

**TECHNICAL SPECIFICATIONS**

Based on the technical project prepared from the engineers of Finiq Municipality has been prepared the technical specifications for the following systems:

**LOT 1**

1. **Professional Audio System**

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| 6 (six)  | Linearray speaker system  | Frequency Range (-10 dB): 70 Hz -20 kHzFrequency Response (±3 dB): 87 Hz - 19 kHzCoverage Pattern: 100° x 15° nominal (horizontal x vertical), single unitCrossover Modes: Bi-amp / passive, externally switchableCrossover Frequency: 2.0 kHzPower Rating1: 400 W / 800 W / 1600 W(Continuous / Program / Peak): Bi-amp LF: 400 W / 800 W / 1600 WBi-amp HF: 130 W / 60 W / 120 WSystem Maximum SPL2: 122 dB SPL peak (passive mode)LF: 122 dB (bi-amp mode)HF: 128 dB (bi-amp mode)System Sensitivity (1w @ 1m): 90 dB SPL (passive mode) |
| 2 (two) | High power suspendable subwoofer system | System Type: 15" bass reflex subwooferFrequency Range (-10 dB): 35 Hz - 250 HzFrequency Response (±3 dB): 40 Hz - 250 HzRecommended Hi-Pass Filter: High-pass: Butterworth 24 dB/oct, 45 HzLow-pass: Linkwitz-Riley 48 dB/oct, 80 - 120 HzPower Rating1: 800 W / 1600 W / 3200 W(Continuous / Program / Peak)Maximum Peak SPL2: 126 dB SPLSensitivity (1w @ 1m): 91 dB SPLLF Driver: 1 x JBL 2265G-1, 380 mm (15 in) Differential Drive®wooferNominal Impedance: 4 Ohms |
| 2 (two)  | Hardware for suspending speakers and subwoofers | Hardware for suspending VRX915S and/or VRX928LA enclosures |
| 2 (two) | Power Amplifier Two-channel, 1200W @ 4Ω  | Sensitivity (for full rated power at 4Ω) : 1.4V Rated Power Output (per Channel at 4Ω) : 2100W Stereo Signal to Noise Ratio (below rated 1kHz power at 8Ω) : 103 dB (A Weighted) Total Harmonic Distortion : <0.5% Damping Factor : 20 Hz to 1kHz >500 Frequency Response (at 1W, 20 Hz to 20 kHz) : +0 dB, -1 dBCrosstalk (below rated power) 20 Hz to 1kHz : >70 dB Input Impedance : 20kΩ balanced, 10kΩ unbalanced |
| 1 (one)  |  Power Amplifier Two-channel, 2100W @ 4Ω | Sensitivity (for full rated power at 4Ω) : 1.4V Rated Power Output (per Channel at 4Ω) : 1200W Stereo Signal to Noise Ratio (below rated 1kHz power at 8Ω) : 100 dB (A Weighted) Total Harmonic Distortion : <0.5% Damping Factor : 20 Hz to 1kHz >500 Frequency Response (at 1W, 20 Hz to 20 kHz) : +0 dB, -1 dBCrosstalk (below rated power) 20 Hz to 1kHz : >70 dB Input Impedance : 20kΩ balanced, 10kΩ unbalanced |
| 1 (one)  | Digital Mixing Console | 32 recallable GB mic inputs with locking connectorsand phantom power indicators16 XLR analogue line outputs8 XLR/1/4” Combi-jacks for line inputs and instrumentsAES OutWord ClockHiQnet Ethernet port for HiQnet system integrationand ViSi Remote System32x32 ViSi Connect expansion slot (see back page) 8 LED Input Meter48v Phantom power switchPolarity reverse switchInput Gain/Trim AdjustmentVariable High Pass FilterHPF engage switch 32-in/32-out low latency recording interfaceCompatible with PC and MAC DAW softwareAbleton Live Lite 9 software download included • 24 Motorised input faders + LR/Mono (Fullymotorised With 4 fully customisable fader Layers)Multi-Colour LCD Channel Displays on each inputfader for instant visual feedback and naming8 VCA groups8 mute groups for muting groups of channels as oneSnapshot control – 1000 cues can be stored andrecalled from dedicated cue control buttonsUSB port for saving/loading shows and snapshotswith USB memory sticks5" colour touchscreen for patching, routing, showset-up and security settings8 LED input and output meters (monitor L/R,master L/R, mono)Headphone output |
| 4 (four) | Vocal Set Wireless Microphone | Frequency bands: A: 530,025 – 559,000 MHz; U1: 606,100 – 613,900 MHz; U2: 614,100 – 629,900MHz; B1: 748,100 – 751,900 MHz; B2: 774,100 – 777,900 MHz; M: 826,300 –831,000 MHz; D: 863,100 – 864,900 MHz; K: 925,100 – 931,850 MHzDiversity system: Antenna switchingRF output: 10, 20 or 50 mW (depending on frequency band)Audio bandwidth: 40 – 20 000 Hz (+/- 3dB)Tuning range: Up to 30 MHz (depending on frequency band)Max. channels: Up to eight compatible channels within one frequency bandFrequency selection: Fixed frequenciesModulation: FMRadio range (Line of sight): 30 meter (with external antennas further distances achievable) |
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| 4 (four) | Handheld Microphone with Cable | Polar Patterns: Super cardioidFrequency Range: 70 to 20,000 HzHigh Pass Filter: 80 Hz, always activeSensitivity: 2.6 mV/Pa (-52 dBV)Max. SPL for 1%/3% THD: 147/156 dB SPLEquivalent Noise Level: 18 dB-ASignal/noise ratio (A-weighted): 76 dBImpedance/load Impedance: ≤600 ohms, 2000 ohmsHumbucking Coil: Integrated on CapsuleConnector: 3-pin XLR |
| 4 (four) | Microphone Stand |  Weight (kg): 1.8Colour: Blackmin. height (cm): 95 max. height (cm): 148 |
| 2 (two) | 19 inch Professional Equipment Rack | Rack Dimensions: 447 x 427 x 540 mm (LxWxH)Outside Dimensions : 566 x 462 x 594 mm (LxWxH)Weight 18 kg |
| 1 (one)  | Approximate other accessories, like DMX cables, power Conn connectors |   |
| 2 (two) | Self-Powered Speaker | Max SPL Output : 127 dBFreq. Range (-10 dB) : 39 Hz - 20 kHzFreq. Response (±3 dB) : 50 Hz - 20 kHzCoverage Pattern : 90° x 60°Amplifier Design : Class DPower Rating : 1000W Peak (700W LF + 300W HF), 500W Continuous (350W LF + 150W HF) |
| 3 (three) | Speaker stands  | Weight (kg) : 4.35Colour : blackTop section : round 35mmMin. height (cm) : 123Max. height (cm) : 205 |
| 1(one)  | Insulation and Acoustics materials  |   |

1. **Professional Lighting System**

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| 6 (six)  | LED Theatre Spot | Power input AC 100 - 240V, 50/60HzPower consumption W 250Colour blackFixation optional standard clampIP rating indoorStandalone fixedLamp LEDMin. colour temperature (K) 3200Max. colour temperature(K) 3200 Colours : Warm whiteFunctions : Motorized zoomMin. beam angle (°) : 10Max. beam angle (°) : 50Min. refresh rate : (kHz) 3.6Max. refresh rate : (kHz) 3.6Input : 3 pin XLR, 5 pin XLR, power onOutput : 3 pin XLR, 5 pin XLR, power on |
| 35 (thirty five)  |  SAFETY CABLE | Weight (kg): 0.15Colour: AluminiumMax. load (kg): 75Tube Ø : 51 mm |
| 4 (four) | Moving Led Robot | Power input AC : 100 - 240V, 50/60HzPower consumption : W 80Colour : BlackDisplay : LCDFixation included omega bracketIP rating : IndoorMaximum DMX channels : 14Lux 5200 lux @ 5mLumen : 490Lamp : LEDMin. colour temperature (K) -Max. colour temperature (K) -Zoom : ManualPrism ( # facets + rotatingy/n ) -Frost filterMin. beam angle (°) 4Max. beam angle (°) 45Input 3 pin XLR, 5 pin XLR, power on,rdmOutput 3 pin XLR, 5 pin XLR, power on |
| 4 (four) | Booster for DMX signal | Power input : AC 230V, 50Hz Colour : BlackDisplay : LEDFixation : 19" rack mountableInput : 3-Pin XLR, 5-Pin XLROutput : 3-Pin XLR, 5-Pin XLR XLR 3 pinXLR 5 pin  |
| 4 Four)  | Powerful indoor LED projector RGB | Power input AC 100 - 240V, 50/60HzPower consumption W 240Colour : blackDisplay : LCD Fixation optional standard clamp IP rating indoorStandalone automatic, soundMaximum DMX channels 16Lamp COBMin. colour temperature (K) 3200Max. colour temperature (K) 5600Colours Red, Green, Blue, otherMix coloursMin. beam angle (°) 60Max. beam angle (°) 60Min. refresh rate (kHz) 1.2Max. refresh rate (kHz) 1.2Input 3 pin XLR, 5 pin XLR, power onOutput : 3 pin XLR, 5 pin XLR, power on |
| 1 (one) | DMX intelligent lighting controller | 24-control slides present board with memory2x12-control slides fader banks or 1x24 control slides fader bankFlash on every control slideUp to 4600 steps, 48 programmable setsFade outLive or offline building and scene modificationsAdjustable sequences speed and rise timeEvery step is saved in the built-in memoryMix several sets Music detection via the built-in microphone or an external sourceManually launch sets via the Tap Sync keyMIDI scenes and sets launchingDMX 512 output via 3-pin XLR3 cableExternal power supply (9 V - 12 V, 500 mA, DC)Supplied with an amovible black protective casingSupplied with 1 external power supply |
| 2 (two) | Professional Projector MIN 4000 lumens | Laser Projector with at least 4000 lumens, Resolution 1920 x 1200.Aspect Ratio 4:3,16:9,16:10. Inputs:2x HDMI, 1x VGA, 1x DVI-D,1xHDTBaseT. Outputs: 1 x VGA. Comply with protocol RS232 |
| 1 | Projector screen  | Projector screen at least 5.00m x 3.00m  |
| 2 | Approximate other accessories, DMX cables, powerconn,connector |   |

**LOT 2**

1. **Theatre Chairs and Scene**

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| 210 (two hundred ten)  | Conference/Theatre Chairs | Chairs to be conference / theatre chairs foldable. They should have combination of wood, plastic and quality clothing. Main structure of chair to be metallic.  |
| 15 (Fifteen)  | Chairs Accessories | Metallic / Wooden supporting materials |
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| 1 (one) | Metallic Constructions | Scene structure to be metalic or cement alike and cover all the scene area except the entry corridors. Scene to have e hight of min 30-40 cm from base floor as per architect designing and to have standards for theatres loading.  |
| 1(one) | Wooden Floor | Floor to be wooden natural and to cover all of the scene area and hand painted |
| 1(one) | Electrics Installations  | Automats, electrics cables, power supplies, electric board, rack of European standards |

**LOT 3**

1. **Conditioning**

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| 4 (four)  | Internal unit | internal unit with 60000 Btu/h |
| 2 (two) | Internal unit | wall inverter with 18000 Btu/h, |
| 1 (one) | Internal unit | wall inverter with 24000 Btu/h, |
| 1 (one) | Gas pipes | Tubes (pipes) of conditioning to be of copper minimum 13 mm width |
| 2 (Two) | Gas pipes, exhausting | Exhausting must be in pipes of PP32 |
| 1(one)  | Air unit for internal installations | Air channels to be P3 and anti-corrosion from internal installations |