

TECHNICAL SPECIFICATIONS

Implementation of Rizal Park Complex Comprehensive Tourism Plan (Improvement of Open Air Auditorium)

Central Section, Rizal Park, Ermita, Manila

No. Description

I. Waterproofing

Water Proofing (Area = 1,017.00 Square Meter)

Sintec URTOP MP 1.5mm Thermoplastic Polyolefin Polyester Reinforce (2.1m x 20m/roll)

Angle Bar (50mm x 50mm x 6mm thick)

Sleeve Type Anchor Bolt

Vulca Seal

II. Rain Water Collector System

Fabricated Metal Roofing Accessory, G.26, Gutters

Replacement of Damage Rain Water Down Pipe (Near Chinese & Chese Plaza)

Sanitary Pipes 200mm dia PVC Series 1000

Coupling 8" (Fabricated Fittings)

PVC ELBOW 8 X 90° SANITARY ORANGE

Gutter Bracket

Solvent Cement 400cc

Replacement of Existing Downspout (Stage)

Sanitary Pipes 200mm dia PVC Series 1000

Clean Out 8" Adapter and Plug

Coupling 8" (Fabricated Fittings)

PVC ELBOW 8 X 90° SANITARY ORANGE

End Cap 8"

Sanitary Tee Reducer 8" x 6" (Molde Fitting with reducer)

Sanitary Tee 8"

Solvent Cement 400cc

Gutter Bracket

Water Tank (Rain Water Collector System)

Fiberglass Reinforced Polyster Panels Modular Type Tank, Capacity= 6000L

III. Rehabilitation of Drainage System

A. Drainage line for 610mm diameter Concrete Pipe

4" Gravel Fill

Pipe Culverts 610mm dia Class IV RCPC

Embankment from roadway excavation - Common Soil

Catch basins 610mm dia

Portland Cement Concrete Pavement (Unreinforced) 0.15m thick 7 days

B. Drainage line for Steel Trench Drain

Reinforced Concrete Pipe, Size:12" (300mm) , Class II

Embankment from roadway excavation - Common Soil

Portland Cement Concrete Pavement (Unreinforced) 0.15m thick 7 days

Hot Dip Galvanized , complete with Frames and dowel bar and lateral ties (Grating Size 400mm x 400mm)

Hot Dip Galvanized, complete with Frames and dowel bar and lateral ties (Grating Size 200mm)

IV. Stage Apron

Line Canal

CHB Wall

150mm CHB Non-Load Bearing (including Reinforcing Steel)

Cement Plaster Finish

Floor Slab

Hot Dip Galvanized, complete with Frames and dowel bar and lateral ties (Grating Size 600mm)

u Installation of Drywall and Soundproofing

(Between Stage & Backstage)

Structural Steel Framing

B.I. (Black Iron) Tubular150mm x 50mm x 1.5mm thick x 6 meters

Base Plate 6" x 10"

Anchor Bolts

Paint Metal Epoxy

Double Wall 6.0mm Fiber Cement Board on Metal Frame

Painting Works (Wood)

Soundproofing

Supply & Installation of Rockwool Blanket Insulation 50kg/cum

(50mm x 0.6m x 5m, 1-Side Foil)

Description No.

VI. Rehabilitation/Improvement of Rooms

A. Rehearsal Room

1.2m x 2.4m Frameless Mirror Unglazed Tiles (Ceramic Tiles)

40mm diameter Stainless Steel Railing x 6m

Lighting w/ Louver Housing (T5)

B. Meeting Room

Unglazed Tiles (Ceramic Tiles)

1.2m x 1.5m Back Painted Glass

Laminated MDF Cabinet (0.85m x 2.40m x 0.60m)

Laminated MDF Cabinet (0.85m x 4.20m x 0.60m)

5.2 Supply & Installation of Acoustic Panel and T- Runner w/ Accessories

5.2.1 Materials Cost

600mm x 600mm Acoustic Panel

5.3 Painting Works (Wood)

Provision For LED Screen + 1 1/2" PVC Pipe w/ Outlet

LED Light Panel

LED Panel 40W - 6W6 CW BY

C. Piano Recording Room

Supply & Installation of Acoustic Panel and T- Runner w/ Accessories

1.1 Materials Cost

600mm x 600mm Acoustic Panel

Painting Works (Wood)

2m x 1.2m Frameless Tempered Fixed Glass Panel 12mm thk.

100mm CHB Non-Load Bearing (including Reinforcing Steel)

Cement Plaster Finish

Led Light Panel

LED Panel 40W - 6W6 CW BY

Down Light DL 12 - 120 - 06w CW

D. Enhancement of Shower Room 1 & 2

Additional CHB Wall

100mm CHB Non-Load Bearing (including Reinforcing Steel)

Cement Plaster Finish (0.16 m thickness)
Unglazed Tiles (Ceramic Tiles) 0.60m x 0.60m
S/S Grabrail for PWD Cubicle

Shower Room

1 pc. Water Closet Including bidet, Fittings and Acc. (Rectangular) American Std or Equivalent)

S/S Shower Mixer w/Telephone Shower

Supply & Installation of HPL Phenolic Toilet door including toilet accessories (toilet roll holder, hook,

handle)

Lavatory Including Fittings and Acc. (Round) American Std or Equivalent)

1.10m x 2.50m Mirror

Synthetic Granite Counter Top

Lighting Fixtures

Exhaust Fan "

Down Light DL 12 - 120 - 06w CW

LED Panel 40W - 6W6 CW BY

4.5mm thk. Fiber Cement Board, 4' x 8' fiber cement board on metal frame at ceiling

Painting Works (Wood)

E. Enhancement of Dressing Room 1 & 2

600mm x 600mm Unglazed Tiles (Ceramic Tiles)

Mirror (2.00m x 0.80m)

Laminated MDF Cabinet (0.85m x 4.20m x 0.60m)

CHB Wall

100mm CHB Non-Load Bearing (including Reinforcing Steel)

Cement Plaster Finish (0.16 m thickness)

Painting Works (Wood)

LED Panel 40W - 6W6 CW BY

F. Office Room

4.5mm thk. Fiber Cement Board, 4' x 8' fiber cement board on metal frame at ceiling

Painting Works (Wood)

600mm x 600mm Unglazed Tiles (Ceramic Tiles)

Restoration of Window Opening

100mm CHB Non-Load Bearing (including Reinforcing Steel)

G. AV Control Room

Waterproofing of Roof Deck

Sintec URTOP MP 1.5mm Thermoplastic Polyolefin Polyester Reinforce (2.1m x 20m/roll)

Angle Bar (50mm x 50mm x 6mm thick)

Sleeve Type Anchor Bolt

Vulca Seal

Restoration

4.1 Roof Slab

Portland Cement Concrete Pavement (Reinforced) 0.15m thick 14 days

4.2 CHB Wall

100mm CHB Non-Load Bearing (including Reinforcing Steel)

Cement Plaster Finish (0.16 m thickness)

VII. Provision for Supply & Installation of Doors & Windows

A. Doors

Backstage Access (Door 1)

2pcs. $1m \times 2.05m \times 10mm$ Clear Tempered Glass Frameless Double Action Floor Hinge w/ Transom Window

Dressing Room 1 & 2 (Door 2)

D-2 DOUBLE PLAIN STEEL DOOR

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Size:

Optional: SS Pull

Size:

Size: 900mm

1000mm+1000mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18

Hinges: Stainless steel flag hinges mounted in 3mm steel plates

Lockset: None

Coating: Epoxy primer gray

Door Configuration: To Be Determined Included: Flush bolt (top & bottom)

Rehearsal Room and Stair 2 (Door 3)

D-3 DOUBLE STEEL DOOR W/ VIEW GLASS PANEL Size: 1000mm+1000mm Width x 2050mm Height

Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18

Hinges: Stainless steel flag hinges mounted in 3mm steel plates

Lockset: None

Coating: Epoxy primer gray

Door Configuration: To Be Determined Included: Flush bolt (top & bottom)

handle

Piano Recording Room (Door 4)

0.90m x 2.05m Plain Solid Door with Acoustic Panel with Viewing Panel

Shower Room 1 & 2 (Door 5)

0.80m x 2.05m Sliding Louvered Wooden Door Painted

AV Control Room (Door 6)

D6 PLAIN STEEL DOOR

Size: 900mm Width x 2050mm Height

2x4 Single Rabbet, gauge 16

44mm Thickness, gauge 18

Jamb:
Panel:

Hinges: Stainless steel flag hinges mounted in 3mm steel plates

Lockset: None

Coating: Epoxy primer gray

Door Configuration: To Be Determined

Coating: Epoxy primer gray

Stair # 1 & 2 and Command Center and Office Room (Door 7)

D-7 STEEL DOOR W/ VIEW GLASS PANEL

900mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18

Hinges: Stainless steel flag hinges mounted in 3mm steel plates

Glass: Clear 150mmW x 800mmH x 6mmT

Lockset: None

Coating: Epoxy primer gray

Door Configuration: To Be Determined

Janitor & Electrical Room (Door 8)

D8 FULL LOUVER STEEL DOOR

Width x 2050mm Height

Jamb: 2x4 Single Rabbet, gauge 16

Panel: 2"x4" GI Tubular

Louver: Z profile blades 0.9 mm thickness galvanized steel Hinges: Stainless steel flag hinges mounted in 3mm steel plates

Lockset:None

Coating: Epoxy primer gray
Door Configuration: Pull Orientation

Backstage

D-9 FIRE-EXIT STEEL DOOR

Size: 900mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18

Lockset: Panic exit device

Hinges: Stainless steel flag hinges mounted in 3mm steel plates

Coating: Epoxy primer gray

Door Configuration: To Be Determined

> 5.00m x 3.05m Top Track Operable with Sound Insulation Panel (Door 10) 1.20m x 3.05m Top Track Operable with Sound Insulation Panel (Door 11)

B. Windows

Staircase 1 & 2 Landing (Window 1)

Fixed Awning window with Screen

(6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen) Dressing Room (Window 2)

Awning Window w/ Screen

(6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen)

Shower Room 1 & 2 (Window 3)

Awning Window w/ Screen

(6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen)

AV Control Room (Window 4)
Fixed Awning window with Screen

(6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen)

Office Room & Command Center (Window 5)

Casement Window w/ Screen

(6mm Tempered Clear Glass, Powdered Coated Black, Hardmesh Security Screen)

Backstage Area (Window 6)

Fixed Glass Window (w/ Tint)

(6mm Tempered Frosted Glass, Powdered Coated Black)

Rehearsal Room (Window 7)

Fixed Casement Window with Screen

(6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen)

VIII. Supply, Delivery and Installation of Aircondition Units and Duct Works

AV Control Room

1.0 HP Wall Mounted, Set Model: FP53AST010KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm Ø Refrigerant Copper Pipe, Soft Drawn, 9.5mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 9.5 mm Ø

PVC Pipe (blue), 20 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber, 20 mm Ø

Mapp Gas

P.E. Tape White

Aero Tape, 1/8" Thick x 30 feet

Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m²

Communication Wire

Men's Dressing Room

1.5 HP Wall Mounted, Set Model: FP53AST015KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm \varnothing Refrigerant Copper Pipe, Soft Drawn, 12.7mm \varnothing

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 12.7 mm Ø

PVC Pipe (blue), 20 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber, 20 mm Ø

Mapp Gas

P.E. Tape White

Aero Tape, 1/8" Thick x 30 feet

Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m²

Communication Wire

C. Ladies' Dressing Room

2.0 HP Wall Mounted, Set Model: FP53AST020KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm Ø Refrigerant Copper Pipe, Soft Drawn, 12.7mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 12.7 mm Ø

PVC Pipe (blue), 20 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber, 20 mm Ø

Mapp Gas

P.E. Tape White Aero Tape, 1/8" Thick x 30 feet Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m

Communication Wire

D. Piano Recording Room

2.5 HP Wall Mounted, Set Model: FP53AST025KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm Ø

Refrigerant Copper Pipe, Soft Drawn, 12.7mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 12.7 mm Ø

PVC Pipe (blue), 20 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber , 20 mm \varnothing

Mapp Gas

P.E. Tape White

Aero Tape, 1/8" Thick x 30 feet

Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m²

Communication Wire

E. Meeting Room

2.5 HP Wall Mounted, Set Model: FP53AST025KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm Ø

Refrigerant Copper Pipe, Soft Drawn, 12.7mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 12.7 mm Ø

PVC Pipe (blue), 20 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber , 20 mm \varnothing

Mapp Gas

P.E. Tape White

Aero Tape, 1/8" Thick x 30 feet

Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m²

Communication Wire

F. Rehearsal Room

2.0 HP Wall Mounted, Set Model: FP53AST020KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm Ø

Refrigerant Copper Pipe, Soft Drawn, 12.7mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 12.7 mm Ø

PVC Pipe (blue), 20 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber , 20 mm \varnothing

Mapp Gas

P.E. Tape White

Aero Tape, 1/8" Thick x 30 feet

Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m²

Communication Wire

G. Backstage Area

3.0 HP Wall Mounted, Set Model: FP53AST025KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm Ø

Refrigerant Copper Pipe, Soft Drawn, 15.9mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm \varnothing

Closed Cell Rubber Insulation, 25 mm thickx 12.7 mm Ø

PVC Pipe (blue), 25 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber , 25 mm \varnothing

Mapp Gas

P.E. Tape White

Aero Tape, 1/8" Thick x 30 feet

Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m²

Communication Wire

H. Office Room

2.0 HP Wall Mounted, Set Model: FP53AST020KEIV-F4

Refrigerant Copper Pipe, Soft Drawn, 6.4mm Ø

Refrigerant Copper Pipe, Soft Drawn, 12.7mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 6.4 mm Ø

Closed Cell Rubber Insulation, 19 mm thickx 12.7 mm Ø

PVC Pipe (blue), 20 mm Ø, Condensate Drain

Drain Pipe Insulation, 19mm thick Closed Cell Rubber , 20 mm \varnothing

Mapp Gas

P.E. Tape White

Aero Tape, 1/8" Thick x 30 feet

Hunger and Supports

Circuit Breaker, 20 Amp.

THHN Wire 2.0 m²

Communication Wire

I. Back Stage Ventilation and Installation

30" dia. Low Speed / Low Noise Wall Mounted Propeller Fan (Belt Driven) c/w 0.5HP Motor and

Weather Hood

Basement Roof Top Exhaust Ventilator

Wall Mounted Propeller Fan Air Supply Grilles

Angular Bar Frame

Motor Controller

Max. 10 Meters Electrical Works (Motor Controller, Circuit Breakers, PVC Pipes and Wires - Load Side only)

I. Ventilation and Duct Works

Basement Ductworks (G.I. Sheets, Hangers, Air Grilles & Consumables)

Basement Roof Top Exhaust Ventilator

Motor Controller

Maintenance Breaker Switch Box

Max. 10 Meters Electrical Works (Motor Controller, Circuit Breakers, PVC Pipes, PVC Flexible Hose and Wires - Load Side only)

IX. Painting Works

Scrapping of Existing Paint

Masonry/Concrete

Basement

Equipment Storage

Rehearsal Room

Men's Shower Room

Men's Dressing Room

Ladies Shower Room

Ladies Dressing Room

Meeting Room 1

Meeting Room 2

Backstage

HE CR

SHE CR

Janitor Room

Electrical Room

Server Room

Command Center

Office Room

Control Room

Exterior Wall

Steel Trusses

EPOXY PRIMER

EPOXY ENAMEL

POLYTUFF

EPOXY REDUCER

RUST CONVERTER

SANDING DISK

PAINT BRUSH 1 1/2"

BABY ROLLER

Rubberized Floor Paint

Front Stage

Backstage

X. Mechanical Works

Ventilation - HVLS Series Ceiling Fan, Aviation Aluminum Extruded Anodized (Airfoil Style), # of Airfoil: 8, 80RPM (VFD Controller) 3730CMM, 220V 1PH 60HZ Motor: Brushless Rare Earth, Permanent Magnet SKF Explorer Reinforced, IP20 14ft. diameter (4.2m) IND42-1PH (I-MXA-VNA-00037)

Wires (4G x 2.5mm2 Control Cable)

XI. Landscaping Works

XII. Provision for Steel Basket (3 units)

Flat Bar 50mm x 3mm thick x 6m

B.I. (Black Iron) Tubular 25mm x 25mm x 1.5mm thick

B.I. (Black Iron) Tubular 50mm x 50mm x 1.5mm thick

Paint Metal Epoxy

XIII. Provision of Scaffolding Rental

Rental per set

6 H - Frame (1.70 x 1.20)

12 Cross Braces (1.80m)

2 Catwalk 0.50m x 1.80m

Joint Pin

Adjustable U- Head

8 pcs. x 1 1/4" x 600mm

Adjustable Base Jack

8 pcs. x 1 1/4" x 600mm

XIV. Pest Control

Comprehensive termite control program includes the following: (2 year warranty) supply of chemicals, supply of materials and equipments labor and supervision

General Pest Control Maintenance Program (6 months contract) supply of chemicals, supply materials and equipment labor and supervision

XV. Light Equipment

4 bulb LED Molefay

4-Eyes "MOLEFAY" design Ø High-Power WW LED COB Lamps: $4 \times 100W$ (400w) 3000 to 3200°K Ø Beam Angle: >90 degree Wide Flood Ø DMX operation - with 1 channel (4 ch. Optional) Ø Wireless DMX ready – using special 3-Pin XLR socket with 5vdc Ø Horizontal adjustment of 2-Beam columns Ø Auto operation with built-in control Ø Master-Slave operation Ø Powercon IN & OUT for mains Ø Power: 90 - 255 VAC - 50/60 Hz, @450 watts

Jolly 1218 RGBW LED Par

Angle 15°/25°/45°optional • Lamp 18pcs LED, RGBW, 15W • Color Temperature 6000-6500K • Power 100-250V 50/60Hz 250w • Channel 8/14 ch • Color RGBW • Strobe 1-25/S • Linear Dimmer • LED Display • L322mm x W293mm x H134mm • Weight 5.5 kgs • IP65

COB DMX200 Daylight Tungsten LED Par with Barn Door

Light Source 200w Warm+cool white • 200w Rated Power • Beam Angle 45 degrees • Dimming 0 to 100% linear Dimming • 5 DMX Channel • Control Mode DMX512 self propelled master slave voice activated • LCD Display • AC90 to 240V 50-60hz

Solar Flare

Lighting Control Console

40 electronically-labelled playback faders

15.6" main touch screen

7" secondary touchscreen

20 macro / executor buttons

3 optical attribute encoders

4 optical playback pots

UPS battery backup

Built-in 4-port managed gigabit network switch

Ethercon for all ethernet connections

OpticalCon stage link output

16 universes of ArtNet or S-ACN, expandable with Titan Net Processors

8 Physical DMX outputs on 5-pin XLR

2500w Follow Spot with stand and dustcover

DMX Splitter, Cables and Connectors

XVI. Equipment Audio

Front of House Speakers (suspended from roof)

120,000.00 1,440,000.00

Frequency response (-5 dB standard) 67 Hz - 18 kHz

Frequency response (-5 dB CUT mode) 100 Hz - 18 kHz

Max. sound pressure1

- with D20/30D 139 dB
- with D40/D80/40D 142 dB

Configuration High performance 3-way passive line array loudspeaker

Nominal impedance 8 Ω

Power handling capacity (RMS/peak 10 ms) 500/2000 W

Nominal dispersion angle (horizontal) 80°2

Splay angle settings 0° - 14° (1° increment)

Components

- 2 x 10" driver / 1 x 8" driver
- 2 x 1.4" exit compression driver passive crossover network

Connections

- 2 x NLT4 F/M
- optional 2 x NL4

Dimensions (H x W x D) - 310 x 700 x 460 mm

Weight 34 kg

Subwoofer (under stage)

Frequency response (-5 dB standard) 37 Hz - 90 Hz

Frequency response (-5 dB INFRA mode) 32 Hz - 68 Hz

Max. sound pressure1

- with D20/30D 140 dB

-with D40/D80/40D 143 dB

Configuration

High performance subwoofer intended for ground stacked applications

Nominal impedance 4 Ω

Power handling capacity (RMS/peak 10 ms) 1000/4000 W

Components - 2 x 18" driver with neodymium magnet

Connections - 2 x NLT4 F/M

Front fill speakers (under stage)

Frequency response (-5 dB standard) 54 Hz - 19 kHz

Frequency response (-5 dB CUT mode) 100 Hz - 19 kHz

Max. sound pressure1

- with 10D 134 dB
- -with D20/30D 137 dB
- -with D40/D80/40D 139 dB

High performance 2-way passive line array loudspeaker

Nominal impedance 8 Q

Power handling capacity (RMS/peak 10 ms) 400/1600 W

Nominal dispersion angle (horizontal) 80°

Splay angle settings 0° - 14° (1° increment)

Components

- 2 x 8" driver with neodymium magnet
- 1.4" exit compression driver passive crossover network

4-Channel Amplified Controller

Output power (no limiter 200 ms sine bursts,1 kHz, < 1% THD, all channels):

4 x 3300 W at 2.7 ohms

4 x 2600 W at 4 ohms

4 x 1400 W at 8 ohms

Amplification class: High-efficiency Class D Maximum output voltage: 157 V (peak voltage)

Architecture: 4 in x 4 out

Frequency range: 20 Hz - 20 kHz (+/- 0,1 dB, 8 ohms, 60 W output power)
Distortion THD+N: < 0.05% (20 Hz - 10 kHz, 8 ohms, 60 W output power)
Output dynamic range: > 114 dB (20 Hz - 20 kHz, 8 ohms, A-weighted)

Noise level < -72 dBV (20 Hz - 20 kHz, 8 ohms, A-weighted)

Amplification gain: 32 dB

Channel separation: > 85 dB (1 kHz, 4 ohms) Output delay: adjustable from 0 to 1000 ms

LA8 Amplifiers

4-channel amplifier

Universal switched mode power supply, 120 / 230 V (or 100 / 200 V for Japan)

4 x 1100 W / 8 Ω at 1% THD, all channels driven (4 x 1300 W peak)

4 x 1800 W/4 or 2.7 Ω at 1% THD, all channels driven (4 x 2500 W peak)

Amplifier gain = 32 dB

Frequency response: 10 Hz - 30 kHz, -1.5/+0 dB at 8 Ω Output noise: -67 dBV (20 Hz - 20 kHz, A-weighted)

Output dynamic range: 107 dB (20 Hz - 20 kHz, A-weighted)

Max input level: +22 dBu (balanced, THD 1%)

Channel separation: > 85 dB (1 kHz) Input impedance: 22 k Ω , balanced

AES/EBU input board: refer to the LA-AES3 spec sheet

Dimensions

H x W x D: 88 (2U) x 483 x 420 mm 3.5 (2U) x 19 x 16.5 in

Weight (net): 12.2 kg 26.9 lbs. Finish: black and anthracite gray

Loud Speaker Management System 3in / 6 out

Number of Channels:6

EQ:31-band (Graphic), 12-band (Parametric)

Compressor:Yes

Feedback Eliminator:Yes

Analog Inputs:3 x XLR, 1 x XLR (RTA Mic)

Analog Outputs:6 x XLR

Computer Connectivity: 1 x USB-B

Rack Spaces:1U Height:1.75" Depth:8" Width:19"

Floor Monitors

15" Neodymium Woofer

1" Kapton Dome Neodymium Tweeter

60 x 60° Dispersion 700W Digital Amplifier

DSP Processing

XLR and 1/4" Inputs and XLR Output AC Input and Output Connectors Integrated Handle and Pole Socket

Digital Mixer

Type: Digital Mixer Channels: 40

Inputs - Mic Preamps: 32 x XLR

Phantom Power: 48V, Switchable per Input Inputs - Line: 1 x Dual RCA Stereo (aux) Inputs - Other: 6 x 1/4" TRS (aux)

Outputs - Main: 16 x XLR, 2 x XLR (monitor), 2 x 1/4" (monitor) Outputs - Other: 6 x 1/4" TRS (aux), 1 x Dual RCA Stereo (aux)

Outputs - Digital: 1 x XLR (AES/EBU)

Busses/Groups: 25 time-aligned/phase-coherent mix buses, 8 DCA groups

Talkback: 1 x XLR MIDI I/O: In/Out/USB

Data I/O: 1 x EtherCon (Ultranet), 2 x EtherCon (AES50), 1 x Ethernet

Headphones: 2 x 1/4" TRS (stereo) USB: 1 x Type B, 1 x Type A

Computer Connectivity: USB, Ethernet

Faders: 16 x Input Faders, 8 x Bus Faders, 1 x Main Fader

A/D Resolution: 24-bit/48kHz EQ Bands: 4-band EQ Effects: 8 x Stereo FX Engines Signal Processing: Gate, Compressor

Features: 100-band RTA, 100 scenes, 100 Snippets, 32-bit/48kHz SD Card recording

DAW Control: Yes Screen: 7" TFT Display Storage: 2 x SD card slots

Power Source: Standard IEC AC cable

32-Input / 16-Output Stage Box

32 microphone preamplifiers with switchable 48 V phantom power

16 electronically balanced low impedance line level outputs

Two AES-3 ports (AES/EBU), e.g. for directly connecting PA system controllers with digital inputs

Remote operation up to 100 m via CAT5/5e cable

Rugged 3U rackmount chassis for durability in portable applications

Auto-ranging universal switch-mode power supply

Mute-All-Inputs function for quietly patching any inputs on stage

Dual Channel Digital Wireless Receiver with 2 Handheld Transmitters

Extended 20 Hz to 20 kHz frequency range (microphone dependent)

118 dB dynamic range

Digital predictive switching diversity

44 MHz tuning bandwidth (region dependent)

32 available channels per frequency band (region dependent)

Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band

Easy pairing of transmitters and receivers over IR scan and sync

Portable Receiver & Plug-On Transmitter Options

Wired microphones

Type: Dynamic

Frequency Response: 50 to 15,000 Hz

Polar Pattern: Cardioid

Sensitivity (at 1,000 Hz Open circuit voltage): -54.5 dBV/Pa (1.85 mV), 1 Pa = 94 dB SPL

Impedance: Rated impedance is 150 Ω (300 Ω actual) for connection to microphone inputs rated low

impedance

Polarity: Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3 Case: Dark gray, enamel-painted, die cast metal; matte-finished, silver colored, spherical steel mesh

Connector: Three-pin professional audio connector (male XLR type)

Pencil condenser microphones

Small-diaphragm pencil condenser microphones
Packaged as a stereo pair (matched within ±0.5dB sensitivity of each other)
Cardioid pickup pattern
Up to 134dB SPL
Gold-plated XLR connectors
Protective carry case, shock-mounted mic clips and windscreens included

Mic stand with boom

DI Box

Equipment Rack

Full Duplex Wireless Intercommunication System

Up to 1300ft Radius Communication Range
POE Power Supply / NP-F Type Battery
450 meters Line-of-Sight Usage
Grouping Talk
1.9GHz Frequency
Multi-Device Cascade Connection
With Professional Headphones
Sidetone Function
Removable Li-ion Batteries
3.55mm Headset Interface/USV-Type C Interface/Headset Interface
With 1 Station, 8 Beltpack, Charging Base, High Gain Antenna, Extra Battery for Beltpacks, Cables

Prepared By: Checked By:

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JOSE ANGELO C. CACAL Architect II

Planning Assistant

Noted By:

EDUARDO C. VILLALON, JR.

Planning Officer V

BILL OF QUANTITIES

Implementation of Rizal Park Complex Comprehensive Tourism Plan (Improvement of Open Air Auditorium) Central Section, Rizal Park, Ermita, Manila

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|-------|---|--------|--------|-----------|--------|
| I. | Waterproofing | | | | |
| 1 | Removal of existing Waterproofing Membrane | 500.00 | m2 | | |
| 2 | Provision For 2" Concrete Floor Topping | 500.00 | m2 | | |
| 3 | Water Proofing (Area = 1,017.00 Square Meter) | 000.00 | | | |
| | Sintec URTOP MP 1.5mm Thermoplastic Polyolefin Polyester Reinforce | | | | |
| | (2.1m x 20m/roll) | 27.00 | roll | | |
| | Angle Bar (50mm x 50mm x 6mm thick) | 48.00 | pcs. | | |
| | Anchor Bolt | 288.00 | pcs. | | |
| | Vulca Seal | 1.00 | gal. | | |
| II. | Rain Water Collector System | | | | |
| 1 | Fabricated Metal Roofing Accessory, G.26, Gutters | 16.00 | l.m. | | |
| 2 | Replacement of Damage Rain Water Down Pipe (Near Chinese & Chese Plaza) | | 1.111. | | |
| | Sanitary Pipes 200mm dia PVC Series 1000 | 15.00 | nce | | |
| | Coupling 8" (Fabricated Fittings) | 14.00 | pcs. | | |
| | PVC ELBOW 8 X 90° SANITARY ORANGE | | pcs. | | |
| | Gutter Bracket | 5.00 | pcs. | | |
| | Solvent Cement 400cc | 10.00 | pcs. | | |
| 3 | | 1.00 | pcs. | | |
| 3 | Replacement of Existing Downspout (Stage) Sanitary Pipes 200mm dia PVC Series 1000 | 0.00 | | | |
| | • • | 8.00 | pcs. | | |
| | Clean Out 8" Adapter and Plug | 2.00 | pcs. | | |
| | Coupling 8" (Fabricated Fittings) | 10.00 | pcs. | | |
| | PVC ELBOW 8 X 90° SANITARY ORANGE | 10.00 | pcs. | | |
| | End Cap 8" | 1.00 | pcs. | | |
| | Sanitary Tee Reducer 8" x 6" (Molde Fitting with reducer) | 2.00 | pcs. | | |
| | Sanitary Tee 8" | 5.00 | pcs. | | |
| | Solvent Cement 400cc | 1.00 | pcs. | | |
| | Gutter Bracket | 5.00 | pcs. | | |
| 4 | Water Tank (Rain Water Collector System) | 3.00 | units | | |
| III. | Rehabilitation of Drainage System | | | | |
| A. | Drainage line for 610mm diameter Concrete Pipe | | | | |
| 1 | Concrete Cutting | 166.00 | l.m. | | |
| 2 | Removal of Actual Structures/Obstruction 0.15 m thick PCCP (Unreinforced) | 166.00 | m2 | | |
| 3 | Excavation | 332.00 | m3 | | |
| 4 | 4" Gravel Fill | 16.60 | m3 | | |
| 5 | Pipe Culverts 610mm dia Class IV RCPC | 166.00 | l.m. | | |
| 6 | Embankment from roadway excavation - Common Soil | 285.06 | m3 | | |
| 7 | Catch basins 610mm dia | 4.00 | units | | |
| 8 | Portland Cement Concrete Pavement (Unreinforced) 0.15m thick 7 days | 166.00 | m2 | | |
| В. | Drainage line for Steel Trench Drain | | | | |
| 1 | Concrete Cutting | 72.40 | m2 | | |
| 2 | Removal of Actual Structures/Obstruction 0.15 m thick PCCP (Unreinforced) | 29.00 | m2 | | |
| 3 | Excavation | 22.48 | m3 | | |
| 4 | Reinforced Concrete Pipe, Size:12" (300mm) , ClassII | 54.00 | m2 | | |
| 5 | Embankment from roadway excavation - Common Soil | 9.77 | m2 | | |
| | | | | | |
| 6 | Portland Cement Concrete Pavement (Unreinforced) 0.15m thick 7 days | 63.00 | m2 | | |
| 7 | Hot Dip Galvanized , complete with Frames and dowel bar and lateral ties (Grating Size 400mm x 400mm) | 2.00 | units | | |
| 8 | Hot Dip Galvanized , complete with Frames and dowel bar and lateral ties (Grating Size 200mm) | 60.00 | l.m. | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|-------------|--|--------|-----------|-----------|--------|
| IV. | · · · · · · · · · · · · · · · · · · · | | | | |
| | Stage Apron Removal of Structures and Obstruction (Front Stage) | 4.00 | 1 | | |
| 1 2 | Plastering of Existing Retaining Wall | 1.00 | l.s | | |
| | Cement Plaster Finish (0.16 m thickness) | 40.40 | m? | | |
| 3 | , | 48.40 | m2 | | |
| | Excavation | 29.04 | m3 | | |
| | CHB Wall | 29.04 | IIIO | | |
| | 150mm CHB Non-Load Bearing (including Reinforcing Steel) | 96.80 | m2 | | |
| | Cement Plaster Finish | 96.80 | m2 | | |
| | Floor Slab | 30.00 | 1112 | | |
| | Hot Dip Galvanized , complete with Frames and dowel bar and lateral | | | | |
| | ties (Grating Size 600mm) | 29.00 | l.m. | | |
| | Portland Cement Concrete Pavement (Unreinforced) 0.15m thick 7 days | 29.04 | m2 | | |
| 4 | New Slabs and Steps @ Center Stage | | | | |
| | Structural Concrete (Class A, 28 days) | 16.50 | m3 | | |
| 5 | Improvement of Steps (Area - 15.60m2) | | | | |
| | Polished Pebble Wash Flooring @ 2cm thickness | 1 | m3 | | |
| | Cement | 5.00 | bags | | |
| | Installation of Drywall and Soundproofing | | | | |
| ٧. | (Between Stage & Backstage) | | | | |
| | | 4.00 | 1.5 | | |
| 1 | Removal of Structures and Obstruction (Wood) | 1.00 | l.s. | | |
| 2 | Structural Steel Framing | | | | |
| | B.I. (Black Iron) Tubular 1250mm x 50mm x 1.5mm thick x 6 | 57.00 | pcs. | | |
| | meters | 37.00 | pcs. | | |
| | Welding Rod | 3.00 | boxes | | |
| | Base Plate 6" x 10" | 62.00 | pcs. | | |
| | Anchor Bolts | 248.00 | pcs. | | |
| | Paint Metal Epoxy | 3.00 | gals. | | |
| | Equipment Rental | | | | |
| | 1 - Welding Machine @ P /per day | 30.00 | days | | |
| 3 | Double Wall 6.0mm Fiber Cement Board on Metal Frame | 205.00 | m2 | | |
| 4 | Painting Works (Wood) | 410.00 | m2 | | |
| | Soundproofing | 410.00 | 1112 | | |
| 5 | Supply & Installation of Rockwool Blanket Insulation 50kg/cum | | | | |
| | (50mm x 0.6m x 5m, 1-Side Foil) | 140.00 | pcs. | | |
| 6 | Stage Leg | | | | |
| | B.I. (Black Iron) Tubular®0mm x 50mm x 1.5mm thick x 6 meters | 12.00 | pcs. | | |
| | Anchor Bolts | 72.00 | pcs. | | |
| VI. | Rehabilitation/Improvement of Rooms | | | | |
| Α. | Rehearsal Room | | | | |
| 1 | 1.2m x 2.4m Frameless Mirror | 30.00 | pcs. | | |
| 2 | Unglazed Tiles (Ceramic Tiles) | 93.70 | m2 | | |
| 3 | | 4.00 | pcs. | | |
| 4 | Lighting w/ Louver Housing (T5) | 16.00 | pcs. | | |
| В. | Meeting Room | | | | |
| 1 | Unglazed Tiles (Ceramic Tiles) | 30.38 | m2 | | |
| 2 | 1.2m x 1.5m Back Painted Glass | 6.00 | pcs. | | |
| 3 | | 1.00 | units | | |
| 4 | Laminated MDF Cabinet (0.85m x 4.20m x 0.60m) | 1.00 | units | | |
| 5 | Replacement of Existing Ceiling | | | | |
| | 5.1 Removal of Existing Ceiling | 1.00 | l.s. | | |
| | 5.2 Supply & Installation of Acoustic Panel and T- Runner w/ Accessories | | | | |
| | 5.2.1 Materials Cost 600mm x 600mm Acoustic Panel | 29.75 | m? | | |
| | Consumables (5% of Material Cost) | 1.00 | m2 lot | | |
| | 5.2.2 Labor Force: Consisting of Two (2) Working Days | 1.00 | IUI | | |
| | 1 - Foreman @ P per day | 2.00 | days | | |
| | 4- skilled @ P per day = Php | 2.00 | days | | |
| | 2- unskilled @ P per day = Php | 2.00 | days | | |
| | 5.2.3 Equipment Cost | 2.00 | uays | | |
| | | 1.00 | lot | | |
| | Minor Lools (1()% of Labor Cost) | | 101 | | |
| | Minor Tools (10% of Labor Cost) 5.3 Painting Works (Wood) | | m2 | | |
| 6 | 5.3 Painting Works (Wood) | 29.75 | m2 lot | | |
| 6 | 5.3 Painting Works (Wood) | | m2 lot | | |

| о. | Description | Qty. | Unit | Unit Cost | Amount |
|--------|---|----------------|------------|-----------|--------|
| c | Piano Recording Room | | | + | |
| 1 | Supply & Installation of Acoustic Panel and T- Runner w/ Accessories | | | | |
| | 1.1 Materials Cost | | | | |
| | 600mm x 600mm Acoustic Panel | 52.00 | m2 | | |
| | Consumables (5% of Material Cost) | 1.00 | lot | | |
| | 1.2 Labor Force: Consisting of Three (3) Working Days | | | | |
| | 1 - Foreman @ P per day | 3.00 | days | | |
| | 4- skilled @ P per day = Php | 3.00 | days | | |
| | 2- unskilled @ P per day = Php | 3.00 | days | | |
| | 1.3 Equipment Cost | | , | | |
| | Minor Tools (10% of Labor Cost) | 1.00 | lot | | |
| 2 | Painting Works (Wood) | 52.00 | m2 | | |
| 3 | 2m x 1.2m Frameless Tempered Fixed Glass Panel 12mm thk. | 1.00 | pc. | | |
| 4 | CHB Wall | | | | |
| | 100mm CHB Non-Load Bearing (including Reinforcing Steel) | 10.00 | m2 | | |
| | Cement Plaster Finish | 20.00 | m3 | | |
| 5 | Led Light Panel | | | | |
| | LED Panel 40W - 6W6 CW BY | 6.00 | pcs. | | |
| | Down Light DL 12 - 120 - 06w CW | 6.00 | pcs. | | |
| D. | Enhancement of Shower Room 1 & 2 | | | | |
| 1 | Removal of Actual Structures/Obstruction (Tiles) & Fixture | 206.40 | m2 | | |
| 2 | Additional CHB Wall | | | | |
| | 100mm CHB Non-Load Bearing (including Reinforcing Steel) | 19.75 | m2 | | |
| 2 | Cement Plaster Finish (0.16 m thickness) Unglazed Tiles (Ceramic Tiles) 0.60m x 0.60m | 39.50 | m2 | | |
| 3 4 | S/S Grabrail for PWD Cubicle | 226.15 2.00 | m2 sets | | |
| 5 | Shower Room | 2.00 | 5619 | | |
| J | 1 pc. Water Closet Including bidet, Fittings and Acc. (Rectangular) | | | | |
| | American Std or Equivalent) | 6.00 | units | | |
| | S/S Shower Mixer w/Telephone Shower | 8.00 | units | | |
| | Supply & Installation of HPL Phenolic Toilet door including toilet | 0.00 | driito | | |
| | accessories (toilet roll holder, hook, handle) | 6.00 | units | | |
| | | 0.00 | | | |
| | Lavatory Including Fittings and Acc. (Round) American Std or Equivalent) | 6.00 | units | | |
| | 1.10m x 2.50m Mirror | 1.00 | pc. | | |
| | Synthetic Granite Counter Top | 6.00 | m2 | | |
| 6 | Lighting Fixtures | | | | |
| | Exhaust Fan " | 4.00 | units | | |
| | Down Light DL 12 - 120 - 06w CW | 14.00 | pcs. | | |
| 7 | LED Panel 40W - 6W6 CW BY | 8.00 | pcs. | | |
| -/ | Ceiling 4.5mm thk. Fiber Cement Board, 4' x 8' fiber cement board on metal | | | | |
| | frame at ceiling | 43.00 | m2 | | |
| 6 | Painting Works (Wood) | 43.00 | m2 | | |
| | | 70.00 | 1112 | | |
| E. | Enhancement of Dressing Room 1 & 2 | | | | |
| 1 | Removal of Actual Structures/Obstruction (Tiles) & Counter | 132.67 | m2 | | |
| 2 | Unglazed Tiles (Ceramic Tiles) | 132.67 | m2 | | |
| 3 | Mirror (2.00m x 0.80m) | 8.00 | unit | | |
| 4 | Laminated MDF Cabinet (0.85m x 4.20m x 0.60m) | 2.00 | units | | |
| 5 | CHB Wall | | | | |
| Ť | 100mm CHB Non-Load Bearing (including Reinforcing Steel) | 9.60 | m2 | | |
| | Cement Plaster Finish (0.16 m thickness) | 19.20 | | | |
| | Painting Works (Wood) | 19.20 | m2 | | |
| 6 | LED Panel 40W - 6W6 CW BY | 12.00 | m2 | | |
| 7 | Supply & Installation of Acoustic Panel and T- Runner w/ Accessories | 12.00 | pcs. | | |
| | 7.1 Materials Cost | | | | |
| | 600mm x 600mm Acoustic Panel | 95.00 | m2 | | |
| | Consumables (5% of Material Cost) | 1.00 | lot | | |
| _ | 7.2 Labor Force: Consisting of Four (4) Working Days | 1.00 | 100 | | |
| | 1 - Foreman @ P per day | 4.00 | days | | |
| | | 4.00 | | | |
| | 4- skilled @ P per day = Php | | days | | |
| | 2- unskilled @ P per day = Php | 4.00 | days | | |
| | 7.3 Equipment Cost | | | | |
| | Minor Tools (10% of Labor Cost) | 1.00 | lot | | |
| 8 | Painting Works (Wood) | 95.00 | m2 | | |
| 0 | Stainless Curtain Rod w/ accessories | 3.00 | pcs. | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|------|---|-------|-------|-----------|--------|
| F. | Office Room | | | | |
| 1 | Removal of Existing Ceiling (Wood) | 1.00 | l.s. | | |
| 2 | 4.5mm thk. Fiber Cement Board, 4' x 8' fiber cement board on metal frame at ceiling | 1.00 | m2 | | |
| 3 | 3 | 25.67 | m2 | | |
| 4 | Unglazed Tiles (Ceramic Tiles) | 25.67 | m2 | | |
| 5 | Restoration of Window Opening | | | | |
| | 100mm CHB Non-Load Bearing (including Reinforcing Steel) | 4.00 | m2 | | |
| | AV Control Room | | | | |
| | Removal & Hauling of Existing Top Soil | 1.00 | lot | | |
| 2 | Waterproofing of Roof Deck | 1.00 | 101 | | |
| | Sintec URTOP MP 1.5mm Thermoplastic Polyolefin Polyester Reinforce (2.1m x 20m/roll) | 1.00 | roll | | |
| | Angle Bar (50mm x 50mm x 6mm thick) | 2.00 | pcs. | | |
| | Sleeve Type Anchor Bolt | 12.00 | pcs. | | |
| | Vulca Seal | 0.25 | gal. | | |
| 3 | Removal of Existing Concrete Wall | 15.00 | m2 | | |
| 4 | Restoration | | | | |
| | 4.1 Roof Slab | | | | |
| | Portland Cement Concrete Pavement (Reinforced) 0.15m thick 14 days | 3.50 | m2 | | |
| | 4.2 CHB Wall | | | | |
| | 100mm CHB Non-Load Bearing (including Reinforcing Steel) | 21.00 | m2 | | |
| | Cement Plaster Finish (0.16 m thickness) | 42.00 | m2 | | |
| VII. | Provision for Supply & Installation of Doors & Windows | | | | |
| Α. | Doors | | | | |
| 1 | Backstage Access (Door 1) | | | | |
| | 2pcs. 1m x 2.05m x 10mm Clear Tempered Glass Frameless Double Action Floor Hinge w/ Transom Window | 2.00 | units | | |
| 2 | Dressing Room 1 & 2 (Door 2) | | | | |
| | D-2 DOUBLE PLAIN STEEL DOOR Size: 1000mm+1000mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18 Hinges: Stainless steel flag hinges mounted in 3mm steel plates Lockset: None Coating: Epoxy primer gray Door Configuration: To Be Determined Included: Flush bolt (top & bottom) | 2.00 | units | | |
| 3 | Rehearsal Room and Stair 2 (Door 3) | | | | |
| | D-3 DOUBLE STEEL DOOR W/ VIEW GLASS PANEL Size: 1000mm+1000mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18 | | | | |
| | Hinges: Stainless steel flag hinges mounted in 3mm steel plates Lockset: None Coating: Epoxy primer gray Door Configuration: To Be Determined Included: Flush bolt (top & bottom) Optional: SS Pull handle | 2.00 | units | | |
| 4 | Hinges: Stainless steel flag hinges mounted in 3mm steel plates Lockset: None Coating: Epoxy primer gray Door Configuration: To Be Determined Included: Flush bolt (top & bottom) | 2.00 | units | | |
| 4 | Hinges: Stainless steel flag hinges mounted in 3mm steel plates Lockset: None Coating: Epoxy primer gray Door Configuration: To Be Determined Included: Flush bolt (top & bottom) Optional: SS Pull handle | 1.00 | units | | |
| 4 | Hinges: Stainless steel flag hinges mounted in 3mm steel plates Lockset: None Coating: Epoxy primer gray Door Configuration: To Be Determined Included: Flush bolt (top & bottom) Optional: SS Pull handle Piano Recording Room (Door 4) | | | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|-----|---|-------|--------------|-----------|--------|
| 6 | AV Control Room (Door 6) | | | | |
| | D6 PLAIN STEEL DOOR Size: 900mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18 Hinges: Stainless steel flag hinges mounted in 3mm steel plates Lockset: None Coating: Epoxy primer gray Door Configuration: To Be Determined Coating: Epoxy primer gray | 1.00 | sets | | |
| 7 | Stair # 1 & 2 and Command Center and Office Room (Door 7) | | | | |
| | D-7 STEEL DOOR W/ VIEW GLASS PANEL Size: 900mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18 Hinges: Stainless steel flag hinges mounted in 3mm steel plates Glass: Clear 150mmW x 800mmH x 6mmT Lockset: None Coating: Epoxy primer gray Door Configuration: To Be Determined | 4.00 | units | | |
| 8 | Janitor & Electrical Room (Door 8) | | | | |
| | D8 FULL LOUVER STEEL DOOR Size: 900mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 2"x4" GI Tubular Louver: Z profile blades 0.9 mm thickness galvanized steel Hinges: Stainless steel flag hinges mounted in 3mm steel plates Lockset:None Coating: Epoxy primer gray Door Configuration: Pull Orientation | 3.00 | units | | |
| 9 | Backstage | | | | |
| | D-9 FIRE-EXIT STEEL DOOR Size: 900mm Width x 2050mm Height Jamb: 2x4 Single Rabbet, gauge 16 Panel: 44mm Thickness, gauge 18 Lockset: Panic exit device Hinges: Stainless steel flag hinges mounted in 3mm steel plates Coating: Epoxy primer gray Door Configuration: To Be Determined | 1.00 | units | | |
| | 5.00m x 3.05m Top Track Operable with Sound Insulation Panel (Door 10) | 1.00 | units | | |
| | 1.20m x 3.05m Top Track Operable with Sound Insulation Panel (Door 11) | 1.00 | units | | |
| В. | Windows | | | | |
| 1 | Staircase 1 & 2 Landing (Window 1) | | | | |
| | Fixed Awning window with Screen (6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen) | 10.56 | m2 | | |
| 2 | Dressing Room (Window 2) | | | | |
| | Awning Window w/ Screen (6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen) | 1.20 | m2 | | |
| 3 | Shower Room 1 & 2 (Window 3) | | - | | |
| | Awning Window w/ Screen (6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security Screen) | 3.00 | m2 | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|--------|--|---------------|----------------|-----------|--------|
| 4 | AV Control Room (Window 4) | | | | |
| | Fixed Awning window with Screen | 5.30 | m2 | | |
| | (6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security | 0.00 | | | |
| | Screen) | | | | |
| 5 | Office Room & Command Center (Window 5) | | | | |
| | Casement Window w/ Screen | 13.20 | m2 | | |
| | (6mm Tempered Clear Glass, Powdered Coated Black, Hardmesh | | | | |
| | Security Screen) | | | | |
| 6 | Backstage Area (Window 6) | | | | |
| | Fixed Glass Window (w/ Tint) (6mm Tempered Frosted Glass, Powdered Coated Black) | 17.60 | m2 | | |
| 7 | Rehearsal Room (Window 7) | | | | |
| | Fixed Casement Window with Screen | 6.60 | m2 | | |
| | (6mm Tempered Frosted, Powdered Coated Black, Hardmesh Security | 0.00 | 1112 | | |
| | Screen) | | | | |
| VIII. | Supply, Delivery and Installation of Aircondition Units and Duct Works | | | | |
| A. | AV Control Room | | | | |
| 1 | 1.0 HP Wall Mounted Split Type | 1 | sets | | |
| 2 | Copper Tubing with Rubber Insulation and Tape | 4 | meters | | |
| 3 | Communication Wire | 4 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 1 | pc. | | |
| 5 | Metal L-Type Bracket for Condenser THHN Wire 2.0 m2 | 2 | pcs. | | |
| 6 7 | Himel Breaker with Switch Box | <u>4</u> 1 | meters pcs. | | |
| В. | Men's Dressing Room | | pcs. | | |
| 1 | 2.0 HP Wall Mounted Split Type | 2 | sets | | |
| 2 | Copper Tubing with Rubber Insulation and Tape | 8 | meters | | |
| 3 | Communication Wire | 8 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 2 | рс. | | |
| 5 | Metal L-Type Bracket for Condenser | 4 | pcs. | | |
| 6 | THHN Wire 2.0 m2 | 8 | meters | | |
| 7 | Himel Breaker with Switch Box | 2 | pcs. | | |
| C. | Ladies' Dressing Room 2.5 HP Wall Mounted Split Type | | ooto | | |
| 1 | Copper Tubing with Rubber Insulation and Tape | 2 8 | sets meters | | |
| 3 | Communication Wire | 8 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 2 | pc. | | |
| 5 | Metal L-Type Bracket for Condenser | 4 | pcs. | | |
| 6 | THHN Wire 2.0 m2 | 8 | meters | | |
| 7 | Himel Breaker with Switch Box | 2 | pcs. | | |
| D. | Meeting Room | | | | |
| 1 | 2.5 HP Wall Mounted Split Type | 1 | sets | | |
| 2 | Copper Tubing with Rubber Insulation and Tape | 4 | meters | | |
| 3 | Communication Wire | 4 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 1 | pc. | | |
| 5 | Metal L-Type Bracket for Condenser | 2 | pcs. | | |
| 6 | THHN Wire 2.0 m2 | 4 | meters | | |
| 7 | Himel Breaker with Switch Box | 1 | pcs. | | |
| E. | Piano Recording Room | | | | |
| 1 | 2.5 HP Wall Mounted Split Type | 1 | sets | | |
| 2 | Copper Tubing with Rubber Insulation and Tape | 4 | meters | | |
| 3 | Communication Wire | 4 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 1 | pc. | | |
| 5 | Metal L-Type Bracket for Condenser | 2 | pcs. | | |
| 6 | THHN Wire 2.0 m2 | 4 | meters | | |
| 7 | Himel Breaker with Switch Box | 1 | pcs. | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|-----|---|----------|--------|-----------|--------|
| F. | Rehearsal Room | | | | |
| 1 | 2.5 HP Wall Mounted Split Type | 3 | sets | | |
| 2 | Copper Tubing with Rubber Insulation and Tape | 12 | meters | | |
| 3 | Communication Wire | 12 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 3 | pc. | | |
| 5 | Metal L-Type Bracket for Condenser | 6 | pcs. | | |
| 6 | THHN Wire 2.0 m2 | 12 | meters | | |
| 7 | Himel Breaker with Switch Box | 3 | pcs. | | |
| G. | Backstage Area | | p 00. | | |
| 1 | 3 HP Wall Mounted Split Type | 4 | sets | | |
| 2 | Copper Tubing with Rubber Insulation and Tape | 16 | meters | | |
| 3 | Communication Wire | 16 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 4 | pc. | | |
| 5 | Metal L-Type Bracket for Condenser | 8 | pcs. | | |
| 6 | THHN Wire 2.0 m2 | 16 | meters | | |
| 7 | Himel Breaker with Switch Box | 4 | pcs. | | |
| H. | Office Room | | poo. | | |
| 1 | 2.5 HP Wall Mounted Split Type | 1 | sets | | |
| 2 | Copper Tubing with Rubber Insulation and Tape | 4 | meters | | |
| 3 | Communication Wire | 4 | meters | | |
| 4 | PVC Pipe for Condensate Drain | 1 | pc. | | |
| 5 | Metal L-Type Bracket for Condenser | 2 | pcs. | | |
| 6 | THHN Wire 2.0 m2 | 4 | meters | | |
| 7 | Himel Breaker with Switch Box | 1 | | | |
| l. | Basement Ventilation Exhaust and Fan ReplacementDuct Works | 1 | pcs. | | |
| 1 | Basement Roof Top Exhaust Ventilator | 1 | units | | |
| 2 | Motor Controller | 1 | pcs. | | |
| 3 | Maintenance Breaker Switch Box | 2 | pcs. | | |
| 4 | Max. 10 Meters Electrical Works for (Motor Controller, Bio PVC Pipes, Bio PVC Flexible Hose and Boston Wires - Load Side only | 1 | lot | | |
| Χ. | Painting Works | | | | |
| 1 | Scrapping of Existing Paint | 1,302.69 | m2 | | |
| 2 | Masonry/Concrete | | | | |
| | Basement | 477.70 | m2 | | |
| | Equipment Storage | 128.40 | m2 | | |
| | Rehearsal Room | 212.17 | m2 | | |
| | Men's Shower Room | 77.10 | m2 | | |
| | Men's Dressing Room | 125.49 | m2 | | |
| | Ladies Shower Room | | m2 | | |
| | | 77.98 | | | |
| | Ladies Dressing Room | 134.01 | m2 | | |
| | Meeting Room 2 | 97.67 | m2 | | |
| | Meeting Room 1 | 99.55 | m2 | | |
| | Backstage | 918.76 | m2 | | |
| | HE CR | 8.62 | m2 | | |
| | SHE CR | 6.72 | m2 | | |
| | Janitor Room | 34.29 | m2 | | |
| | Electrical Room | 45.84 | m2 | | |
| | Server Room | 78.81 | m2 | | |
| | Command Center | 78.81 | m2 | | |
| | Office Room | 86.57 | m2 | | |
| | Control Room | 55.32 | m2 | | |
| | Exterior Wall | 732.60 | m2 | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|-------|--|----------|-------|-----------|--------|
| 3 | Steel Trusses | | | | |
| | EPOXY PRIMER | 20.00 | gals. | | |
| | EPOXY ENAMEL | 20.00 | gals. | | |
| | POLYTUFF | 7.00 | gals. | | |
| | EPOXY REDUCER | 8.00 | gals. | | |
| | RUST CONVERTER | 7.00 | gals. | | |
| | SANDING DISK | 30.00 | pcs | | |
| | PAINT BRUSH 1 1/2" | 25.00 | pcs | | |
| | BABY ROLLER | 25.00 | pcs | | |
| 4 | Rubberized Floor Paint | | | | |
| | Front Stage | 351.53 | m2 | | |
| | Backstage | 570.09 | m2 | | |
| | Mechanical Works | | | | |
| 1 | Ventilation - HVLS Series Ceiling Fan, Aviation Aluminum Extruded Anodized (Airfoil Style), # of Airfoil: 8, 80RPM (VFD Controller) 3730CMM, 220V 1PH 60HZ Motor: Brushless Rare Earth, Permanent Magnet SKF Explorer Reinforced, IP20 14ft. diameter (4.2m) IND42-1PH (I-MXA-VNA-00037) | 4.00 | units | | |
| 2 | Wires (4G x 2.5mm2 Control Cable) | 400.00 | m | | |
| XI. | Landscaping Works | | | | |
| 1 | Excavation | 120.00 | m3 | | |
| 2 | Garden Soil | 120.00 | m3 | | |
| 3 | Frog Grass | 400.00 | m2 | | |
| 4 | PODOCARPUS COSTALIS (Maki) approx. 2-3ft | 2,500.00 | pcs. | | |
| 5 | PHILODENDRON SELLOUM | 300.00 | pcs. | | |
| XII. | Provision for Steel Basket (3 units) | | · | | |
| | Flat Bar 50mm x 3mm thick x 6m | 24.00 | pcs. | | |
| | B.I. (Black Iron) Tubular 25mm x 25mm x 1.5mm thick | 24.00 | pcs. | | |
| | B.I. (Black Iron) Tubular 50mm x 50mm x 1.5mm thick | 9.00 | pcs. | | |
| | Welding Rod | 3.00 | boxes | | |
| | Paint Metal Epoxy | 2.00 | gals. | | |
| XIII. | Provision of Scaffolding Rental | | - | | |
| | Rental per set | | | | |
| | 6 H - Frame (1.70 x 1.20) @ P pc. = Php | | | | |
| | 12 - Cross Braces (1.80m) @ P pc. = Php | | | | |
| | 2- Catwalk 0.50m x 1.80m @ P /pc. = Php | | | | |
| | Joint Pin | | | | |
| | | | | | |
| | Adjustable U- Head | | | | |
| | 8 pcs. x 1 1/4" x 600mm @ P P Php | | | | |
| | Adjustable Base Jack | | | | |
| | 8 pcs. x 1 1/4" x 600mm @ P Php | | | | |
| | Total Amount Per set = Php | | | | |
| | No. of Sets = 20 sets x P /Month = Php | 6.00 | month | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|------|--|-------|--------|-----------|--------|
| XIV. | Pest Control | | | | |
| 1 | Comprehensive termite control program includes the following: (2 year warranty) supply of chemicals, supply of materials and equipments labor and supervision | 1.00 | lot | | |
| 2 | General Pest Control Maintenance Program (6 months contract) supply of chemicals, supply materials and equipment labor and supervision | 6.00 | months | | |
| XV. | Lights Equipment | | | | |
| 1 | 4 bulb LED Molefay | 12.00 | units | | |
| | 4-Eyes "MOLEFAY" design Ø High-Power WW LED COB Lamps: 4 x 100W (400w) 3000 to 3200°K Ø Beam Angle: >90 degree Wide Flood Ø DMX operation - with 1 channel (4 ch. Optional) Ø Wireless DMX ready – using special 3-Pin XLR socket with 5vdc Ø Horizontal adjustment of 2-Beam columns Ø Auto operation with built-in control Ø Master-Slave operation Ø Powercon IN & OUT for mains Ø Power: 90 – 255 VAC - 50/60 Hz, @450 watts | | | | |
| 2 | Jolly 1218 RGBW LED Par | 56.00 | units | | |
| | Angle 15°/25°/45° optional • Lamp 18pcs LED, RGBW, 15W • Color Temperature 6000-6500K • Power 100-250V 50/60Hz 250w • Channel 8/14 ch • Color RGBW • Strobe 1-25/S • Linear Dimmer • LED Display • L322mm x W293mm x H134mm • Weight 5.5 kgs • IP65 | | | | |
| 3 | COB DMX200 Daylight Tungsten LED Par with Barn Door | 26.00 | units | | |
| | Light Source 200w Warm+cool white • 200w Rated Power • Beam Angle 45 degrees • Dimming 0 to 100% linear Dimming • 5 DMX Channel • Control Mode DMX512 self propelled master slave voice activated • LCD Display • AC90 to 240V 50-60hz | | | | |
| 4 | Solar Flare | 8.00 | units | | |
| | Colour mixing: Linear CMY color mixing Color Temperature: 6500K Switch to high CRI mode with high CRI filter Framing shutters: 4 fast and smooth framing shutters, each shutter blade position and angle can be controlled individually; Each shutter blade can block out light completely, the framing module can be rotated at ± 45° Rotating gobo wheel: 1 rotating gobo wheel with 6 gobos plus open, convenient replacement Static gobo Wheel: 1 static gobo wheel with 8 gobos plus open Color Wheel: 1 color wheel with 5 colors plus white Prism: 4 - facet prism rotating in both directions Iris: Motorized, linear Frost: 2 new material frost filters(light & medium), can be used independent and overlay Motorized zoom and focus Outstanding strobe effect with variable speed Random strobe & pulse effects Equipped with new heat management which effectively dissipate heat and reduce noise With 2 modes: standard & power saving mode | | | | |
| 5 | Lighting Control Console | 1.00 | units | | |
| | 40 electronically-labelled playback faders 15.6" main touch screen 7" secondary touchscreen 20 macro / executor buttons 3 optical attribute encoders 4 optical playback pots UPS battery backup Built-in 4-port managed gigabit network switch Ethercon for all ethernet connections OpticalCon stage link output 16 universes of ArtNet or S-ACN, expandable with Titan Net Processors 8 Physical DMX outputs on 5-pin XLR | | | | |
| 6 | 2500w Follow Spot with stand and dustcover | 2.00 | units | | |
| 7 | DMX Splitter, Cables and Connectors | 1.00 | sets | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|------|---|-------|--------|-----------|--------|
| XVI. | Audio Equipment | | | | |
| 1 | Front of House Speakers (suspended from roof) | 12.00 | units | | |
| | 120,000.00 1,440,000.00 | | | | |
| | Frequency response (-5 dB standard) 67 Hz - 18 kHz | | | | |
| | Frequency response (-5 dB CUT mode) 100 Hz - 18 kHz | | | | |
| | Max. sound pressure | | | | |
| | - with D20/30D 139 dB | | | | |
| | - with D40/D80/40D 142 dB | | | | |
| | Configuration High performance 3-way passive line array loudspeaker | | | | |
| | Nominal impedance 8 Ω | | | | |
| | Power handling capacity (RMS/peak 10 ms) 500/2000 W | | | | |
| | Nominal dispersion angle (horizontal) 80°2 | | | | |
| | Splay angle settings 0° - 14° (1° increment) | | | | |
| | Components | | | | |
| | - 2 x 10" driver / 1 x 8" driver | | | | |
| | - 2 x 1.4" exit compression driver passive crossover network | | | | |
| | Connections | | | | |
| | - 2 x NLT4 F/M | | | | |
| | - optional 2 x NL4 | | | | |
| | Dimensions (H x W x D) - 310 x 700 x 460 mm | | | | |
| 2 | Weight 34 kg Subwoofer (under stage) | 4.00 | units | | |
| | | 4.00 | uriits | | |
| | Frequency response (-5 dB standard) 37 Hz - 90 Hz | | | | |
| | Frequency response (–5 dB INFRA mode) 32 Hz - 68 Hz | | | | |
| | Max. sound pressure ₁ | | | | |
| | - with D20/30D 140 dB | | | | |
| | -with D40/D80/40D 143 dB | | | | |
| | Configuration | | | | |
| | High performance subwoofer intended for ground stacked applications | | | | |
| | Nominal impedance 4 Ω | | | | |
| | | | | | |
| | Power handling capacity (RMS/peak 10 ms) 1000/4000 W | | | | |
| | Components - 2 x 18" driver with neodymium magnet | | | | |
| | Connections - 2 x NLT4 F/M | | | | |
| 3 | Front fill speakers (under stage) | 4.00 | units | | |
| | Frequency response (-5 dB standard) 54 Hz - 19 kHz | | | | |
| | Frequency response (-5 dB CUT mode) 100 Hz - 19 kHz | | | | |
| | Max. sound pressure1 | | | | |
| | - with 10D 134 dB | | | | |
| | -with D20/30D 137 dB | | | | |
| | -with D40/D80/40D 139 dB | | | | |
| | High performance 2-way passive line array loudspeaker | | | | |
| | Nominal impedance 8 Ω | | | | |
| | Power handling capacity (RMS/peak 10 ms) 400/1600 W | | | | |
| | Nominal dispersion angle (horizontal) 80° | | | | |
| | Splay angle settings 0° - 14° (1° increment) | | | | |
| | Components | | | | |
| | - 2 x 8" driver with neodymium magnet | | | | |
| | - 1.4" exit compression driver passive crossover network | | | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|-----|---|------|-------|-----------|--------|
| 4 | 4-Channel Amplified Controller | 6.00 | units | | |
| | Output power (no limiter 200 ms sine bursts,1 kHz, < 1% THD, all channels | | | | |
| | 4 x 3300 W at 2.7 ohms | | | | |
| | 4 x 2600 W at 4 ohms | | | | |
| | 4 x 1400 W at 8 ohms | | | | |
| | Amplification class: High-efficiency Class D | | | | |
| | Maximum output voltage: 157 V (peak voltage) | | | | |
| | Architecture: 4 in x 4 out | | | | |
| | Frequency range: 20 Hz - 20 kHz (+/- 0,1 dB, 8 ohms, 60 W output power) | | | | |
| | Distortion THD+N: < 0.05% (20 Hz - 10 kHz, 8 ohms, 60 W output power) | | | | |
| | Output dynamic range: > 114 dB (20 Hz - 20 kHz, 8 ohms, A-weighted) | | | | |
| | Noise level < -72 dBV (20 Hz - 20 kHz, 8 ohms, A-weighted) | | | | |
| | Amplification gain: 32 dB | | | | |
| | Channel separation: > 85 dB (1 kHz, 4 ohms) | | | | |
| | Output delay: adjustable from 0 to 1000 ms | | | | |
| 5 | LA8 Amplifiers | 1.00 | units | | |
| | 4-channel amplifier | | | | |
| | Universal switched mode power supply, 120 / 230 V (or 100 / 200 V for Japan | | | | |
| | 4 x 1100 W / 8 Ω at 1% THD, all channels driven (4 x 1300 W peak) | | | | |
| | 4 x 1800 W/4 or 2.7 Ω at 1% THD, all channels driven (4 x 2500 W peak) | | | | |
| | Amplifier gain = 32 dB | | | | |
| | Frequency response: 10 Hz – 30 kHz, -1.5/+0 dB at 8 Ω | | | | |
| | Output noise: -67 dBV (20 Hz - 20 kHz, A-weighted) | | | | |
| | Output dynamic range: 107 dB (20 Hz – 20 kHz, A-weighted) | | | | |
| | Max input level: +22 dBu (balanced, THD 1%) | | | | |
| | Channel separation: > 85 dB (1 kHz) | | | | |
| | Input impedance: 22 kΩ, balanced | | | | |
| | AES/EBU input board: refer to the LA-AES3 spec sheet | | | | |
| | Dimensions | | | | |
| | H x W x D: 88 (2U) x 483 x 420 mm 3.5 (2U) x 19 x 16.5 in | | | | |
| | Weight (net): 12.2 kg 26.9 lbs. | | | | |
| | Finish: black and anthracite gray | | | | |
| 6 | Loud Speaker Management System 3in / 6 out | 1.00 | units | | |
| | Number of Channels:6 | | | | |
| | EQ:31-band (Graphic), 12-band (Parametric) | | | | |
| | Compressor:Yes | | | | |
| | Feedback Eliminator:Yes | | | | |
| | Analog Inputs:3 x XLR, 1 x XLR (RTA Mic) | | | | |
| | Analog Outputs:6 x XLR | | | | |
| | Computer Connectivity:1 x USB-B | | | | |
| | Rack Spaces:1U | | | | |
| | Height:1.75" | | | | |
| | Depth:8" | | | | |
| | Width:19" | | | | |

| No. | Description | Qty. | Unit | Unit Cost | Amount |
|-----|--|------|-------|-----------|--------|
| 7 | Floor Monitors | 8.00 | units | | |
| | 15" Neodymium Woofer 1" Kapton Dome Neodymium Tweeter 60 x 60° Dispersion 700W Digital Amplifier DSP Processing XLR and 1/4" Inputs and XLR Output AC Input and Output Connectors | | | | |
| | Integrated Handle and Pole Socket | | | | |
| 8 | Digital Mixer | 1.00 | units | | |
| | Type: Digital Mixer Channels: 40 Inputs - Mic Preamps: 32 x XLR Phantom Power: 48V, Switchable per Input Inputs - Line: 1 x Dual RCA Stereo (aux) Inputs - Other: 6 x 1/4" TRS (aux) Outputs - Main: 16 x XLR, 2 x XLR (monitor), 2 x 1/4" (monitor) Outputs - Other: 6 x 1/4" TRS (aux), 1 x Dual RCA Stereo (aux) Outputs - Digital: 1 x XLR (AES/EBU) Busses/Groups: 25 time-aligned/phase-coherent mix buses, 8 DCA groups Talkback: 1 x XLR MIDI I/O: In/Out/USB Data I/O: 1 x EtherCon (Ultranet), 2 x EtherCon (AES50), 1 x Ethernet Headphones: 2 x 1/4" TRS (stereo) USB: 1 x Type B, 1 x Type A Computer Connectivity: USB, Ethernet Faders: 16 x Input Faders, 8 x Bus Faders, 1 x Main Fader A/D Resolution: 24-bit/48kHz EQ Bands: 4-band EQ Effects: 8 x Stereo FX Engines Signal Processing: Gate, Compressor Features: 100-band RTA, 100 scenes, 100 Snippets, 32-bit/48kHz SD Card recording DAW Control: Yes Screen: 7" TFT Display Storage: 2 x SD card slots | | | | |
| 9 | Power Source: Standard IEC AC cable 32-Input / 16-Output Stage Box | 1.00 | units | | |
| | 32 microphone preamplifiers with switchable 48 V phantom power 16 electronically balanced low impedance line level outputs Two AES-3 ports (AES/EBU),e.g. for directly connecting PA system controllers with digital inputs, Remote operation up to 100 m via CAT5/5e cable, Rugged 3U rackmount chassis for durability in portable applications Auto-ranging universal switch-mode power supply Mute-All-Inputs function for quietly patching any inputs on stage | | | | |
| 10 | Dual Channel Digital Wireless Receiver with 2 Handheld Transmitters | 2.00 | sets | | |
| | Extended 20 Hz to 20 kHz frequency range (microphone dependent) 118 dB dynamic range, Digital predictive switching diversity 44 MHz tuning bandwidth (region dependent) 32 available channels per frequency band (region dependent) Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band,Easy pairing of transmitters and receivers over IR scan and sync Portable Receiver & Plug-On Transmitter Options | | | | |
| 11 | Wired microphones Type: Dynamic | 8.00 | units | | |
| | Frequency Response: 50 to 15,000 Hz Polar Pattern: Cardioid Sensitivity (at 1,000 Hz Open circuit voltage): –54.5 dBV/Pa (1.85 mV), 1 Pa = 94 dB SPL Impedance: Rated impedance is 150 Ω (300 Ω actual) for connection to microphone inputs rated low impedance Polarity: Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3 Case: Dark gray, enamel-painted, die cast metal; matte-finished, silver colored, spherical steel mesh grille Connector: Three-pin professional audio connector (male XLR type) | | | | |

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| No. | De | scription | Qty. | Unit | Unit Cost | Amount |
|--------|--|-------------------|---------------|---------------|-----------|--------|
| 11 | Pencil condenser microphones | | 8.00 | units | | |
| | Small-diaphragm pencil condenser microphones Packaged as a stereo pair (matched within ±0.5dB sensitivity of each other) Cardioid pickup pattern Up to 134dB SPL Gold-plated XLR connectors Protective carry case, shock-mounted mic clips and windscreens included | | | | | |
| 12 | Mic stand with boom | | 16.00 | units | | |
| 13 | DI Box | | 6.00 | units | | |
| 14 | Equipment Rack | | 1.00 | units | | |
| | Full Duplex Wireless Intercommunication System | | 1.00 | units | | |
| | Up to 1300ft Radius Communication Range POE Power Supply / NP-F Type Battery 450 meters Line-of-Sight Usage Grouping Talk 1.9GHz Frequency Multi-Device Cascade Connection With Professional Headphones Sidetone Function Removable Li-ion Batteries 3.55mm Headset Interface/USV-Type C Interface/Headset Interface With 1 Station, 8 Beltpack, Charging Base, High Gain Antenna, Extra Battery for Beltpacks, Cables | | | | | |
| XVII. | Replacement of LED Wall Frame | | | | | |
| 1 | Dismantling of Existing 168 LED Panel | | | | | |
| | Labor Force: Consisting of Five (| | | | | |
| | 1 - Foreman @ P | per day | 5.00 | days | | |
| | 4- skilled @ P | per day = Php | 5.00 | days | | |
| | 4- unskilled @ P | per day = Php | 5.00 | days | | |
| 2 | New Structural Steel Framing | | 22.00 | | | |
| | B.I. (Black Iron) Tubular150mm x 50mm x 1.5mm thick x 6 meters Angle Bar (75mm x 75mm x 6mm thick x 6 meters) | | 23.00 | pcs. | | |
| | | trick x 6 meters) | 5.00 2.00 | pcs. boxes | | |
| - | Welding Rod Base Plate 6" x 10" | | | | | |
| | | | | pcs. | | |
| | Anchor Bolts Paint Metal Epoxy Equipment Rental 1 - Welding Machine @ 850.00/per day Removal of Existing Diagonal Frame | | 76.00 2.00 | pcs. gals. | | |
| | | | 2.00 | yais. | | |
| | | | 10.00 | days | | |
| 3 | | | 10.00 | dayo | | |
| Ŭ | Labor Force: Consisting of Two (| | | | | |
| | 1 - Foreman @ P | per day | 2.00 | days | | |
| | 4- skilled @ P | per day = Php | 2.00 | days | | |
| | 2- unskilled @ P | per day = Php | 2.00 | days | | |
| 4 | Restoration of Existing 168 LED Pa | | | | | |
| | Labor Force: Consisting of Sever | | | | | |
| | 1 - Foreman @ P | per day | 7.00 | days | | |
| | 4- skilled @ P | per day = Php | 7.00 | days | | |
| | 4- unskilled @ P | per day = Php | 7.00 | days | | |
| XVIII. | Facilities For The Engineer | | | | | |
| 1 | Construction of Field Office for the Engineer | | 1.00 | l.s. | | |
| XIX. | Other General Requirements | | | | | |
| 1 | 1 COA 2 Project Billboard | | | l.s. | | |
| 2 | | | | l.s. | | |
| 3 | | | | l.s. | | |
| 4 | | | | | | |
| 4 | * IVIOUIIIZALIOI (I DEITIOUIIIZALIOI I | | 1.00 | l.s. | | |
| | ΤΟΤΔΙ | PROJECT COST | | | | _ |

| 1 | COA | 1.00 | l.s. | | |
|---------------------|--|--|------|------|--|
| 2 Project Billboard | | | l.s. | | |
| 3 | Occupational Safety and Health Program | 1.00 | l.s. | | |
| 4 | Mobilization/Demobilization | 1.00 | l.s. | | |
| | TOTAL PROJECT COST | ROJECT COST | | | |
| Nan | | Signature Over Printed Name of Authorized Representative | | Date | |