

APPENDIX 2A – TECHNICAL SPECIFICATIONS – LOT 1

Note: In all Lot specifications below any reference to “Professional” denotes equipment that is designed for sustained operational use in commercial, educational, industrial, studio, broadcast, or specialist environments, offering a high level of performance, reliability, durability, interoperability, and compliance with recognised industry standards.

Industry standard means equipment, technologies, interfaces, formats, or operating practices that are widely recognised, commonly adopted, and generally accepted within the relevant professional, educational, commercial, or technical sector, ensuring compatibility, interoperability, reliability, and long-term support.

Lot 1 - Music Production Equipment and Software

1A – Supply of Equipment and Software for a Digital Enabled Recording Studio (Control Room & Mix Room) in Tramore Road Campus.

Lot ID Code	Item Description	Quantity
	Software	
Lot1A-1	<u>Professional Audio Recording, Editing & Mixing Software</u> - Industry-standard professional-grade audio recording, editing, mixing, and production software with a perpetual licence, designed for use in recording studio, post-production, broadcast, and music production environments. • Perpetual software licence with no mandatory ongoing subscription requirement. • Supports multitrack audio recording and playback with high track-count capability. • Advanced audio editing tools including non-destructive editing, comping, time alignment, and clip-based processing. • Comprehensive mixing environment with automation, routing, bussing, plug-in hosting, and surround sound mixing capabilities. • Integrated MIDI sequencing and virtual instrument support for music composition and production. • Supports stereo, multichannel, and surround audio workflows. • Compatible with industry-standard audio interfaces, control surfaces, and plug-in formats. • Includes session management, project collaboration, import/export, and file interchange capabilities compatible with professional studio workflows. • Suitable for recording, editing, mixing, mastering, audio post-production, and educational studio environments	2
Lot1A-2	<u>macOS Music Production DAW</u> - Comprehensive digital audio workstation (DAW) software for macOS, designed for music composition, recording, editing, mixing, mastering, and audio production in professional and educational studio environments. • Native macOS-compatible perpetual software licence. • Advanced MIDI sequencing and music composition tools. • Extensive library of virtual instruments, synthesizers, samplers, and production sounds. • Multitrack audio recording and playback with high track-count capability. • Integrated audio editing, arrangement, and project management tools. • Professional-grade mixing environment with automation, bussing, signal routing, and effects processing. • Mastering tools supporting final audio preparation, metering, and export.	2

	• Support for software instruments, plug-ins, and external hardware integration. • Compatible with professional-grade audio interfaces, MIDI controllers, and studio control surfaces. • Suitable for music production, songwriting, audio recording, post-production, and educational studio applications.	
Lot1A-3	Music Production & Performance Software Suite – Professional-grade music production, composition, and performance software suite designed for modern music creation workflows, combining studio recording, MIDI sequencing, virtual instruments, sampling, sound design, arrangement, and live performance functionality within a single integrated platform. • Perpetual software licence suitable for professional and educational use. • Session-based and arrangement-based workflows supporting both music production and live performance applications. • Advanced MIDI sequencing, clip launching, and real-time composition tools. • Comprehensive collection of virtual instruments, synthesizers, drum machines, samplers, and sound libraries. • Multitrack audio recording, editing, warping, and time-stretching capabilities. • Integrated sampling and loop-based production tools with real-time manipulation and triggering functions. • Professional-grade mixing environment with automation, routing, effects processing, and mastering tools. • Support for live performance control, scene launching, external hardware integration, and synchronisation with MIDI-enabled devices. • Compatible with industry-standard plug-ins, audio interfaces, control surfaces, and MIDI controllers. • Suitable for electronic music production, recording, composition, sound design, performance, content creation, and educational studio environments.	2
Lot1A-4	Audio Processing Plug-in Collection - Comprehensive collection of professional-grade audio processing plug-ins designed for recording, mixing, mastering, broadcast, post-production, and music production applications. • Perpetual software licence suitable for professional and educational use. • Comprehensive range of equalisation, compression, limiting, filtering, saturation, and dynamics processing tools. • Professional-grade mastering processors supporting loudness control, tonal shaping, and final mix enhancement. • Precision audio metering tools including peak, RMS, loudness, phase, and frequency analysis. • Advanced signal processing capabilities for corrective, creative, and mastering applications. • Support for stereo and multichannel audio workflows. • Compatible with industry-standard DAW platforms and plug-in formats. • High-quality digital signal processing with low-latency operation. • Suitable for recording, editing, mixing, mastering, broadcast production, content creation, and educational studio environments.	2
Hardware		
Lot1A-5	USB-C Main Audio Interface – Professional-grade USB-C audio interface designed for recording, monitoring, and audio production applications, incorporating multiple high-quality microphone preamplifiers, comprehensive analogue connectivity, low-latency performance, and high-resolution audio conversion suitable for professional and educational recording studio environments. • USB-C audio interface supporting professional multitrack recording and playback workflows.	1

	• Minimum of eight high-performance microphone preamplifiers with low-noise design, wide gain range, and phantom power support. • High-resolution analogue-to-digital and digital-to-analogue conversion suitable for professional recording applications. • Multiple balanced analogue line inputs and outputs for integration with studio equipment and outboard processors. • Independent headphone monitoring outputs with dedicated level controls and separate cue mix capability. • Low-latency monitoring functionality for recording, overdubbing, and live tracking sessions. • Integrated microphone, line-level, and instrument input connectivity. • Expandable via digital audio connections to support additional input and output channels. • Suitable for use with professional-grade microphones, studio monitors, control surfaces, headphone distribution systems, and external hardware processors. • Compatible with industry-standard Digital Audio Workstations (DAWs), recording software, and major operating systems. • Suitable for music production, multitrack recording, podcasting, broadcast production, content creation, and educational studio environments.	
Lot1A-6	<u>8-Channel Microphone Preamplifier & Converter</u> – Professional-grade eight-channel microphone preamplifier and audio conversion unit designed to expand the input capacity of recording systems, providing additional high-quality microphone and line-level inputs with digital audio connectivity for integration with professional audio interfaces and studio production environments. • Eight high-performance microphone preamplifier channels with low-noise design, wide gain range, and phantom power support. • High-headroom analogue circuitry suitable for professional recording and studio production applications. • High-resolution analogue-to-digital audio conversion for transparent audio capture. • Digital audio output connectivity for integration with compatible audio interfaces and recording systems. • Dual-function microphone and line-level input capability supporting a wide range of audio sources. • Independent channel controls and visual signal status indication for monitoring input levels. • Supports expansion of existing recording systems without occupying additional computer connectivity ports. • Synchronisation and digital clocking functionality for stable operation within professional studio environments. • Suitable for recording drum kits, live ensembles, vocal sessions, podcasts, broadcast productions, and multitrack music recording. • Compatible with industry-standard Digital Audio Workstations (DAWs), digital audio interfaces, and professional studio workflows. • Suitable for music production, content creation, broadcast, post-production, and educational recording studio environments.	1
Lot1A-7	<u>Desktop USB Audio Interface</u> – Professional-grade desktop USB audio interface designed for recording, monitoring, mixing, and music production applications, incorporating multiple microphone preamplifiers, low-latency performance, and high-resolution audio conversion suitable for professional and educational studio environments. • Compact desktop audio interface suitable for studio, production, and content creation workstations.	1

	• Minimum of four high-quality microphone preamplifiers with adjustable gain control and phantom power support. • High-resolution analogue-to-digital and digital-to-analogue audio conversion for professional recording and playback applications. • Multiple analogue inputs and outputs supporting microphones, line-level sources, instruments, studio monitors, and external equipment. • Low-latency monitoring functionality for recording, overdubbing, and mixing applications. • Independent headphone output with dedicated level control. • Professional-grade microphone, line-level, and instrument input connectivity. • Flexible signal routing and monitoring configuration capabilities. • USB connectivity for integration with desktop and laptop computer systems. • Compatible with industry-standard Digital Audio Workstations (DAWs), recording software, and major operating systems. • Suitable for music production, recording, editing, podcasting, broadcast production, content creation, and educational studio environments.	
Lot1A-8	Active Nearfield Studio Monitor (Right) – Professional-grade active nearfield studio monitor designed for critical listening, mixing, mastering, and audio production applications, incorporating high-performance low- and high-frequency drivers, integrated digital signal processing, and acoustic optimisation features suitable for professional and educational studio environments. • Active nearfield studio monitor with integrated power amplification. • Minimum 8-inch low-frequency driver providing accurate bass reproduction and extended low-frequency performance. • Precision high-frequency transducer delivering detailed and transparent high-frequency response. • Integrated DSP processing for acoustic optimisation and room correction. • Wide frequency response suitable for critical monitoring, mixing, and mastering applications. • Balanced audio input connectivity for integration with professional studio equipment. • Acoustic tuning controls to optimise performance for different room sizes and placement configurations. • Low-distortion design supporting accurate audio reproduction across the frequency spectrum. • Suitable for stereo and multichannel monitoring systems within recording, broadcast, and post-production environments. • <u>Right-channel</u> configuration for use as part of a matched monitoring pair. • Suitable for music production, recording, editing, mixing, mastering, content creation, and educational studio environments.	2
Lot1A-9	Active Nearfield Studio Monitor (Left) – Professional-grade active nearfield studio monitor designed for critical listening, mixing, mastering, and audio production applications, incorporating high-performance low- and high-frequency drivers, integrated digital signal processing, and acoustic optimisation features suitable for professional and educational studio environments. • Active nearfield studio monitor with integrated power amplification. • Minimum 8-inch low-frequency driver providing accurate bass reproduction and extended low-frequency performance. • Precision high-frequency transducer delivering detailed and transparent high-frequency response. • Integrated DSP processing for acoustic optimisation and room correction.	2

	• Wide frequency response suitable for critical monitoring, mixing, and mastering applications. • Balanced audio input connectivity for integration with professional studio equipment. • Acoustic tuning controls to optimise performance for different room sizes and placement configurations. • Low-distortion design supporting accurate audio reproduction across the frequency spectrum. • Suitable for stereo and multichannel monitoring systems within recording, broadcast, and post-production environments. • <u>Left-channel</u> configuration for use as part of a matched monitoring pair. • Suitable for music production, recording, editing, mixing, mastering, content creation, and educational studio environments.	
Lot1A-10	49-Key MIDI Keyboard Controller – Professional-grade MIDI keyboard controller designed for music production, composition, recording, sequencing, and performance applications, combining expressive keyboard control, integrated performance tools, and deep integration with modern Digital Audio Workstation (DAW) software and virtual instrument environments. • 49-note velocity-sensitive keyboard providing responsive performance and expressive musical input. • Integrated performance pads supporting drum programming, sample triggering, clip launching, and workflow control. • Multiple assignable rotary encoders for real-time adjustment of instruments, effects, mixing parameters, and automation functions. • Dedicated transport controls providing direct access to playback, recording, navigation, looping, and project control functions. • Advanced DAW integration supporting common music production, composition, arrangement, and performance workflows. • Scale, chord, and creative performance modes designed to assist composition, arrangement, and live music creation. • Integrated control of virtual instruments, samplers, synthesizers, and software-based music production tools. • Pitch bend and modulation controls for expressive instrument performance. • USB connectivity for MIDI communication and system integration. • User-configurable control mappings supporting customised production and performance workflows. • Compatible with major Digital Audio Workstation (DAW) platforms and professional music production software. • Suitable for music production, songwriting, recording, sound design, electronic music creation, content production, live performance, and educational studio environments	2
Lot1A-11	Headphone Monitoring Amplifier – Professional-grade multi-channel headphone monitoring amplifier designed to distribute high-quality audio to multiple performers, presenters, and production personnel, providing independent monitoring control during recording, broadcast, production, and studio sessions. • Multi-channel headphone distribution amplifier suitable for professional studio and production environments. • Multiple independently controlled headphone outputs with dedicated volume adjustment. • High-output, low-noise headphone amplification designed for accurate monitoring performance. • Support for simultaneous monitoring by multiple users from a common audio source. • Professional audio input connectivity for integration with audio interfaces, mixing consoles, and monitoring systems.	1

	• Independent channel control allowing users to adjust listening levels without affecting other outputs. • Wide frequency response and low-distortion audio performance suitable for critical monitoring applications. • Rackmount or desktop installation suitable for studio, recording, and broadcast environments. • Designed to support recording sessions, overdubbing, podcast production, broadcast operations, and educational audio facilities. • Compatible with a wide range of professional and consumer headphones. • Suitable for music production, recording, mixing, broadcast production, content creation, and educational studio environments.	
Lot1A-12	USB-C Audio/Data Cables - Professional-grade USB-C connectivity cables designed for reliable transmission of audio, MIDI, and data signals between computer workstations, audio interfaces, MIDI controllers, and other studio equipment within professional and educational recording environments. • USB-C connectivity cables suitable for professional audio, MIDI, and data communication applications. • Supports high-speed data transfer for audio recording, playback, device control, and peripheral connectivity. • Compatible with professional audio interfaces, MIDI controllers, control surfaces, and computer workstations. • Designed to support low-latency audio production and recording workflows. • Durable construction suitable for frequent installation, studio use, and equipment integration. • Shielded cable design to minimise electromagnetic interference and maintain signal integrity. • Secure, reliable connector design for dependable operation in professional environments. • Compatible with modern USB-C equipped computers, audio devices, and production equipment. • Available in lengths suitable for desktop, studio rack, and workstation installations. • Suitable for music production, recording, editing, content creation, broadcast production, and educational studio environments.	8
Lot1A-13	Optical Digital Audio Cables - Professional-grade optical digital audio cables designed for the transmission of high-quality digital audio signals between compatible studio, broadcast, recording, and audio production equipment. • Optical digital audio cables suitable for professional recording, monitoring, and production environments. • Supports transmission of multi-channel digital audio signals between compatible audio devices. • Compatible with audio interfaces, microphone preamplifier expansion units, digital converters, mixers, and recording systems. • Provides reliable digital signal transmission without introducing analogue noise or interference. • Supports high-resolution digital audio workflows in professional studio applications. • Optical fibre construction designed to maintain signal integrity over supported distances. • Secure connector design suitable for permanent installation and day-to-day studio operation. • Available in lengths suitable for desktop, equipment rack, and studio infrastructure installations.	2

	• Suitable for interconnection of recording systems, digital audio expansion devices, monitoring systems, and production equipment. • Compatible with industry-standard optical digital audio formats and workflows. • Suitable for music production, recording, broadcast production, post-production, content creation, and educational studio environments.	
Lot1A-14	<u>TRS to XLR Monitor Cables</u> - Professional-grade balanced audio cables designed for the reliable transmission of analogue audio signals between audio interfaces, monitor controllers, mixing equipment, and professional studio monitor loudspeakers within recording, broadcast, and production environments. • Balanced audio interconnect cables featuring TRS to XLR connectivity. • Suitable for connecting audio interfaces, monitor controllers, mixers, and other professional audio equipment to active studio monitor speakers. • Balanced signal transmission designed to minimise noise, hum, and electromagnetic interference. • Professional-quality connectors ensuring secure and reliable connection. • High-quality cable construction supporting accurate audio signal transfer and long-term durability. • Low-noise design suitable for critical monitoring, mixing, mastering, and audio production applications. • Compatible with industry-standard balanced line-level audio equipment. • Available in lengths suitable for desktop workstations, studio racks, and control room installations. • Durable outer jacket and strain-relief construction suitable for professional studio environments. • Suitable for music production, recording, broadcast production, post-production, content creation, and educational studio environments.	4
Lot1A-15	<u>Balanced TRS Audio Cables</u> - Professional-grade balanced TRS audio cables designed for reliable analogue audio signal transmission within recording, monitoring, broadcast, and production environments, supporting headphone distribution, monitoring systems, and professional audio equipment interconnection. • Balanced TRS audio cables suitable for professional studio monitoring and headphone distribution applications. • Supports transmission of balanced line-level audio signals with low noise and high signal integrity. • Suitable for connecting headphone amplifiers, monitor controllers, audio interfaces, mixing consoles, and other studio equipment. • Balanced cable design minimising hum, ground noise, and electromagnetic interference. • Professional-quality connectors providing secure and reliable connectivity. • Durable cable construction suitable for permanent installation and day-to-day studio operation. • Low-capacitance design supporting accurate audio reproduction across the full audible frequency range. • Compatible with industry-standard balanced TRS audio connections. • Available in lengths suitable for workstation, equipment rack, control room, and studio installations. • Suitable for music production, recording, mixing, mastering, broadcast production, content creation, and educational studio environments.	8
Lot1A-16	<u>Headphone Extension Cables</u> - Professional-grade headphone extension cables designed to extend audio monitoring connections between headphones, headphone amplifiers, audio	6

	interfaces, and monitoring equipment within recording, broadcast, and production environments. • 6.35 mm (¼-inch) male-to-female headphone extension cables. • Suitable for studio monitoring, recording, overdubbing, broadcast, and production applications. • Compatible with professional headphones, headphone amplifiers, audio interfaces, monitor controllers, and mixing consoles. • High-quality cable construction designed to maintain audio signal integrity across extended cable lengths. • Low-noise design suitable for critical listening and monitoring applications. • Durable connectors providing secure and reliable connection during studio use. • Flexible cable construction suitable for control rooms, recording spaces, isolation booths, and workstation environments. • Robust strain-relief and outer jacket construction designed for long-term professional use. • Available in lengths suitable for professional studio installation and operational requirements. • Suitable for music production, recording, mixing, podcasting, broadcast production, content creation, and educational studio environments.	
Lot1A-17	Balanced XLR Microphone Cables - Professional-grade balanced microphone cables designed for reliable transmission of microphone-level audio signals within recording, broadcast, production, and live sound environments. • Balanced XLR microphone cables with professional-grade male-to-female XLR connectivity. • Nominal cable length of 5 metres suitable for studio, stage, and production applications. • Suitable for connecting microphones to audio interfaces, microphone preamplifiers, mixing consoles, stage boxes, and audio processing equipment. • Balanced cable design minimising noise, hum, and electromagnetic interference. • High-quality conductors supporting accurate and transparent audio signal transmission. • Durable cable construction designed for frequent handling, deployment, and long-term professional use. • Robust XLR connectors providing secure and reliable connectivity. • Flexible outer jacket suitable for routing in studio, control room, live performance, and educational environments. • Strain-relief protection incorporated to enhance durability and operational reliability. • Compatible with dynamic, condenser, and broadcast microphones requiring standard XLR connectivity. • Suitable for music production, recording, podcasting, broadcast production, live sound reinforcement, content creation, and educational studio environments.	10
Lot1A-18	Closed-Back Monitoring Headphones – Professional-grade closed-back monitoring headphones designed for recording, tracking, editing, mixing, and critical listening applications, providing accurate audio reproduction, extended frequency response, and high levels of acoustic isolation suitable for professional and educational studio environments. • Closed-back, circumaural headphone design providing effective acoustic isolation and reduced audio leakage. • Wide frequency response suitable for critical monitoring, recording, mixing, and audio production applications. • High-resolution audio reproduction with accurate and detailed sound performance across the audible frequency spectrum.	3

	• High sound pressure level capability suitable for professional monitoring environments. • Comfortable over-ear design suitable for extended studio sessions and prolonged use. • Low-distortion driver design supporting precise monitoring and critical listening tasks. • Durable construction suitable for daily use in professional recording, broadcast, and educational facilities. • Replaceable ear cushions and serviceable components to support long-term operational use. • Compatible with professional audio interfaces, headphone amplifiers, mixing consoles, and monitoring systems. • Supplied with suitable connection accessories for integration with professional studio equipment. • Suitable for music production, recording, podcasting, broadcast production, post-production, content creation, and educational studio environments.	
Lot1A-19	Large-Diaphragm Condenser Microphone – Professional-grade large-diaphragm condenser microphone package designed for studio recording of vocals, speech, voiceover, podcasts, and acoustic instruments, providing high-quality audio capture, low self-noise, and detailed frequency reproduction suitable for professional and educational studio environments. • Large-diaphragm condenser microphone suitable for studio recording and broadcast applications. • Wide frequency response and high sensitivity for accurate capture of vocals, speech, and acoustic instruments. • Low self-noise design supporting professional recording and critical audio production requirements. • Cardioid or selectable directional polar pattern(s) for controlled sound capture and reduced ambient noise. • High maximum sound pressure level capability suitable for a wide range of recording sources. • Robust metal construction designed for professional studio use and long-term reliability. • Supplied with compatible shock mount to minimise mechanical vibration and handling noise. • Includes microphone mounting hardware and associated accessories required for operation. • Phantom power compatible for use with professional audio interfaces, microphone preamplifiers, and mixing consoles. • Compatible with studio microphone stands, broadcast mounting systems, and professional recording equipment. • Suitable for vocal recording, podcast production, voiceover work, spoken-word applications, acoustic instrument recording, content creation, broadcast production, and educational studio environments.	1
Lot1A-20	Boundary Kick Drum Microphone – Professional-grade boundary condenser microphone designed for close-position recording of bass drums, low-frequency percussion instruments, and high sound pressure level sources, providing accurate transient response and extended low-frequency capture suitable for professional and educational recording studio environments. • Boundary condenser microphone optimised for bass drum and low-frequency percussion recording applications. • Low-profile design suitable for placement within kick drum enclosures and confined recording positions.	1

	- Extended low-frequency response for accurate reproduction of bass drums and other percussive sound sources. - High maximum sound pressure level capability suitable for close-microphone placement on loud instruments. - Fast transient response supporting detailed capture of percussive attacks and dynamic performances. - Directional pickup characteristics designed to focus on the intended sound source while reducing unwanted ambient noise. - Rugged construction suitable for professional studio, live sound, and educational environments. - Phantom power compatible for use with professional audio interfaces, microphone preamplifiers, and mixing consoles. - Integrated mounting arrangement suitable for floor, stage, and instrument placement applications. - Compatible with professional recording, broadcast, and live sound production workflows. - Suitable for recording bass drums, percussion instruments, low-frequency sound sources, live performances, broadcast production, content creation, and educational studio environments.	
Lot1A-21	<u>Dynamic Bass Drum Microphone</u> – Professional-grade dynamic microphone designed for recording and reinforcement of bass drums, bass guitar amplifiers, low-frequency percussion instruments, and other high sound pressure level sources, providing extended low-frequency response, high output capability, and durable construction suitable for professional and educational studio environments. - Dynamic microphone optimised for bass drum, bass guitar amplifier, and low-frequency instrument applications. - Tailored frequency response supporting accurate reproduction of low-frequency content and percussive transients. - High maximum sound pressure level handling capability suitable for close-microphone placement on loud sound sources. - Directional pickup pattern designed to focus on the intended source while reducing unwanted ambient sound and stage bleed. - Robust construction suitable for professional recording, broadcast, live sound, and educational environments. - Internal shock protection designed to minimise handling noise and mechanical vibration. - Standard XLR connectivity for integration with professional audio interfaces, microphone preamplifiers, mixing consoles, and stage systems. - Durable metal housing designed for long-term operational reliability. - Suitable for studio recording, live sound reinforcement, broadcast production, and content creation applications. - Compatible with standard microphone stands, mounting systems, and professional audio workflows. - Suitable for bass drums, bass guitar cabinets, floor toms, percussion instruments, low-frequency sound sources, and general instrument recording applications.	1
Lot1A-22	<u>Acoustic Treatment System</u> - Comprehensive acoustic treatment system designed to optimise recording, mixing, monitoring, and critical listening environments through the control of reflections, reverberation, standing waves, and low-frequency build-up within professional and educational studio facilities. Acoustic treatment package comprising broadband absorbers, diffusion panels, and low-frequency bass management components.	1

	• Broadband absorption panels designed to reduce unwanted reflections and improve speech and audio clarity. • Diffusion panels providing controlled sound dispersion to maintain natural room acoustics and minimise acoustic anomalies. • Corner bass traps designed to reduce low-frequency resonances, standing waves, and modal build-up. • Suitable for control rooms, recording rooms, vocal booths, podcast studios, broadcast facilities, and educational audio environments. • Acoustic treatment materials designed to improve monitoring accuracy, stereo imaging, and frequency response consistency. • Modular installation system supporting a range of room sizes and studio configurations. • Durable construction with finishes suitable for professional studio environments. • Designed to support critical listening, mixing, mastering, recording, post-production, and broadcast workflows. • Suitable for integration within new studio installations or acoustic refurbishment projects. • Provides balanced acoustic performance across low-, mid-, and high-frequency ranges to enhance recording and monitoring quality.	
Lot1A-23	Studio Workstation Desk – Professional-grade studio workstation desk designed for audio production, recording, mixing, editing, and content creation environments, providing an ergonomic working surface with integrated equipment accommodation, monitor positioning, and cable management suitable for professional and educational studio facilities. • Purpose-designed workstation desk suitable for recording studios, control rooms, mix rooms, podcast studios, and media production environments. • Integrated equipment rack space for housing audio interfaces, preamplifiers, processors, controllers, and other rack-mounted studio equipment. • Suitable desktop surface area for computer workstations, MIDI controllers, control surfaces, keyboards, and production accessories. • Dedicated monitor positioning area suitable for studio display screens and/or nearfield monitor placement. • Ergonomic layout designed to support comfortable operation during extended recording, editing, mixing, and production sessions. • Integrated cable management facilities to support tidy, safe, and reliable routing of audio, power, USB, network, and data cables. • Robust construction suitable for professional studio use and long-term durability. • Designed to support efficient equipment access, workflow organisation, and control room layout. • Suitable for integration with professional audio interfaces, studio monitors, MIDI controllers, rack equipment, and computer-based Digital Audio Workstation systems. • Finish and construction suitable for use in educational, commercial, and professional studio environments. • Suitable for music production, recording, podcasting, broadcast production, post-production, content creation, and educational studio applications.	1
Lot1A-24	Sliding Keyboard & Mouse Tray - Dedicated sliding keyboard and mouse tray designed for integration with a professional-grade studio workstation desk, providing ergonomic positioning and efficient workspace management for computer-based audio production, recording, editing, and content creation environments. • Designed to accommodate a full-size computer keyboard, mouse, and related input devices.	1

	• Ergonomic positioning to support comfortable operation during extended production, recording, editing, and mixing sessions. • Robust construction suitable for professional studio and educational environments. • Integrated mounting system compatible with studio workstation furniture.	
Lot1A-25	Audio Production Workstation Desk – Professional-grade audio production workstation desk designed for recording, editing, mixing, mastering, and content creation applications, providing an ergonomic and efficient workspace for computer-based audio production systems and associated studio equipment. • Purpose-designed workstation desk suitable for recording studios, control rooms, mix rooms, broadcast facilities, and educational media production environments. • Spacious work surface accommodating computer displays, audio interfaces, control surfaces, MIDI controllers, keyboards, and production accessories. • Ergonomic design supporting comfortable operation during extended recording, editing, mixing, and production sessions. • Suitable for integration with Digital Audio Workstations (DAWs), audio production software, and professional studio equipment. • Dedicated areas for equipment placement, workflow organisation, and efficient access to production tools. • Robust construction designed for professional use and long-term durability. • Cable management facilities supporting safe, organised routing of audio, data, and power cabling. • Suitable for use with studio monitors, audio interfaces, monitor controllers, and other production hardware. • Designed to support accurate monitoring and efficient studio workflow within professional production environments. • Finish and construction suitable for educational, commercial, and professional studio installations. • Suitable for music production, recording, editing, mixing, mastering, podcasting, broadcast production, post-production, content creation, and educational studio environments.	1
Lot1A-26	Portable Vocal Recording Enclosure - Portable vocal recording enclosure designed to provide a controlled acoustic environment for speech, vocal, podcast, voiceover, and content creation applications, reducing room reflections and external noise while maintaining user comfort through integrated ventilation and airflow management. • Portable acoustic recording enclosure suitable for studio, educational, broadcast, and content creation environments. • Designed to minimise room reflections, reverberation, and unwanted ambient noise during recording sessions. • Provides a controlled acoustic space for vocal recording, voiceover production, podcasting, narration, and spoken-word applications. • Integrated ventilation and airflow system to support user comfort during extended recording sessions. • Acoustic treatment materials incorporated to improve recording clarity and consistency. • Compact self-contained structure suitable for installation within existing rooms and studio environments. • Suitable for use with condenser microphones, dynamic microphones, broadcast microphones, and associated recording equipment. • Provides improved speech intelligibility and vocal recording quality in acoustically challenging environments. • Robust construction suitable for frequent professional and educational use.	1

	• Access points for microphone, headphone, power, and data cabling. • Suitable for voiceover production, podcast recording, vocal tracking, narration, broadcast applications, content creation, remote production, and educational studio environments.	
Lot1A-27	<u>Freestanding Acoustic Panels</u> - Freestanding portable acoustic absorption panels designed to improve acoustic performance within recording, teaching, rehearsal, broadcast, and media production environments by reducing unwanted reflections, reverberation, and background noise while providing flexible room configuration options. • Freestanding acoustic absorption panels suitable for recording studios, classrooms, rehearsal spaces, broadcast facilities, and teaching environments. • Designed to reduce unwanted sound reflections and improve overall acoustic clarity within occupied spaces. • Portable, self-supporting construction allowing rapid deployment, repositioning, and storage as operational requirements change. • Suitable for creating temporary acoustic treatment zones, recording areas, teaching spaces, and rehearsal environments. • Modular design enabling multiple panels to be combined for enhanced acoustic control and space division. • Suitable for reducing reverberation, flutter echo, and acoustic distractions within multi-purpose environments. • Provides improved speech intelligibility and recording quality for teaching, training, podcasting, broadcasting, and content creation activities. • Suitable for music production, audio recording, podcasting, broadcasting, voiceover work, classroom teaching, training activities, content creation, and educational studio environments.	1

**1B - Supply of Equipment for a Digital ICT enabled Production Equipment Room in
Tramore Road Campus.**

Lot ID Code	Item Description	Quantity
	Hardware	
Lot1B-1	Digital Live Sound Mixing System – Professional-grade digital live sound mixing system designed for live sound reinforcement, performance venues, recording, broadcast, and educational environments, comprising a digital mixing console, remote audio stage interface, digital audio networking connectivity, and protective transport solutions. The system shall support efficient front-of-house and monitor mixing workflows while providing flexible expansion, remote operation, and high-performance audio processing capabilities. • Integrated digital mixing system comprising a professional digital mixing console, remote stage interface, digital connection infrastructure, and protective transport case. • Digital mixing console providing a minimum of 48 input processing channels with extensive routing, mixing, and signal management capabilities. • High-resolution audio processing with low-latency performance suitable for professional live sound and recording applications. • Integrated touchscreen and dedicated physical controls supporting rapid access to mixing, processing, routing, and operational functions. • Comprehensive channel processing including equalisation, compression, gating, filtering, delay, and dynamics control on input and output channels. • Multiple configurable mix buses suitable for monitor mixes, in-ear monitoring systems, effects sends, matrix outputs, and broadcast feeds. • Remote stage interface providing a minimum of 16 microphone preamplifier inputs and multiple analogue outputs for stage connectivity. • High-quality remote microphone preamplifiers supporting phantom power and professional live sound applications. • Single-cable digital audio connectivity between mixing console and stage interface for simplified deployment and reduced cabling requirements. • Expandable system architecture allowing integration of additional remote audio interfaces and digital stage infrastructure. • Network connectivity supporting remote control, offline configuration, system monitoring, and integration with compatible hardware and software platforms. • Scene, library, and show management functionality enabling rapid recall of event and performance configurations. • Integrated multitrack recording and audio interface capabilities suitable for live recording, virtual soundcheck, and production workflows. • Supplied with a heavy-duty protective transport case designed for secure transportation, storage, and operational protection. • Suitable for theatres, auditoriums, performance venues, recording facilities, houses of worship, conference facilities, and educational institutions. • Suitable for live music performance, spoken-word events, theatrical productions, broadcast applications, streaming, recording, and audio education environments.	1
Lot1B-2	Medium Room Acoustic Treatment System - Comprehensive acoustic treatment system designed to optimise the acoustic performance of <u>medium-sized</u> recording, mixing, teaching, rehearsal, broadcast, and media production environments through the control of reflections, reverberation, standing waves, and low-frequency build-up. • Integrated acoustic treatment system comprising broadband absorbers, diffusion panels, and low-frequency bass control elements.	1

	- Designed to improve room acoustic performance, speech intelligibility, and monitoring accuracy. - Broadband absorption panels providing effective control of early reflections and reverberation across a wide frequency range. - Diffusion elements designed to disperse reflected sound energy and maintain a natural acoustic environment. - Bass control components engineered to reduce low-frequency resonances, standing waves, and room mode build-up. - Suitable for <u>medium-sized</u> control rooms, recording studios, teaching spaces, rehearsal rooms, podcast facilities, and multimedia production environments. - Modular system design allowing treatment configurations to be tailored to room dimensions and acoustic requirements. - Acoustic materials and finishes suitable for professional, educational, and commercial installations. - Designed to enhance stereo imaging, frequency balance, critical listening accuracy, and overall sound quality. - Suitable for recording, mixing, mastering, broadcast production, content creation, music education, and audiovisual training applications. - Supports the creation of acoustically balanced environments for both music production and spoken-word applications.	
Lot1B-3	Small Room Acoustic Treatment System - Comprehensive acoustic treatment system designed to optimise the acoustic performance of <u>small</u> recording, mixing, podcasting, teaching, broadcast, and media production environments through the reduction of reflections, reverberation, standing waves, and low-frequency build-up. - Integrated acoustic treatment system comprising broadband absorbers, diffusion panels, and low-frequency bass control elements. - Designed specifically for small rooms where acoustic challenges such as reflections, flutter echo, and bass build-up can negatively impact recording and monitoring accuracy. - Broadband absorption panels providing control of early reflections and reverberation across a wide frequency spectrum. - Diffusion elements designed to scatter reflected sound energy, improving acoustic balance while maintaining a natural listening environment. - Bass control components engineered to reduce low-frequency resonances, standing waves, and room mode issues commonly encountered in smaller spaces. - Suitable for <u>small</u> control rooms, project studios, podcast suites, vocal recording rooms, teaching spaces, media labs, and content creation environments. - Modular design allowing treatment layouts to be tailored to room size, shape, and operational requirements. - Professional acoustic materials and finishes suitable for educational, commercial, and studio installations. - Designed to improve speech intelligibility, recording quality, stereo imaging, monitoring accuracy, and overall room acoustics. - Supports critical listening, recording, editing, mixing, podcast production, voiceover work, broadcast production, and multimedia content creation. - Suitable for integration into new studio developments, refurbishment projects, and acoustic enhancement programmes.	1
Lot1B-4	Standalone Music Production Device - Standalone portable music production device designed for music composition, sequencing, sampling, sound design, and live performance applications, enabling users to create, edit, arrange, and perform music without requiring a computer-based production system.	1

	• Portable standalone music production device suitable for studio, educational, rehearsal, and live performance environments. • Integrated sequencing functionality supporting pattern creation, arrangement, and real-time music composition workflows. • Built-in sound generation capabilities including synthesised, sampled, and electronically created sounds. • Sampling functionality supporting audio capture, editing, manipulation, and playback. • Performance-oriented workflow supporting real-time triggering, arrangement, and creative music production techniques. • Integrated performance controls including pads, buttons, encoders, touch-sensitive controls, or equivalent interfaces for expressive operation. • Capable of standalone operation without requiring continuous connection to a computer or external host device. • Internal project storage and media management capabilities supporting music creation and production workflows. • Audio and MIDI connectivity for integration with external instruments, controllers, audio equipment, and production systems. • Synchronisation capabilities for operation with external hardware and software music production environments. • Battery-powered and/or portable operation suitable for mobile music creation and performance applications. • Compact form factor suitable for transport, classroom use, collaborative production sessions, and live performance. • Suitable for electronic music production, beat creation, composition, sound design, performance, content creation, and educational music technology environments. • Compatible with industry-standard music production workflows and file exchange formats.	
Lot1B-5	<u>Music Production Controller</u> - Integrated music production controller designed for music composition, sequencing, sampling, performance, and studio production applications, combining tactile hardware control with deep software integration to support modern music creation workflows in professional and educational environments. • Integrated music production controller suitable for recording, composition, beat production, sound design, and live performance applications. • Performance-oriented pad interface supporting sample triggering, finger drumming, clip launching, and creative music production workflows. • Built-in sequencing functionality enabling pattern creation, arrangement, and real-time composition. • Sampling capabilities supporting audio capture, editing, manipulation, and playback. • Integrated control of software instruments, virtual instruments, effects, mixing functions, and production workflows. • Multiple assignable controls including pads, encoders, buttons, touch-sensitive controls, or equivalent performance interfaces. • Advanced integration with Digital Audio Workstation (DAW) platforms and music production software. • Real-time control of transport, recording, playback, automation, and project navigation functions. • Audio and MIDI connectivity supporting integration with external instruments, controllers, audio interfaces, and studio equipment. • User-configurable workflow controls supporting customised production and performance requirements.	1

	• Compact desktop format suitable for studio, classroom, rehearsal, and mobile production environments. • High-quality construction designed for regular professional, educational, and performance use. • Suitable for music production, beat creation, composition, recording, sampling, electronic music performance, content creation, and music technology education. • Compatible with industry-standard music production environments and software platforms.	
Lot1B-6	<u>Low-Profile Microphone Stand</u> – Professional-grade compact low-profile microphone stands designed for close-position microphone placement in recording, broadcast, live sound, and educational environments, providing stable support for microphones positioned near instruments, amplifiers, speaker cabinets, percussion instruments, and other low-height sound sources. • Low-profile microphone stands suitable for close-microphone placement applications. • Designed for use with instrument microphones, dynamic microphones, condenser microphones, and specialist recording microphones. • Compact footprint allowing positioning in confined spaces and around musical instruments or studio equipment. • Adjustable boom arm providing precise microphone placement and positioning flexibility. • Height adjustment capability supporting a wide range of recording and reinforcement applications. • Stable weighted base or equivalent support structure designed to minimise movement during use. • Robust metal construction suitable for professional studio, live sound, and educational environments. • Suitable for microphone placement on bass drums, guitar amplifiers, bass amplifiers, percussion instruments, speaker cabinets, and floor-level sound sources. • Compatible with industry-standard microphone clips, shock mounts, and microphone mounting accessories. • Durable finish designed to withstand regular transportation, setup, and operational use. • Suitable for music production, studio recording, broadcast production, podcasting, live sound reinforcement, content creation, and educational audio environments.	4
Lot1B-7	<u>Adjustable Boom Microphone Stand</u> – Professional-grade adjustable-height microphone stands with boom arm designed for vocal, instrument, broadcast, recording, and live sound applications, providing stable support and flexible microphone positioning within professional and educational audio environments. • Adjustable-height microphone stands suitable for studio recording, live sound, broadcast, podcasting, and educational applications. • Integrated boom arm providing flexible microphone positioning and precise placement control. • Suitable for use with dynamic, condenser, ribbon, and broadcast microphones. • Height adjustment mechanism supporting a wide range of performer and recording configurations. • Boom arm adjustment allowing accurate positioning for vocalists, musicians, presenters, and instruments. • Stable weighted base or tripod support system designed to provide secure operation during use.	6

	• Robust metal construction suitable for regular professional and educational deployment. • Compatible with industry-standard microphone clips, shock mounts, and microphone mounting accessories. • Cable management provisions or equivalent design features supporting neat and safe cable routing. • Durable finish designed to withstand frequent setup, adjustment, transportation, and long-term operational use. • Suitable for vocal recording, speech applications, podcasting, voiceover work, instrument recording, broadcast production, live performance, content creation, and educational audio environments. • Suitable for use in recording studios, rehearsal rooms, classrooms, theatres, performance venues, podcast facilities, and multimedia production environments.	
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1C – Supply of Software for a Music Technology IT Lab and Software in Tramore Road Campus.

Lot ID Code	Item Description	Quantity
	Software	
Lot1C-1	<u>Educational Electronic Music Production DAW Licence</u> - Educational software licence for a professional-grade Digital Audio Workstation (DAW) platform designed for electronic music production, composition, recording, sound design, mixing, mastering, and performance applications within further education, training, and music technology environments. • Educational licence suitable for installation and use within teaching, training, and institutional music technology facilities. • Professional Digital Audio Workstation (DAW) software supporting music production, composition, recording, arrangement, mixing, and mastering workflows. • Advanced MIDI sequencing and electronic music production capabilities. • Integrated tools for sampling, loop manipulation, sound design, and audio editing. • Comprehensive collection of virtual instruments, synthesizers, samplers, audio effects, and creative production tools. • Support for both linear arrangement-based workflows and performance-oriented music creation methodologies. • Multitrack audio recording and playback functionality with professional editing capabilities. • Real-time audio processing, automation, routing, and mixing functionality. • Compatibility with industry-standard audio interfaces, MIDI controllers, control surfaces, and production hardware. • Support for third-party plug-ins and virtual instruments using industry-standard formats. • Suitable for classroom instruction, practical assessment, collaborative music production, live performance preparation, and independent project work. • Compatible with current macOS and/or Windows operating systems, as required. • Suitable for electronic music production, sound design, composition, recording, performance, content creation, and music technology education.	14
Lot1C-2	<u>Educational Music Production & Recording DAW Licence</u> - Educational software licence for a professional-grade Digital Audio Workstation (DAW) platform designed for music composition, recording, audio editing, MIDI sequencing, virtual instrument hosting, mixing, and mastering applications within educational, training, and professional music production environments. • Educational licence suitable for use within further education, training, classroom, and studio-based learning environments. • Professional Digital Audio Workstation (DAW) software supporting music composition, recording, arrangement, editing, mixing, and mastering workflows. • Advanced MIDI sequencing capabilities for music creation, programming, orchestration, and electronic music production. • Multitrack audio recording and playback functionality with professional editing and project management tools. • Integrated audio editing features including time-stretching, pitch manipulation, comping, and non-destructive editing. • Support for virtual instruments, software synthesizers, samplers, drum instruments, and sound libraries. • Comprehensive collection of audio effects and signal processing tools including equalisation, compression, dynamics processing, reverb, delay, modulation, and mastering processors.	24

	• Flexible workflow supporting pattern-based composition, playlist arrangement, audio production, and sound design applications. • Compatibility with industry-standard audio interfaces, MIDI controllers, control surfaces, and external hardware devices. • Support for third-party plug-ins and virtual instruments using industry-standard formats. • Audio export, project management, collaboration, and file interchange capabilities suitable for educational and professional workflows. • Compatible with current Windows and/or macOS operating systems, as required. • Suitable for music production, songwriting, beat creation, sound design, recording, podcasting, content creation, multimedia production, and music technology education.	
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1D – Supply of Music Production Equipment based on the Department of Education and Youth Music/Drama Equipment list

Lot ID Code	Item Description	Quantity	DEY Code
Lot1D-1	Hi-fi system, mini/micro or equal with CD player, pre-set tuner (fm/dab)- amplifier, with integrated ipod docking station and usb connection; speakers with min. 30 rms watts per channel (Bluetooth enabled), subwoofer output, 20-200 kHz response. Min. 2 warranty	1	MSD/3
Lot1D-2	MIDI touch-sensitive controller; minimum 4 octaves, with usb and midi input/output, and own power supply. To function in Windows/Mac/Open Source environment, as per school requirements. Must be compatible with and accompanied by a list of compatible music education and creations software, such as ‘Sibelius’, ‘Finale’ or Musescore. Where required by school only. 2 year warranty. Note: Schools to purchase computer hardware and software and any music software with ICT funding	1	MSD/4
Lot1D-3	Visualiser: Min. 13 MP Lens, Up to 4K at 30 fps Video, Built-In Mic, coverage A3 + (533x330mm), USB Interface & Power Connection to a PC. Five year warranty.	1	MSD/15