

ANNEX B3

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
03-001	Grid Connected Solar PV, 15kW	refer to Technical Specification of Item Code 03-001	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	5	units
03-002	Grid Connected Solar PV, 5kW	refer to Technical Specification of Item Code 03-002	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	5	units
03-003	Grid Connect, 3.8kW	refer to Technical Specification of Item Code 03-003	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	5	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
03-004	Grid Connect, 5kW	refer to Technical Specification of Item Code 03-004	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	5	units
03-005	Grid Connect with power limiter, 5kW	refer to Technical Specification of Item Code 03-005	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	10	units
03-006	Solar Module, 300 to 350W	Monocrystalline 300 - 350 W atleast 60 cells System Voltage: atleast 1000 Half Cell, MBB Aluminum Frame	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	60	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
03-007	Solar Module, 400 to 450W	Monocrystalline 400 - 450 W atleast 140 cells System Voltage: atleast 1000 Half Cell, MBB Aluminum Frame	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	60	units
03-008	Solar Module, 200 to 250W	Polycrystalline 200 - 250 W atleast 60 cells System Voltage: atleast 1000 Aluminum Frame	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	60	units
03-009	Solar Site Analysis tool	Non-electronic Composed of: - Dome Section - Base Section - Instrument Section With tripod and case	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	5	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
03-010	Mounting rail	Aluminum 4.2 meters	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity of quantity - Type and measurement of material used	1 Year	N/A	N/A	100	pcs
03-011	Splice	Aluminum Compatible with the mounting rail, item no. 03-010	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity of quantity - Type and measurement of material used	1 Year	N/A	N/A	50	pcs
03-012	Mid Clamp	Aluminum Nut must be compatible with the mounting rail, item no. 03-010	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity of quantity - Type and measurement of material used	1 Year	N/A	N/A	300	pcs
03-013	End Clamp	Aluminum Nut must be compatible with the mounting rail, item no. 03-010	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity of quantity - Type and measurement of material used	1 Year	N/A	N/A	300	pcs
03-014	Grounding Lug	Aluminum Nut must be compatible with the mounting rail, item no. 03-010	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity of quantity - Type and measurement of material used	1 Year	N/A	N/A	100	pcs

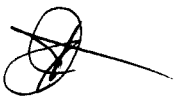
Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
03-015	Solar PV Complete Test Kit	refer to Technical Specification of Item Code 03-015	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	1	set
03-016	Computerized Battery Analyzer	refer to Technical Specification of Item Code 03-016	Equipment	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	Yes	Yes	5	units

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date




TECHNICAL SPECIFICATION

Name of The Learning System	Grid Connected Solar PV, 15kW
Item Code	03-001
Technology Area(s)	Power Generation Equipment and Supplies

Inverter

- Type: On-grid 3-phase
- Nominal Rating: 15 kW
- MPPT Tracker: 2
- Max DC Input Voltage: 1,000 V
- Rated AC Output Power: at least 15,000 Watts
- Rated Grid Voltage: 3/N/PE, 220/380Vac, 230/400Vac, 240/415VAC
- Nominal Grid Frequency: 60Hz
- Equipped with export control

All accessories shall be included

- Wifi Interface for power monitoring
- Power Limiter/export control if not integrated in the inverter

PV Array

- PV array shall be over sized from 17,000 to 20,000 Wp to increase production during times of low irradiation and losses compensation
- Must be equipped with rapid shutdown
- All accessories included: e.g. cable clips, end clamp, mid clamp, etc.

Solar Module

The solar module should have the following characteristics:

- Nominal power rating: 300 up to 550 kWp
- Technology: Half Cell MBB
- System Voltage: at least 1,000 volts

Mounting Structure

- Flat on tin roof
- Material: Aluminum
- Must be able to accommodate the PV array mentioned above
- Must include all attachments, fittings, and mounting accessories: e.g. mid and end clamp for selected solar modules, bolts and nuts, washers, etc.

Electrical accessories

The following electrical components, fittings and accessories shall be supplied together with the system:

- **Conductors:**
 - String conductors shall be of approved type for photovoltaic application
 - Grounding conductor of approved type and of suitable size for the application
 - Other conductors required to make the system operational
 - Approximate distance:
 - ❖ PV Array to inverter: 100 meters
 - ❖ Inverter to AC common point of coupling: 50 meters

Distribution Panel

- Two distribution panels; one for DC and one for AC
- Size: good enough to accommodate the necessary protective devices
- At least IP 65

Grounding and Bonding

- WEEB to create bonding between solar modules and railings
- Grounding Lug to connect grounding conductor from railings to grounding electrode
- Grounding rod with clamps, at least 6 ft

Protective Devices and Disconnecting Means

- AC and DC surge protective Device, DIN mounted
- DC circuit breaker, DIN mounted for each string
- AC circuit breaker, DIN mounted
- AC Isolator: at least IP65, for outdoor application

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TECHNICAL SPECIFICATION

Name of The Learning System	Grid Connected Solar PV, 5kW
Item Code	03-002
Technology Area(s)	Power Generation Equipment and Supplies

Inverter

- Type: Hybrid
- Nominal Rating: 5 kW
- MPPT input: 2
- DC Input Power Per MPPT: at least 2,600 Watts
- DC input Current Per MPPT: at least 11A
- Rated AC Output Power: at least 3,500 Watts
- Rated Grid Voltage: 220V/230V/240V
- Nominal Grid Frequency: 60Hz
- Max. Charging Power: at least 2,500 Watts
- Must be able to handle 48V battery bank system
- EPS Rated Output Power: at least 3000VA
- Equipped with export control
- Equipped with automatic transfer to switch-on critical load from grid to back-up power

All accessories shall be included

- Wifi Interface for power monitoring
- Power Limiter/export control if not integrated in the inverter

Battery

- Lithium Iron Phosphate or Lithium Ion
- Must be compatible to the hybrid inverter mentioned above
- Rating: at least 3.0 kWh
- Equipped with BMS
- All accessories included: e.g mounting bracket, fastening devices, connecting cables and terminals, and battery storage

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TECHNICAL SPECIFICATION

Name of The Learning System	Grid Connect, 3.8kW
Item Code	03-003
Technology Area(s)	Power Generation Equipment and Supplies

Grid Connect with export limiting smart meter and integrated data manager

GENERAL DATA

- Rated Power: 3.8 kW
- Protection Class: NEMA 4X
- Night time consumption: <1W
- Inverter topology: Transformerless
- Cooling: Variable speed fan
- Installation: Indoor and outdoor installation
- Ambient operating temperature range: -40 - 131°F (-40 - 55°C)
- Permitted humidity: 0 - 100 %
- Elevation: 4000m (13123 ft)
- DC connection terminals: 4x DC+ and 4x DC- screw terminals for copper (solid / stranded / fine stranded) or aluminum (solid/stranded)

PROTECTION DEVICES

- DC reverse polarity protection
- Anti islanding
- Over temperature protection
- AFCI
- Rapid shutdown compliant
- Ground fault protection with isolation monitor interrupter
- DC disconnect

INTERFACES

- Wi-Fi / Ethernet LAN
- USB (A socket)
- 2x RS422 (RJ45 socket)

INPUT DATA

- Recommended PV power (kWp): 3.0-6.0kW
- Max. usable input current (MPPT 1/MPPT 2): 18A / 18A
- Max. usable input current (MPPT 1+MPPT 2): 36A
- Max. array short circuit current (1.5* I_{max}) (MPPT1/MPPT2): 27A / 27A
- Nominal input voltage: 410V
- Operating voltage range: 80V-600V
- DC startup voltage: 80V
- MPP Voltage Range: 200-480V

OUTPUT DATA

- Max. output power:c 3800VA / 3800 VA
- Frequency range (adjustable) : 45.0 - 55.0 Hz / 50 - 66 Hz
- Operating frequency range default for CAL setups: --/ 58.5 - 60.5 Hz
- Nominal operating frequency : 60Hz
- Admissible conductor size AC : AWG 14 - AWG 6
- Total harmonic distortion: < 5.0 %
- Power factor range: 0.85-1 ind./cap
- Max. continuous output current: 208V = 18.3A, 240V = 15.8A
- OCPD/AC breaker size : 208V=25A, 240V=20A
- Max. Efficiency: 96.7%
- CEC Efficiency: 95.0%

CERTIFICATES AND COMPLIANCE WITH STANDARDS

- UL 1741-2010 Second Edition (incl. UL1741 Supplement SA 2016-09 for California Rule 21 and Hawaiian Electric Code Rule14H), UL1998 (for functions: AFCI, RCMU and isolation monitoring), IEEE 1547-2003, IEEE 1547.1-2003, ANSI/IEEEC62.41, FCC Part 15 A & B, NEC 2017 Article 690, C22. 2 No.107.1-16, UL1699B Issue 2 - 2013, CSA TIL M-07 Issue 1 – 2013

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TECHNICAL SPECIFICATION

Name of The Learning System	Grid Connect, 5kW
Item Code	03-004
Technology Area(s)	Power Generation Equipment and Supplies

Input (DC)

- Max. PV power: 8000Wp
- Max. DC voltage: 600V
- Rated MPP voltage range: 220 – 480 V
- MPPT operating voltage range: 100 – 550 V
- Min. DC voltage / start voltage: 100 V / 125 V
- Max. operating input current per MPPT: 10A
- Max. short circuit current per MPPT: 18A
- Number of MPPT tracker / string per MPPT tracker: 3/1

Output (AC)

- AC nominal power: 5000W
- Max. AC apparent power: 5000VA
- Nominal voltage / adjustable: 240V
- AC voltage range: 211 – 264 V
- AC grid frequency: 60 Hz / 50 Hz
- Max. output current: 21.0 A
- Power factor ($\cos \phi$) / harmonics: 1 / < 4 %
- Output phases / line connections: 1 / 2
- Max. efficiency: 208V=97.2%, 240V=97.6%
- CEC efficiency: 208V=96.5%, 240V=96.7%

Protection devices

- DC disconnect device / DC reverse polarity protection
- Ground fault monitoring / Grid monitoring
- AC short circuit protection
- All-pole sensitive residual current monitoring unit (RCMU)
- Arc fault circuit interrupter (AFCI)
- Protection class / overvoltage category: I / IV

General data

- Rated Power: 5kW
- Environmental protection rating: NEMA 3R
- Noise emission (typical): 39 dB(A)
- Internal power consumption at night: < 5 W
- Topology / cooling concept: transformerless / convection

Features

- Ethernet ports: 2
- Secure Power Supply
- Display (2 x 16 characters)

- 2.4 GHz WLAN / External WLAN antenna
- ShadeFix technology for string level optimization
- Warranty: 10 yrs

Certificates and approvals

- UL 1741, UL 1741 SA incl. CA Rule 21 RSD, UL 1998, UL 1699B Ed. 1, IEEE1547, FCC Part 15 (Class A & B), CAN/CSA V22.2 107.1-1, HECO Rule 14H, PV Rapid Shutdown System Equipment

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TECHNICAL SPECIFICATION

Name of The Learning System	Grid Connect with power limiter, 5kW
Item Code	03-005
Technology Area(s)	Power Generation Equipment and Supplies

General data

- Rated Power: 5kW
- Cooling concept: Natural
- Topology: Non-isolated
- Communication interfaces
 - Pocket WiFi(optional)/Pocket LAN(optional)/Pocket
 - GPRS(optional)/Meter(optional)/RS485/DRM/USB-Upgrade
- LCD display: Yes
- Standard warranty [years]: 5-10

Input Data

- Max. PV array power [Wp]: 5200
- Max. DC voltage [V]: 600
- Nominal DC operating voltage [V]: 360
- Max. input current [A]: 12/12
- Max. short circuit current [A]: 12.8/12.8
- MPPT voltage range[V]: 70-580
- Start operating voltage[V]: 100
- No. of MPP trackers: 2
- Strings per MPP tracker: 1

Output Data

- Nominal AC power [VA]: 5000
- Max. AC power [VA]: 5000
- Nominal grid voltage(AC voltage range) [V]: 200-250
- Nominal grid frequency/range [Hz]: 50-60
- Nominal AC current [A]: 21.7
- Max. AC current [A]: 22.7
- Displacement power factor: 0.8 leading ~ 0.8 lagging
- THDi, rated power [%]: <2

Device Protection

- Over voltage/ Under Voltage protection
- Overcurrent protection
- Overload Protection
- Overheat Protection
- Anti-Islanding Protection
- Backfeed Current Monitoring
- DC isolation impedance monitoring
- Ground fault current monitoring
- DC injection monitoring
- RCD protection

Certificates and Compliance with Standard

- Safety: IEC62109-1/-2
- EMC: EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3
- Certification: VDE4105 /G98 / G99/ AS4777 / EN50549 / CEI0-21

Environment Limit

- Degree of protection (according to IEC60529): IP65

Power Limiter: Compatible with the above inverter

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TECHNICAL SPECIFICATION

Name of The Learning System	Solar PV Complete Test Kit
Item Code	03-015
Technology Area(s)	Power Generation Equipment and Supplies

The solar PV complete test kit shall include the following:

1. A compact solar PV tester with I-V curve tracing
2. Solar Irradiance Meter
3. Solar Irradiance meter mounting bracket
4. AC/DC Current Clamp Ammeter
5. SolarCert Solar PV Reporting Software
6. Complete testing and other accessories:
 - 2 x MC4 test lead adaptors
 - 2 x combiner box test probes and detachable alligator clips (MC4)
 - 2 x test leads with detachable alligator clips (4mm)
 - USB download cable
 - rugged carry bag
 - quick start guide
 - calibration certificates and a 2-year warranty

COMPACT SOLAR PV TESTER WITH I-V CURVE TRACING

Key Features:

- Instant NFC data transfer using the PVMobile app.
- All-in-one commissioning tests and I-V curve tracing.
- Automatic fill factor calculation.
- Ground continuity measurement with test lead null.
- PV string open circuit and maximum power point voltage measurements up to 1000V DC.
- PV string short current up to 15A DC.
- PV array insulation test at 250/500/1000V.
- Tests individual PV modules or strings.
- Memory for up to 999 records and USB download to PC.
- High contrast display, visible in bright light.

General Specification:

- Instrument Dimensions and Weight Weight 1.04kg / 2.3lb
- Dimensions 26.4 x 10.7 x 5.8cm / 10.4 x 4.2 x 2.3"
- Display Custom LCD with backlight
- Power Source 6 x 1.5V AA cells
- Battery life >1000 test sequences
- Auto power down User programmable
- Onboard memory Up to 999 complete test datasets

- Connectivity USB download to PC (CSV format)
- Wireless "Solarlink TM" to Survey 200R (range ~30m/100ft)
- NFC transfer of data to PVMobile Android App
- App compatibility: Compatible with Android version 4.2 Jelly Bean
- Software compatibility: Compatible with SolarCert software (English language only)
- Service 2 year warranty

Technical Specification:

Open Circuit Voltage Measurement (PV Terminals)

- Display Range: 0.0VDC - 1000VDC
- Measuring Range: 5.0VDC - 1000VDC
- Resolution: 0.1VDC maximum
- Accuracy: $\pm (0.5\% + 2 \text{ digits})$
- Enunciators: DC voltage polarity correct or reversed

Short Circuit Current Measurement (PV Terminals)

- Display Range 0.00ADC - 15.00ADC
- Measuring Range 0.50ADC - 15.00ADC
- Maximum Power 10kW
- Resolution 0.01ADC maximum Accuracy $\pm (1\% + 2 \text{ digits})$

Earth Continuity Resistance Measurement (4mm Terminals)

- >Test Voltage Open Circuit >4VDC, nominal
- >Test Current into 2 Ω : >200mA
- >Display Range: 0.00 Ω - 199 Ω
- >Measuring Range (EN 61557-4): 0.05 Ω - 199 Ω
- >Resolution: 0.01 Ω maximum
- >Accuracy: $\pm (2\% + 5 \text{ digits})$
- >Test Leads Zero: Zero up to 10 Ω , by zero button
- >Visible Warning: $\geq 30\text{V}$ AC or DC at inputs
- >Circuitry Protection: Test inhibited if $\geq 30\text{V}$ AC or DC at inputs
- >Repeat tests as per IEC 61557-4: Approx 4000 1 second test

Insulation Resistance (Auto Test Sequence, PV Terminals and Red 4mm Terminal)

- Test Voltage Open Circuit 250V, 500V, 1000V (as per IEC61557-2)
- Test Voltage Specification -0% +20% (open circuit)
- Test Voltage @ 1mA >1mA into UN x (1000 Ω /V)
- Test Current Short Circuit
- Measuring Range: (EN 61557-2) 0.05M Ω - 200M Ω
- Resolution: 0.01M Ω maximum
- Accuracy: 0.05M Ω - 100M Ω $\pm(5\% + 5 \text{ digits})$, 101M Ω - 200M Ω $\pm(10\% + 5 \text{ digits})$
- Visible Warning: $\geq 30\text{V}$ AC or DC at inputs
- Circuitry Protection: Test inhibited if $\geq 30\text{V}$ AC or DC at inputs
- Repeat tests as per IEC61557-4: Approx 4000 1 second tests



SOLAR IRRADIANCE METER

General Specification:

- Display: Custom LCD
- Power Supply: 2AA Alkaline Batteries
- Battery Life: >20,000 Readings
- Auto power down After 2 minutes

IRRADIANCE

- Display Range: 100 – 1500 W/m-2 or 30 – 500 BTU/hr-ft 2
- Measurement Ranges -30°C to +125°C
- Resolution 1°

TEMPERATURE

- Display Range -30°C to +125°C
- Measurement Ranges -30°C to +125°C
- Resolution 1°

COMPASS BEARING



- Display Range: 0° to 360°
- Measurement Ranges: 0° to 360°
- Resolution 1°

INCLINOMETER

- Display Range: 0° to 90°
- Measurement Ranges: 0° to 90°
- Resolution 1°

DATALOGGING AND CONNECTIVITY

- Datasets: 5000 Sample
- Rate 1 to 60 minutes (user definable)
- Datalogging: Download utility software included
- Compatible with SolarCert Elements software (version 1.1)
- Connectivity: USB download to PC, Wireless 'Solarlink™' (range c. 100m / 330 ft)

SERVICEABILITY

- Warranty: 2 years
- Calibration: 1 year

SOLAR IRRADIANCE METER

General Specification:

The lightweight Solar AC/DC Current Clamp is a compact instrument capable of providing accurate measurements of AC or DC currents in conductors measuring up to 22mm in diameter. Used in conjunction with the compact PV tester mentioned above. AC and DC currents can be measured from 0.5A to 40.0A.

Sample Image:



Picture for reference only

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TECHNICAL SPECIFICATION

Name of the Equipment	Computerized Battery Analyzer
Item Code	03-016
Technology Area(s)	Power Generation Equipment and Supplies

Capabilities

Scientifically Analyze Battery Performance

- True constant current battery capacity test with results graphically displayed constant power testing supported with Extended software upgrade
- Discharge current is software and electronically regulated using a solid-state switch and fan cooled electronic load
- Test any type of battery; coin cell to automotive or larger. Presets for NiCad, NiMH, Lead Acid, Li Ion, Li Poly, Alkaline, Carbon Zinc, Mercury etc.
- Solar cell profiling capability *
- Lower current testing capabilities - down to 10 mA
- Multiple discharge tests can use Watts as a parameter

Perform Fast, High Power Testing

- Tests quickly at real world load conditions, up to 150 watts or 40 amps maximum, whichever is higher
- High voltage testing at up to 55 volts (CBA II/CBA III is only 48V); the equivalent of 1 to 38 NiCad or NiMh cells *
- Perform power profile test (increase current at user's rate to see how voltage/power responds), useful for testing max power output of a power supply or solar cell *
- Optional 500 watt and 1000-watt amplifiers

Accuracy and Precision for Demanding Applications

- On-board computer performs accurate measurement with 12 bit effective resolution. Auto ranging for 2 current ranges and three voltages
- Each CBA is individually calibrated with a computerized calibration system.
- Calibration certification data provided with CBA IV Pro
- SDK for developing your own scripts or programming *
- TTL UART port that can be controlled by an Arduino, Raspberry PI, or other embedded system with a TTL serial port *

Built-in Safety Features Provide Superior Battery Protection

- Fail safe: automatic protection of temperature, current and power *
- Safety watchdog stops a discharge in the event of a computer crash *
- Discharge test current user selectable from 0 to 40 Amps


- Timed discharge test (stop discharge once certain Ah has been reached) *
- Dynamic test (alter test current using panel on the side of the software, without having to stop and start a new test) *
- Automatic voltage shut off at end of test using a software recommended or user selected safe discharge voltage
- Automatic over-temperature shut off at end of test at using a software recommended or user selected maximum temperature with optional external magnetic temperature sensor

Free Standard Software for Data Analysis


- User selected battery cell chemistry, number of cells and test current
- Software recommends safe tests based on user supplied battery information
- Automatic graph setup and scaling
- Measures and displays voltage, current, amp-hrs, and watts
- User can set the criteria for "Easy-Go/No-Go" testing
- Easy overlay comparisons of multiple graphs may be displayed saved and recalled
- Save, display and print battery test graphs and battery labels
- Plug and Play high speed USB interface, with easy to use and intuitive Windows® software supplied on CD ROM
- Manage individual tests on any number of CBA IV units connected to the same PC
- Software has no limit on number of CBA IVs that can be attached (CBA II/CBA III required multiple unit license) *

Specifications:

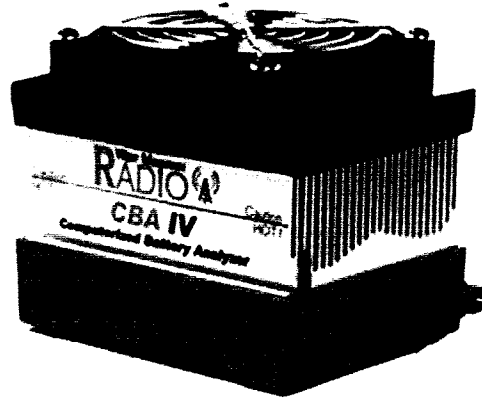
- Maximum continuous discharge rate: 100 watts
- Maximum limited term discharge rate with < 3500 ma-hour battery: 125 watts
- Maximum limited term discharge rate with < 1000 ma-hour battery: 150 watts
- 0-3 amp accuracy: typically better than + - 10 ma
- 3-40 amp accuracy: typically better than + - 45 ma
- 0-5 volt accuracy: typically better than + - .005 volts
- 5-15 volt accuracy: typically better than + - .01 volts
- 10-60 volt accuracy: typically better than + - .05 volts
- Maximum operating voltage: 55 Volts (48 Volt Lead Acid Telecom supported) *
- Maximum discharge rate: 40 amps (Battery dependent, 100 watt continuous)
- Minimum discharge voltage to maintain 30 amps .9Volts (Battery dependent)
- Minimum Voltage for a 40 amp discharge: 2 volts at completion of test (Battery dependant)
- Minimum discharge rate: 0.01 Amps *

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- Residual current drain, battery connected while not in use: < .003 amps @ 12 volts
 - High performance micro controller with built in USB interface and 12 bit A/D conversion.
 - USB powered; the CBA does not use the battery being tested to run the CBA or the fan.
 - System ready and Test in progress LED indicators, viewable from across a room.
 - CBA internal over temperature sensing and protection.
 - Graph printing on any standard color or B&W printer.
 - Battery test label printing on standard 05160 stick-on labels.

The computerized battery analyzer shall include the following accessories/software:

- 6 inch pigtail adapter
 - Standard version CBA software CD-ROM
 - 6 ft USB Cable
 - 40 amp fuse
 - User Manual
 - Calibration data
- 

Sample Image:



Picture for reference only

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Technical Specifications

Lot 4 : Industrial Automation, Mechatronics and Robotics
APPROVED BUDGET FOR THE CONTRACT : Two Million Three Hundred Thirty-Two Thousand Eight Hundred One Pesos and 95/100 (P2,332,801.95)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
04-001	Human Machine Interface	Kindly refer to the technical specifications attached as Annex B4 .	5	units			
04-002	Variable Frequency Drive	Kindly refer to the technical specifications attached as Annex B4 .	10	units			
04-003	Double Acting Cylinder	Kindly refer to the technical specifications attached as Annex B4 .	50	pcs			
04-004	Reed Switch	Kindly refer to the technical specifications attached as Annex B4 .	100	pcs			
04-005	5/2 Way Double Solenoid Valve	Kindly refer to the technical specifications attached as Annex B4 .	50	pcs			
04-006	5/2 Way Single Solenoid Valve	Kindly refer to the technical specifications attached as Annex B4 .	50	pcs			
04-007	Filter Regulator Lubricator	Kindly refer to the technical specifications attached as Annex B4 .	20	pcs			

* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder **Signature over Printed Name of Authorized Representative** **Date**



ANNEX B4

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
04-001	Human Machine Interface	<ul style="list-style-type: none"> ● 7 inch display / TFT Display ● 800X480 pixels resolution ● Color display ● 3 number of ports ● Port Type: Ethernet, MPI, Profibus DP, USB ● Processor Type: ARM ● With backlight ● Supply voltage: 24VDC ● Dimension: 214x158x63mm ● IP Rating: IP20, IP65 ● Configurable from WINCC COMFORT V11 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units
04-002	Variable Frequency Drive	<ul style="list-style-type: none"> ● Power rating 2.2KW ● Single phase ● Current rating 11 AMP ● Supply voltage 220-240 VAC ● Output frequency 0-550HZ ● fieldbus communication type : modbus ● With control panel ● Mounting type : wall mounting ● With accessories : Smart access module 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	10	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
04-003	Double Acting Cylinder	Pneumatic double acting Piston Diameter : 20mm Stroke length: Maximum 100 mm Cushioning : P flexible cushioning ring/pads on both sides Position sensing : For proximity sensor ISO 6432	Gadgets and Devices	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	50	pcs
04-004	Reed Switch	Switching output: N/O contact (PNP / NPN) with switching status indication Operating voltage: 5 – 30 V DC Output current: max. 100 mA With mounting system for cylinder diameter: 20 mm Compatible with double acting cylinder, item no. 19-001	Gadgets and Devices	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	100	pcs
04-005	5/2 Way Double Solenoid Valve	Pneumatic double solenoid valve Operating pressure : 150 – 800 kPa (1.5 – 8 bar) Electrical connection : via integrated 4mm safety sockets Power supply : 24VDC with LED	Gadgets and Devices	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	50	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
04-006	5/2 Way Single Solenoid Valve	Pneumatic single solenoid valve Operating pressure : 250 – 800 kPa (2.5 – 8 bar) Electrical connection : via integrated 4mm safety sockets Power supply : 24VDC with LED	Gadgets and Devices	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	50	pcs
04-007	Filter Regulator Lubricator	Pneumatic Connection: G1/8 / G1/4 Pressure: 0.5 - 7 bar Flow rate: 400 - 650 l/min with pressure gauge Grade of filtration: max 40 µm, min 5 µm Condensate drain : MANUAL / AUTOMATIC	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	20	pcs

 I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date





Technical Specifications

Lot 5 : **Electronics/Electrical Tools and Equipment**
APPROVED BUDGET : **Eight Hundred Thirty-Two Thousand Two Hundred**
FOR THE CONTRACT : **Forty-Seven Pesos and 80/100 (P832,247.80)**

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
05-001	Digital Oscilloscope	Kindly refer to the technical specifications attached as Annex B5.	5	units			
05-002	Insulation Tester	Kindly refer to the technical specifications attached as Annex B5.	4	units			
05-003	Earth Resistance Tester	Kindly refer to the technical specifications attached as Annex B5.	5	pcs			
05-004	Thermal Camera	Kindly refer to the technical specifications attached as Annex B5.	5	pcs			
05-005	Soldering Station	Kindly refer to the technical specifications attached as Annex B5.	10	sets			

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I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder	Signature over Printed Name of Authorized Representative	Date
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ANNEX B5

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
05-001	Digital Oscilloscope	<ul style="list-style-type: none"> • Bandwidth 100MHZ • Oscilloscope channel: 2CH • Average waveform times: 4, 8, 16, 32, 64, 128 • High accuracy: Highest 12bit • Input Coupling: DC, AC or ground (DC, AC, GND) • Input impedance: 1MΩ±2% 20pF±3PF • Probe attenuation coefficient setting: 1X, 10X, 100X, 1000X • Voltage classes: 300V CAT II • Maximum input voltage: 300V RMS (10X) • Waveform interpolation: (sinX)/X • Maximum record length: Single channel maximum 8M, Dual channel: maximum 4M • Horizontal scale range: 2ns/div-100s/div, 1, 2, 5 steps • Trigger mode: Automatic, normal, single • Measurement Type: DC RMS, AC RMS, DC • Frequency meter: Hardware 6 bits • Window Rectangular, Hanning, Heming, Blackman, Bartlett, flat top • Display Single display or full display • Display screen type: 7in TFT LCD screen diagonally • Standard interface: USB Host, USB Device • Power supply voltage: 00-120 VAC RMS (±10%), 45Hz to 440Hz, CAT II, 120-240 VAC RMS (±10%), 45Hz to 66Hz, CAT II 	Electronic Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
05-002	Insulation Tester	<ul style="list-style-type: none"> • Digital • Testing voltage: 50-1000V • Power supply 220V, 60 Hz • Operating temperature: -10~40°C • Measuring Range: 100-400MΩ <ul style="list-style-type: none"> • Accessory: - 1 pair of measuring probes 	Electronic Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	4	units
05-003	Earth Resistance Tester	<ul style="list-style-type: none"> • Display: Digital • Earth Resistance Range: 0-2000Ω • Earth Voltage Range: (60Hz): 0VAC-200VAC • Earth Resistance Accuracy: $\pm 2\% \text{rdg} \pm 3 \text{dgt}$ • Earth Voltage Accuracy: $\pm 1\% \text{rdg} \pm 4 \text{dgt}$ • Power Source: 6 AA batteries • With hard-carrying case 	Electronic Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
05-004	Thermal Camera	<ul style="list-style-type: none"> • Handheld • Temperature Measurement: Minimum - 25°C, Maximum +300°C • Temperature Scale: Centigrade, Fahrenheit • Accuracy: ±2 °C • Display: 2.4 inch LCD (320x240 px) • Internal storage for up to 50,000 images • Rechargeable Li-ion battery 	Electronic Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
05-005	Soldering Station	<p>Data: Input Voltage: AC 110~127V 60Hz/ 220~240V 50Hz Max power consumption: 1200W</p> <p>Preheating Station Temperature Range: 50 ~ 400 °C Temperature Stability ±2 °C Display Type: LED, any color Preheat Area: 120*120mm</p> <p>Hot Air Station Airflow type brushless fan spiral out wind Air Flow ≤120L/min Temperature Range 100 ~ 480 °C Temperature Stability ±1 °C Display Type: LED, any color Handle cable length ≥100cm</p> <p>Soldering Iron Station Temperature Range 200 ~ 480 °C Soldering iron</p>	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	10	sets

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.



Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date




Technical Specifications

Lot 6 : Hand Tools and Measuring Instruments

APPROVED BUDGET : Seven Hundred Four Thousand Two Hundred Twenty-
FOR THE CONTRACT : Six Pesos and 89/100 (P704,226.89)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
06-001	Multi weld plier	Kindly refer to the technical specifications attached as Annex B6.	25	pcs			
06-002	Tap and Dies sets	Kindly refer to the technical specifications attached as Annex B6.	3	sets			
06-003	Combination Square	Kindly refer to the technical specifications attached as Annex B6.	25	pcs			
06-004	Try Square	Kindly refer to the technical specifications attached as Annex B6.	20	pcs			
06-005	Crimping Tool	Kindly refer to the technical specifications attached as Annex B6.	5	pcs			
06-006	Screwdriver sets (precision)	Kindly refer to the technical specifications attached as Annex B6.	7	sets			
06-007	Allen Wrench	Kindly refer to the technical specifications attached as Annex B6.	12	sets			
06-008	Socket Wrench	Kindly refer to the technical specifications attached as Annex B6.	12	sets			
06-009	Digital Vernier caliper	Kindly refer to the technical specifications attached as Annex B6.	15	pcs			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
06-010	Analog Vernier caliper	Kindly refer to the technical specifications attached as Annex B6 .	15	pcs			
06-011	Bearing puller	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			
06-012	Screwdriver sets	Kindly refer to the technical specifications attached as Annex B6 .	10	sets			
06-013	Clamp On Meter	Kindly refer to the technical specifications attached as Annex B6 .	5	sets			
06-014	Pipe Bender, 3/4"	Kindly refer to the technical specifications attached as Annex B6 .	6	pcs			
06-015	Pipe Bender, 1/2-1"	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			
06-016	Pipe Threader	Kindly refer to the technical specifications attached as Annex B6 .	2	pcs			
06-017	Pipe Cutter	Kindly refer to the technical specifications attached as Annex B6 .	3	pcs			
06-018	Pipe Bender, 1/2"	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			

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Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
06-019	Combination Wrench	Kindly refer to the technical specifications attached as Annex B6 .	10	sets			
06-020	Push-Pull Rule	Kindly refer to the technical specifications attached as Annex B6 .	10	pcs			
06-021	Meter Stick	Kindly refer to the technical specifications attached as Annex B6 .	9	pcs			
06-022	Pipe Wrench	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			
06-023	Vise Grip, 7"	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			
06-024	Vise Grip, 10"	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			
06-025	Tin Snip, 8"	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			
06-026	Tin Snip, 10"	Kindly refer to the technical specifications attached as Annex B6 .	5	pcs			
06-027	Ball Peen Hammer	Kindly refer to the technical specifications attached as Annex B6 .	10	pcs			
06-028	Rubber Mallet	Kindly refer to the technical specifications attached as Annex B6 .	10	pcs			
06-029	Hack Saw with Blade	Kindly refer to the technical specifications attached as Annex B6 .	10	sets			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
06-030	Steel Rule	Kindly refer to the technical specifications attached as Annex B6 .	9	pcs			

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I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder **Signature over Printed Name of Authorized Representative** _____
Date

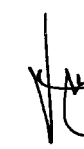
ANNEX B6

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-001	Multi weld plier	- Overall length: 8", Metal - Handle finish: non-slip grip handle	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing - 6 feet drop on concrete test, head first, ten times, the head of the item should not break/deform. Scratch or kink on the shaft/handle of the item is still acceptable.	1 Year	N/A	N/A	25	pcs
06-002	Tap and Dies Set	Number of Pieces: 52 Set Contents Handheld Taps: M3; M4; M5; M6; M8; M10; M12; M14; M16; M18; M20 Cutting Die For Taps: M3; M4; M5; M6; M8; M10; M12; M14; M16; M18; M20 Adjustable Tap Wrench: Sizes 1 and 3 Cutting Die Holder 20 x 5; 20 x 7; 25 x 9; 30 x 11; 38 x 14; 45 x 18 Guide: 1-7 Material: HSS	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	3	sets

14

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-003	Combination Square	300 mm (12 inches) Stainless steel + zinc alloy Combination square set (Blade and Handle)	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	25	pcs
06-004	Try Square	12" Material: Aluminum Alloy scale 0-90°	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	20	pcs
06-005	Crimping Tool	For terminal lugs Material: High carbon steel alloy Handle: Rubber Suitable terminals: VH/FL/SL 3.96, 4.8, 5.08, 6.3 Crimping Range: 26-16 AWG (0.14-1.5mm)	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	5	pcs
06-006	Screwdriver set (precision)	<ul style="list-style-type: none"> • Philips & Standard • 6 pcs. per set • swivel head handles, plastic • Flat Blade Tip: 1.4, 2.0, 2.4, 3.0 mm • Philips Blade Tip: 0, 1 	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	7	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-007	Allen Wrench	<ul style="list-style-type: none"> • 9 pc Hex Key Set: 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 6.0 mm, 8.0 mm, 10.0 mm • Metric • Ball point • Rust resistance coating • Chrome Vanadium steel 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	12	sets
06-008	Socket Wrench	<ul style="list-style-type: none"> • Chrome Vanadium Steel (Cr-V) • Drive: 1/4" • Socket points: 12 points • Socket size: Metric • 10 pcs Socket: 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm • 45T Ratchet Handle • 1/4" Universal Joint • Spinner Handle: 150 mm (±5mm) • Sliding T-Handle: 114 mm (±5mm) • Extension bar length: 100 mm (±5mm) • Extension bar length: 50 mm (±5mm) • With case 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	12	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-009	Digital Vernier caliper	<ul style="list-style-type: none"> • Stainless steel • Measuring range 0-150 mm • English and metric scale • Accuracy: 0.01 mm 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	15	pcs
06-010	Analog Vernier caliper	<ul style="list-style-type: none"> • Stainless steel • Measuring range 0-150 mm • English and metric scale 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	15	pcs
06-011	Bearing puller	<p>Hydraulic Number of Jaws: 3 Size: 3 inches Spread Capacity: 40-75mm Made of chrome vanadium steel, chrome plated Reversible jaws</p>	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	5	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-012	Screwdriver set	<ul style="list-style-type: none"> • 12 pc per set • Chrome Vanadium steel bars (engraved) • Polypropylene handle • Philips: PH1 x 75mm, PH2 x 100mm • Pozi: PZ1 x 100mm, PZ2 x 100mm • Flared Slotted: 5.5 x 100mm, 6.5 x 150mm, 8 x 175mm • Parallel Slotted: 4 x 100mm, 5.5 x 100mm • Torx: T15 x 100mm, T20 x 100mm, T25 x 100mm 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	10	sets
06-013	Clamp On Meter	<ul style="list-style-type: none"> • AC Current: 600-1000A • DC Current: 600-1000A • AC Voltage: 750V • DC Voltage: 1000V • Resistance: 60MΩ • Frequency: 20MHz • Display count: 6000 • Auto range/Diode • Jaw opening: at least 45mm • Continuity buzzer • Data hold/MAX • Low battery indication • Power: 9V battery • Accessories: test leads, output cable 	Electronic Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	5	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-014	Pipe Bender, 3/4"	<ul style="list-style-type: none"> • Manual • Capacity: 3/4" thin wall pipe • Material: Cast iron 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	6	pcs
06-015	Pipe Bender, 1/2-1"	<ul style="list-style-type: none"> • Manual • Capacity: 1/2-1" thick wall pipe • Material: Cast iron 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	5	pcs
06-016	Pipe Threader	<ul style="list-style-type: none"> • Manual • size: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2" • includes die heads, ratchet assembly, ratchet handle and alloy dies • with case 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	2	pcs
06-017	Pipe Cutter	<ul style="list-style-type: none"> • Steel Pipe Cutter • 2 Wheels • Pipe Capacity: 2mm - 50mm 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	3	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-018	Pipe Bender, 1/2"	<ul style="list-style-type: none"> • Manual • Capacity: 1/2" thin wall pipe • Material: Cast iron 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	5	pcs
06-019	Combination Wrench	20 Piece Wrench Set, SAE & Metric Open End and Box End SAE sizes: 1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16 and 3/4 inches, Metric sizes: 6, 8, 10, 12, 13, 14, 15, 16, 17, 18 mm Material: Alloy Steel	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	10	sets
06-020	Push-Pull Rule	<ul style="list-style-type: none"> • Measuring standard: Metric & English • Blade length: 8 m • Blade width: Min. 25 mm (1") • High impact ABS case with rubber coated 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	10	pcs
06-021	Meter Stick	Color: Yellow Material: Wood Length: 1 meter	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	9	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-022	Pipe Wrench	Length= 12" Material: Cast Iron Max Jaw opening: 40-55 mm	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	5	pcs
06-023	Vise Grip, 7"	7" straight jaw Hard Steel	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	5	pcs
06-024	Vise Grip, 10"	10" straight jaw Chrome plated insulated handle	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	5	pcs
06-025	Tin Snip, 8"	8" metal cutting forged steel	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	5	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-026	Tin Snip, 10"	10" metal cutting forged steel	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	5	pcs
06-027	Ball Peen Hammer	<ul style="list-style-type: none"> • 12 oz • Drop forged carbon steel head • Handle material: Wood 	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	10	pcs
06-028	Rubber Mallet	<ul style="list-style-type: none"> • 16 oz (453.6 grams) • Wooden Handle 	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	10	pcs
06-029	Hack Saw with Blade	<ul style="list-style-type: none"> • Adjustable aluminum alloy frame with grip handle • 90° adjustable blade angle • 12 inches bi-metal hacksaw blade • 24 TPI 	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	10	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
06-030	Steel Rule	Length= 12 in / 30cm English and metric measurement Material: Stainless steel	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	9	pcs

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date





Technical Specifications

Lot 7 : Fabrication Tools, Equipment and Supplies

APPROVED BUDGET : One Million Four Hundred Seventeen Thousand Nine
FOR THE CONTRACT : Hundred Eight Pesos and 06/100 (₱1,417,908.06)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
07-001	Acrylic sheet 2.0mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-002	Acrylic sheet 3.0 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-003	Acrylic sheet 4.5 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-004	Acrylic sheet 5.0 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-005	Acrylic sheet 6.0 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-006	Acrylic sheet 10 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-007	Acrylic sheet 12 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
07-008	Acrylic sheet, diffuser white, 2 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-009	Acrylic sheet, diffuser white, 3 mm	Kindly refer to the technical specifications attached as Annex B7 .	20	pcs			
07-010	Band Saw Machine	Kindly refer to the technical specifications attached as Annex B7 .	2	units			
07-011	Table Saw Machine with Stand	Kindly refer to the technical specifications attached as Annex B7 .	5	units			
07-012	Miter Saw	Kindly refer to the technical specifications attached as Annex B7 .	5	units			
07-013	Drill Press Machine	Kindly refer to the technical specifications attached as Annex B7 .	5	units			
07-014	Jig Saw	Kindly refer to the technical specifications attached as Annex B7 .	5	units			
07-015	Cordless Portable Planer	Kindly refer to the technical specifications attached as Annex B7 .	5	units			
07-016	Cordless Sander	Kindly refer to the technical specifications attached as Annex B7 .	10	units			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
07-017	Circular Saw	Kindly refer to the technical specifications attached as Annex B7.	5	units			
07-018	Tube Bender Kit	Kindly refer to the technical specifications attached as Annex B7.	5	sets			

* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date

ANNEX B7

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
07-001	Acrylic sheet 2.0 mm	Clear Thickness : 2.0 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-002	Acrylic sheet 3.0 mm	Clear Thickness : 3.0 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-003	Acrylic sheet 4.5 mm	Clear Thickness : 4.5 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-004	Acrylic sheet 5.0 mm	Clear Thickness : 5.0 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-005	Acrylic sheet 6.0 mm	Clear Thickness : 6.0 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-006	Acrylic sheet 10 mm	Clear Thickness : 10 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs

27

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
07-007	Acrylic sheet 12 mm	Clear Thickness : 12 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-008	Acrylic sheet, diffuser white, 2 mm	Diffuser white Thickness : 2.0 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-009	Acrylic sheet, diffuser white, 3 mm	Diffuser white Thickness : 3.0 mm Dimension : 4ft x 8ft	Consumables	Brochure with picture and data sheet	- Checking the conformity with the quantity and material - Measurement of dimension	1 Year	N/A	N/A	20	pcs
07-010	Band Saw Machine	<ul style="list-style-type: none"> • Vertical • Supply: 220-240V~60Hz • Continuous rating Input: 900 W • Max cutting capacity: 165mm (6-1/2") • Blade: Replaceable for Wood or Metal • Throat: 305mm (12") • Blade speed <ul style="list-style-type: none"> - High: 3280 ft/min - Low: 1,640 ft/min 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	2	units



Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
07-011	Table Saw Machine with Stand	<ul style="list-style-type: none"> • Supply: 220-240 VAC 60Hz single phase • Power: 1800 W • Bevel Capacity : 0 - 45° • Max Cutting Capacity at 45° : 56 mm • Max Cutting Capacity at 90° : 76 mm • No Load Speed : 4800 rpm • Blade Size : 10" / 254 mm • Table Size : 610 x 508 mm • Includes Extra Carbon Brush • Includes Blade for Cutting Wood • With 4 Wheels For Easy Transportation 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units

 129

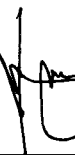


Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
07-012	Miter Saw	<ul style="list-style-type: none"> • Cordless • Voltage: 20V • No-load speed: 3000rpm • Blade size: 210mm (8-1/4")*25.4mm • Cutting capacity - 0°x0°: 120*60mm, - 45°x0°: 83*60mm - 0°x45°: 120*34mm - 45°x45°: 83*34mm • Lithium-Ion 2.0Ah battery • Battery and Charger fits to all Cordless Tools (Circular Saw: Item 07-017, Jig Saw: Item 07-014, and Cordless Sander: Item 07-016) 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units
07-013	Drill Press Machine	<ul style="list-style-type: none"> • Voltage: 220-240V~60Hz • Input Power: 1/3 - 1/2 HP • Max drilling capacity: 13mm • No-load speed: 3450 rpm • Spindle speed settings: 5 • Spindle travel: 50mm • Table size: 160*160mm • Machine height: 580mm 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units



130

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
07-014	Jig Saw	<ul style="list-style-type: none"> • Voltage: 20V • No-load speed: 2600 rpm • Cutting capacity <ul style="list-style-type: none"> - Metal: 8mm - Wood: 80mm • Lithium-Ion 2.0Ah battery • Battery and Charger fits to all Cordless Tools (Circular Saw: Item 07-17, Miter Saw: Item 07-012 and Cordless Sander: Item 07-016) 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units
07-015	Cordless Portable Planer	<ul style="list-style-type: none"> • No Load Speed: 14,000 Rpm • Planning Width: 3 1/4 In • Planning Depth: 0-2.0 mm • Voltage: 18V • 2-blade cutter head with double edge carbide blades 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units



Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
07-016	Cordless Sander	<ul style="list-style-type: none"> • Voltage: 20V • No-Load Speed: 10000/min • Bottom Bass: 125mm • Lithium-Ion 2.0Ah battery • Battery and Charger fits to all Cordless Tools (Circular Saw: Item 07-017, Jig Saw: Item 07-014, and Miter Saw: Item 07-012) 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	10	units
07-017	Circular Saw	<ul style="list-style-type: none"> • Voltage: 20V • No-load speed: 3600rpm • Blade diameter: 140mm • Max Cutting capacity: <ul style="list-style-type: none"> - 45°degree: 28mm - 90°degree: 40mm • Adjustable cutting depth • Adjustable bevel cutting • Lithium-Ion 2.0Ah battery • Battery and Charger fits to all Cordless Tools (Jig Saw: Item 07-014, Miter Saw: Item 07-012 and Cordless Sander: Item 07-016) 	Tools and Measuring Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	Yes	Yes	5	units



Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
07-018	Tube Bender Kit	Compatible with TUBE SIZES: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8" Capable for bending of up to 90 deg. of soft copper, aluminum and light wall hydraulic tubing Carrying box included	Tools and Measuring Instruments	Brochure with picture and data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	1 Year	N/A	N/A	5	sets

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date

133

Technical Specifications

Lot 8 : IT Equipment

APPROVED BUDGET : Thirty-Nine Million Two Hundred Ninety-Five Thousand
 FOR THE CONTRACT : Three Hundred Fifty-Four Pesos and 68/100
 (₱39,295,354.68)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
08-001	Computer Tower Workstation 32 GB with Dual Monitor	Kindly refer to the technical specifications attached as Annex B8 .	28	units			
08-002	Laptop i9	Kindly refer to the technical specifications attached as Annex B8 .	65	sets			
08-003	Laptop	Kindly refer to the technical specifications attached as Annex B8 .	10	sets			
08-004	Graphics Pen Tablet	Kindly refer to the technical specifications attached as Annex B8 .	28	sets			
08-005	UPS 600W	Kindly refer to the technical specifications attached as Annex B8 .	28	sets			
08-006	A3 Colour Laser Printer	Kindly refer to the technical specifications attached as Annex B8 .	2	sets			
08-007	A4 Printer	Kindly refer to the technical specifications attached as Annex B8 .	11	sets			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
08-008	CAD Plotter	Kindly refer to the technical specifications attached as Annex B8 .	1	set			
08-009	Label Printer	Kindly refer to the technical specifications attached as Annex B8 .	5	units			
08-010	Flash Drive	Kindly refer to the technical specifications attached as Annex B8 .	25	pcs			
08-011	External Drive Storage	Kindly refer to the technical specifications attached as Annex B8 .	10	pcs			
08-012	Wired Headset	Kindly refer to the technical specifications attached as Annex B8 .	28	sets			
08-013	24U rack cabinet	Kindly refer to the technical specifications attached as Annex B8 .	1	set			

* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder	Signature over Printed Name of Authorized Representative	Date

ANNEX B8

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-001	Computer Tower Workstation 32 GB with Dual Monitor	<ul style="list-style-type: none"> • Intel Xeon Processor W-2225 (4 cores, 4.1GHz to 4.6GHz Turbo, 8.25MB Cache, 105W) • Intel Integrated controller (RST-e) with 1-2 Front FlexBay NVMe PCIe Drives • 950W PCIe FlexBay Chassis CL • Slim ODD bezel, 100% tie with slim ODD • Precision TPM • 32GB 2x16GB DDR4 2933MHz RDIMM ECC Memory • 2 TB, M.2, PCIe NVMe, SSD, Class 40 • 2 TB, 7200 RPM, 3.5-inch, SATA • Nvidia T400, 2GB, 3 mDP to DP adapter • CPU Heatsink • 3.5" 2TB 7200rpm SATA AG-Enterprise Hard Drive • M.2 carrier • Intel NVME PCIe SSD (Front PCIe FlexBay) • Regulatory Label, APCC, 950W • Firmware and Driver for Intel 8265 Wi-Fi + Bluetooth module • Intel Dual Band Wireless AC 8265 (802.11ac) 2x2 + Bluetooth module • 125 V Power Cord • Wired Mouse and Keyboard (English) • Applications for Windows • Optimizer for Precision • Windows 10 Pro for Workstations (up to 4 cores, Includes Windows 11 Pro License) English • Endpoint Security (EPS) - 1 year subscription Anti-Virus, Endpoint Security, Anti 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Check package completeness - Functionality test 	1 Year	Yes	Yes	28	units



Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
		<p>Ransomware, Email Protection, IDS/IPS Protection, Firewall Protection, Phishing Protection, Browsing Protection, SMS Notification, Vulnerability Scan, Roaming Platform, GoDeep.AI, Asset Management, Spam Protection, Web Filtering, Advanced Device Control, Application Control, Tuneup, File Activity Monitor, Patch Management, Data Loss Prevention</p> <ul style="list-style-type: none"> • Monitor : 2 x 27 inches - Panel Type: IPS - Native Resolution: QHD 2560 x 1440 at 60 Hz - with stand - Warranty : 3 years on parts, labor and onsite support <ul style="list-style-type: none"> • Online Double Conversion Tower UPS - Capacity: 2000VA/1800W - Nominal Voltage: 220-240VAC - Input Voltage: 110-300VAC - Frequency Range: 40-70Hz - Power Factor: ≥ 0.99 - Transfer Time: Zero - Output Socket: 4 x Universal Type (Surge Protection & Battery Back-Up) - Waveform: Pure Sinewave - Battery Type: 4 x 12V 9Ah 								



Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-002	Laptop i9	<ul style="list-style-type: none"> • Core i9-12900H vPro with NVIDIA RTX A2000 8GB graphics, 24MB cache, 14 cores, 20 threads, 2.50 GHZ to 5.00Ghz, 45W • 15.6" FHD +1920 x 1200, 60Hz • 16GB, (2x 8GB) DDR5, 4800Mhz, Non-ECC SODIMM • M.2 2280 1 TB Gen 4 PCIe x 4 NVME, Solid State Drive • 3-cell 56WHr Lithium Ion Battery with Express Charge • USB Type-C to USB Type-A/HDMI Dongle • NVIDIA RTX A2000, 8GB DDR6 • 130W E5 Type C Power Adapter (EPEAT) • Wifi 6E (6Ghz) AX211 2x2 with Bluetooth Wireless • Wireless Intel AX 211 WLAN Driver • Windows 10 Pro (Includes Windows 11 Pro License) English • Batteries - 1 year warranty • Endpoint Security (EPS) - 1 year subscription • Anti-Virus , Endpoint Security , Anti Ransomware , Email Protection, IDS/IPS Protection, Firewall Protection, Phishing Protection, Browsing Protection , SMS Notification, Vulnerability Scan, Roaming Platform, GoDeep.AI, Asset Management, Spam Protection , Web Filtering, Advanced Device Control, Application Control , Tuneup, File Activity Monitor, Patch Management, Data Loss Prevention • Warranty : 3 years on parts, Labor and onsite support 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Checking of specification (offered vs. actual) - Check package completeness - 24 Burn-in test using PassMark 	1 Year	Yes	Yes	65	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-003	Laptop	<ul style="list-style-type: none"> • Processor: Intel Core i7 1165G7, 4 cores 8 threads, 12M cache, up to 4.70 GHz, 11th Gen or higher • Memory: 8GB DDR4 • Hard Drive: 1TB HDD + 256GB SSD • Graphics Card: 2GB MX330 • Display: 15.6" IPS, Full HD 1920 x 1080 • Gigabit Ethernet • Operating System: Windows 10 or latest • Includes Autovolt (80-240 VAC) power supply adapter 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Checking of specification (offered vs. actual) - Check package completeness - 24 Burn-in test using PassMark 	1 Year	Yes	Yes	10	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-004	Graphics Pen Tablet	<ul style="list-style-type: none"> • Display: 39.6 cm (15.6 in) / Full HD 1920 x 1080, IPS • Response Rate : 22 ms to 25 ms • Aspect Ratio / Brightness : 16:9 / 210 cd/m2 (typ) • Connectivity: 3-in-1 cable (with HDMI 1.4, USB 2.0 and AC Adapter - 12V, 3A, 36W) • Pen : Battery - Free Pro Pen 2 with customizable side switches and 8192 pressure levels in both pen tip and eraser (Patented electromagnetic resonance technology) • Pen Tilt Recognition / Range : +/- 60 levels / 60 degrees • Compatibility / System Requirements : Windows® 7 or later (latest service pack/build), OS X 10.12 or later (latest update); Internet access for driver download. • Included: Pen display, Pro Pen 2, detachable pen holder with 3 replacement nibs (standard) and nib removal tool, 3 in 1 cable (1.8m), Quick Start Guide, regulation sheet • 100-240 VAC, 50/60HZ • Warranty : 1 year standard warranty 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Checking of specification (offered vs. actual) - Check package completeness - 24 Burn-in test using PassMark 	1 Year	Yes	Yes	28	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-005	UPS 600W	<ul style="list-style-type: none"> • Capacity: 1000VA/600W • Voltage: 220-240VAC +/- 10% • Frequency: 50/60Hz +/- 10% (auto-sensing) • Sine-wave • Battery: 12 V/7 AH x 2 • Output Socket: 4 x Universal Type (Surge Protected & Battery Backed-Up) • Warranty: Two (2) Years on UPS Electronics and One (1) Year on Battery • Compatible with Item 09-002 Standalone Computer 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Checking of specification (offered vs. actual) - Check package completeness - 24 Burn-in test using PassMark 	1 Year	Yes	Yes	28	sets
08-006	A3 Colour Laser Printer	<ul style="list-style-type: none"> • Maximum Print Resolution: 1200 x 1200 dpi • Processor: min. 400MHz • Memory (Min / Max): 256MB / 1,024MB (with optional 768MB module) • Maximum Monthly Duty Cycle: Up to 100,000 pages • Print Speed: (Black & Colour) Up to 35 ppm (Simplex) / Up to 25 ppm (Duplex) • Input Capacity: Up to 405 sheets • Output Capacity: Up to 250 sheets • Support Paper Size: <ul style="list-style-type: none"> - Paper Cassettes: A5, A4 (SEF, LEF), A3, B5, B4, Letter (SEF, LEF), Legal, US B, Custom: 210 x 148 mm to 297 x 431.8 mm - MP Tray: A6, A5, A4 (SEF, LEF), A3, B5, B4, Half Letter, Executive, 8 x 10.5 in, 8.27 x 13 in, Letter (SEF, LEF), 8.5 x 13 in, Legal, US B, Monarch Envelopes: #10, DL, C6, C5, B5, Custom: 75 x 98 mm to 297 x 431.8 mm • Connectivity: USB 3.0, Ethernet • Power Source: AC 220-240 V, 50-60 Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-007	A4 Printer	<ul style="list-style-type: none"> • Print, Scan, Copy • Inkjet • Mac OS and Windows Compatible • 100 sheets input tray • 30 sheets output tray • A4, A5, A6, B5, B6, Legal, Letter, 5 x 7", 4 x 6", Envelopes: #10, DL, C6 • Maximum Resolution: 5760 x 1440 dpi • Ink tank: 1 black, 1 color (cyan, magenta, yellow) • Wi-Fi, Wi-Fi Direct • AC 220-240V, 50-60 Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality test - Check package completeness 	1 Year	Yes	Yes	11	sets




Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-008	CAD Plotter	<ul style="list-style-type: none"> • 36-inch Large Format multifunction technical printer with built-in scanner • Top class line accuracy • Outstanding speeds of up to 2 A1 prints per minute • Precision Printhead Technology • Nozzle Configuration: 3,200 nozzles (800 nozzles x 4 channels x 1 head) • Pigment Ink: 4 Colours - Cyan, Magenta, Yellow, Black • Print Speed: CAD (A1): 22 sec • Max. Roll Diameter: 2/3" Core • Connectivity: USB, Ethernet Wi-Fi Direct • Printer Management: Edge Dashboard, Accounting Tool • Power Source: AC 100-240V, 50/60Hz, 2.8A <p>Included Software:</p> <ul style="list-style-type: none"> • WindowsInstall Navi - Printer driver - Setup - Print - Net Config - Software Updater - Print Plug-in for Office - manuals • Mac Setup Navi • I/F: USB/LAN/WiFi 	Equipment	Brochure with picture and data sheet	- Functionality test - Check package completeness	1 Year	Yes	Yes	1	set



Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-009	Label Printer	<ul style="list-style-type: none"> • QWERTY Keyboard • Tape width: 6 - 24 mm • Supports 8-lines printing, 175 characters • Store up to 100 custom label designs; 460 symbols • PC / Mac - connectivity • includes: <ul style="list-style-type: none"> - 6mm label stickers/tape 10 pcs - 9mm label stickers/tape 10 pcs - 12mm label stickers/tape 10 pcs - 18mm label stickers/tape 10 pcs - 24mm label stickers/tape 10 pcs • 6 pcs AA battery • Warranty: 1 year parts, labor and onsite support 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing 	1 Year	N/A	N/A	5	units
08-010	Flash Drive	<ul style="list-style-type: none"> • Capacity: 256 GB • Interface: USB 3.0 • Connector: USB-A • Compatibility: USB 3.0 (backwards compatible with USB 2.0) • Read Speed: Up to 130MB/s 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Checking the conformity of hardware vis-a-vis offered specifications 	1 Year	N/A	N/A	25	pcs
08-011	External Drive Storage	<ul style="list-style-type: none"> • USB 3.0 • Capacity: 8TB • Max. Data Transfer: 160 MB/s • Integrated USB Hub • Includes backup software, power adapter • 1-Year Warranty 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Checking the conformity of hardware vis-a-vis offered specifications 	1 Year	N/A	N/A	10	pcs

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
08-012	Wired Headset	<ul style="list-style-type: none"> • Connectivity: Wired - USB-A • Connects to: Computer • Wearing Style: On-Ear • Boom, Noise-cancelling microphone • 1-year Warranty 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Checking the conformity of hardware vis-a-vis offered specifications - Functionality test - Check package completeness 	1 Year	N/A	Yes	28	sets
08-013	24U rack cabinet	<ul style="list-style-type: none"> • 4x 24U enclosure • Atleast 3 adjustable front and rear vertical mounting rails • Mid depth, extended to 33" for standard server installation • Locking, reversible front/rear doors and locking, removable side panels • Fully assembled for quick installation • Casters and leveling feet included • With 2x Cat5 upjacketed cable - total of 100m, U/UTP, 24 AWG bare copper 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date



145



Technical Specifications

Lot 9 : Multimedia Equipment

APPROVED BUDGET : Thirty-Eight Million Five Hundred Thirty-Six Thousand
 FOR THE CONTRACT : Seventy-Seven Pesos and 45/100 (P38,536,077.45)

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
09-001	3D Printer	Kindly refer to the technical specifications attached as Annex B9 .	5	sets			
09-002	IP 4K Pan-Tilt-Zoom Camera with NDI	Kindly refer to the technical specifications attached as Annex B9 .	4	units			
09-003	IP remote control panel for PTZ cameras	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-004	55" LED TV Smart Multi View Monitor	Kindly refer to the technical specifications attached as Annex B9 .	3	sets			
09-005	55" LED TV Smart Monitor	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-006	43" Teleprompter Monitor	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-007	65" Interactive Display	Kindly refer to the technical specifications attached as Annex B9 .	7	sets			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
09-008	Rack Frame	Kindly refer to the technical specifications attached as Annex B9 .	1	pc			
09-009	Embedder / Disembedder	Kindly refer to the technical specifications attached as Annex B9 .	2	units			
09-010	USB Audio Interface	Kindly refer to the technical specifications attached as Annex B9 .	2	units			
09-011	HDMI to USB 3.0 Capture Box	Kindly refer to the technical specifications attached as Annex B9 .	3	units			
09-012	Playback Software	Kindly refer to the technical specifications attached as Annex B9 .	1	license			
09-013	Digital Audio Mixer	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-014	Digital Snake	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-015	Wideband Wireless Receiver	Kindly refer to the technical specifications attached as Annex B9 .	1	set			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
09-016	Narrow Band Beltpack Transmitter	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-017	Wideband Antenna w/ Booster	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-018	IEM Transmitter	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-019	IEM Receiver	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-020	Digital Audio Reference Meter	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-021	Speaker Monitor Powered	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-022	12" Powered Bi Amplified Monitor Speaker	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-023	Professional Large Diaphragm Headphone	Kindly refer to the technical specifications attached as Annex B9 .	12	sets			

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Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
09-024	Intercom System	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-025	Channel A-B linking	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-026	Communication Headset	Kindly refer to the technical specifications attached as Annex B9 .	3	sets			
09-027	9" Communication Microphone	Kindly refer to the technical specifications attached as Annex B9 .	3	sets			
09-028	Studio Furnitures	Kindly refer to the technical specifications attached as Annex B9 .	6	sets			
09-029	DNXIQ I/O Interface	Kindly refer to the technical specifications attached as Annex B9 .	6	units			
09-030	16-17" Production Monitor	Kindly refer to the technical specifications attached as Annex B9 .	6	sets			
09-031	5" Powered Studio Bi amp Monitor	Kindly refer to the technical specifications attached as Annex B9 .	12	sets			



Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
09-032	Advance Panel	Kindly refer to the technical specifications attached as Annex B9 .	1	unit			
09-033	Digital Audio Interface	Kindly refer to the technical specifications attached as Annex B9 .	3	units			
09-034	88Keys MIDI Keyboard Controller	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-035	Eucon Desktop Control Surface Control Panel	Kindly refer to the technical specifications attached as Annex B9 .	3	units			
09-036	Smart-UPS 900W	Kindly refer to the technical specifications attached as Annex B9 .	6	sets			
09-037	Post Production Furniture	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-038	SDI/HDMI Wireless Video Transmission System	Kindly refer to the technical specifications attached as Annex B9 .	3	sets			
09-039	Short Shotgun Microphone	Kindly refer to the technical specifications attached as Annex B9 .	3	sets			

Item Code	Item Name	Agency Specification	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
09-040	2-Person Camera-Mount Wireless Combo Microphone System Kit	Kindly refer to the technical specifications attached as Annex B9 .	3	sets			
09-041	Custom Server Rack	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-042	17.3" Full HD 12G-SDI LCD Monitor	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-043	9 Feet x 12 Feet LED Wall Configuration	Kindly refer to the technical specifications attached as Annex B9 .	2	sets			
09-044	LED Video Wall Playback Software	Kindly refer to the technical specifications attached as Annex B9 .	1	set			
09-045	Multi Touch Interactive Whiteboard	Kindly refer to the technical specifications attached as Annex B9 .	16	sets			

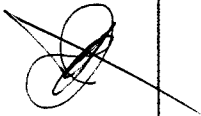
* Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder **Signature over Printed Name of Authorized Representative** **Date**

ANNEX B9

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-001	3D Printer	<p>3D Printer Properties</p> <p>Molding Technology: FDM (Fused Deposition Modeling) Printing Size: 400x400x400mm Supported Materials: PLA/TPU/PETG/ WOOD File Transfer: USB/Memory card</p> <p>3D Printer Hardware</p> <p>Machine size : 725x640x691mm Motherboard: Silent motherboard Nominal Voltage: 100v-240v Rated Power: 500W Output Voltage: 24V</p> <p>3D Printer Extruder Hardware</p> <p>Layer Thickness: 0.1-0.4mm Print Resolution: ±0.1mm Nozzle Temperature: ≤260°C Nozzle Diameter: standard 0.4mm Hotbed Temperature: ≤90°C</p> <p>Includes:</p> <ul style="list-style-type: none"> • PLA 3D Printer Filament, 1.75mm, 1kg Clear Reusable Spool • Upgraded PLA 3D Printer Filament, 1.75mm, 200g x 5 Pack 	Equipment	Brochure with picture and data sheet	- Functionality test - Check package completeness	1 Year	Yes	Yes	5	sets



Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-002	IP 4K Pan-Tilt-Zoom Camera with NDI	<ul style="list-style-type: none"> • NDI/HX capability with built-in 4K functions • Image Sensor: 1/2.3-5" MOS, approx. ≤8.5M pixels • Format: <ul style="list-style-type: none"> - 2160/23-30p - 1080/23-60p - 1080/59.94i, 50i - 720/50-60p • Minimum Illumination: 0.35 lux • Resolution: Max. 3840x2160 • Zoom: Min. 20x • Pan/Tilt Speed: Max 300°/s; Min. 90°/s • Focus, Exposure, White Balance: Auto/Manual • Compression Format: H.264, MJPEG, MPEG4 • Bitrate Setting: 512 Kbps ~ 50 Mbps • Protocols: IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, DHCP, DNS, RTP/RTCP, RTSP, UPnP, VISCA over IP • Power Supply: 100-240 AC 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	4	units
09-003	IP remote control panel for PTZ cameras	<ul style="list-style-type: none"> • Max 112 IP connections • Max 5 controllers on single network • RJ45 Ethernet Port • With preset setting • With joystick • Power supply: 10-13.2V DC, 3.6W 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set
09-004	55" LED TV Smart Multi View Monitor	<ul style="list-style-type: none"> • 55" monitor • UHD 12G-SDI LCD Monitor • 3840 x 2160 resolution • Backlight Type: Direct (Full Array LED) • HDR (High Dynamic Range) Compatibility: (HDR10, HLG, Dolby Vision) • Picture Processor: Cognitive Processor XR • Smart TV (Google TV) • Power Supply- 110 V – 240 V AC, 50-60Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-005	55" LED TV Smart Monitor	<ul style="list-style-type: none"> • 55" screen size Smart TV • 3840 x 2160 UHD LED • Brightness: Min. 350 nit • Contrast: Min. 4000:1 • HDR Compatible • Built-in WiFi • 2 USB 2.0 ports, 1-2 output • Power Supply: 110 V – 240 V AC, 50-60Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set
09-006	43" Teleprompter Monitor	<ul style="list-style-type: none"> • 43" monitor • 1920 x 1080 Full HD • HDMI 2 input • HDR compatible • With Customized Stand • Power Supply: 100-240V AC, 50/60Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set
09-007	65" Interactive Display	<ul style="list-style-type: none"> • Display 3,840 x 2,160 (UHD) • IPS Technology • Brightness : 350nit (w Glass, Typ.) • Multi Touch Point : 20 Points (Max.) • Interface : HDMI, RGB, Audio In, RS-232C In, RJ45, USB 3.0 Type A, USB 2.0 Type A, Audio Out / Optical Output, Touch USB • Integrated module plug-in • Windows 10 • Mobile Stand • Power Supply: 100-240 V AC, 50/60 Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Check package completeness 	1 Year	Yes	Yes	7	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-008	Rack Frame	<ul style="list-style-type: none"> • 2RU frame with up to 20 slot capacity • 600 watts total power • Integrated LCD display for name, IP address and fault identification • With glowing displays for customized identification and alarming • Support for analog, digital, video, audio, SDI and IP modules in the same frame • Removable front door and air filter • Uses DashBoard control system • Includes preinstalled standard network card (MFC-8322-S) 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	N/A	N/A	1	pc
09-009	Embedder / Disembedder	<ul style="list-style-type: none"> • openGear compatible card • 3G-SDI Embedder/Disembedder • 8-Channel Balanced Analog Audio I/O • Controlled by DashBoard network control software and external DIP switch • 8x 3-Pin Terminal Block connectors (included) • Compatible with OGX, OG3 and DFR-8321 openGear frames 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	units
09-010	USB Audio Interface	<ul style="list-style-type: none"> • Three ultra-low-noise microphone preamps • Create a mix using the built-in 3 x 2 portable mixer • 5-in, 2-out USB audio interface streams to computer via USB-C 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	units
09-011	HDMI to USB 3.0 Capture Box	<ul style="list-style-type: none"> • USB 3.0 Interface • Plug-and-Play • Compatible with various operating systems • Stereo line in external audio 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-012	Playback Software	<ul style="list-style-type: none"> • Live switching video sources • Transitions • Lower Thirds • Chroma Keying, Green Screen • Picture-in-Picture • Mix Audio Inputs • Instant Replay • Social Media Integrations • Compatible with Apple Mac computer, 64-bit, macOS 10.x or newer 	Software	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	license
09-013	Digital Audio Mixer	<ul style="list-style-type: none"> • Up to 40 Simultaneous Input Channels • 25 Phase-Coherent Mix Buses • 16 Microphone Preamps • 5" Full-Color TFT Display Screen • 8 Stereo Signal Processing FX Engines • 17 Motorized Faders • 192 kHz ADC & DAC Converters • AES50 Networking Allows 96-In & 96-Out • 8 DCA & 6 Mute Groups • Inclusive of Dant / Madi/ AES 50 Compatible Optional Cards • Power Supply: 100-240 VAC (50/60 Hz) +/- 10% 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set
09-014	Digital Snake	<ul style="list-style-type: none"> • 32 Mic Preamps with +48V • 16 Low Impedance Line Level Outputs • Ultranet Monitoring System Connectivity • Dual ADAT Outputs • Dual AES50 Ports for Cascading Units • Remote Operation Up to 100 m via CAT5 • Rugged 3U Rackmount Chassis 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set
09-015	Wideband Wireless Receiver	<ul style="list-style-type: none"> • Dual true diversity in a 19" 1U stand-alone format • Switching bandwidth up 370 MHz in the UHF range • 40 groups of 60 frequencies, fully user programmable • Multi-computer operation 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-016	Narrow Band Beltpack Transmitter	<ul style="list-style-type: none"> • Narrowband is Compatible with MPR52 & MRK980 Receivers • Not compatible with the MCR42s receiver • Linear Mode for Intermod free transmission • Narrowband RF transmission – 25KHz tuning bandwidth 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets
09-017	Wideband Antenna w/ Booster	<ul style="list-style-type: none"> • Working bandwidth of 470-870 MHz • Sturdy metal body construction and epoxy protection on cable joints • Optimized 6dB gain with a typical beam-width of 90 degrees • Very high linear booster (OIP3 40 dBm) with 15 dB gain settable in one step dB step 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets
09-018	IEM Transmitter	<ul style="list-style-type: none"> • 330 MHz Bandwidth (470-800 MHz) • Stereo, mono, intercom audio modulation • 2400 user-defined frequencies (40 group by 60 freq.) • Analog & digital input (AES3) 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set
09-019	IEM Receiver	<ul style="list-style-type: none"> • Up to 790 MHz bandwidth in 470/1260 MHz range • 2 Channel Receive • Wideband and Narrowband DSP-FM operation • DSP Analogue & Digital Audio Output (AES3) 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets
09-020	Digital Audio Reference Meter	<ul style="list-style-type: none"> • Two Channel Digital Loudness Meter • 2 RU, curved side-by-side 	Electronic Instruments	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set
09-021	Speaker Monitor Powered	<ul style="list-style-type: none"> • 5" Bi Amplified Nearfield Monitor • 47Hz-25kHz (-6 dB) frequency response • Rear Ported • 100W, 100-240 V AC 50/60 Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-022	12" Powered Bi Amplified Monitor Speaker	12" two-way bass reflex Power Rating (W, Continuous): 500 Power Rating (W, Peak): 1000 Frequency Response Hz (±3 dB): 57 - 20,000 Maximum SPL (peak dB): 126 Coverage Pattern (Nominal): 100° x 60°	Equipment	Brochure with picture and data sheet	- Functionality test - Check package completeness	1 Year	Yes	Yes	2	sets
09-023	Professional Large Diaphragm Headphone	<ul style="list-style-type: none"> • Wired, dynamic, closed ear-design • 40mm driver unit and Neodymium magnet • 1000mW, 10-20kHz, 63 Ohms, 106dB • Max. 9.8 foot cord with 1/4" gold plated stereo unimatch plug 	Gadgets and Devices	Brochure with picture and data sheet	- Functionality test - Check package completeness	1 Year	Yes	Yes	12	sets
09-024	Intercom System	<ul style="list-style-type: none"> • 2 RU 4-channel main station with programmable front panel buttons, individual channel short-circuit protection, individual channel volume control, and a regulated fail-safe power supply • With built-in speaker • Supports up to 55 beltpacks or 10 speaker stations, or 12 headset stations • Microphone Input: Electret (Panel), Dynamic (Headset), >= 1K - >= 2K Impedance, >= 17dB - >= 20dB • Atleast 200 - 10kHz ± 3dB frequency response • <= 0.5% max. distortion • Atleast < -50dBu noise • Power: 100-240V AC, 50-60Hz 	Equipment	Brochure with picture and data sheet	- Functionality test - Check package completeness	1 Year	Yes	Yes	1	set

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-025	Channel A-B linking	<ul style="list-style-type: none"> • 2 RU 2-channel main station with programmable front panel buttons, individual channel short-circuit protection, individual channel volume control, and a regulated fail-safe power supply • With with built-in speaker • Supports up to 55 beltacks or 10 speaker stations • Microphone Input: Electret (Panel), Dynamic (Headset), >= 1K - >= 2K Impedance, >= 15dB - >= 20dB • Atleast 200 - 10kHz ± 3dB frequency response • <= 0.5% max. distortion • Atleast < -50dBu noise • Power: 100-240V AC, 50-60Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets
09-026	Communication Headset	<ul style="list-style-type: none"> • Single Ear Headset • Headphone: <ul style="list-style-type: none"> - Closed-back - 40mm diameter, neodymium magnet, copper-clad aluminum wire voice coil - 40Hz - 20kHz frequency response - -61dB ±3.5dB • Microphone: <ul style="list-style-type: none"> - Dynamic, hyper-cardioid - 40mm diameter, neodymium magnet, copper-clad aluminum wire voice coil - 300Hz - 20kHz frequency response - 102dB ±3dB • Impedance Mic/Headphone: 200ohms/400ohms • Cushioned with soft leatherette padding • 300-degrees boom mic rotation • Compatible with Item 04-034 Intercom System and 04-035 Channel A-B linking 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	sets

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-027	9" Communication Microphone	<ul style="list-style-type: none"> • 9" plug-in gooseneck microphone • Gold-plated, threaded, and locking 3-conductor quarter-inch connector • Uni-directional electret condenser microphone • Side and rear rejection of greater than 6 dB between 100 Hz and 10 kHz • Includes fitted windscreen • Compatible with Item 09-024 Intercom System and 09-025 Channel A-B linking 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	sets
09-028	Studio Furnitures	<ul style="list-style-type: none"> • Sit-Stand Workstation • Patented Stabilization System • 3 Height Programmable Memory • 200 lb Lifting Capacity - Evenly Distributed • Monitor arm (4.5-17 lb capacity) • 160 speaker mounts (2) • Utility shelves (2) • Pull-out keyboard tray • CPU mount • Dual 8 Space Rack Bays - 1st rack space (on each bay) has a 3.75" depth restriction • Steel Legs with Floor Levelers • Aluminum Extrusion Accessory Rail • Power: 100-240V AC 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	6	sets
09-029	DNXIQ I/O Interface	<ul style="list-style-type: none"> • Analog and digital I/O for SD-4K capture • HDR monitoring and output • Built-in baseband encoding to UHD TV post-production codec • Audio punch-in to film and video editing software application or non-linear editing system • Audio Mastering • Connects to the widest range of cameras and devices • 12V-24V DC • 1 year warranty 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	6	units

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-030	16-17" Production Monitor	<ul style="list-style-type: none"> • 16-17" Diagonal Screen Size • Supports 1080p60 Video Signals • SDI Inputs with Active Loop-Through Out • 178°/178° H/V Viewing Angle • Embedded Audio Decoding and Display • 1920 x 1080 Native Resolution • 2 x 3G/HD/SD-SDI Inputs • HDMI and Composite Inputs • Waveform, Vectorscope, Focus Peaking • 12 VDC Input on 4-Pin XLR • For post production • Power: 100 - 240V AC, 50-60Hz • 1 year warranty 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Check package completeness 	1 Year	Yes	Yes	6	sets
09-031	5" Powered Studio Bi amp Monitor	<ul style="list-style-type: none"> • LF Driver Size: 5" • Frequency Response 43Hz - 40KHz • Max SPL 104dB • Power Output 55 Watts • Input Impedance 5.12KΩ Balanced • Balanced TRS/XLR Combo Jacks • Output Power: 70W • For post production • 1 year warranty 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Measurement of monitor - Functionality test - Check package completeness 	1 Year	Yes	Yes	12	sets
09-032	Advance Panel	<ul style="list-style-type: none"> • Y Lift, Y Gamma and Y Gain • Contrast and Pivot • Midtone Detail • Color Boost • Shadows and Highlights • Saturation • Luminance Mix • Mac/PC compatible • 1 year warranty 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	unit

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-033	Digital Audio Interface	<ul style="list-style-type: none"> • Eight of the best performing mic preamps • Four monitor outs • Two high headroom instrument inputs • Built-in talkback mic • Includes 12V-48V DC power supply • Mac/PC compatible • 1 year warranty 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	units
09-034	88Keys MIDI Keyboard Controller	<ul style="list-style-type: none"> • 88-key hammer-action Fatar keybed with true piano feel • Intuitive integration with all your virtual instruments and effects • Two high-res color screens and Light Guide for at-a-glance visual feedback • Comes with essential production suite, including premium instruments, and effects, and sounds covering any genre for artists and max 50 GB library 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set

Item Code	Item Name	Agency Specification	Classification	Test Parameters (Post Evaluation)	Test Parameters (Inspection and Acceptance)	Onsite Warranty (Parts and Service)	Training	English Manual	Qty	Unit
09-035	Eucon Desktop Control Surface Control Panel	<ul style="list-style-type: none"> • 8-unit touch-sensitive and motorized faders, touch-sensitive knobs, and touchscreen-integrated keys • High-speed EuCon Ethernet protocol • High-resolution OLED displays, Automation LEDs, track color switches • Connect multiple units together or add an optional Pro Tools/Dock to create a single extended, integrated surface with a jog wheel, transport controls, focus fader, and more • High-res metering, including gain reduction, 9.1 surround support, automation status, EQ, dynamics, and panning graphs • Compatible with Pro Tools, Cubase, Logic Pro, Premiere Pro, Nuendo, and the free Control app for iOS and Android • Includes Autovolt (80-240 VAC) power supply adapter • Mac/PC compatible • 1 year warranty 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	units
09-036	Smart-UPS 900W	<ul style="list-style-type: none"> • Power Rating: 900W • VA Rating: 1500VA • Output Voltage: 230V • Input Voltage.: 230V • Current Rating: 6.5A 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	6	sets
09-037	Post Production Furniture	<ul style="list-style-type: none"> • Patented Stabilization System • 3 Height Programmable Memory • 200 lb Lifting Capacity • Monitor arm (4.5-17 lb capacity) • 160 speaker mounts (2) • Utility shelves (2) • Pull-out keyboard tray • CPU mount • Dual 8 Space Rack Bays - 1st rack space (on each bay) has a 3.75" depth restriction • Heavy Duty Steel Legs with Floor Levelers • Aluminum Extrusion Accessory Rail 	Electronic Furniture	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets

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09-038	SDI/HDMI Wireless Video Transmission System	<ul style="list-style-type: none"> • Entry-Level 1080p60 Transmitter/Receiver • SDI/HDMI Input and Output • 400' Range; L-Series Battery Plates • Wi-Fi Transmission to 4 Mobile Devices • Fits Mars 300/400/400S or 400S Pro • Hot Shoe to 1/4"-20 Male Post Adapter • Compatible with DSLR/SLR camera, camcorder, laptop, monitor, tablet, cellphone • With case 	Gadgets and Devices	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	sets
09-039	Short Shotgun Microphone	<ul style="list-style-type: none"> • For Indie Films, TV & Documentaries • Switchable Low-Cut Filter • Phantom Powered • High Sensitivity Requires Less Gain • Operating Voltage: 40 to 52 V (Phantom Power) 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	sets

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09-040	2-Person Camera-Mount Wireless Combo Microphone System Kit	<ul style="list-style-type: none"> • 2-Channel Camera-Mount Receiver • 2 x Omnidirectional Lav Mics • 2 x Bodypack Transmitters • Waterproof Case & Receiver Output Cables • Plug-On, Omni Handheld Mic • Battery operated, 2 AA • Compatible with 600mhz frequency allocation 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	3	sets
09-041	Custom Server Rack	<ul style="list-style-type: none"> • Width: EIA Standard 19" Rack Rails • External Width: 23.6" – 600mm • Height: 78.74" – 2,000mm – Rack Units: 42U • Depths: 39.37" & 41.34" • Sidewalls, Split rear Doors • Baying Kits, Toolless Shelves, Casters, Bolt Down Kits, Cable Management • Power Strips – Vertical or Rackmount, Enclosure Monitoring System • Toolless Blanking Panels, Fans 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set




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09-042	17.3" Full HD 12G-SDI LCD Monitor	<ul style="list-style-type: none"> • With DCI 4K Support • 17.3" 1920 x 1080 Native 10-Bit Panel • Supports HDR and Gamma Selection • 178° Viewing Angle Top/Bot, L/R • Built-In Signal Analyzers • Timecode and Audio Level Meter Display • Supports SD/HD/4K DCI and UHD up to 60p • Color Space Adjustment via 3D LUT • HDMI, SFP, 12G-SDI, 3G-SDI Inputs • Safe Area Markers and Focus Aid Function • 12 VDC and 110/220 AC Power 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets
09-043	9 Feet x 12 Feet LED Wall Configuration	<ul style="list-style-type: none"> • Pixel Pitch 6mm IP 67 Compliant • Pixel Configuration 3-in-1 SMD • Module Resolution 32*32 • Module Pixels 1024 dots • Module Size 192*192mm • Cabinet Size (W*H) 960*960mm • Pixel Density 40000dots/m2 • Physical Resolution of Panel (W × H) 96 × 192 • Weight Per Panel 11.2 kg/panel • Custom Reinforce Support and mounting System 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	2	sets
09-044	LED Video Wall Playback Software	<p>LED Video Wall Playback Software Live Composite and Effects Real Time Rendering Audio & Visual Plugins</p>	Software	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	1	set

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09-045	Multi Touch Interactive Whiteboard	<ul style="list-style-type: none"> • Screen Size:86" • Panel Technology: IPS • Aspect Ratio: 16:09 • Multi Touch: Max 20 points / Max 10 writing & dual pen compatible • Native Resolution: Ultra HD (3,840 x 2,160 resolution) • (Input) Video / Audio: HDMI (3), RGB / Audio In • (Input) External Control: RS232C In, RJ45 • (Input) USB: USB 2.0 (3, Front : 2ea, Bottom side: 1ea Only for software update), USB 3.0 (3), Touch Out (USB2.0,B Type) (2) • Monitor Dimension (W x H x D): 1,957x1,160x86mm • Speaker: Built in 24W (12W + 12W) • Operating System Support: Windows 7/8/10/WindowsXP/Linux/Mac/Android (WindowsXP/Linux/Mac Support one point touch) • Built-in OPS kit • Supports Air Class & screen sharing • With Modular On-Board-Processing-System Accessory Basic: Power Cord 3 M*1, USB Cable (Type A-Type B) 5 M*1, HDMI Cable 3 M*1, Writing Pen*2pcs, User Manual, QSG, Carton Box, Remote Control • Power Supply: 100-240 V~, 50/60 Hz 	Equipment	Brochure with picture and data sheet	<ul style="list-style-type: none"> - Functionality test - Check package completeness 	1 Year	Yes	Yes	16	sets

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

Name of Company/Bidder

Signature over Printed Name of Authorized Representative

Date



167

