic or Phenolic Fiber HV Isolators with metal plates at both sides having M12 x 1.75 thread
02	Small plastic box (10)	Transparent Acrylic Box 4.5in x 5.5in x 10in (W x H x L)
03	Arduino UNO (10)	ESP32-DevKitC V4 (10)
04	Sim900a modules (10 each)	SIM808 GPS-GSM-GPRS Module (10)

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05	Humidity, temperature, pressure, wind direction, wind speed (10 each)	Sensors Details are as follows: 1) BMP585 Shuttle board 3.0/ Adafruit BMP585 2) Adafruit Sensirion SHT45 Precision Temp & Humidity with PTFE 3) Adafruit BME688 4) 5) RS-FSJT-N01 6) RS-FXJT-N01-360 7) RS-FYLGZ-N01 8) SparkFun Lightning Detector - AS3935 / DF Robot Gravity: Lightning Distance Sensor 9) PMS5003/RS-PM-N01-2
06	Dual monitor stand	Table stand 22" Monitor
07	G1/4 digital pressure transmitter 1 bar 20 bar 40 bar 80 bar 100 bar pressure gauge digital display 1-5V 4-20mA 0-10V 0-5V RS485	ES-PC300 0-5V output 0-10bar range (4 each) & ES-PC300 0-5V output 1-10 bar range (2 each)
08	HX711 Load cell AD weight sensor	50kg (8 each) + HX711 High precision (2 each)
09	Tool kit (Spanner, Keyset, Screwdriver)	Multi Tool Toolkit Brand: Black Dewalt / Black & Decker / Ingco / Proskit / Total
10	High voltage probe 100kV	DC, Vitrek HV-100
11	USB to Serial converter	FT232RL/Ch340g (10)
12	USB 3.1 hub one to many	10 to 1

*Approved*