



BID BULLETIN 01

Date: 25 November 2020

Project Title: Supply and Installation, Testing and Commissioning of Audio, Lights and LED Video Wall (GOODS-21-04)

Location: VSU Main, Visca, Baybay City, Leyte

Bidders are hereby informed/reminded of the following addendums/amendments/clarifications:

I. LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or PhP 5,000,000.00)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 5,000,000.00 and the largest of which should be at least PhP 2,500,000.00.
4	Net Financial Contracting Capacity (at least PhP 10,000,000.00)
	Or
	Committed Line of Credit (at least PhP 1,000,000.00)
<i>Technical Documents</i>	
5	Bid Security
6	Technical Specifications
7	SCHEDULE of Requirements/Production and delivery schedule
8	Manpower Requirements
9	After Sales service/parts (at least 1 year from acceptance of delivered goods)
10	Original Duly Signed Omnibus Sworn Statement
<i>Financial Documents</i>	
11	The Supplier's Audited Financial Statements
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



Please take note:

In the **Technical Specifications**, bidders must state either “Comply” or “Not Comply” **against each of the individual parameters of the specifications** per item stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of **manufacturer’s un-amended sales literature (Data Sheets), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model** 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 Bidders 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 provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1 (a)(ii).

II. Preparation of Electronic Bid (for bidders who prefer electronic bid submission)

1. Convert all documents into Portable Document Format (PDF) and should be printable.
2. Properly label all documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Registration Certificate (SEC/DTI)	Registration Certificate
3. Mayor’s/Business Permit	Mayor’s-Business Permit
4. Tax Clearance	Tax Clearance
5. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
6. Statement of Bidder's Single Largest Completed Contract	SLCC
7. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
8. Bid Security	Bid Security
9. Technical Specifications	Technical Specifications
10. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
11. Manpower Requirements	Manpower Requirements
12. After Sales service/parts	After Sales
13. Omnibus Sworn Statement	Omnibus Sworn Statement
14. Audited Financial Statements	Audited Financial Statements
15. Net Financial Contracting Capacity	NFCC
16. Committed Line of Credit	CLC
17. Bid Form	Bid Form
18. Price Schedule	Price Schedule

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII.



The second folder should contain all requirements under Financial Component checklist.

4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at jecleo@vsu.edu.ph before the deadline.

III. Changes in the Bidding Documents

Original	Amendment
<p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>12 November – 03 December until 8:59 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Twenty-five Thousand Pesos (PhP 25,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>12 November – 03 December until 8:00 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p> <p>The Bidders may also deposit the applicable fee to Visayas State University Landbank Account:</p> <p>Account Name: Visayas State University Fund 164</p> <p>Account Number: 3572-1000-13</p> <p>And send the deposit slip to Ms. Jessamine C. Ecleo at jecleo@vsu.edu.ph</p>



IV. Revised List of Goods and Technical Specifications

- Some Specifications were added and/or deleted
- Some Quantities and Unit Prices (ABC) were changed

Item No.	DESCRIPTION	Unit	Qty	ABC (Pesos)	Total ABC (Pesos)
1	Supply and Installation, Testing and Commissioning of Audio, Lights and LED Video Wall	lot	1	10,000,000.00	10,000,000.00
	Components:				
	MidHigh Speakers				
	Heavy Duty, Professional DSP Line array speaker for Front of House (FOH)	units	12		
	Specification:				
	Type: 2-way Active DSP-controlled full range loudspeaker				
	Application: 3 cabinets minimum, 16 cabinets maximum per array				
	Frequency Response (-6dB anechoic chamber): 57Hz-20KHz				
	Maximum Calculated SPL/1M: 133dB				
	LF/MF Driver: Customized BEYMA ferrite driver, 2.5" voice coil				
	HF Driver: Customized BEYMA ferrite driver, 1.4" exit, 2.84" voice coil				
	Horizontal Coverage Angle(Symmetrical): 100°				
	Vertical Coverage Angle(Symmetrical): 20°				
	Amplifier Circuitry: Class D				
	Power(RMS standards): 1600W				
	Frequency Response(1W 80 2ch): 20Hz-20KHz(±0.5dB)				
	Intermodulation Distortion: <0.05%				
	Total Harmonic Distortion: <0.05%				
	Protection: DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection				
	Cooling System: Cooling with fans				
	DSP: Processor (96KHz signal sampling frequency, 56bit precision)				
	Presets: Linear, HFX, W/SUB				
	Crossover: Controlled by DSP				



	Output/Input : Signal Input (1 x heavy duty female XLR)				
	Signal Output (1 x heavy duty male XLR)				
	Power Input: Powercon (Power-in coupler)				
	Power Output: Power-out coupler				
	Working Voltage: 85V-265V 50Hz (60Hz)				
	Cabinet Angle Adjustment: 0°, 1°, 2°, 3°, 4°, 6°, 8°, 10°				
	with Data Sheet				
	Heavy Duty, Professional Line array speaker for Side House	units	4		
	Specification:				
	12", 2 way Bass Reflect				
	700 watts amplifier				
	Low, 3", Voice Coil				
	Hi 3 x 1.7" Voice Coil				
	Exit throat 1"				
	Waveguide: 100°				
	8 ohms				
	98dB SPL				
	XLR input/Output				
	Hi-pass filter 30-150Hz				
	Powercon blue/white				
	with Data Sheet				
	Line Array Flying Mounting & Hardware Compatible with Front of House	sets	2		
	Line Array Flying Mounting & Hardware Compatible with Side House	sets	2		
	Subwoofer				
	Heavy Duty, Professional Dual 18" Active Subwoofer	units	4		
	Specification:				
	Type: Active DSP-controlled Compact Subwoofer				
	Application: 3 cabinets minimum, 16 cabinets maximum per array				
	Frequency Response (-6dB anechoic chamber): 32Hz-150KHz				
	Maximum Calculated SPL/1M: 140dB				
	LF Driver: Customized BEYMA ferrite driver, 4" voice coil				
	Amplifier Circuitry: Class D				
	Power(RMS standards): 2800W				



Frequency Response(1W 80 2ch): 20Hz-20KHz(±0.5dB)				
Intermodulation Distortion: <0.05%				
Total Harmonic Distortion: <0.05%				
Protection: DC protection, short circuit protection, overheat protection, input overload protection, output overload protection, soft startup protection, overvoltage protection, undervoltage protection				
Cooling System: Cooling with fans				
DSP: Processor (96KHz signal sampling frequency, 56bit precision)				
Presets: 80Hz, 100Hz, 120Hz				
Crossover: Controlled by DSP				
Output/Input : Signal Input (1 × heavy female XLR)				
Signal Output (1 × heavy duty male XLR)				
Power Input: Powercon (Power-in coupler)				
Working Voltage: 85V-265V 50Hz (60Hz)				
with Data Sheet				
Heavy Duty, Professional Sub Bass, 18" Top Bass	units	2		
Specification:				
18" Sub Bass				
900 watts amplifier				
Low 4" Voice coil				
8 ohms				
98 dB SPL				
XLR input/output				
Powercon blue/white				
Low pass filter 80Hz-250Hz				
with Data Sheet				
Stage wedge(active) floor monitor				
Heavy Duty, Professional Active Speaker, 15"	units	4		
Specification:				
DSP Active speaker				
Speaker woofer diameter: 15"				
Speaker tweeter: 1"				
Speaker audio crossover: 2-way				
Speaker drivers:15"				
Bluetooth: Yes				
Speaker coverage horizontal: 90 °				
Speaker coverage vertical: 60 °				



Frequency range: 41 - 23000 Hz				
Maximum SPL: 128 dB				
Power in RMS: 1000 W				
Maximum volume: 128 dB				
Preamp type: Class D				
Back Stage wedge(Active) Wall Mounted				
Heavy Duty, Professional Active Speaker, 15"	units	4		
Specification:				
DSP Active speaker				
Speaker woofer diameter: 15"				
Speaker tweeter: 1"				
Speaker audio crossover: 2-way				
Speaker drivers:15"				
Bluetooth: Yes				
Speaker coverage horizontal: 90 °				
Speaker coverage vertical: 60 °				
Frequency range: 41 - 23000 Hz				
Maximum SPL: 128 dB				
Power in RMS: 1000 W				
Maximum volume: 128 dB				
Preamp type: Class D				
Wall Mount Kit	sets	4		
Expansion Bolt	pks	1		
Mixing Console				
Heavy Duty, Professional 32 Channel, Digital Mixing Console	units	1		
Specification:				
Number of Analog Input Channels: 40				
Number of Analog Output Channels: 16				
Number of Mic Preamps: 32				
Mix Routing: 100 x Main LRC, 16 x Bus, 6 x Matrix, 8 x Aux Send & 8 x FX Return				
Presets: 100 x Scene, 500 x Cue, 100 x Snippet				
Main Display: 7" / 177.8 mm Touchscreen, 800 x 480 / 6-Bit Color				
Channel Display: LCD (Backlit), 128 x 64 / RGB Color				
Main Meter: 24-Segment LED				
Meter Range: -57 dB to Peak/Clip				
Internal Effects: atleast 16 x Effect				
DSP: 40-Bit Floating Point				
Converter Dynamic Range: (A/D: 109 dBA, D/A: 120 dBA)				



Latency: 0.8 ms (Analog Input to Analog Output), 1.1 ms (Stagebox Input to Stagebox Output)				
Frequency Response: 20 Hz to 20 kHz - 1 dB (at 48 kHz)				
Analog Inputs: 32 x XLR Mic Input, 1 x XLR Talkback Input, 1 x 2RCA Input & 6 x 1/4" TRS Balanced Aux Input				
Analog Outputs: 1 x 2RCA Output, 16 x XLR Output, 2 x XLR Balanced Monitor Output, 2 x 1/4" TRS Balanced Monitor Output, 6 x 1/4" TRS Balanced Aux Output & 2 x 1/4" TRS Headphone Output				
Phantom Power: +48 V (Selectable on Individual Inputs)				
MIDI I/O: 1 x MIDI 5-Pin In & 1 x MIDI 5- Pin Out				
USB: 1 x USB Type-A (Audio Playback, External Memory) & 1 x USB Type- B (Control)				
Expansion Ports: 1 x 32 x 32 I/O Card				
AC Input Power: 100 to 240 VAC, 50 / 60 Hz				
Power Consumption: 120 W				
Heavy Duty, Professional 16 Channel Analog Mixing Console for Audio Playback and other functions	units	1		
Specification:				
16 Line Inputs (8 mono and 4 stereo)				
4 GROUP Buses + ST Bus				
2 AUX Sends + 2 FX Sends				
FX1:REV-X(8 PROGRAM, PARAMETER control),				
FX2:SPX (16 PROGRAM, PARAMETER control)				
Compressor CH1-8,HPF(100Hz 12dB/oct)				
CH EQ(MONO) ±15dB(Max.):				
High 8kHz shelving/Mid 250Hz-5kHz peaking(CH1-8,13-16)/ Low 125Hz shelving				
CH EQ(STEREO) ±15dB(Max.):				
High 8kHz shelving/ Mid 2.5kHz peaking(CH9-12)/ Low 125Hz shelving				
MIC: 10				
48V phantom power per channel				



LINE: 8mono+4stereo, CH INSERT: 8, RETURN: 1stereo, 2TR IN: 1 stereo				
Total harmonic distortion				
0.02% (20Hz-20kHz@ +14dBu)				
Frequency response				
+0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz				
Hum & noise level				
Equivalent input noise: -128 dBu (20Hz–20 kHz, Rs=150Ω, Input Gain = Maximum)				
Residual output noise: -102 dBu (20Hz–20 kHz, Rs=150Ω, Input Gain = Maximum)				
Crosstalk: -74dB @ 1kHz				
Power requirements: 100-240V 50Hz/60Hz				
Power consumption: 55W max				
Professional Headphone for Mixing Console	units	1		
Specification:				
Frequency response: at least 12- 38,500 Hz				
THD, total harmonic distortion: <0.1% (1kHz, 100dBSPL)				
Impedance: at least 50 ohms				
Sound pressure level (SPL): atleast 106dBSPL (1kHz/1Vrms)				
At least 3 m cable with 6.3 mm straight plug				
At least 1.2 m cable with 3.5 mm straight plug				
At least 6.3 mm to 3.5 mm adaptor				
Heavy Duty 1kW Smart- UPS for Mixing Console, Processors, Wireless microphone & Lighting Console (Power Supply Back-up)	units	3		
Specification:				
Max Configurable Power: at least 1.0kW				
Output Voltage Distortion: Less than 2 %				
Output Frequency (sync to mains): 50/60 Hz +/- 3 Hz Sync to mains				
Output Voltages: 220-240V				
Bypass: Built-in bypass				
Battery Type: Lead-acid battery				
Typical recharge time: at least 3 hours				
Nominal Battery Voltage: 48 V				
Surge energy rating: 432 Joules				



	Industrial Grade Wifi Router for Digital mixing Console Remote Control(CB)	units	1		
	Industrial Grade Wifi Router as Repeater for Stage Area	units	1		
	Heavy Duty, Flame Retardant Shielded Cat6 Cable 305 meters per spool-added	spool	1		
	Heavy Duty, Cat6 RJ45 Connector 500pcs. Per lot-added	lot	1		
	Snake Cable				
	Heavy Duty, Reel Snake Cable, 40 input 12 returns Analog, 100mtrs	sets	1		
	Heavy Duty, Reel Snake Cable, 12 input 4 returns Analog, (Front stage), 60mtrs	sets	1		
	Microphones and Accessories				
	Heavy Duty, Professional Quad Channel Diversity Receiver with Four (4) Handheld Transmitter Microphone (Stage Area)	sets	1		
	Specification:				
	Housing/Casing: Aluminum				
	Mic Capsule Module: Interchangeable capsule module with premium condenser or dynamic options				
	Display: Green backlit LCD displays group, frequency, battery meters, etc.				
	Frequency Range: UHF 480 ~ 934 MHz				
	Bandwidth: at least 24 MHz				
	Mute Buttton/Switch: Yes				
	RF Power Output: 0 mW / 50 mW switchable (country dependent)				
	Gain Setting: 6 dB, 3 dB, 0 dB, -3 dB, -6 dB (5 settings). 0 dB = microphone capsule sensitivity				
	Dimensions (Ø × L): at least 51 × 258 mm / 2 × 10.1 "				
	Net Weight: Approx. 292 g / 10.3 oz				
	Battery: 2 × AA alkaline				
	Preset Frequency				
	104 preset channels.				
	Group 1 – 6: 8 compatible channels in each group				
	Group 7 – 8: 12 compatible channels in each group				
	Group 9 – 10: 16 compatible channels in each group				
	Output Connector: Balanced XLR				



	Power Supply Built-in: 100 – 240 AC switching power				
	Power Consumption: 24 W				
	Heavy Duty Microphone Boom Stand	sets	4		
	Specification:				
	Collapsible tripod boom stand				
	Die-cast and steel construction				
	Sleek black finish				
	Ultra-light for easy transport				
	Ground to boom measurements: at least 33.86" to 56.3"				
	Length of boom: at least 31.3"				
	Length of leg: at least 13.39 inches"				
	Table Top Mic Stand	sets	4		
	Heavy Duty D.I. Box	units	2		
	Specification:				
	Type: Active				
	Input Connections: 2 x 1/4" TS (Unbalanced), 1 x 1/8" / 3.5 mm TRS (Unbalanced), 2 x RCA Coaxial (Unbalanced, One Stereo Pair) & 2 x 3-Pin XLR Male (Balanced)				
	Output Connectors: 2 x RCA Coaxial Thru (Unbalanced, One Stereo Pair),				
	Pad: at least -15 dB				
	Controls: (Pad Switch) Ground-Lift Switch				
	Input Resistance: at least 50 kOhms				
	Output Impedance: at least 50 kOhms				
	Frequency Response: at least 10 Hz to 40 kHz				
	Power Requirement: 48 VDC Phantom Power per Channel				
	Heavy Duty, Professional Condenser Microphone (Pencil type)	units	4		
	Specification:				
	Polar pattern: Cardioid, Omni-directional				
	Sound field: Mono				
	Frequency Range: at least 40 Hz to 20 kHz				
	Maximum SPL: 134 dB SPL				
	Impedance: at least 200 Ohms				
	Sensitivity: at least -40 dBV/Pa				
	Dynamic Range: at least 112 dB				
	Equivalent Noise Level: at least 22 dB A-Weighted				



	Output Connectors (Analog): 1 x XLR 3-Pin (on Mic)				
	Operating Voltage: 48 V (Phantom Power)				
	Operating Current Consumption: 3.5 mA				
	Wireless Intercom System with One (1) base station, Four (4) beltacks and Five (5) headset	set	1		
	Specification:				
	Number of Included Headsets: 5 x Single-Sided Headset				
	Number of Included Transceivers: 4 x Beltpack and 1 x Base Station				
	Earpiece Design: Over-Ear (Circumaural), Closed-Back				
	Number of Earpieces: Single Earpiece (Left or Right Side)				
	Sound Field: Mono				
	Impedance (Headphone): at least 32 Ohms				
	Type: Dynamic				
	Mic Boom Location: Interchangeable (Left or Right Side)				
	Impedance (Microphone): at least 600 Ohms				
	Wireless Transmission: Digital 1.9 GHz				
	Max Systems per Setup: 2				
	Wireless Modulation: GFSK				
	Duplex Mode: Full-Duplex (FDX)				
	Wireless Range: at least 984.3' / 300 m				
	Audio Connector to Source: 1 x 1/8" / 3.5 mm TRRS Male Straight				
	Battery Chemistry: (Base Station): Lithium-Ion; (Beltpack): Lithium-Ion Polymer (LiPo)				
	Capacity (mAh): 1600 mAh				
	Runtime: (Base Station): at least 20 Hours; (Beltpack): 8 Hours				
	Users per System: 5 users				
	I/O Connectors: 4 x USB Type-A - Charging/Control Input/Output; 1 x USB Type-C - Control Input/Output; 1 x 1/8" / 3.5 mm - Audio Output				
	Antenna: (Base Station): 2 x External, BNC				
	Number of Charging Ports: 4				
	AC/DC Power Adapter: 7 to 36 VDC				
	Microphone Cable and Connectors				



	Heavy Duty, Professional Microphone Cable 100 meters per roll-added	rolls	20		
	Specification:				
	Braided Shield				
	Twin Conductive PVC Shield				
	Cotton yarn wrapping				
	Copper wire gauge 24				
	Heavy Duty, Professional Male XLR connector	pcs	200		
	Specification:				
	3-pin professional XLR connector				
	Nickel-plated shell				
	Ground contact				
	Silver cage-type contact				
	Heavy Duty, Professional Female XLR connector	pcs	200		
	Specification:				
	3-pin professional XLR connector				
	Nickel-plated shell				
	Ground contact				
	Silver cage-type contact				
	Heavy Duty, Professional Baby Jack Stereo for multimedia playback	pcs	10		
	Specification:				
	3.5mm Professional Stereo Mini Plug				
	Conductors: Stereo (TRS)				
	Mounting Type: Cable Mount				
	Robust diecast shell with black finish				
	Heavy Duty, Professional 1/4" Connector Jack	pcs	10		
	Specification:				
	1/4" Professional phone plug, 2 pole, nickel contacts, nickel shell				
	Chuck type strain relief for optimum cable protection				
	Rugged diecast metal shell				
	Connector(s): 1/4" TS				
	Lights				
	Follow Spot LED 600watts	units	1		
	Downstage Lights (frontal), 10W Amber White Par Led with Clamp	units	12		
	Beam 260W Moving Head Lights	units	8		
	Upstage Lights (back), 10W RGBW Par Led	units	12		
	Lighting Wire and Connectors				



	Heavy Duty, Reel Snake Cable, 8 returns analog dmx snake cable(lights), 100mtrs	units	1		
	Heavy Duty DMX Cable 100 meters per roll-added	rolls	2		
	Heavy Duty, Professional Male XLR connector for lights connection	pcs	50		
	Specification:				
	3-pin professional XLR connector				
	Nickel-plated shell				
	Ground contact				
	Silver cage-type contact				
	Heavy Duty, Professional Female XLR connector for lights connection	pcs	50		
	Specification:				
	3-pin professional XLR connector				
	Nickel-plated shell				
	Ground contact				
	Silver cage-type contact				
	Lighting Console				
	MA Digital lighting console	units	1		
	DMX512 Lighting Console(backup)	units	2		
	DMX Splitter for stage area	units	3		
	Trusses and Rigging				
	1x10x1' Aluminum Truss for downstage lights	sets	2		
	1x10x1' Aluminum Truss for upstage lights	sets	2		
	Heavy Duty, 1 Ton, 25' Chain block	units	4		
	Heavy Duty, 4m GacFlex sling	pcs	4		
	Heavy Duty, 2m GacFlex sling	pcs	4		
	Heavy Duty, 1 Ton Rated shackle	pcs	8		
	Heavy Duty, 2 Ton Rated shackle(for Audio Center flying hardware)	pcs	4		
	Visuals and monitor				
	Indoor/Outdoor Information Dissemination Display System	set	1		
	Specification:				
	Screen Size: 2.5 m X 5 m				
	Pixel Pitch: at least 3.91 mm				
	LED Screen: 50 cabinets				
	Cabinet Material: Die Casting				
	with LED Software				
	with Video Processor				



Power Distribution Cabinet: 20kw, 220Vac output, ABB air-switch 63A input, ABB circuit breaker 32A output; Power cable, RVV3*2.5, 220V				
Portable structure: Floor standing, aluminum truss, according to the design, 12.5 sq. m.				
LED lamp: 1921				
with Driving IC				
View Angle (min, 50% brightness): Horizontal 120 degree & Vertical 120 degree				
Life Span (50% Brightness): >100,000 hours				
Operating Temperature Range: -20 to +80 deg. C				
System Operation Platform: At least compatible with Windows OS				
Data Sheet for all equipment/component				
with training Provision for all components for the lot	lot	1		
Installation with documentation, Testing and Commissioning	lot	1		

Sgnd

DILBERTO O. FERRAREN
BAC Chairman