AN ROINN OIDEACHAIS AGUS SCILEANNA | DEPARTMENT OF EDUCATION AND SKILLS

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Technology – LIST A
Equipment List and Specifications

Standards, Specifications & Conditions

All equipment/machinery/tools shall be durable and safe for school use. Equipment wholly or partly funded from public funds is subject to Inspection by officers from the Department of Education and Skills.

It is essential that tenders for equipment for school use shall:

i) Comply fully with the specifications and be durable and safe for school use.
ii) Comply fully with the standards as detailed and shall comply fully with European (EN) standards, both established and developing.
iii) Comply with European electrical standards and CE marking as appropriate.
iv) Be accompanied by documentation of sufficient detail for full evaluation.
v) Include the completed and signed certificate of compliance.

Award of a contract is conditional on the production of a current tax clearance certificate.

Failure to comply with the above may result in the tender being deemed null and void.

Section 1: General Workshop Equipment/Tools			
Code Quantity	**Descriptions & Specifications:**		**Cost €**
	Craft: Wood		
TECH/A/101 **12**	Bench plane, smooth, 50 mm cutter, adjustable for depth of cut/alignment.		
	Manufacturer:	Catalogue No:	
TECH/A/102 **12**	Carpenters mallet, c.115 mm		
	Manufacturer:	Catalogue No:	
TECH/A/103 **12**	Tenon saw, c.250 mm – 300 mm, stiffening rib.		
	Manufacturer:	Catalogue No:	
TECH/A/104 **12**	Bench hook.		
	Manufacturer:	Catalogue No:	
TECH/A/105 **12**	Warrington hammer, weight: c.340 g.		
	Manufacturer:	Catalogue No:	
TECH/A/106 **12**	Marking gauge – steel pin, thumbscrews		
	Manufacturer:	Catalogue No:	
TECH/A/107 **12**	Woodwork try-square, blade length: 150 mm min.		
	Manufacturer:	Catalogue No:	
TECH/A/108 **8**	Coping saw, complete with pack of blades.		
	Manufacturer:	Catalogue No:	
TECH/A/109 **4**	Sliding bevel (woodwork), wooden handle, hardened steel blade, locking mechanism.		
	Manufacturer:	Catalogue No:	
TECH/A/110 **4**	Measuring tape, c.3 m		
	Manufacturer:	Catalogue No:	
TECH/A/111 **4** **4** **4** **4**	Chisels (bevel edge): 6 mm 10 mm 18 mm 25 mm		
	Manufacturer:	Catalogue No:	
TECH/A/112 **4** **4** **4** **4**	Chisels (mortise): 6 mm 10 mm 18 mm 25 mm		
	Manufacturer:	Catalogue No:	
TECH/A/113 **2**	Bit brace, c.250 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/114 **2**	Set of auger bits, c.6mm – c.25mm to suit TECH/A/112.		
	Manufacturer:	Catalogue No:	
TECH/A/115 **2**	Set of flat bits, c.6mm – c.25mm to suit TECH/A/112.		
	Manufacturer:	Catalogue No:	
TECH/A/116 **2**	Claw hammer, tempered/hardened head, wood/metal handle, 500 g (1 lb).		
	Manufacturer:	Catalogue No:	
TECH/A/117 **2**	Carpenter's pincers, c.180 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/118 **2**	Mallet, tinsmans type, c.45 mm diameter head.		
	Manufacturer:	Catalogue No:	
TECH/A/119 **2**	Mitre/corner clamp.		
	Manufacturer:	Catalogue No:	

TECH/A/120 **1**	Mitre Saw.		
	Manufacturer:	Catalogue No:	
TECH/A/121 **1**	Set of c.5 hole-saws, complete with arbor, sizes from c.20 mm to c.60 mm diameter.		
	Manufacturer:	Catalogue No:	
TECH/A/122 **12** **12** **4** **4** **4**	Files, smooth, 250 mm: Half round Hand Round Square Three square		
	Manufacturer:	Catalogue No:	
TECH/A/123 **12** **12** **4** **4** **4**	Files, bastard, 250 mm: Half round Hand Round Square Three square		
	Manufacturer:	Catalogue No:	
TECH/A/124 **72**	File handle for 250 mm file, plastic **or** wooden.		
	Manufacturer:	Catalogue No:	
TECH/A/125 **4**	Set of c.6 needle files.		
	Manufacturer:	Catalogue No:	
TECH/A/126 **24**	Abra file, 250 mm, medium cut.		
	Manufacturer:	Catalogue No:	
TECH/A/127 **6**	Pair of abra file spring clips		
	Manufacturer:	Catalogue No:	
TECH/A/128 **2**	Engineers inside spring caliper, c.150 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/129 **2**	Engineers outside spring caliper, c.150 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/130 **2**	Precision vernier caliper, capacity c.150 mm, dial reading 0.02 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/131 **2**	Precision vernier caliper, capacity c.150 mm, digital reading.		
	Manufacturer:	Catalogue No:	
TECH/A/132 **12**	Engineer's spring divider, c.150 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/133 **12**	Engineer's centre punch, c.100 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/134 **24**	Engineer's fully integrated scriber, double ended, c.175 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/135 **12**	Engineer's steel square, blade c.120 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/136 **24**	Stainless steel rule, pearl chrome finish, 300 mm long, graduated in mm.		
	Manufacturer:	Catalogue No:	
TECH/A/137 **4**	Universal bevel, (metalwork), c.150 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/138 **2**	Set of stocks (10), dies (10), taps and wrenches, ISO thread form, range from 3 mm to 12 mm. Circular die pattern. Set complete in strong case.		
	Manufacturer:	Catalogue No:	
TECH/A/139 **6**	File card (wooden base type), c.100 mm x c.50 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/140 **1**	Tinmans folding bars, c.250 mm		
	Manufacturer:	Catalogue No:	

Code Quantity	Descriptions & Specifications:		Cost €
TECH/A/141 **2**	Pop riveting kit, complete with pliers and assorted rivets, industrial grade.		
	Manufacturer:	Catalogue No:	
TECH/A/142 **6**	Engineers ball-pein hammer, weight: 500 g (1 lb).		
	Manufacturer:	Catalogue No:	
TECH/A/143 **8**	Tinmans snips, straight, c.200 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/144 **4**	Tinmans snips, curved, c.200 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/145 **12**	Hacksaw frame, 300 mm, adjustable **or** fixed type.		
	Manufacturer:	Catalogue No:	
TECH/A/146 **100**	Hacksaw blade, 300 mm, 24 T.P.I.		
	Manufacturer:	Catalogue No:	
TECH/A/147 **12**	Junior hacksaw frame.		
	Manufacturer:	Catalogue No:	
TECH/A/148 **12**	Junior hacksaw blade pack.		
	Manufacturer:	Catalogue No:	
	Craft: General Tools		
TECH/A/149 **2**	Glass cutter, hand held, single **or** multi-wheel type.		
	Manufacturer:	Catalogue No:	
TECH/A/150 **1**	Hand held engraver, variable speed, 230 V; 50 Hz.		
	Manufacturer:	Catalogue No:	
TECH/A/151 **2**	Set of letter stamps, 5 mm, set of 27, Grade A.		
	Manufacturer:	Catalogue No:	
TECH/A/152 **2**	Set of 12 combination spanners, e.g., 8 mm – 19 mm, chrome finish.		
	Manufacturer:	Catalogue No:	
TECH/A/153 **2**	Set of drills, HSS, parallel shank, c.1.0 to c.13 mm x 0.5 mm. Set in case.		
	Manufacturer:	Catalogue No:	
TECH/A/154 **1**	Set of counter sink drills, HSS, 6 mm, 8 mm and 10 mm. Parallel shank 90°.		
	Manufacturer:	Catalogue No:	
TECH/A/155 **2**	Leather sandbag, c.250 mm diameter.		
	Manufacturer:	Catalogue No:	
TECH/A/156 **2**	Boxwood bossing mallet, c.50 mm diameter head.		
	Manufacturer:	Catalogue No:	
TECH/A/157 **2**	Vice grips, 250 mm, lever release.		
	Manufacturer:	Catalogue No:	
TECH/A/158 **2**	Sheet metal vice grip, 250 mm, lever release.		
	Manufacturer:	Catalogue No:	
TECH/A/159 **4**	Combination pliers, c.200 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/160 **4**	Long-nose pliers, c.200 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/161 **6**	Set of assorted flat and Philips head screwdrivers with plastic handles.		
	Manufacturer:	Catalogue No:	
TECH/A/162 **6**	Nail punch, c.150 mm		
	Manufacturer:	Catalogue No:	
TECH/A/163 **12**	Craft knife		
	Manufacturer:	Catalogue No:	
TECH/A/164 **2**	Set of Allen keys, e.g., 3 mm - 10 mm.		
	Manufacturer:	Catalogue No:	

Code Quantity	Descriptions & Specifications:		Cost €
TECH/A/165 **1**	Combination oilstone, c.200 mm, coarse and fine faces.		
	Manufacturer:	Catalogue No:	
TECH/A/166 **1**	Paper guillotine, capable of cutting up to A3 size paper.		
	Manufacturer:	Catalogue No:	
TECH/A/167 **6** **6** **4**	G-clamps: 100 mm 150 mm 200 mm		
	Manufacturer:	Catalogue No:	
TECH/A/168 **2**	Cordless drill, min. 14V, complete with case and spare battery.		
	Manufacturer:	Catalogue No:	
TECH/A/169 **1**	Portable electric router, complete with tool case, 110 V, 50 Hz, c.1800 W motor.		
	Manufacturer:	Catalogue No:	
TECH/A/170 **1**	Portable electric orbital sander, complete with tool case, 110 V, 50 Hz, c.600 W motor.		
	Manufacturer:	Catalogue No:	
TECH/A/171 **1**	Portable electric jig saw, complete with tool case, 110 V, 50 Hz, c.700 W motor.		
	Manufacturer:	Catalogue No:	
TECH/A/172 **2**	Glue gun, complete with box (c.1 kg) of glue sticks, 230 V, 50 Hz.		
	Manufacturer:	Catalogue No:	
TECH/A/173 **2**	Quarter litre (250 cm^3) oilcan.		
	Manufacturer:	Catalogue No:	
TECH/A/174 **1**	Single phase, double wound, transformer with earth metallic screen between windings. Mounted in robust carrying case. Input 230 V, 50 Hz. Output 110 V in 2 x 16 A sockets to CEE 17. Rating: 2 kVA. Unit to comply with Safety, Health and Welfare at Work (General Application) Regulations (1993).		
	Manufacturer:	Catalogue No:	

Section 2: Electronics and Systems & Control Technology			
Code Quantity	**Descriptions & Specifications:**		**Cost €**
TECH/A/201 **1**	Educational electronics teaching kit capable of allowing for the demonstration of a range (c.20) simple electronic circuits/systems such as fire alarm and motor controllers. Kit to be accompanied with associated guides/texts, and suitable for use with a class group of students.		
	Manufacturer:	Catalogue No:	
TECH/A/202 **24**	Electric soldering iron, extra fine tip for electronics, complete with stand and sponge, c.15-30 W, 220-240 V		
	Manufacturer:	Catalogue No:	
TECH/A/203 **4**	Temperature controlled electric soldering iron/station, complete with stand and cleaning sponge, c.50 W, 220-240 V		
	Manufacturer:	Catalogue No:	
TECH/A/204 **25**	Miniature electronics tool kit, to contain tools such as pliers, snips, wire strippers and screwdrivers, in appropriate case.		
	Manufacturer:	Catalogue No:	
TECH/A/205 **6**	Helping-hands for soldering work		
	Manufacturer:	Catalogue No:	
TECH/A/206 **6**	LT variable voltage power supply unit, overload protection. Performance (approx.): DC – 0-25 V (no load) and 24V (8 A load) AC – 0-25 V (no load) and 24V (8 A load)		
	Manufacturer:	Catalogue No:	
TECH/A/207 **2**	De-soldering pump, portable type.		
	Manufacturer:	Catalogue No:	
TECH/A/208 **12**	Digital multi-meter, auto-ranging frequency measurement, capacitance measurement and transistor test. Voltage a.c and d.c – c.5 ranges each from 200 mV x 100 μV to 600 V x 1 V Current a.c and d.c – c.4 ranges each from 2 mA x 1 μA to 10 x 10 mA Resistance – c.6 ranges from 200 R x 0.01 R to 20 M x 10 K Capacitance – c.5 ranges from 2000 pF x 1 pf to 20 μF 10 nF Frequency – c.5 ranges from 2 kHz x 1 Hz to 20 MHz x 100 kHz Diode test Continuity text Transistor test NPN and PNP		
	Manufacturer:	Catalogue No:	
TECH/A/209 **2** **2** **2**	Single core wire, diameter, c.1.2 mm x c.100 m length, to include: Black reels Red reels Blue reels		
	Manufacturer:	Catalogue No:	
TECH/A/210 **2** **2** **2**	Stranded wire, diameter, c.1.4 mm x c.100 m length, to include: Black reels Red reels Blue reels		
	Manufacturer:	Catalogue No:	
TECH/A/211 **1**	Extra flexible stranded wire, diameter, c.2.8 mm x c.100 m length, to include: Red; Black		
	Manufacturer:	Catalogue No:	
TECH/A/212 **1**	Ribbon cable reel of wire, e.g., 20-way rainbow, c.25 m length.		
	Manufacturer:	Catalogue No:	

Code Quantity	Descriptions & Specifications		Cost €
TECH/A/213 **50**	Cable Mounting Sockets 20 way		
	Manufacturer:	Catalogue No:	
TECH/A/214 **10**	Pack of c.10 crocodile clip leads.		
	Manufacturer:	Catalogue No:	
TECH/A/215 **100** **100** **100** **100**	Pack/kit of 4 mm plugs and sockets, to include: 4mm Plug Red 4mm Socket Red 4mm Plug Black 4mm Socket Black		
	Manufacturer:	Catalogue No:	
TECH/A/216 **40** **40** **40** **40** **40** **40** **300**	Pack/kit of battery holders and clips, to include: 2XAA 4XAA 2XC 4XC 2XD 4XD PP3 battery snaps		
	Manufacturer:	Catalogue No:	
TECH/A/217 **5** **1000** **1000** **1000** **1000** **1000**	Pack/kit of micro-miniature electrolytic capacitors, to include, Variety capacitor kit suitable for simple electronic circuit building 100μF 16v 220μF 16v 470μF 16v 1000μF 16v 2200μF		
	Manufacturer:	Catalogue No:	
TECH/A/218 **5** **2000** **1000** **2000** **1000** **1000** **1000** **1000** **1000** **1000** **1000**	Pack/kit of resistors, to include: Variety resistor kit suitable for simple electronic circuit building 270R 1K 2K2 4K7 10K 22K 33K 100K 150K 1M		
	Manufacturer:	Catalogue No:	
TECH/A/219 **100** **100** **100** **100** **100** **100** **50**	Pack/kit of potentiometers, to include: 1K LIN 2200K LIN 10K LIN 47K LIN 100K LIN 1M LIN 100K LIN dual control (stereo)		
	Manufacturer:	Catalogue No:	
TECH/A/220 **5** **500** **1000** **1000**	Pack/kit of preset potentiometers, to include: Variety preset potentiometer kit suitable for simple electronic circuit building 10K 22K 100K		
	Manufacturer:	Catalogue No:	

TECH/A/221 **80** **80** **20**	Miniature motors, to include: High torque miniature motor, 3-6 V High power, 12 V motor Solar motor		
	Manufacturer:	Catalogue No:	
TECH/A/222 1 **200**	Motor mount (e.g., self-adhesive) to suit miniature motors detailed in TECH/A/320.		
	Manufacturer:	Catalogue No:	
TECH/A/223 **10**	Miniature multi-ratio gearbox and motor (clearbox motor), assembled **OR** in kit form, motor to operate on c.1.5-4.5 V power supply.		
	Manufacturer:	Catalogue No:	
TECH/A/224 **10**	Miniature worm drive gearbox with motor, assembled **or** in kit form, motor to operate on c.1.5-4.5 V power supply.		
	Manufacturer:	Catalogue No:	
TECH/A/225 **1000**	MES lamp (bulb), 6 V/60 mA, commercial grade.		
	Manufacturer:	Catalogue No:	
TECH/A/226 **1000**	MES lamp (bulb) holder, solder tags at base.		
	Manufacturer:	Catalogue No:	
TECH/A/227 **1000**	MES lamp (bulb) holder, spring loaded contact, fixing centres: c.23 mm.		
	Manufacturer:	Catalogue No:	
TECH/A/228 **100** **100** **100**	Pack/kit of assorted colours MES lamp holders, to include: Red Green Orange		
	Manufacturer:	Catalogue No:	
TECH/A/229 **500** **500** **500** **500** **3000** **500** **500** **40**	Pack/kit of assorted standard 5mm LED's and clips, to include: Red Yellow Green Flashing 5mm bezel panel clips (one piece). Silicone rectifier diode IN4001 1A, 50V max. Silicone rectifier diode IN5401 3A, 100V max Seven segment LED display, common cathode, c.13 mm		
	Manufacturer:	Catalogue No:	
TECH/A/230 **300**	Light dependent resistor (ORP 12 specification)		
	Manufacturer:	Catalogue No:	
TECH/A/231 **500** **10**	Pack/kit of assorted sizes of strip-board, to include: 25 mm x 64 mm 119 mm x 455 mm		
	Manufacturer:	Catalogue No:	
TECH/A/232 **50**	Pack/kit of breadboard, to include: 400 Tie points		
	Manufacturer:	Catalogue No:	
TECH/A/233 **50** **50** **50** **50**	Pack/kit of miniature relays, to include: DPDT 5A SPDT 5A SPDT 10A DPDT 8A		
	Manufacturer:	Catalogue No:	

Code Quantity	Descriptions & Specifications		Cost €
TECH/A/234 **100** **100**	Pack/kit of NTC thermistors, to include: 5 k ohm 2700 ohm		
	Manufacturer:	Catalogue No:	
TECH/A/235 **600** **300** **200** **200** **100**	Pack/kit of general purpose transistors, to include: ZTX321 NPN specification BC108 NPN specification BFY51 NPN specification BC109 NPN specification TIP121 Darlington NPN specification		
	Manufacturer:	Catalogue No:	
TECH/A/236 **100** **50** **50** **30** **30** **30**	Pack/kit of linear integrated circuits (ICs), to include: 555 Timer 741 Op Amp 3140 Op Amp 556 7400 7490		
	Manufacturer:	Catalogue No:	
TECH/A/237 **50** **50** **200** **50**	Pack/kit of miniature speakers, for example: 8 ohm 64 ohm Buzzer, 6 V (leads) Miniature piezo buzzer		
	Manufacturer:	Catalogue No:	
TECH/A/238 **150** **150** **100** **200** **200** **200** **100** **50** **10** **50** **50** **50**	Pack/kit of miniature switches, to include: Miniature toggle SPST Miniature toggle SPDT Miniature rocker Standard slide DPDTCO Push to make Push to break Push latching Tilt switch (mercury) Reed switch with magnets Microswitch button Microswitch lever Microminiature microswitch lever		
	Manufacturer:	Catalogue No:	
TECH/A/239 **100**	Pack/kit of miniature thyristors, to include: TIC106D specification		
	Manufacturer:	Catalogue No:	

Code Quantity	Descriptions & Specifications		Cost €
TECH/A/240 **100**	Control knobs, to fit c.6 mm shaft		
	Manufacturer:	Catalogue No:	
TECH/A/241 **10**	Low-fume / colophony free solder, 500 g / 22 swg (0.71 mm)		
	Manufacturer:	Catalogue No:	
TECH/A/242 **2**	Multiple drawer storage cabinets, plastic drawer type, wall mountable, c.60 drawer unit size.		
	Manufacturer:	Catalogue No:	
TECH/A/243 **24**	Multi-compartment boxes (e.g., plastic type), suitable for storing of electronics circuits / components.		
	Manufacturer:	Catalogue No:	
TECH/A/244 **10** **10** **10** **10** **10** **10** **10**	Pack/kit of accessories suitable for electronics work (i.e., push-fit directly to miniature motor shafts): Pack of c.10 plastic wheels, various diameter sizes (e.g., 30 mm – 70 mm) Pack of c.10 plastic propellers, c.100 mm diameter, 2 or 3 blades. Pack of c.10 2 mm steel shafting Pack of c.10 3 mm steel shafting Pack of c.10 miniature pulleys, various diameter sizes (e.g., 8 mm to 25 mm) Pack of c.10 plastic gears, various diameter sizes (e.g., 15 mm to 40 mm) Pack of c.10 miniature worm gears		
	Manufacturer:	Catalogue No:	
TECH/A/245 2	PCB Drill and stand set complete with power supply output of drill 12 V to 18 V. Chuck capacity 0.6 mm to 3.2 mm. Input of power supply unit 220 V to 240 V		
	Manufacturer:	Catalogue No:	
TECH/A/246 1	Set of Control technology teaching kits. Kits to simulate control of manufacturing processes (e.g. conveyor, sorter, pick and place) and/or examples of control technology used in society (e.g. Car park barrier, lifts, sliding doors). Kit to be accompanied with associated guides/texts, and suitable for use with a class group of students.		
	Manufacturer:	Catalogue No:	
TECH/A/247 24	Microcontroller board. Minimum specification of board to include 5 inputs & 8 outputs incorporating 8 LED outputs, 1 seven segment display, piezo sounder, 1 servo 3 pin header, darlington driver on 4 outputs and 2 motor drivers. To include a switch to disable/enable seven segment display, LEDS, piezo sounder and stepper motor control. All outputs rated at 5 V, 600 mA max. Appropriate power supply and download cable.		
	Manufacturer:	Catalogue No:	
TECH/A/248 1	Robotic control technology teaching kit. Kit to simulate a range of robotic control applications. Kit to be accompanied with associated guides/texts and suitable for use with a class group of students.		
	Manufacturer:	Catalogue No:	
TECH/A/249 1	Electro-pneumatic teaching kit and suitable air compressor. Capable of allowing for the demonstration of a range of circuits/systems. Kit to be accompanied with associated guides/texts and suitable for use with a class group of students.		3000
	Manufacturer:	Catalogue No:	

TECH/A/250 **1**	Pneumatic system construction and simulation software to include library of standard pneumatic symbols; educational site licence for min. 25 users.		
	Manufacturer:	Catalogue No:	
TECH/A/251	Electronics construction and simulation software; educational site licence for min. 25 no. users.		
	Manufacturer:	Catalogue No:	
TECH/A/252 **1**	Control system design, programming, simulation software, compatible with micro-controller boards TECH/A/247; educational site licence for min. 25 users.		
	Manufacturer:	Catalogue No:	
TECH/A/253 **1**	Moved		
	Manufacturer:	Catalogue No:	
TECH/A/254 **1**	Printed Circuit Board design and create software; educational site licence for min. 25 users.		
	Manufacturer:	Catalogue No:	
TECH/A/255 **1**	Project management software for project planning, scheduling and simulation. Educational site licence for min. 25 users.		
	Manufacturer:	Catalogue No:	
TECH/A/256 **1**	Digital camera (compact): - min. 8 megapixels; x4 optical zoom; USB port or equal; with cables; lithium ion or Ni-MH battery, charger, 500 Mb memory card/device, and case.		
	Manufacturer:	Catalogue No:	
TECH/A/257 **1**	Document Camera. Minimum specification: Image sensor: 3 megapixel, 12 V dc power adaptor, Light source, cables incl.		
	Manufacturer:	Catalogue No:	

Section 3: Drawing/Design			
Code Quantity	**Descriptions & Specifications**		**Cost €**
TECH/A/301 **24**	Portable Desktop Drawing Board, A2 size, solid core/particle board/multi-ply, white high pressure laminate above and below, pvc edges and square corners, with rubber feet. Simple robust mechanism to allow use at 0º and 20º, with rubber tractor grip to facilitate overhanging of table edge.		
	Manufacturer:	Catalogue No:	
TECH/A/302 A 25	T-squares: A2 size, tape blade, best quality hardwood, with maple or acrylic edges to blade; blade screwed and dowelled to stock or equal.		
	Manufacturer:	Catalogue No:	
	OR		
TECH/A/302 B 25	Stainless steel T-square with fixed light cast aluminium head, brushed blade with low reflectance.		
	Manufacturer:	Catalogue No:	
TECH/A/303 **24**	Set squares, 45°, plastic type		
	Manufacturer:	Catalogue No:	
TECH/A/304 **24**	Set squares, 60°, plastic type		
	Manufacturer:	Catalogue No:	
TECH/A/305 **1 set**	Blackboard instruments comprising: compass, c.500 mm approx. with steel point; 60° set square, heavy duty plastic type, c.500 mm side; 45° set square, heavy duty plastic type, c.500 mm side with hand clasp; protractor, heavy duty type, c.425 mm side; rule, bevelled edge, 1 metre long, with metric graduations, heavy-duty type.		
	Manufacturer:	Catalogue No:	

Section 4: Structures/Mechanisms			
Code **Quantity**	**Descriptions & Specifications**		**Cost** **€**
TECH/A/401 **12**	Low cost construction set/kit, capable of allowing for the construction of models of various structures and mechanisms, e.g., bridges, towers, model automobiles, etc. A number to include appropriate power supply units.		
	Manufacturer:	Catalogue No:	
TECH/A/402 **3** **3** **3** **3** **3** **3**	Pack/set of plastic gear wheels suitable for model building, preferably of the brass hub-type, to include: Pack c.10 12 teeth Pack c.10 18 teeth Pack c.10 30 teeth Pack c.10 58 teeth Pack c.10 bevel gear Pack c.10 worm gear		
	Manufacturer:	Catalogue No:	
TECH/A/403 **3** **3** **3**	Pack/set of pulley's suitable for model building, preferably of the brass-hub type, to include: Pack of c.10 pulley's c.20 mm diameter Pack of c.10 pulley's c.40 mm diameter Pack of c.10 pulley's c.60 mm diameter		
	Manufacturer:	Catalogue No:	
TECH/A/404 **10** **10**	Pack of shafting/shaft converters to suit TECH/A/501 and TECH/A/502, to include: Pack of shaft converters (e.g., 6 mm to 4 mm and/or 4 mm to 2 mm) Pack of shafts (e.g., 6 mm and/or 4 mm shafts)		
	Manufacturer:	Catalogue No:	
TECH/A/405 **20** **20** **10** **10**	Pack/set of plastic/wooden wheels suitable for model building/construction work, to include: Pack plastic c.10 wheels c.60 mm diameter Pack plastic c.10 wheels c.50 mm diameter Pack wooden c.10 wheels c.25 mm diameter Pack wooden c.10 wheels c.50 mm diameter		
	Manufacturer:	Catalogue No:	
TECH/A/406 **1** **1** **1** **1** **1** **1**	M3 screws and nuts: Box M3 screws 6 mm Box M3 screws 12 mm Box M3 screws 20 mm Box M3 screws 25 mm Box M3 nuts Box M3 washers		
	Manufacturer:	Catalogue No:	
TECH/A/407 **1** **1** **1** **1** **1** **1**	M4 screws and nuts: Box M4 screws 6 mm Box M4 screws 12 mm Box M4 screws 20 mm Box M4 screws 25 mm Box M4 nuts Box M4 washers		
	Manufacturer:	Catalogue No:	
TECH/A/408 **2**	Box of art straws		
	Manufacturer:	Catalogue No:	

Section 5: Health and Safety Equipment			
Code **Quantity**	**Descriptions & Specifications**		**Cost** **€**
TECH/A/501 **24**	Non-mist safety goggles, full ventilation, for use over spectacles, kite marked to BS 2092.		
	Manufacturer:	Catalogue No:	
TECH/A/502 **24**	Student apron, suitable for workshop use.		
	Manufacturer:	Catalogue No:	
TECH/A/603 **12**	Lightweight safety spectacles with fully adjustable side frames and clear side shields, fitted with replaceable lens to BS 2092.		
	Manufacturer:	Catalogue No:	
TECH/A/504 **12**	Clearways face shields with adjustable headbands. Full facial and eye protection while operating machine tools, forging, heating and melting of metals, etc. Kite marked to BS 2092.		
	Manufacturer:	Catalogue No:	
TECH/A/505 **6**	Pair Gloves for materials handlings, abrasion and cut resistant; oil, grease and dirt repellent.		
	Manufacturer:	Catalogue No:	
TECH/A/506 **12**	Fume displacement unit, replaceable filter type, bench mounted, 230 V, 50 Hz.		
	Manufacturer:	Catalogue No:	
TECH/A/507 **1**	First aid cabinet, wall mounted type, size: c.240 x c.370 x c.100 mm - with hinged door, complete with appropriate first aid kit.		
	Manufacturer:	Catalogue No:	
TECH/A/508 **2**	Ear Defenders: headband and ear cup type. To be supplied complete with two sets of renewable sealing rings and to conform/be tested to EN352/BS 5108. Attenuation of 20 dB required.		
	Manufacturer:	Catalogue No:	
TECH/A/509 **1**	Soft soap/hand barrier cream dispenser, rechargeable type, suitable for wall mounting.		
	Manufacturer:	Catalogue No:	
TECH/A/510 **1**	Roll of hand paper, 200 mm wide, on roller stand.		
	Manufacturer:	Catalogue No:	

General Note: Equipment to be commissioned and training provided where appropriate.

Equipment for Technology List A FIVE SECTIONS			
Section	**Code Quantity.**	**Descriptions & Specifications:**	**Total Cost €:**
Section 1	**TECH/A/101-174**	**General Workshop Equipment/Tools.**	
Section 2	**TECH/A/201-257**	**Electronics**	
Section 3	**TECH/A/201-305**	**Drawing/Design**	
Section 4	**TECH/A/401-408**	**Structure/Mechanisms**	
Section 5	**TECH/A/501-510**	**Health and Safety Equipment**	

Total	**€**	
Add for VAT :	**€**	
Total Amount for TECH/A List:	**€**	

See Next Page For:
Certificate of Compliance with Standards, Specifications & Conditions

Standards, Specifications & Conditions

All equipment/machinery/tools shall be durable and safe for school use. Equipment wholly, or partly, funded from public funds is subject to Inspection by officers from the Department of Education & Skills.

It is essential that tenders for equipment for school use shall:

(i) Comply fully with the specifications listed.
(ii) Ensure that all equipment/machinery/tools shall be of an appropriate quality and standard suitable for use in a post-primary school workshop setting.
(iii) Comply fully with European (EN) standards, established and developing, as appropriate.
(iv) Comply with European electrical standards and CE marking as appropriate.
(v) Be accompanied by documentation of sufficient detail for full evaluation.
(vi) Ensure consistency between machinery/equipment/tools quoted for and that supplied.
(vii) Include the completed and signed certificate of compliance.

Award of a contract is conditional on the production of a current tax clearance certificate

Failure to comply with the above may result in the tender being deemed null and void

Certificate of Compliance with Standards, Specifications & Conditions

I/We certify that the equipment tendered complies in all respects with the Standards, Specifications and other requirements/conditions specified in this tender document. I/We hold a current tax clearance certificate.

Company: _____

Signed: _____ **Date:** _____

Position: _____