



An Roinn Oideachais  
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Department of  
Education and Skills

# Applied Technology/Technology

## Equipment List and Specification

# Applied Technology and Technology Equipment List A

## Section 1: Drawing and Design

| Code<br>Quantity    | Description and Specification   | Cost<br>€ |
|---------------------|---|-----------|
| TECH/A/101<br>1     | Set of (magnetic) drawing equipment, for (magnetic) chalkboard, to include (i) compass with steel point (500mm), (ii) 60°/30° set square (500mm), (iii) 45° set square (500mm), (iv) protractor (425mm) and (v) heavy duty rule with bevelled edges (1000mm).                                     |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/102(A)<br>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.: _____  |           |
| <b>OR</b>           |   |           |
| TECH/A/102(B)<br>25 | Stainless steel T-square with fixed light cast aluminium head, brushed blade with low reflectance.  |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/103<br>25    | 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 0° and 20°, with rubber tractor grip to facilitate overhanging of table edge. |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/104<br>30    | Graphics/DCG wooden box set, to come with 4" acrylic protractor, 60°/30° & 45° Set Squares (transparent heavy duty, non-brittle plastic, with bevelled edge and open centre. Sizes: 200mm, 2mm thick), quickset adjustable compass, H and 2H pencils, Vinyl eraser, Metal sharpener and Clips.    |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/105<br>2     | 1000mm Steel rule.  |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/106<br>24    | Scaled rule, acrylic, 300mm, suitable for graphics/drawing.   |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/107<br>25    | 300mm Steel rule.   |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/108<br>1     | Circle template, acrylic type, c.2mm to 50mm diameter circles.  |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/109<br>1     | Flexi-curve, suitable for technical graphics work.  |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/110<br>1     | French curves, set of three, moulded plastic with ellipse form.   |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/111<br>1     | Erasing shield, stainless steel type.   |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/112<br>2     | 50m Surveyor's fibre measuring tape.  |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/A/113<br>25    | Cutting knife, scalpel type with disposable blades.   |           |
|                     | Manufacturer: _____ Catalogue No.: _____  |           |

|                         |  |                |  |
|-------------------------|--|----------------|--|
| TECH/A/114<br>25        | Cutting mat, A3 size, plastic, self-repairing.   |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/115<br>30        | Show-me boards, A3 gridded, with drywipe pens and eraser.                              |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/116<br>12        | Scissors 250mm stainless steel.  |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/117<br>30        | Scissors 140mm, 25 no. right handed and 5 no. left handed.                             |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/118<br>2         | Spray mount 400ml.   |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/119<br>6 of each | Ready mixed water-soluble paint 500ml (red, green, brown, black, blue, yellow, white). |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/120<br>10        | White foam board 3mm thick, 70x100cm.  |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/121<br>2         | 5m Pocket measuring tape with 19mm blade.  |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/122<br>12        | Glue guns and 100 glue sticks.   |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |
| TECH/A/123<br>1         | Electronic Label maker, complete with tapes.   |                |  |
|                         | Manufacturer:  | Catalogue No.: |  |

## Section 2: Hand Tools

| Code<br>Quantity              | Description and Specification   | Cost<br>€ |
|-------------------------------|---|-----------|
| TECH/A/201<br>24              | Beech bench hooks.  |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/202<br>24              | 300mm Beech-handled tenon saw.  |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/203<br>6               | 200mm Beech-handled dovetail saw.   |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/204<br>12              | Bench plane, smooth, 50mm cutter, adjustable for depth of cut/alignment.          |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/205<br>12              | Carpenters mallet, c.115mm.   |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/206<br>24              | Warrington hammer, weight: c.340 g.   |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/207<br>12              | Coping Saw with 150mm blade   |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/208<br>12              | Marking gauge – steel pin, thumbscrews  |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/209<br>12              | Woodwork try-square, blade length: 150mm min.                                     |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/210<br>6               | Sliding bevel (woodwork), wooden handle, hardened steel blade, locking mechanism. |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/211<br>1               | Measuring tape, c.3m.   |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/212<br>12 of each size | Chisels (bevel edge):<br>6mm<br>10mm<br>18mm<br>25mm                              |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/213<br>12 of each size | Chisels (mortise):<br>6mm<br>10mm<br>18mm<br>25mm                                 |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/214<br>1               | Bit brace, c.250mm.   |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/215<br>1               | Set of auger bits, c.6mm – c.25mm to suit TECH/A/114                              |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/216<br>1               | Set of flat bits, c.6mm – c.25mm to suit TECH/A/114                               |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |
| TECH/A/217<br>6               | Claw hammer, tempered/hardened head, wood/metal handle, 500g (1 lb).              |           |
|                               | Manufacturer:                      Catalogue No.:                                 |           |

|                               |   |                |  |
|-------------------------------|---|----------------|--|
| TECH/A/218<br>2               | Carpenter's pincers, c.180mm.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/219<br>1               | Mallet, tinsmans type, c.45mm diameter head.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/220<br>2               | Mitre/corner clamp.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/221<br>1               | Hand Mitre Saw.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/222<br>2               | Set of c.5 hole-saws, complete with arbor, sizes from c.20mm to c.60mm diameter.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/223<br>12 of each type | Files, smooth, 250mm:<br>Half round<br>Hand<br>Round<br>Square<br>Three square  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/224<br>65              | File handle for 250mm file, plastic or wooden.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/225<br>6               | Set of c.6 needle files.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/226<br>24              | "Abra" (or equal) file, 250mm, medium cut.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/227<br>2               | Engineer's inside spring caliper, c.150mm.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/228<br>2               | Engineer's outside spring caliper, c.150mm.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/229<br>2               | Precision Vernier caliper, capacity c.150mm, digital reading.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/230<br>12              | Engineer's spring divider, c.150mm.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/231<br>12              | Engineer's centre punch, c.100mm.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/232<br>24              | Engineer's fully integrated scribe, double ended, c.175mm.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/233<br>24              | Engineer's steel square, blade c.120mm.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/234<br>24              | Stainless steel rule, pearl chrome finish, 300mm long, graduated inmm.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/235<br>4               | Universal bevel, (metalwork), c.150mm.  |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/236<br>3               | Set of stocks (10), dies (10), taps and wrenches, ISO thread form, range from 3mm to 12mm. Circular die pattern. Set complete in strong case. |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |
| TECH/A/237<br>6               | File card (wooden base type), c.100mm x c.50mm.   |                |  |
|                               | Manufacturer:   | Catalogue No.: |  |

|                   |   |                |  |
|-------------------|---|----------------|--|
| TECH/A/238<br>2   | Tinmans folding bars, c.250mm   |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/239<br>2   | Pop riveting kit, complete with pliers and assorted rivets, industrial grade. |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/240<br>12  | Engineers ball-pein hammer, weight: 500 g (1 lb).                             |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/241<br>4   | Tinmans snips, straight, c.200mm.   |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/242<br>4   | Tinmans snips, curved, c.200mm.   |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/243<br>24  | Hacksaw frame, 300mm, adjustable or fixed type.                               |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/244<br>100 | Hacksaw blade, 300mm, 24 T.P.I.   |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/245<br>12  | Junior hacksaw frame.   |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/246<br>12  | Junior hacksaw blade pack (pack of 10)  |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/247<br>2   | Glass cutter, hand held, single or multi-wheel type.                          |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/248<br>1   | Hand held engraver, variable speed, 230 V; 50 Hz.                             |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/249<br>2   | Set of letter stamps, 5mm, set of 27, Grade A.                                |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/250<br>2   | Set of 12 combination spanners, e.g., 8mm – 19mm, chrome finish.              |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/251<br>2   | Set of drills, HSS, parallel shank, c.1.0 to c.13mm x 0.5mm. Set in case.     |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/252<br>1   | Set of counter sink drills, HSS, 6mm, 8mm and 10mm. Parallel shank 90°.       |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/253<br>2   | Leather sandbag, c.250mm diameter.  |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/254<br>2   | Boxwood bossing mallet, c.50mm diameter head.                                 |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/255<br>4   | Vice grips, 250mm, lever release.   |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/256<br>2   | Sheet metal vice grip, 250mm, lever release.                                  |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/257<br>6   | Combination pliers, c.200mm.  |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/258<br>6   | Long-nose pliers, c.200mm.  |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/259<br>6   | Set of assorted flat and Philips head screwdrivers with plastic handles.      |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |
| TECH/A/260<br>4   | Nail punch, c.150mm   |                |  |
|                   | Manufacturer:   | Catalogue No.: |  |

|                              |   |                |  |
|------------------------------|---|----------------|--|
| TECH/A/261<br>2              | Set of Allen keys, e.g., 3mm - 10mm.  |                |  |
|                              | Manufacturer:   | Catalogue No.: |  |
| TECH/A/262<br>1              | Combination oilstone, c.200mm, coarse and fine faces.   |                |  |
|                              | Manufacturer:   | Catalogue No.: |  |
| TECH/A/263<br>6              | Paper guillotine, capable of cutting up to A3 size paper.   |                |  |
|                              | Manufacturer:   | Catalogue No.: |  |
| TECH/A/264<br>6 of each size | G-clamps:<br>100mm<br>150mm<br>200mm  |                |  |
|                              | Manufacturer:   | Catalogue No.: |  |
| TECH/A/265<br>12             | 900mm Sash Cramps.  |                |  |
|                              | Manufacturer:   | Catalogue No.: |  |
| TECH/A/266<br>1              | Lathe Pen turning kit:<br>Kit to include: Dust free Collet, Colt HSS-M2 Parabolic fluted 7 x 150mm drill bit, Universal pen mandrel, Locknut kit, Pen Blank trimming tool, minimum 5 high quality pen kits, 7 & 10mm spacers to suit most sizes of pen kit. |                |  |
|                              | Manufacturer:   | Catalogue No.: |  |

## Section 3: Power Tools

| Code<br>Quantity | Description and Specification<br><b>Note:</b> Portable Tools to be supplied as cordless appliances, or 110 volts if former option is not available.   | Cost<br>€ |
|------------------|---|-----------|
| TECH/A/301<br>1  | 18 volt Cordless Router, portable, with charger and two batteries Collet capacity: 10,000 – 30,000/min, Plunge Capacity: Trimmer 0-40mm, Plunge 0-35mm, Collet capacity: 3/8 inch and 1/4 inch<br><br><b>Two year warranty.</b> |           |
| TECH/A/302<br>1  | Set of 12 Assorted Router Bits to suit TECH/A/301.  |           |
| TECH/A/303<br>1  | c. 400mm X 400mm Non-Slip industrial quality Router Mat.  |           |
| TECH/A/304<br>1  | 18 volt Portable Jigsaw with toolcase, with charger and 2 batteries Bevel Capacity: 45°.<br><br><b>Two year warranty.</b>   |           |
| TECH/A/305<br>1  | Portable 12/24/110 V 50 Hz Belt Sander with outlet compatible with Dust Extractor.<br><br><b>Two year warranty.</b>   |           |
| TECH/A/306<br>1  | Portable 12/24/110V 50 Hz c.600 W motor Orbital Sander with outlet compatible with Dust Extractor.<br><br><b>Two year warranty.</b>   |           |
| TECH/A/307<br>1  | Portable 12/24/110V 50Hz c.600W Palm Sander.<br><br><b>Two year warranty.</b>   |           |
| TECH/A/308<br>6  | Portable 12/24/110 V, 50 Hz Pyrograph Machine.<br><br><b>Two year warranty.</b>   |           |
| TECH/A/309<br>4  | Rechargeable, minimum 18 V, Portable Cordless Drill with case, to include charger and two batteries.<br><br><b>Two year warranty.</b>   |           |
| TECH/A/310<br>1  | Portable 12/24/110 V 50 Hz variable speed double insulated electric hand Drill with 13mm Chuck and Key.<br><br><b>Two year warranty.</b>  |           |
| TECH/A/311<br>1  | Airbrush with fine, medium and heavy-duty head assemblies and long air hose for attachment to compressed air canister or air compressor.  |           |
| TECH/A/312<br>1  | Portable oil-less diaphragm type air compressor for use with airbrush.<br><br><b>Two year warranty.</b>   |           |



## Section 4: Electronics and Control Technology

| Code<br>Quantity | Description and Specification  | Cost<br>€ |
|------------------|--|-----------|
| TECH/A/401<br>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 a group of 24 students.   |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/402<br>12 | Digital multi-meter, auto-ranging frequency measurement, capacitance measurement and transistor test.<br>Voltage a.c and d.c – c.5 ranges each from 200 mV x 100 mV to 600 V x 1 V<br>Current a.c and d.c – c.4 ranges each from 2 mA x 1 mA to 10 x 10 mA<br>Resistance – c.6 ranges from 200 R x 0.01 R to 20 M x 10 K<br>Capacitance – c.5 ranges from 2000 pF x 1 pf to 20 mF 10 nF<br>Frequency – c.5 ranges from 2 kHz x 1 Hz to 20 MHz x 100 kHz<br>Diode test<br>Continuity test<br>Transistor test NPN and PNP<br><br><b>Two year warranty.</b> |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/403<br>30 | Handheld, programmable micro-computer Kit. Individually-programmable LEDs, 2 programmable buttons, Physical connection pins, Light and temperature sensors, Motion sensors (accelerometer and compass), Wireless Communication, via Radio and Bluetooth, USB interface. It should have the capability to be coded from any web browser in Blocks, Javascript, Python or Scratch. Kit to include USB connector, battery cage and protector case.  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/404<br>30 | All-in-one robotics board (for micro-computer specified in TECH/A/403).  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/405<br>30 | Straight single row PCB pin headers, 2.54mm, 36-way (for micro-computer specified in TECH/A/403).  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/406<br>30 | Edge connector breakout board (for micro-computer specified in TECH/A/403).  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/407<br>90 | Jumper Wires 20cm Male / Female.   |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/408<br>90 | Alligator Clip with Pigtail (4 Pack).  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/409<br>60 | Right Angle Geared Hobby Motor.  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/410<br>60 | Linear Actuator kit.   |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/411<br>1  | Sensors for air and weather, colour and light, and sound (for micro-computer specified in TECH/A/403).   |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/412<br>60 | Mini 180 Degree Resin Gear Servo.  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |

|                                   |   |                |
|-----------------------------------|---|----------------|
| TECH/A/413<br>90                  | Plastic Component Box - 15 Grid.  |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/414<br>1                   | Smart Home Kit, to include temperature sensor, sound sensor, crash sensor, servo, motor (for micro-computer specified in TECH/A/403). This kit should be capable of projects such as voice-activated light, smart fan, auto window and water level detector.  |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/415<br>10 of each          | Pack/kit of accessories suitable for electronics work (i.e., push-fit directly to miniature motor shafts):<br>Pack of c.10 plastic wheels, various diameter sizes (e.g., 30mm - 70mm)<br>Pack of c.10 plastic propellers, c.100mm diameter, 2 or 3 blades.<br>Pack of c.10 2mm steel shafting<br>Pack of c.10 3mm steel shafting<br>Pack of c.10 miniature pulleys, various diameter sizes (e.g., 8mm to 25mm)<br>Pack of c.10 plastic gears, various diameter sizes (e.g., 15mm to 40mm)<br>Pack of c.10 miniature worm gears. |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/416<br>24                  | Electric soldering iron, extra fine tip for electronics, complete with stand and sponge, min...30 W, 220-240 V<br><b>Two year warranty.</b>   |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/417<br>6                   | Temperature controlled electric soldering iron/station, complete with stand and cleaning sponge, c.50 W, 220-240 V.<br><b>Two year warranty.</b>  |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/418<br>30                  | Miniature electronics tool kit, to contain tools such as pliers, snips, wire strippers and screwdrivers, in appropriate case.   |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/419<br>4                   | Helping-hands for soldering work.   |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/420<br>8                   | LT variable voltage power supply unit, overload protection.<br>Performance (approx.):<br>DC - 0-25 V (no load) and 24V (8 A load)<br>AC - 0-25 V (no load) and 24V (8 A load)<br><b>Two year warranty.</b>  |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/421<br>3                   | De-soldering pump, portable type.   |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/422<br>2 of each<br>colour | Single core wire, diameter, c.1.2mm x c.100 m length, to include:<br>Black reels, Red reels, Blue reels   |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/423<br>2 of each<br>colour | Stranded wire, diameter, c.1.4mm x c.100 m length, to include:<br>Black reels, Red reels, Blue reels  |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/424<br>50                  | Extra flexible stranded wire, diameter, c.2.8mm x c.100 m length, to include: Red, and Black.   |                |
|                                   | Manufacturer:   | Catalogue No.: |
| TECH/A/425<br>1                   | Ribbon cable reel of wire, e.g., 20-way rainbow, c.25 m length.   |                |
|                                   | Manufacturer:   | Catalogue No.: |

|  |  |  |
|--|--|--|
| TECH/A/426<br>24                                       | Cable Mounting Sockets 20 way.   |  |
| TECH/A/427<br>100<br>100<br>100<br>100                 | Pack/kit of 4mm plugs and sockets, to include:<br>4mm Plug Red<br>4mm Socket Red<br>4mm Plug Black<br>4mm Socket Black   |  |
|  | Manufacturer:                      Catalogue No.:  |  |
| TECH/A/428<br>30<br>30<br>30<br>30<br>30<br>30<br>300  | Pack/kit of battery holders and clips, to include:<br>2XAA<br>4XAA<br>2XC<br>4XC<br>2XD<br>4XD<br>PP3 battery snaps  |  |
|  | Manufacturer:                      Catalogue No.:  |  |
| TECH/A/429<br>5<br><br>200<br>200<br>200<br>200<br>200 | Pack/kit of micro-miniature electrolytic capacitors, to include,<br>Variety capacitor kit suitable for simple electronic circuit building<br><br>100uF 16v<br>220uF 16v<br>470uF 16v<br>1000uF 16v<br>2200uF |  |
|  | Manufacturer:                      Catalogue No.:  |  |
| TECH/A/430<br>200 of each<br>type                      | Resistors, to include:<br>270R<br>1K<br>2K2<br>4K7<br>10K<br>22K<br>33K<br>100K<br>150K<br>1M  |  |
|  | Manufacturer:                      Catalogue No.:  |  |
| TECH/A/431<br>50 of each type                          | Potentiometers, to include:<br>1K LIN<br>2200K LIN<br>10K LIN<br>47K LIN<br>100K LIN<br>1M LIN<br>100K LIN dual control (stereo)   |  |
|  | Manufacturer:                      Catalogue No.:  |  |
| TECH/A/432<br>1  | Arm robot kit (for micro-computer specified in TECH/A/403).  |  |
|  | Manufacturer:                      Catalogue No.:  |  |

|                                     |   |                |
|-------------------------------------|---|----------------|
| TECH/A/433<br>150 of each<br>type   | Preset potentiometers (suitable for simple electronic circuit building), to include:<br>10K<br>22K<br>100K  |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/434<br>80 of each type       | Miniature motors, to include:<br>High torque miniature motor, 3-6 V<br>High power, 12 V motor<br>Solar motor  |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/435<br>200                   | Motor mount (e.g., self-adhesive) to suit miniature motors detailed in TECH/A/434.  |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/436<br>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/437<br>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/438<br>1000                  | MES lamp (bulb), 6 V/60 mA, commercial grade.   |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/439<br>1000                  | MES lamp (bulb) holder, solder tags at base.  |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/440<br>1000                  | MES lamp (bulb) holder, spring loaded contact, fixing centres: c.23mm.  |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/441<br>100 of each<br>colour | Pack/kit of assorted colours MES lamp holders, to include:<br>Red<br>Green<br>Orange  |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/442<br>200 of each<br>item   | 5mm LED's and clips, to include:<br>Red<br>Yellow<br>Green<br>Flashing<br>5mm bezel panel clips (one piece).<br>Silicone rectifier diode IN4001 1A, 50V max.<br>Silicone rectifier diode IN5401 3A, 100V max<br>Seven segment LED display, common cathode, c.13mm |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/443<br>60                    | Light dependent resistor (ORP 12 specification)   |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/444<br>100<br>10             | Pack/kit of assorted sizes of strip-board, to include:<br>25mm x 64mm<br>119mm x 455mm  |                |
|                                     | Manufacturer:   | Catalogue No.: |
| TECH/A/445<br>50                    | Pack/kit of breadboard, to include:<br>400 Tie points   |                |
|                                     | Manufacturer:   | Catalogue No.: |

|  |  |                |
|--|--|----------------|
| TECH/A/446<br>50 of each type                  | Pack/kit of miniature relays, to include:<br>DPDT 5A<br>SPDT 5A<br>SPDT 10A<br>DPDT 8A   |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/447<br>50<br>50                         | Pack/kit of NTC thermistors, to include:<br>5 k ohm<br>2700 ohm  |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/448<br>100 of each type                 | Pack/kit of general purpose transistors, to include:<br>ZTX321 NPN specification<br>BC108 NPN specification<br>BFY51 NPN specification<br>BC109 NPN specification<br>TIP121 Darlington NPN specification   |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/449<br>50<br>25<br>25<br>15<br>15<br>15 | Pack/kit of linear integrated circuits (ICs), to include:<br>555 Timer<br>741 Op Amp<br>3140 Op Amp<br>556<br>7400<br>7490   |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/450<br>25<br>25<br>100<br>25            | Pack/kit of miniature speakers, for example:<br>8 ohm<br>64 ohm<br>Buzzer, 6 V (leads)<br>Miniature piezo buzzer   |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/451<br>75 of each type                  | Pack/kit of miniature switches, to include:<br>Miniature toggle SPST<br>Miniature toggle SPDT<br>Miniature rocker<br>Standard slide DPDTCO<br>Push to make<br>Push to break<br>Push latching<br>Tilt switch (mercury)<br>Reed switch with magnets<br>Microswitch button<br>Microswitch lever<br>Microminiature microswitch lever |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/452<br>50                               | Pack/kit of miniature thyristors, to include:<br>TIC106D specification   |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/453<br>100                              | Control knobs, to fit c.6mm shaft.   |                |
| Manufacturer:                                  |  | Catalogue No.: |
| TECH/A/454<br>10                               | Low-fume / colophony free solder, 500 g / 22 swg (0.71mm).   |                |
| Manufacturer:                                  |  | Catalogue No.: |

|                  |  |  |
|------------------|--|--|
| TECH/A/455<br>6  | Multiple drawer storage cabinets, plastic drawer type, wall mountable, c.60 drawer unit size.  |  |
|                  | Manufacturer: _____ Catalogue No.: _____   |  |
| TECH/A/456<br>30 | Multi-compartment boxes (e.g., plastic type), suitable for storing of electronic circuits / components.  |  |
|                  | Manufacturer: _____ Catalogue No.: _____   |  |
| TECH/A/457<br>2  | PCB Drill and stand set complete with power supply output of drill 12 V to 18 V. Chuck capacity 0.6mm to 3.2mm. Input of power supply unit 220 V to 240 V<br><br><b>Two year warranty.</b>   |  |
|                  | Manufacturer: _____ Catalogue No.: _____   |  |
| TECH/A/458<br>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/459<br>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/460<br>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.  |  |
|                  | Manufacturer: _____ Catalogue No.: _____   |  |
| TECH/A/461<br>1  | Pneumatic system construction and simulation software to include library of standard pneumatic symbols; educational site licence for min. 25 users.  |  |
|                  | Manufacturer: _____ Catalogue No.: _____   |  |

## Section 5: Structure and Mechanisms

| Code<br>Quantity                     | Description and Specification  | Cost<br>€ |
|--------------------------------------|--|-----------|
| TECH/A/501<br>1                      | 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.   |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |
| TECH/A/502<br>3 of each pack/<br>set | Pack/set of plastic gear wheels suitable for model building, preferably of the brass hub-type, to include:<br>Pack c.10 12 teeth<br>Pack c.10 18 teeth<br>Pack c.10 30 teeth<br>Pack c.10 58 teeth<br>Pack c.10 bevel gear<br>Pack c.10 worm gear                              |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |
| TECH/A/503<br>3 of each pack/<br>set | Pack/set of pulley's suitable for model building, preferably of the brass-hub type, to include:<br>Pack of c.10 pulley's c.20mm diameter<br>Pack of c.10 pulley's c.40mm diameter<br>Pack of c.10 pulley's c.60mm diameter   |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |
| TECH/A/504<br>10 of each pack        | Pack of shafting/shaft converters to suit TECH/A/501 and TECH/A/502, to include:<br>Pack of shaft converters (e.g., 6mm to 4mm and/or 4mm to 2mm)<br>Pack of shafts (e.g., 6mm and/or 4mm shafts)  |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |
| TECH/A/505<br>15 of each<br>pack/set | Pack/set of plastic/wooden wheels suitable for model building/<br>construction work, to include:<br>Pack plastic c.10 wheels c.60mm diameter<br>Pack plastic c.10 wheels c.50mm diameter<br>Pack wooden c.10 wheels c.25mm diameter<br>Pack wooden c.10 wheels c.50mm diameter |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |
| TECH/A/506<br>1 box of each          | M3 screws and nuts:<br>Box M3 screws 6mm, pack of 100<br>Box M3 screws 12mm, pack of 100<br>Box M3 screws 20mm, pack of 100<br>Box M3 screws 25mm, pack of 100<br>Box M3 nuts, pack of 100<br>Box M3 washers, pack of 500  |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |
| TECH/A/507<br>1 box of each          | M4 screws and nuts:<br>Box M4 screws 6mm, pack of 100<br>Box M4 screws 12mm, pack of 100<br>Box M4 screws 20mm, pack of 100<br>Box M4 screws 25mm, pack of 100<br>Box M4 nuts, pack of 100<br>Box M4 washers, pack of 500  |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |
| TECH/A/508<br>2                      | Box of art straws.   |           |
|                                      | <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Manufacturer:</td> <td style="width: 50%;">Catalogue No.:</td> </tr> </table>   |           |
| Manufacturer:                        | Catalogue No.:   |           |

| Section 6: Safety Equipment |  |           |
|-----------------------------|--|-----------|
| Code<br>Quantity            | Description and Specification  | Cost<br>€ |
| TECH/A/601<br>1             | Wall-Mounted First Aid Cabinet c.370mm X c.24mm with hinged door and equipped with minimum 24 person first aid kit.  |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/602<br>1             | Set of minimum 6 / Laminated wall-mounted assorted Safety Signs.   |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/603<br>30            | Non-mist Safety Goggles, full ventilation, suitable for use over spectacles, kite marked to BS 2092.   |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/604<br>2             | Headband and ear cup type ear defenders. To be supplied with two sets of renewable sealing rings and to conform to EN352/BS5108. Attenuation to 20dB required. |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/605<br>12            | Clearways face shields with adjustable headbands. Full facial and eye protection while operating machine tools etc. Kite marked to BS2092.                     |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/606<br>30            | Student aprons suitable for workshop use.  |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/607<br>1             | Soap/hand cream dispenser.   |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/608<br>1             | Roll of Hazzard Warning Floor Tape, 50x3300mm, Yellow-Black.   |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/609<br>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/610<br>6             | Pair Gloves for materials handlings, abrasion and cut resistant; oil, grease and dirt repellent.   |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/611<br>6             | Fume displacement unit, replaceable filter type, bench mounted, 230 V, 50 Hz.  |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/612<br>6             | Plastic bin, minimum 80 litres.  |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/613<br>1             | Roll of hand paper, 200mm wide, on roller stand.   |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/614<br>24            | Banister type c.300mm X 50mm flat-backed Bench Brush. Resin set pure bristle.  |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/A/615<br>4             | 600mm Sweeping Brush with Handle.  |           |
|                             | Manufacturer: _____ Catalogue No.: _____   |           |

**Note:** Equipment to be commissioned and training provided where appropriate. Where servicing is required during the warranty period then the cost should be included in the tender price.



| Equipment for Applied Technology/Technology TECH/A |                 |                                    |               |
|--|-----------------|------------------------------------|---------------|
| Section  | Code            | Description and Specifications:    | Total Cost €: |
| Section 1  | TECH/A/101-121  | Drawing and Design                 |               |
| Section 2  | TECH/A/201-266  | Hand Tools                         |               |
| Section 3  | TECH/A/301- 312 | Power Tools                        |               |
| Section 4  | TECH/A/401- 461 | Electronics and Control Technology |               |
| Section 5  | TECH/A/501- 508 | Structure and Mechanisms           |               |
| Section 6  | TECH/A/601- 615 | Safety Equipment                   |               |

|                             |  |
|-----------------------------|--|
| Total (€)                   |  |
| Add for VAT (€)             |  |
| Total amount for List A (€) |  |

## Standards, Specifications and Conditions

**All Equipment 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.

### 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: \_\_\_\_\_

# Applied Technology and Technology Equipment List B

## Section 1: Machine Tools and Storage

| Code<br>Quantity | Description and Specification  | Cost<br>€ |
|------------------|--|-----------|
| TECH/B/101<br>1  | Vertical Bandsaw, Floor-standing, tiltable, c.400 mm x 400 mm table, blade length c.3000 mm - max. Width 19 mm. Cutting height 150 mm - 300 mm, cutting width 300 mm - 400 mm. Blade guard, no-volt release switch, c. 1.5 kW, 3 phase, 50 Hz.<br><br><b>Three year on-site warranty to include parts and labour.</b>  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/B/102<br>2  | Scroll Saw, 450 mm, with tilt table, variable speed motor, sawdust blower, workpiece hold-down and blade guard attachment. Motor c.120-200 W, 230 V.<br><br><b>Three year on-site warranty to include parts and labour.</b>  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/B/103<br>1  | Magnetic folding machine, Capacity: 1250 x 1,6 mm at 400 N/mm <sup>2</sup> , 230 volt.<br>To be supplied with: Wide clamping bar, narrow clamping bar, slotted clamping bar for shallow boxes, segmented clamping bar (finders), sheet support.<br><br><b>Three year on-site warranty to include parts and labour.</b> |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/B/104<br>1  | Guillotine-Notcher, bench mounted type, table size: c.500 mm x 400 mm, max. capacity in ferrous metals: c.1.5 mm, max. capacity in non-ferrous metals: c.3 mm.<br><br><b>Three year on-site warranty to include parts and labour.</b>  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/B/105<br>1  | Wood Turning Lathe, c.400 W (0.5 HP), floor-standing with faceplate, c.610 mm between centres, 2 Bar bed, variable speed (c.450-2000 rpm).<br><br><b>Three year on-site warranty to include parts and labour.</b>  |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/B/106<br>1  | Bench grinder, complete with eye shields and tool rests. Wheels – diameter c.200 mm, coarse and medium grit type, 230 V, 50 Hz.<br><br><b>Three year on-site warranty to include parts and labour.</b>   |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |
| TECH/B/107<br>2  | Drilling Machine, floor-standing pedestal complete with fitted drill chuck, key and chuck guard. 2 kW, 380V 3 phase, 50 Hz.<br><br><b>Three year on-site warranty to include parts and labour.</b>   |           |
|                  | Manufacturer: _____ Catalogue No.: _____   |           |

|                 |   |                |
|-----------------|---|----------------|
| TECH/B/108<br>1 | <p>Belt sander, c.150 mm wide belt, bench or floor mounted. Fitted with dust extraction facility in accordance with Circular Letter M45/01. Electrics: 230V, 50Hz.</p> <p>Larger machines NOT suitable, for Health and Safety Reasons.</p> <p>Three year on-site warranty to include parts and labour.</p>  |                |
| Manufacturer:   |   | Catalogue No.: |
| TECH/B/109<br>1 | <p>Vacuum form cutting machine, bench mounted type, complete with adjustable tilting table, guide fence and dust extraction outlet facility, Electrics: 230 V, 50 Hz.</p> <p>Three year on-site warranty to include parts and labour.</p>   |                |
| Manufacturer:   |   | Catalogue No.: |
| TECH/B/110<br>1 | <p>Vacuum forming machine, bench top model, cut sheet size min. 250 mm x min. 450 mm. Electrics – 230 V, 50 Hz.</p> <p>Three year on-site warranty to include parts and labour.</p>   |                |
| Manufacturer:   |   | Catalogue No.: |
| TECH/B/111<br>3 | <p>Thermoplastic sheet Strip Heater, 110 V 50Hz 500 mm suitable for bending thermoplastic sheets up to c.6 mm thick.</p> <p>Three year on-site warranty to include parts and labour.</p>  |                |
| Manufacturer:   |   | Catalogue No.: |
| TECH/B/112<br>1 | <p>Plastic dip coating unit. Minimum capacity 50 litres. Supplied complete with air blower and air pressure regulator together with 20 kg packs of two different colours of polyethylene powder. Electrics: 230 V, 50 Hz.</p> <p>Three year on-site warranty to include parts and labour.</p>   |                |
| Manufacturer:   |   | Catalogue No.: |
| TECH/B/113<br>1 | <p>Polystyrene Hot Wire Sculptor Cutter, c. 500 mm, 110/230 V, 50 Hz 500 mm cutter. Voltage through wire c.8 V.</p> <p>Two year warranty.</p>   |                |
| Manufacturer:   |   | Catalogue No.: |
| TECH/B/114<br>1 | <p>Electric Sharpening system: grinding stone size x width 250mm x 50mm; stone grit K220; leather honing wheel size x width 200 x 30mm; rotation speed min: 80rpm; include jig for straight edges, plane irons, ripping chisels; include angle setting jig for measuring exact angles and settings. Single phase.</p> <p>Three year on-site warranty to include parts and labour.</p> |                |
| Manufacturer:   |   | Catalogue No.: |
| TECH/B/115<br>2 | <p>Tool storage presses with cut-out slots for hand tools, lockable, approximate size 1900mm x 1000mm x 500mm.</p>  |                |
| Manufacturer:   |   | Catalogue No.: |

| Section 2: Digital Technologies and Computer Aided Manufacturing (CAM) |   |           |
|--|---|-----------|
| Code<br>Quantity   | Description and Specification   | Cost<br>€ |
| TECH/B/201<br>1  | Laptop suitable to run laser cutter and 3D printer, to be supplied with a case and wireless optical mouse.<br><b>2 Year warranty.</b>   |           |
|  | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/B/202<br>1  | 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.<br><b>5 year warranty.</b>  |           |
|  | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/B/203<br>1  | 3D Printer: Min volume area 100mm x 100mm x 100mm, Suitable for education purposes (not DIY/home spec.) and capable of high quality printing, user-friendly software based on open-source platform (Compatible with Parametric Modelling software used in Design and Communication Graphics (DCG)), Support materials such as PLA, Fully enclosed print chamber, and Technical support must be available. Roll of PLA to be provided with machine.<br><b>Two year on-site warranty to include parts and labour.</b>   |           |
|  | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/B/204<br>1  | Portable CNC design/vinyl cutter, with plotting area to 250 mm x 1000 mm to include appropriate computer operating software. 2 no. 1 metre vinyl rolls to be supplied.<br><b>Three year on-site warranty to include parts and labour.</b>   |           |
|  | Manufacturer: _____ Catalogue No.: _____  |           |
| TECH/B/205<br>1  | Laser cutter/engraver: CO2, workable on a variety of materials, minimum engraving area 300mm x 300mm, accommodate minimum 100mm thickness, minimum 30 Watt laser tube, open source software and driver, Raster & Vector operating modes, single phase, must come with a Vector grid, Air compressor and Fume extraction system, and Technical support must be available.<br><b>2 year on-site warranty on machine and CO2 tube.</b><br><b>NOTE:</b><br><b>Only 1 laser cutter to share between Engineering, Technology and Construction Studies room.</b><br><b>If school offers any of these three subjects (or are getting an upgrade to any of these rooms) they are entitled to get a laser cutter.</b><br><b>Location of laser cutter is identified on each of the room layouts.</b> |           |
|  | Manufacturer: _____ Catalogue No.: _____  |           |

**Note:** Equipment to be commissioned and training provided where appropriate. Where servicing is required during the warranty period then the cost should be included in the tender price.

| <b>Equipment for Applied Technology/Technology TECH/A</b> |                |   |                      |
|---|----------------|---|----------------------|
| <b>Section</b>  | <b>Code</b>    | <b>Description and Specifications:</b>                | <b>Total Cost €:</b> |
| Section 1   | TECH/B/101-115 | Machine Tools and Storage                             |                      |
| Section 2   | TECH/B/201-205 | Digital Technologies and Computer Aided Manufacturing |                      |

|                             |  |
|-----------------------------|--|
| Total (€)                   |  |
| Add for VAT (€)             |  |
| Total amount for List B (€) |  |

## **Standards, Specifications and Conditions**

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- 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.

### **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: \_\_\_\_\_