**Appendix – XIV**

**(Schedule of Quantity)**

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| **Sr. No.** | **Name of Item/Equipment** | **Qty.** |
| 14 | **IOT Development board**   1. **Arduino MKR IoT Bundl**  * UPC: 813747020152 * The Arduino IoT kit is a great way to get started with the Internet of Things. * The Arduino kit includes the components you need to make 5 IoT projects following the step-by-step online tutorials on the Arduino Project Hub online platform. * This Arduino kit is based around the MKR1000—a powerful board that combines the functionality of the Zero and the Wi-Fi Shield. * Arduino enables Makers to add connectivity to their designs with minimal prior networking experience. | 03 |
| 1. **ARDUINO MKR WAN 1300**  * Based on SAMD21 and a Murata CMWX1ZZABZ Lo-Ra module * Powered using two 1.5V AA or AAA batteries or external 5V * Arduino software (IDE) for code development and programming * No of bits:32 * Silicon Core Number: SAMD21, CMWX1ZZABZ * Kit Contents: Dev Board MKR WAN 1300 * Core Sub-Architecture: Cortex-M0+ * Core Architecture: ARM | 03 |
| 1. **Development Board, Arduino MKR WiFi with headers**   Low power WiFi with Cryptochip for SHA-256 encrypted secure communication   * Supports the Arduino Software IDE for development and programming * Integrated Li-Po charging circuit allows the shield to run on battery or external power whilst charging the battery * 32-bit ARM Cortex-M0+ * 48MHz Clock speed * Digital I/O pins: 22 * Analogue I/O pins: 7/1 * Interfaces: I2C, I2S, SPI, UART * Operating voltage: 3.3V * Input voltage: 5V | 03 |
| 1. **BeagleBone Black Cape, LCD, 7", Capacitive Touchscreen with Cover Lens Bezel**  * Capacitive touch Gen4 LCD CAPE module with cover lens bezels (CLB) and 7" primary TFT display. * This module features a capacitive touch screen controlled by a Focaltech capacitive touch controller which interfaces the display and Beagle Bone Black (BBB) via I2C protocol. * The Beagle Bone Black (BBB) connects directly to an adaptor CAPE using a 30-way FFC ribbon cable. The LCD CAPE requires power and display signals which are provided from the BBB directly via the adapter and FFC ribbon cables. * 4DCAPE is not compatible with the Beagle Bone White and can only be used with Beagle Bone Black * 800 x 480 resolution * EEPROM CAPE ID selection via DIP switch * Offers significant improvement over the analogue interface of previous 4DCAPE models | 03 |
| 1. **ARM Cortex‐5 General Purpose dev. Board with Debugger**   Features:   * Core: ARM®32-bit Cortex®-M4 CPU with FPU, Adaptive real-time accelerator (ART Accelerator™) allowing 0-wait state execution from Flash memory, frequency up to 168 MHz, memory protection unit, 210 DMIPS/1.25 DMIPS/MHz (Dhrystone 2.1), and DSP instructions * Memories * Up to 1 Mbyte of Flash memory * Up to 192+4 Kbytes of SRAM including 64-Kbyte of CCM (core coupled memory) data RAM * 1.8 V to 3.6 V application supply and I/Os * POR, PDR, PVD and BO * 4-to-26 MHz crystal oscillator * Internal 16 MHz factory-trimmed RC (1% accuracy) * 32 kHz oscillator for RTC with calibration * Internal 32 kHz RC with calibration * 3×12-bit, 2.4 MSPS A/D converters: up to 24 channels and 7.2 MSPS in triple interleaved mode * 2×12-bit D/A converters | 03 |
| 1. **Pixy 2 CMUcam5 Smart Vision Sensor**   **Specifications:**   * Image sensor: Aptina MT9M114, 1296×976 resolution with integrated image flow processor * Processor: NXP LPC4330, 204 MHz, dual core * Lens field-of-view: 60 degrees horizontal, 40 degrees vertical * Power consumption: 140 mA typical * Power input: USB input (5V) or unregulated input (6V to 10V) * RAM: 264K bytes * Flash: 2M bytes * Available data outputs: UART serial, SPI, I2C, USB, digital, analog | 03 |