

Engineering

Equipment List, Specifications and Tendering Guidance

Prepared by The Planning & Building Unit, Department of Education Tullamore, Co. Offaly. R35 Y2N5 www.education.ie

Tendering Guidance

Important Notes to School's /ETB's seeking the items from this list:

- 1. Utilise existing procurement arrangements with suppliers/service providers where available
- 2. Search <u>www.ogp.gov.ie</u> to check if there is a suitable, fit for purpose framework/contract in place for all or some of the items required.
- 3. Choose to seek a request for quotation (RFQ), below the value of 25k, or a request for tender (RFT), above the value of 25k, based on best value for money using both qualitative and cost criteria. All procurement over the value of €25,000 must be advertised and published on www.etenders.gov.ie.
- 4. Seek quotations based on the items that can be competitively quoted from multiple suppliers based on the estimated level of spend following the procurement guidelines. For more advice on the procurement guidelines contact the Schools Procurement Unit (www.spu.ie) or Education Training Board with whom you are associated (list of ETBs on www.etbi.ie).
- 5. Suppliers may not be able to provide the full range of goods listed. In this case they should be requested to quote only for sections where they can supply all items in that section (excluding the equipment where a framework is in place such as ENG/B/201).
- 6. The specifications outlined in this document have been reviewed to ensure products of the highest quality are supplied. Substandard equipment should not be proposed or accepted under any circumstances and suppliers should be asked to replace these to the same standard set out or higher. Schools are advised to check this as part of the assessment before finalising the overall scores. In addition to pricing each item, suppliers must also specify the warranty being offered for each item.
- 7. All quotations must be excluding VAT with the VAT highlighted separately.
- 8. Contact the School Procurement Unit or your ETB for further specific guidance.

ENG/A/101~111 September 2022

Engineering Equipment List A

Section 1: Drawing and Design

Code Quantity	Description ar	nd Specification	Cost (€) & Warranty Offered
ENG/A/101 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.:	
ENG/A/102(A) 25	T-squares: A2 size, tape blade, best q edges to blade; blade screwed and do	uality hardwood, with maple or acrylic bwelled to stock or equal.	
	Manufacturer:	Catalogue No.:	
	C	DR .	
ENG/A/102(B) 25	Stainless steel T-square with fixed lig with low reflectance.	ht cast aluminium head, brushed blade	
	Manufacturer:	Catalogue No.:	
ENG/A/103 25	Portable Desktop Drawing Board, A2 size, solid core/particle board/multiply, 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.:	
ENG/A/104 25	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), quick-set adjustable compass, H and 2H pencils, Vinyl eraser, Metal sharpener and Clips.		
	Manufacturer:	Catalogue No.:	
ENG/A/105 1	Combination set, with centre head, so rule.	quare head, protractor and 300mm	
	Manufacturer:	Catalogue No.:	
ENG/A/106	Scaled rule, acrylic, 300mm, suitable	for graphics/drawing	
24	Manufacturer:	Catalogue No.:	
ENG/A/107 25	Engineers stainless steel rule, pearl clin-mm.	hrome finish, 300mm long, graduated	
	Manufacturer:	Catalogue No.:	
ENG/A/108 25	7.		
	Manufacturer:	Catalogue No.:	
ENG/A/109	Flexi-curve, suitable for technical gra	phics work.	
1	Manufacturer:	Catalogue No.:	
ENG/A/110	French curves, set of three, moulded	plastic with ellipse form.	
1	Manufacturer:	Catalogue No.:	
ENG/A/111	Erasing shield, stainless steel type.		
1	Manufacturer:	Catalogue No.:	

ENG/A/112~12	3 Se	ptember 2022

ENG/A/113 25 Manufacturer: Catalogue No.: ENG/A/114 Cutting knife, scalpel type with disposable blades. Annufacturer: Catalogue No.: ENG/A/114 Cutting mat, A3 size, plastic, self-repairing. ENG/A/115 Show-me boards, A3 size, gridded, with dry wipe pens and eraser. ENG/A/116 Scissors 250mm stainless steel. Manufacturer: Catalogue No.: ENG/A/117 Scissors 140mm Manufacturer: Catalogue No.: ENG/A/118 Spray mount 400ml. Manufacturer: Catalogue No.: ENG/A/119 6 of each Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. ENG/A/121 S m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 ENG/A/123 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes. Manufacturer: Catalogue No.:		ENG/A/112~123			
ENG/A/113 25 Manufacturer: Catalogue No.: ENG/A/114 Cutting mat, A3 size, plastic, self-repairing. 25 Manufacturer: Catalogue No.: ENG/A/115 Show-me boards, A3 size, gridded, with dry wipe pens and eraser. 26 ENG/A/116 2 Manufacturer: Catalogue No.: ENG/A/117 Scissors 250mm stainless steel. 2 Manufacturer: Catalogue No.: ENG/A/117 Scissors 140mm 24 Manufacturer: Catalogue No.: ENG/A/118 Spray mount 400ml. 1 Manufacturer: Catalogue No.: ENG/A/119 6 of each Paddy mixed water-soluble paint 500ml (red, green, brown, black, blue, yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. ENG/A/121 Smanufacturer: Catalogue No.: ENG/A/121 Catalogue No.: ENG/A/121 Gatalogue No.: ENG/A/122 Catalogue No.: ENG/A/123 ENG/A/124 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: Catalogue No.: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.		50 m Surveyor's Fibre Measuring Ta	pe.		
25 Manufacturer: Catalogue No.: ENG/A/114 Cutting mat, A3 size, plastic, self-repairing. Manufacturer: Catalogue No.: ENG/A/115 Show-me boards, A3 size, gridded, with dry wipe pens and eraser. Manufacturer: Catalogue No.: ENG/A/116 Scissors 250mm stainless steel. 2 Manufacturer: Catalogue No.: ENG/A/117 Scissors 140mm Manufacturer: Catalogue No.: ENG/A/118 Spray mount 400ml. 1 Manufacturer: Catalogue No.: ENG/A/119 6 of each ENG/A/119 White foam board 3mm thick, 70x100cm. ENG/A/120 White foam board 3mm thick, 70x100cm. ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	1	Manufacturer:	Catalogue No.:		
ENG/A/114 25 Manufacturer: Catalogue No.: ENG/A/115 Show-me boards, A3 size, gridded, with dry wipe pens and eraser. Manufacturer: Catalogue No.: ENG/A/116 Scissors 250mm stainless steel. Manufacturer: Catalogue No.: ENG/A/17 Scissors 140mm Manufacturer: Catalogue No.: ENG/A/18 Spray mount 400ml. Manufacturer: Catalogue No.: ENG/A/19 6 of each Paragraphy of each Manufacturer: Catalogue No.: ENG/A/100 Catalogue No.: ENG/A/119 Catalogue No.: ENG/A/120 Catalogue No.: ENG/A/120 Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: ENG/A/120 Catalogue No.: ENG/A/120 Catalogue No.: ENG/A/121 Sim Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.		Cutting knife, scalpel type with disp	osable blades.		
ENG/A/115 Show-me boards, A3 size, gridded, with dry wipe pens and eraser.	25	Manufacturer:	Catalogue No.:		
ENG/A/115 Show-me boards, A3 size, gridded, with dry wipe pens and eraser. Manufacturer: Catalogue No.: ENG/A/116 Scissors 250mm stainless steel. Manufacturer: Catalogue No.: ENG/A/117 Scissors 140mm Manufacturer: Catalogue No.: ENG/A/118 Spray mount 400ml. Manufacturer: Catalogue No.: ENG/A/119 Ready mixed water-soluble paint 500ml (red, green, brown, black, blue, yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.		Cutting mat, A3 size, plastic, self-rep	pairing.		
25 Manufacturer: Catalogue No.: ENG/A/116 2 Manufacturer: Catalogue No.: ENG/A/117 3 Scissors 140mm Manufacturer: Catalogue No.: ENG/A/118 1 Manufacturer: Catalogue No.: ENG/A/119 6 of each Pala Search Pal	25	Manufacturer:	Catalogue No.:		
ENG/A/116 2		Show-me boards, A3 size, gridded, v	vith dry wipe pens and eraser.	_	
2 Manufacturer: Catalogue No.: ENG/A/117 Scissors 140mm 24 Manufacturer: Catalogue No.: ENG/A/118 Spray mount 400ml. Manufacturer: Catalogue No.: ENG/A/119 Ready mixed water-soluble paint 500ml (red, green, brown, black, blue, yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. 10 Manufacturer: Catalogue No.: ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	25	Manufacturer:	Catalogue No.:		
ENG/A/117 Scissors 140mm Manufacturer: Catalogue No.: ENG/A/118 Spray mount 400ml. Manufacturer: Catalogue No.: ENG/A/119 6 of each Yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	ENG/A/116	Scissors 250mm stainless steel.			
24 Manufacturer: Catalogue No.: ENG/A/118 Spray mount 400ml. Manufacturer: Catalogue No.: ENG/A/119 Ready mixed water-soluble paint 500ml (red, green, brown, black, blue, yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. Manufacturer: Catalogue No.: ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	2	Manufacturer:	Catalogue No.:		
ENG/A/118 Spray mount 400ml. 1 Manufacturer: Catalogue No.: ENG/A/119 Ready mixed water-soluble paint 500ml (red, green, brown, black, blue, yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. 10 Manufacturer: Catalogue No.: ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.		Scissors 140mm			
1 Manufacturer: Catalogue No.: ENG/A/119 Ready mixed water-soluble paint 500ml (red, green, brown, black, blue, yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. Manufacturer: Catalogue No.: ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	24	Manufacturer:	Catalogue No.:		
ENG/A/119 6 of each Vellow, white). Manufacturer: ENG/A/120 Vhite foam board 3mm thick, 70x100cm. Manufacturer: Catalogue No.: ENG/A/121 S m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	ENG/A/118	Spray mount 400ml.			
6 of each yellow, white). Manufacturer: Catalogue No.: ENG/A/120 White foam board 3mm thick, 70x100cm. 10 Manufacturer: Catalogue No.: ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. 1 Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. 12 Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	1	Manufacturer:	Catalogue No.:		
ENG/A/120 White foam board 3mm thick, 70x100cm. Manufacturer: Catalogue No.: ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.		1 '	Oml (red, green, brown, black, blue,		
10 Manufacturer: Catalogue No.: ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. 1 Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. 12 Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.		Manufacturer:	Catalogue No.:		
ENG/A/121 5 m Pocket Measuring Tape with 19mm blade. 1 Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. 12 Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	ENG/A/120	White foam board 3mm thick, 70x1	00cm.		
1 Manufacturer: Catalogue No.: ENG/A/122 Glue guns and 100 glue sticks. 12 Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	10	Manufacturer:	Catalogue No.:		
ENG/A/122 Glue guns and 100 glue sticks. 12 Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	ENG/A/121	5 m Pocket Measuring Tape with 19	mm blade.		
12 Manufacturer: Catalogue No.: ENG/A/123 Electronic Label maker, complete with tapes.	1	Manufacturer:	Catalogue No.:		
ENG/A/123 Electronic Label maker, complete with tapes.		Glue guns and 100 glue sticks.			
1	12	Manufacturer:	Catalogue No.:		
1 Manufacturer: Catalogue No.:	ENG/A/123	Electronic Label maker, complete wi	th tapes.		
	1	Manufacturer:	Catalogue No.:		

ENG/A/2001~2021 September 2022

	Section 2: General Workshop Equipment and Tools			
Code Quantity	Description ar	nd Specification	Cost (€) & Warranty Offered	
ENG/A/2001	Engineer's bench vice, cast iron with	c.100-125mm steel jaws.		
24	Manufacturer:	Catalogue No.:		
ENG/A/2002	Pair of fibre grips for ENG/A/201.			
24	Manufacturer:	Catalogue No.:		
ENG/A/2003	Engineers ball pein hammer, weight o	.500g min., 10 year warranty,		
24	Manufacturer:	Catalogue No.:		
ENG/A/2004	•	ead, wood/metal handle, 500 g (1 lb).		
1	Manufacturer:	Catalogue No.:		
ENG/A/2005	Carpenters mallet, c.115mm, min. 10	year warranty.		
4	Manufacturer:	Catalogue No.:		
ENG/A/2006	Engineers steel try square, blade 120	mm min. (min. 10 year warranty)		
24	Manufacturer:	Catalogue No.:		
ENG/A/2007	Woodwork try-square, blade length:	150mm min.		
2	Manufacturer:	Catalogue No.:		
ENG/A/2008	Engineers spring dividers, c.100-150	mm.		
24	Manufacturer:	Catalogue No.:		
ENG/A/2009	Engineer's fully integrated scriber, do	uble ended, c.175mm.		
24	Manufacturer:	Catalogue No.:		
ENG/A/2010	Engineers centre punch, c.100mm.			
24	Manufacturer:	Catalogue No.:		
ENG/A/2011	Engineer's jenny callipers, c.125mm,	firm friction joint, adjustable point.		
12	Manufacturer:	Catalogue No.:		
ENG/A/2012	Chisel, flat, c.150mm long.			
12	Manufacturer:	Catalogue No.:		
ENG/A/2013	Hacksaw frame, 300mm, adjustable o	or fixed type.		
24	Manufacturer:	Catalogue No.:		
ENG/A/2014 24	Junior hacksaw frame and blades, Str spring steel blade with precision blad			
	Manufacturer:	Catalogue No.:		
ENG/A/2015	Tenon saw, c.250mm – 300mm, stiffe	ening rib, min. 10 year warranty.		
6	Manufacturer:	Catalogue No.:		
ENG/A/2016	Hand file, 250mm long, smooth grade	e, double cut.		
24	Manufacturer:	Catalogue No.:		
ENG/A/2017	Hand file, 250mm long, bastard grade	e, double cut.		
24	Manufacturer:	Catalogue No.:		
ENG/A/2018	File card (wooden base type), c.100m	m x 50mm.		
24	Manufacturer:	Catalogue No.:		
ENG/A/2019	Universal bevel protractor, c.150mm	blade.		
5	Manufacturer:	Catalogue No.:		
ENG/A/2020	Surface plate, c.200mm-300mm squa	are or rectangular, machined surfaces.		
6	Manufacturer:	Catalogue No.:		

ENG/A/2022~2043 September 2022

ENG/A/2022~2	I		eptember 2022
ENG/A/2021	V-block and clamp, min. clamping cap	pacity 25mm.	_
4	Manufacturer:	Catalogue No.:	
ENG/A/2022	Centre square, capacity 40-50mm.		
2	Manufacturer:	Catalogue No.:	
ENG/A/2023	Toolmaker's clamp, c.100mm.		
2	Manufacturer:	Catalogue No.:	
ENG/A/2024 6	Height gauge 300mm, adjustable refescriber, accuracy +/- 0.03mm, 3 year	· · · · · · · · · · · · · · · · · · ·	
	Manufacturer:	Catalogue No.:	
ENG/A/2025	Precision vernier caliper, capacity c.1	50mm, digital reading.	
4	Manufacturer:	Catalogue No.:]
ENG/A/2026	Precision micrometer, capacity 0-25n	nm.	
4	Manufacturer:	Catalogue No.:	
ENG/A/2027 1	Internal micrometer set. Capacity: c.2 rods, spacing collar and fitted case: ac	25-55mm complete with extension	
	Manufacturer:	Catalogue No.:]
ENG/A/2028	Vernier depth gauge, c.150mm blade,	, reading 0.02mm.	
1	Manufacturer:	Catalogue No.:	1
ENG/A/2029	Precision micrometer, capacity 25-50	Omm.	
1	Manufacturer:	Catalogue No.:	1
ENG/A/2030		uated to read 0.01mm. Range c.8mm.	
1	Manufacturer:	Catalogue No.:	-
ENG/A/2031	Magnetic base holder for dial test ind		
1	Manufacturer:	Catalogue No.:	-
ENG/A/2032	Set of telescopic gauges, complete w		
1	Manufacturer:	Catalogue No.:	
ENG/A/2033	Slotted angle plate, size: c. 113mm x		
1	Manufacturer:		-
		Catalogue No.:	
ENG/A/2034 1	Feeler gauge, metric, e.g., 10 blades -	I	-
_	Manufacturer:	Catalogue No.:	
ENG/A/2035 1	Radius gauge, metric.	lo	1
	Manufacturer:	Catalogue No.:	
ENG/A/2036 5	Drill gauge, e.g., 0.5mm to 12mm x 0.		
	Manufacturer:	Catalogue No.:	
ENG/A/2037	Screw pitch gauge, ISO forms, metric	l	_
1	Manufacturer:	Catalogue No.:	
ENG/A/2038	Engineer's outside spring caliper, c.10	l .	
4	Manufacturer:	Catalogue No.:	
ENG/A/2039	Engineer's inside spring caliper, c.100	I]
4	Manufacturer:	Catalogue No.:	
ENG/A/2040	Wire gauge, 1-36 swg (0.19 – 7.6mm).	
1	Manufacturer:	Catalogue No.:	
ENG/A/2041	Set(s) of assorted flat and Philips head	d screwdrivers with plastic handles.	
4	Manufacturer:	Catalogue No.:	
ENG/A/2042	Combination pliers, c.200mm.		
4	Manufacturer:	Catalogue No.:	

ENG/A/2044~2065 September 2022

ENG/A/2044~2	2003	30	eptember 2022
ENG/A/2043	Heavy-duty electricians pliers with ins	sulated handles, c.150mm.	
4	Manufacturer:	Catalogue No.:	
ENG/A/2044	Slip joint pliers, chrome finish, c.230m	nm.	
2	Manufacturer:	Catalogue No.:	
ENG/A/2045	Flat nose pliers, c.160mm, insulated h	andles.	
2	Manufacturer:	Catalogue No.:	
ENG/A/2046	Round nose pliers, c.160mm, insulated	d handles.	
2	Manufacturer:	Catalogue No.:	
ENG/A/2047	Vice grips, c.250mm, lever release.	9	
4	Manufacturer:	Catalogue No.:	
ENG/A/2048	Sheet-metal vice grips, c.250mm, leve		
2	Manufacturer:	Catalogue No.:	
ENG/A/2049	Hand vice, spring type, c.100mm leng	-	
4	Manufacturer:	Catalogue No.:	
ENG/A/2050	Adjustable spanner, chrome finish, c.2		
2	Manufacturer:	Catalogue No.:	
ENG/A/2051		jaw ended), metric: e.g., 6 x 7 to 18 x	
2 2	19, chrome finish.	jaw ended, metric. e.g., 0 x / to 10 x	
	Manufacturer:	Catalogue No.:	
ENG/A/2052	Set of bi-hex sockets and accessories	(metric: e.g., 10 to 32 x 2mm).	
1	Manufacturer:	Catalogue No.:	
ENG/A/2053	Set of allen keys, e.g., 3mm - 10mm.		
2	Manufacturer:	Catalogue No.:	
ENG/A/2054	Riveting tool set, to include, snap, set		
1	Manufacturer:	Catalogue No.:	
ENG/A/2055	Riveting tool set, to include, snap, set	•	
1	-	Catalogue No.:	
ENG/A/2056	Riveting tool set, to include, snap, set		
1	Manufacturer:	Catalogue No.:	
ENG/A/2057	Pop riveting kit, complete with pliers	-	
1	Manufacturer:	Catalogue No.:	
ENG/A/2058	Set of number stamps, 3mm, set of 9,	Ü	
3	Manufacturer:	Catalogue No.:	
ENG/A/2059	Set of number stamps, 5mm, set of 9,	<u> </u>	
3	Manufacturer:	Catalogue No.:	
ENG/A/2060	Set of letter stamps, 3mm, set of 27, 0	-	
2	Manufacturer:	Catalogue No.:	
ENG/A/2061	Set of letter stamps, 5mm, set of 27, 0	5	
2 2	Manufacturer:	Catalogue No.:	
ENG/A/2062	Set of pin punches, e.g., 1.5mm to 8m		
ENG/A/2002 1	Manufacturer:	Catalogue No.:	
_		<u> </u>	
ENG/A/2063 4	Set of stocks, dies, taps and wrenches 12mm x 1mm. Circular die pattern. Se	~	
'	Manufacturer:	Catalogue No.:	
ENG/A/2064	Hand held engraver, variable speed.	Catalogue Hon	
2	Manufacturer:	Catalogue No.:	
	Manufacturer.	Catalogue IVO	

ENG/A/2066~2082 September 2022 ENG/A/2065 Set of five taps (taper, second and plug) for screw cutting 3mm, 4mm, 5mm, 6mm and 8mm ISO. min. 10 year warranty. 6 of each set Adjustable tap wrench to suit. Manufacturer: Catalogue No.: ENG/A/2066 Circular dies for screw cutting 3mm, 4mm, 5mm, 6mm and 8mm ISO. 6 of each set Stock to suit above dies. Min. ten year warranty. Manufacturer: Catalogue No.: ENG/A/2067 Set of drills, HSS, parallel shank, 1.0 to 13mm x 0.5mm. Set in case. 6 Catalogue No.: Manufacturer: ENG/A/2068 Set of drills, HSS, M.T. shank, 14 to 25mm x 1mm. 1 Catalogue No.: Manufacturer: ENG/A/2069 Set of counter sink drills, HSS, 6, 8, 10mm. Parallel shank 90°. 3 Catalogue No.: Manufacturer: ENG/A/2070 Set of c.5 hole-saws, complete with arbor, sizes from c.20mm to c.60mm 2 diameter. Manufacturer: Catalogue No.: ENG/A/2071 Set of combination centre drills, HSS, No. 1, 2, 3, 4, 5, 6, and 7. 60° angle 2 (Slocomb). Manufacturer: Catalogue No.: ENG/A/2072 Morse-taper sleeves, 3-2, 2-1. 1 Manufacturer: Catalogue No.: ENG/A/2073 Parallel machine reamers, parallel shank, e.g., 6 to 12 x 2mm steps. 1 Manufacturer: Catalogue No.: ENG/A/2074 Crosscut chisel, c.150mm. 2 Manufacturer: Catalogue No.: ENG/A/2075 Round nose chisel, c.150mm. 2 Manufacturer: Catalogue No.: ENG/A/2076 Diamond point chisel, c.150mm. 2 Manufacturer: Catalogue No.: ENG/A/2077 Miniature side cutter pliers, spring leaf mechanism, c.150mm. 2 Manufacturer: Catalogue No.: ENG/A/2078 Miniature top cutter pliers, spring leaf mechanism, c.150mm. 2 Manufacturer: Catalogue No.: ENG/A/2079 Chisels (firmer): min. 10 year warranty. 4 of each size 6mm 10_{mm} 18mm Manufacturer: Catalogue No.: ENG/A/2080 Chisels (bevel): min. 10 year warranty. 4 of each size 6mm 10mm 18mm Manufacturer: Catalogue No.: Bench plane, smooth, 50mm cutter, adjustable for depth of cut/alignment. ENG/A/2081 2 Manufacturer: Catalogue No.:

ENG/A/2083~2104 September 2022

ENG/A/2083~2			September 2022
ENG/A/2082 6	Cast iron bench blocks, rough machi x c.50mm.	ned on one face, c. 250mm x c.200mm	
	Manufacturer:	Catalogue No.:	
ENG/A/2083	Quarter litre manual pump oiler		
1	Manufacturer:	Catalogue No.:	
ENG/A/2084	Combination oilstone, c.200mm, coa	arse and fine faces.	
1	Manufacturer:	Catalogue No.:	
ENG/A/2085	Engineers steel try square, blade len	gth 200-250mm.	
1	Manufacturer:	Catalogue No.:	
ENG/A/2086	Hand files – 200mm bastard.		
24	Manufacturer:	Catalogue No.:	
ENG/A/2087	Hand files - 200mm smooth.		
24	Manufacturer:	Catalogue No.:	
ENG/A/2088	Hand files - 150mm bastard.		
24	Manufacturer:	Catalogue No.:	
ENG/A/2089	Hand files - 150mm smooth.		
24	Manufacturer:	Catalogue No.:]
ENG/A/2090	Half-round files – 250mm smooth.		
24	Manufacturer:	Catalogue No.:	
ENG/A/2091	Half round files – 250mm bastard.		
24	Manufacturer:	Catalogue No.:	1
ENG/A/2092	Half round files – 150mm smooth.		
24	Manufacturer:	Catalogue No.:	-
ENG/A/2093	Half round files – 150mm bastard		
24	Manufacturer:	Catalogue No.:	-
ENG/A/2094	Round files - 200mm smooth.		
24	Manufacturer:	Catalogue No.:	-
ENG/A/2095	Round files - 200mm bastard.		
24	Manufacturer:	Catalogue No.:	-
ENG/A/2096	Round files – 150mm smooth.		
24	Manufacturer:	Catalogue No.:	-
ENG/A/2097	Round files – 150mm bastard.		
24	Manufacturer:	Catalogue No.:	-
ENG/A/2098	Square files – 200mm smooth.	- Catalogue 11611	
24	Manufacturer:	Catalogue No.:	-
ENG/A/2099	Square files – 200mm bastard.	Gatalogue 110	
24	Manufacturer:	Catalogue No.:	1
ENG/A/2100	Square files – 150mm smooth.	- Catalogue Ho	
24	Manufacturer:	Catalogue No.:	
ENG/A/2101	Square files – 150mm bastard.	Catalogue 110	
24	Manufacturer:	Catalogue No.:	1
ENG/A/2102	Three-square files – 200mm smooth		
24	Manufacturer:		-
		Catalogue No.:	
ENG/A/2103 24	Three-square files – 200mm bastard		-
4 !	Manufacturer:	Catalogue No.:	

ENG/A/2105~2114			September 2022
ENG/A/2104 24	Warding files – 150mm smooth.		
	Manufacturer:	Catalogue No.:	
ENG/A/2105	Warding files – 150mm bastard.		
24	Manufacturer:	Catalogue No.:	
ENG/A/2106	Piercing saw frames.		
6	Manufacturer:	Catalogue No.:	
ENG/A/2107	Pack of blades for item ENG/A/2108	l.	
24	Manufacturer:	Catalogue No.:	
ENG/A/2108	File handle for 250mm file, plastic or wooden.		
90	Manufacturer:	Catalogue No.:	
ENG/A/2109	File handle for 200mm file, plastic or wooden.		
200	Manufacturer:	Catalogue No.:	
ENG/A/2110	File handle for 150mm file, plastic or wooden.		
240	Manufacturer:	Catalogue No.:	
ENG/A/2111	Hacksaw blade, 300mm, 24 T.P.I.		
200	Manufacturer:	Catalogue No.:	
ENG/A/2112	Set of c.6/12 assorted needle files.		
4	Manufacturer:	Catalogue No.:	
ENG/A/2113	Hacksaw blade junior type.		
200	Manufacturer:	Catalogue No.:	

ENG/A/301~303 September 2022

21(0),1(001 000				
Section 3: Power Tools				
Code Quantity	Description and Specification Note: Portable Tools to be supplied as cordless appliances only		Cost (€) & Warranty Offered	
ENG/A/301 2	Rechargeable, minimum 18 V, Portable Cordless Drill with case, to include charger and two batteries. Two year warranty.			
	Manufacturer:	Catalogue No.:		
ENG/A/302 1	Portable minimum 18 Volt Brushless Random Orbital Sander with outlet compatible with Dust Extractor, to include charger and two batteries.			
	Two year warranty.	Ι		
	Manufacturer: Catalogue No.:			

ENG/A/401~412 September 2022

Section 4: Electronics and Control Technology			
Code Quantity	Description a	nd Specification	Cost (€) & Warranty Offered
ENG/A/401 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 24 students. Manufacturer: Catalogue No.:		
ENG/A/402 6	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 mV to 600 V x 1V Current a.c and d.c - c.4 ranges each from 2 mA x 1 mA 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 mF 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 Two year warranty.		
	Manufacturer:	Catalogue No.:	
ENG/A/403 25	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.:	
ENG/A/404 30	All-in-one robotics board (for micro- Manufacturer:	computer specified in ENG/A/403). Catalogue No.:	
ENG/A/405 30	Straight single row PCB pin headers, specified in ENG/A/403).	2.54mm, 36-way (for micro-computer	
	Manufacturer:	Catalogue No.:	
ENG/A/406 30	Edge connector breakout board (for ENG/A/403).	micro-computer specified in	
	Manufacturer:	Catalogue No.:	
ENG/A/407	Jumper Wires 20cm Male / Female .		
90	Manufacturer:	Catalogue No.:	
ENG/A/408	Alligator Clip with Pigtail (4 Pack).		
90	Manufacturer:	Catalogue No.:	
ENG/A/409	Right Angle Geared Hobby Motor.		
60	Manufacturer:	Catalogue No.:	
ENG/A/410	Linear Actuator kit.		
60	Manufacturer:	Catalogue No.:	
ENG/A/411 1	Sensors for air and weather, colour a computer specified in ENG/A/403).	nd light, and sound (for micro-	
	Manufacturer:	Catalogue No.:	
ENG/A/412	Mini 180 Degree Resin Gear Servo.		
60	Manufacturer:	Catalogue No.:	

ENG/A/413~426 September 2022
ENG/A/413 Wall mount storage units for the workshop, High grade polypropylene

ENG/A/413 2	Wall mount storage units for the workshop, High grade polypropylene bins, 12x Small bins (75mm x 100mm x 110mm); 6x Medium bins (75mm x 100mm x 160mm); 6x Large bins (75mm x 100mm x 210mm)		
	Manufacturer:	Catalogue No.:	
ENG/A/414	Move mini buggy kit (for micro-comp	uter specified ENG/A/403).	
1	Manufacturer:	Catalogue No.:	
ENG/A/415 10 of each	Pack/kit of accessories suitable for el to miniature motor shafts): Pack of c.10 plastic wheels, various de Pack of c.10 plastic propellers, c.100 plack of c.10 2mm steel shafting Pack of c.10 3mm steel shafting Pack of c.10 miniature pulleys, various plack of c.10 plastic gears, various dia Pack of c.10 miniature worm gears.		
	Manufacturer:	Catalogue No.:	
ENG/A/416 24	Electric soldering iron, extra fine tip f and sponge, min. 30W, 220-240V. Two year warranty.	or electronics, complete with stand	
	Manufacturer:	Catalogue No.:	
ENG/A/417 6	and cleaning sponge, c.50 W, 220-24	ering iron/station, complete with stand 0V.	
	Two year warranty.		
ENIC /A /440	Manufacturer:	Catalogue No.:	
ENG/A/418 24	Miniature electronics tool kit, to cont strippers and screwdrivers, in approp	riate case.	
	Manufacturer:	Catalogue No.:	
ENG/A/419	Helping-hands for soldering work.	1	
4	Manufacturer:	Catalogue No.:	
8 ENG/A/420	LT variable voltage power supply unit Performance (approx.): DC - 0-25 V (no load) and 24V (8 A lo AC - 0-25 V (no load) and 24V (8 A lo Two year warranty. Manufacturer:	pad)	
ENG/A/421	D 11		
	De-soldering pump, portable type.		
2	Manufacturer:	Catalogue No.:	
2 ENG/A/422 2 of each		į	
2 ENG/A/422	Manufacturer: Single core wire, diameter, c.1.2mm x	į	
ENG/A/422 2 of each colour ENG/A/423 2 of each	Manufacturer: Single core wire, diameter, c.1.2mm x Black reels, Red reels, Blue reels. Manufacturer: Stranded wire, diameter, c.1.4mm x c Black reels, Red reels, Blue reels.	c.100 m length, to include: Catalogue No.:	
ENG/A/422 2 of each colour ENG/A/423	Manufacturer: Single core wire, diameter, c.1.2mm x Black reels, Red reels, Blue reels. Manufacturer: Stranded wire, diameter, c.1.4mm x c	c.100 m length, to include: Catalogue No.:	
ENG/A/422 2 of each colour ENG/A/423 2 of each	Manufacturer: Single core wire, diameter, c.1.2mm x Black reels, Red reels, Blue reels. Manufacturer: Stranded wire, diameter, c.1.4mm x c Black reels, Red reels, Blue reels.	Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.:	
ENG/A/422 2 of each colour ENG/A/423 2 of each colour ENG/A/424	Manufacturer: Single core wire, diameter, c.1.2mm x Black reels, Red reels, Blue reels. Manufacturer: Stranded wire, diameter, c.1.4mm x c Black reels, Red reels, Blue reels. Manufacturer: Extra flexible stranded wire, diameter	Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.:	
ENG/A/422 2 of each colour ENG/A/423 2 of each colour ENG/A/424	Manufacturer: Single core wire, diameter, c.1.2mm x Black reels, Red reels, Blue reels. Manufacturer: Stranded wire, diameter, c.1.4mm x c Black reels, Red reels, Blue reels. Manufacturer: Extra flexible stranded wire, diameter include: Red, and Black.	Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: Catalogue No.: r, c.2.8mm x c.100 m length, to Catalogue No.:	

ENG/A/427~433 September 2022

ENG/A/427~43	33		September 2022
ENG/A/426	Cable Mounting Sockets 20 way.		
24	Manufacturer:	Catalogue No.:	
ENG/A/427 50 50 50 50 50	Pack/kit of 4mm plugs and sockets, to 4mm Plug Red 4mm Socket Red 4mm Plug Black 4mm Socket Black		
	Manufacturer:	Catalogue No.:	
8NG/A/428 30 30 30 30 30 30 30 30	Pack/kit of battery holders and clips, 2XAA 4XAA 2XC 4XC 2XD 4XD PP3 battery snaps		
	Manufacturer:	Catalogue No.:	
ENG/A/429 5 150 150 150 150 150	Pack/kit of micro-miniature electroly: Variety capacitor kit suitable for simp 100uF 16v 220uF 16v 470uF 16v 1000uF 16v 2200uF		
	Manufacturer:	Catalogue No.:	
ENG/A/430 150 of each type	Resistors, to include: 270R 1K 2K2 4K7 10K 22K 33K 100K 150K 1M Manufacturer:	Catalogue No.:	
ENG/A/431	Potentiometers, to include:		
30 of each type	1K LIN 2200K LIN 10K LIN 47K LIN 100K LIN 1M LIN 100K LIN 100K LIN dual control (stereo)		
	Manufacturer:	Catalogue No.:	
ENG/A/432 1	Arm robot kit (for micro-computer sp Manufacturer:	ecified in ENG/A/403). Catalogue No.:	_
_	1 Idilalactarol.		

ENG/A/434~446 September 2022

ENG/A/434~44	ENG/A/434~446 September 2022			
ENG/A/433 100 of each type	Preset potentiometers (suitable for simple electronic circuit building), to include: 10K 22K 100K			
	Manufacturer:	Catalogue No.:		
ENG/A/434 80 of each type	Miniature motors, to include: High torque miniature motor, 3-6 V High power, 12 V motor Solar motor			
	Manufacturer:	Catalogue No.:		
ENG/A/435 200	Motor mount (e.g., self-adhesive) to s ENG/A/434.	uit miniature motors detailed in		
	Manufacturer:	Catalogue No.:		
ENG/A/436 10	Miniature multi-ratio gearbox and mokit form, motor to operate on c.1.5-4.	tor (clearbox motor), assembled OR in 5 V power supply.		
	Manufacturer:	Catalogue No.:		
ENG/A/437 10	Miniature worm drive gearbox with m to operate on c.1.5-4.5 V power supp	notor, assembled or in kit form, motor ly.		
	Manufacturer:	Catalogue No.:		
ENG/A/438	MES lamp (bulb), 6 V/60 mA, comme	cial grade.		
1000	Manufacturer:	Catalogue No.:		
ENG/A/439	MES lamp (bulb) holder, solder tags at	t base.		
1000	Manufacturer:	Catalogue No.:		
ENG/A/440	MES lamp (bulb) holder, spring loaded	d contact, fixing centres: c.23mm.		
1000	Manufacturer:	Catalogue No.:		
ENG/A/441 100 of each colour	Pack/kit of assorted colours MES lam Red Green Orange	p holders, to include:		
	Manufacturer:	Catalogue No.:		
ENG/A/442 200 of each item	5mm LED's and clips, to include: Red Yellow Green Flashing 5mm bezel panel clips (one piece). Silicone rectifier diode IN4001 1A, 50 Silicone rectifier diode IN5401 3A, 10 Seven segment LED display, common	00V max cathode, c.13mm		
ENIO (1 (1)	Manufacturer:	Catalogue No.:		
ENG/A/443 60	Light dependent resistor (ORP 12 spe			
	Manufacturer:	Catalogue No.:		
100 10	Pack/kit of assorted sizes of strip-boa 25mm x 64mm 119mm x 455mm			
	Manufacturer:	Catalogue No.:		
ENG/A/445 50	Pack/kit of breadboard, to include: 400 Tie points.			
	Manufacturer:	Catalogue No.:		

ENG/A/447~456 September 2022 ENG/A/446 Pack/kit of miniature relays, to include: DPDT 5A 30 of each type SPDT 5A SPDT 10A **DPDT8A** Manufacturer: Catalogue No.: ENG/A/447 Pack/kit of NTC thermistors, to include: 50 5 k ohm 50 2700 ohm Manufacturer: Catalogue No.: ENG/A/448 Pack/kit of general purpose transistors, to include: ZTX321 NPN specification BC108 NPN specification 100 of each type BFY51 NPN specification BC109 NPN specification TIP121 Darlington NPN specification Manufacturer: Catalogue No.: ENG/A/449 Pack/kit of linear integrated circuits (ICs), to include: 50 555 Timer 25 741 Op Amp 25 3140 Op Amp 15 556 7400 15 15 7490 Catalogue No.: Manufacturer: ENG/A/450 Pack/kit of miniature speakers, for example: 25 8 ohm 25 64 ohm 100 Buzzer, 6 V (leads) 25 Miniature piezo buzzer Manufacturer: Catalogue No.: ENG/A/451 Pack/kit of miniature switches, to include: Miniature toggle SPST Miniature toggle SPDT 75 of each type 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.: ENG/A/452 Pack/kit of miniature thyristors, to include: 50 TIC106D specification Manufacturer: Catalogue No.: ENG/A/453 Control knobs, to fit c.6mm shaft. 100 Catalogue No.: Manufacturer: Low-fume / colophony free solder, 500 g / 22 swg (0.71mm). ENG/A/454 10 Catalogue No.: Manufacturer:

ENG/A/457~461 September 2022

E110/A/ +57 +0	ENG/A/457~461 Septe		
ENG/A/455 6	Multiple drawer storage cabinets, pla drawer unit size.		
	Manufacturer:	Catalogue No.:	
ENG/A/456 24	Multi-compartment boxes (e.g., plastic type), suitable for storing of electronics circuits / components.		
	Manufacturer:	Catalogue No.:	
ENG/A/457 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.		
	Two year warranty.		
	Manufacturer:	Catalogue No.:	
ENG/A/458 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.:	
ENG/A/459 1	Robotic control technology, rover-sty Capable of object tracing and speech	le robot for demonstration purposes. recognition.	
	Manufacturer:	Catalogue No.:	
ENG/A/460 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.:	
ENG/A/461 1	the state of the s		
	Manufacturer:	Catalogue No.:	

ENG/A/501~507 September 2022

ENG/A/501~507 September 2022				
	Section 5: Structure and Mechanisms			
Code Quantity	Description and Specification		Cost (€) & Warranty Offered	
ENG/A/501 1	automobiles, etc. A number to include	chanisms, e.g., bridges, towers, model e appropriate power supply units.		
	Manufacturer:	Catalogue No.:		
3 of each pack/ set	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.:		
ENG/A/503 3 of each pack/ set	Pack/set of pulley's suitable for model building, preferably of the brass-hub type, to include: Pack of c.10 pulley's c.20mm diameter Pack of c.10 pulley's c.40mm diameter Pack of c.10 pulley's c.60mm diameter			
	Manufacturer:	Catalogue No.:		
ENG/A/504 10 of each pack	Pack of shafting/shaft converters to suit TECH/A/501 and TECH/A/502, to include: Pack of shaft converters (e.g., 6mm to 4mm and/or 4mm to 2mm) Pack of shafts (e.g., 6mm and/or 4mm shafts).			
	Manufacturer:	Catalogue No.:		
ENG/A/505 15 of each pack/set	Pack/set of plastic/wooden wheels suitable for model building/ construction work, to include: Pack plastic c.10 wheels c.60mm diameter Pack plastic c.10 wheels c.50mm diameter Pack wooden c.10 wheels c.25mm diameter Pack wooden c.10 wheels c.50mm diameter			
	Manufacturer:	Catalogue No.:		
ENG/A/506 1 box of each	M3 screws and nuts: Box M3 screws 6mm, pack of 100 Box M3 screws 12mm, pack of 100 Box M3 screws 25mm, pack of 100 Box M3 nuts, pack of 100 Box M3 washers, pack of 500			
	Manufacturer:	Catalogue No.:		
ENG/A/507 1 box of each	M4 screws and nuts: Box M4 screws 6mm, pack of 100 Box M4 screws 12mm, pack of 100 Box M4 screws 25mm, pack of 100 Box M4 nuts, pack of 100 Box M4 washers, pack of 500 Manufacturer:	Catalogue No.:		
	i i andidetarer.	Catalogue 140		

ENG/A/601~613 September 2022

	Section 6: Safety Equipment			
Code Quantity	Description ar	nd Specification	Cost (€) & Warranty Offered	
ENG/A/601 1	Wall-Mounted First Aid Cabinet c.37 equipped with minimum 24 person first Product available from PPE and First			
	Manufacturer:	Catalogue No.:		
ENG/A/602 1	Set of minimum 6 / Laminated wall-r Product available from PPE and First			
	Manufacturer:	Catalogue No.:		
ENG/A/603 30	Non-mist Safety Goggles, full ventilative marked to BS 2092. Product available from PPE and First	tion, suitable for use over spectacles, Aid Framework.		
	Manufacturer:	Catalogue No.:		
ENG/A/604 2		nders. To be supplied with two sets of rm to EN352/BS5108. Attenuation to Aid Framework.		
	Manufacturer:	Catalogue No.:		
ENG/A/605 12	Clearways face shields with adjustab protection while operating machine to Product available from PPE and First	tools etc. Kite marked to BS2092.		
	Manufacturer:	Catalogue No.:		
ENG/A/606 30	Student aprons suitable for workshop Product available from PPE and First	·		
	Manufacturer:	Catalogue No.:		
ENG/A/607	Soap/hand cream dispenser.			
1	Manufacturer:	Catalogue No.:		
ENG/A/608 2	Roll of Hazzard Warning Floor Tape, Product available from PPE and First			
	Manufacturer:	Catalogue No.:		
ENG/A/609 12	Lightweight safety spectacles with fu side shields, fitted with replaceable le Product available from PPE and First	ens to BS 2092. Aid Framework.		
EN 10 /4 / / 40	Manufacturer:	Catalogue No.:		
ENG/A/610 6	Pair Gloves for materials handlings, a and dirt repellent. Product available from PPE and First			
	Manufacturer:	Catalogue No.:		
ENG/A/611 6	Fume displacement unit, replaceable Hz.	filter type, bench mounted, 230 V, 50		
	Manufacturer:	Catalogue No.:		
ENG/A/612 6	Plastic bin, minimum 80 litres. Product available from PPE and First Aid Framework.			
	Manufacturer:	Catalogue No.:		
ENG/A/613 1	Roll of hand paper, 200mm wide, on Product available from PPE and First	Aid Framework.		
	Manufacturer:	Catalogue No.:		

ENG/A/614~620			eptember 2022
ENG/A/614 6	Gas welding goggles, kite marked to BS 2092 and BS 1542. Product available from PPE and First Aid Framework.		
	Manufacturer:	Catalogue No.:	
ENG/A/615 6	Heavy duty chrome leather apron, co hot metal working, e.g., welding, forg Product available from PPE and First	ing, casting, etc.	
	Manufacturer:	Catalogue No.:	
ENG/A/616	Arc-welding auto-darkening helmet.		
6	Manufacturer:	Catalogue No.:	
ENG/A/617 2	Pair heating resistant leggings for use Product available from PPE and First	o .	
	Manufacturer:	Catalogue No.:	
ENG/A/618 2	Soft soap/hand barrier cream dispensional mounting.	ser, rechargeable type, suitable for	
	Manufacturer:	Catalogue No.:	
ENG/A/619 4	ENG/A/619 Portable Welding Screens freestanding, self-supporting panels constructed		
	Manufacturer:	Catalogue No.:	
ENG/A/620	Industrial wet/dry vacuum; Robust electrical vacuum cleaner for wet and dry use for cleaning up dust, debris or water, minimum 1400-watt motor, minimum 20 litre capacity, Dust class category M rated to EN60335-2-69, for dust with workplace limit values > 0.1 mg/m3, to include HEPA Cartridge filter, minimum 3 meter hose, air flow sensor to indicate when the air flow is reduced by a clogged filter, full tank, etc., base includes wheels/castors for easy manoeuvring		
	Minimum two year warranty.		
	Manufacturer:	Catalogue No.:	

ENG/A/701~710 September 2022

Section 7: Metal Heating Equipment and Accessories			
Code Quantity	Description and Specification		Cost (€) & Warranty Offered
ENG/A/701	Smiths close mouth tongs, flat bit, ar	nd lightweight.	
1	Manufacturer:	Catalogue No.:	
ENG/A/702	Smith bolt type tongs, c.10mm, light	weight.	
1	Manufacturer:	Catalogue No.:	
ENG/A/703	Smiths square mouth tongs, c.10 m l	ightweight.	
1	Manufacturer:	Catalogue No.:	
ENG/A/704 1	Soldering iron heating stove, chamber type, suitable for two irons. Supplied complete with pizod spark ignitor, burner, burner tray and temperature controller.		
	Manufacturer:	Catalogue No.:	
ENG/A/705	Soldering iron, straight with handle, c.220 g.		
2	Manufacturer:	Catalogue No.:	
ENG/A/706	Soldering iron, straight with handle, c.500 g.		
2	Manufacturer:	Catalogue No.:	
ENG/A/707	Soldering iron, hatchet with handle, c.500 g.		
2	Manufacturer:	Catalogue No.:	
ENG/A/708 1	Electric fired kiln, max. temperature c.1000 °C. Overall dimensions c.420mm x c.300mm x c.245mm. Temperature indicator, removable burner tray and refractory tile. Five year on-site warranty to include parts and labour.		
	Manufacturer:	Catalogue No.:	
ENG/A/709	Tongs, scissor action, brass type, size		
1	Manufacturer:	Catalogue No.:	
ENG/A/710 1	Multi-use portable gas torch with ga screw-on burner, safety checked and	•	
	Three year on-site warranty to include	le parts and labour.	
	Manufacturer:	Catalogue No.:	

ENG/A/801~820 September 2022

	Section 8: Sheet Metal and Polymer Equipment			
Code Quantity	Description an	d Specification	Cost (€) & Warranty Offered	
ENG/A/801	Tinmans folding bars, c.250mm			
2	Manufacturer:	Catalogue No.:		
ENG/A/802	Tinmans snips: straight, c.200mm.			
2	Manufacturer:	Catalogue No.:		
ENG/A/803	Tinmans snips, straight, c.150mm.			
2	Manufacturer:	Catalogue No.:		
ENG/A/804	Tinmans snips, curved, c.200mm.			
2	Manufacturer:	Catalogue No.:		
ENG/A/805 1	Vacuum forming machine, bench top min. 450mm. Electrics – 230 V, 50 Hz	· · · · · · · · · · · · · · · · · · ·		
	Manufacturer:	Catalogue No.:		
ENG/A/806	Plastic faced hammer, c.25mm diamet	ter head.		
2	Manufacturer:	Catalogue No.:		
ENG/A/807	Copper and hide-faced hammer, c.40r	mm head.		
2	Manufacturer:	Catalogue No.:		
ENG/A/808	Rawhide mallet, c.40mm diameter hea	ad.		
2	Manufacturer:	Catalogue No.:		
ENG/A/809	Boxwood mallet, c.40mm diameter he	ead.		
2	Manufacturer:	Catalogue No.:		
ENG/A/810	Boxwood mallet, c.50mm diameter he	ead.		
2	Manufacturer:	Catalogue No.:		
ENG/A/811	Boxwood bossing mallet, c.50mm diar	meter head.		
2	Manufacturer:	Catalogue No.:		
ENG/A/812	Boxwood bossing mallet, c.60mm diam	meter head.		
2	Manufacturer:	Catalogue No.:		
ENG/A/813	Set of tinmans groovers, e.g., 5mm, 6r	nm, 7mm.		
1	Manufacturer:	Catalogue No.:		
ENG/A/814	Steel wire brush, e.g., 4-row type, fitte	ed with plain back.		
6	Manufacturer:	Catalogue No.:		
ENG/A/815	Plannishing hammer, c.125 g.	-		
2	Manufacturer:	Catalogue No.:		
ENG/A/816	Raising hammer, c.200 g.			
2	Manufacturer:	Catalogue No.:		
ENG/A/817	Collet hammer, c.200 g.			
2	Manufacturer:	Catalogue No.:		
ENG/A/818	Blocking hammer, c.200 g.	-		
2	Manufacturer:	Catalogue No.:		
ENG/A/819	Doming hammer, c.150 g.			
2	Manufacturer:	Catalogue No.:		
ENG/A/820	Repousse hammer, c.150 g.			
2	Manufacturer:	Catalogue No.:		
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ENG/A/821~83	60	September 2022

ENG/A/821	Set of repousse punches.		eptember 2022
1	Manufacturer:	Catalogue No.:	
ENG/A/822	Set of dotting punches.		
1	Manufacturer:	Catalogue No.:	
ENG/A/823	Set of engravers, different shapes in	set.	
1	Manufacturer:	Catalogue No.:	
ENG/A/824	Doming block, c.75mm cube.		
1	Manufacturer:	Catalogue No.:	
ENG/A/825	Leather sandbag, c.200mm dia.		
2	Manufacturer:	Catalogue No.:	
ENG/A/826	Leather sandbag, c.250mm dia.		
1	Manufacturer:	Catalogue No.:	
1	volt. To be supplied with: Wide clamping bar, narrow clamping bar, slotted clamping bar for shallow boxes, segmented clamping bar (finders), sheet support. Five year on-site warranty to include parts and labour.		
	Manufacturer:	Catalogue No.:	
ENG/A/828 1		steel up to c.1.2mm, c.1000mm blade de stop, minimum weight 140kg.	
	Manufacturer:	Catalogue No.:	
ENG/A/829 1	Plastic dip coating unit. Minimum cap with air blower and air pressure regul different colours of Polyethylene pov	ator together with 20 kg packs of two	
	Three year on-site warranty to includ	e parts and labour.	
	Manufacturer:	Catalogue No.:	
ENG/A/830 4			
	Three year on-site warranty to includ	e parts and labour.	
	Manufacturer:	Catalogue No.:	

ENG/A/901~915 September 2022

ENG/A/701 7.	Section 9: Welding Equipment and Accessories			
Code Quantity	Description and Specification		Cost (€) & Warranty Offered	
ENG/A/901	Welding set with six nozzles, c.1 to 7.			
1	Manufacturer:	Catalogue No.:		
ENG/A/902 1	Length of oxygen and acetylene hose complete with standard fittings.	, c.5 metres long x 8mm (or std) bore		
	Manufacturer:	Catalogue No.:		
ENG/A/903	Set of flashback arrestors (one for acc	etylene, one for oxygen).		
1	Three year on-site warranty to includ	e parts and labour.		
	Manufacturer:	Catalogue No.:		
ENG/A/904	Acetylene two stage regulator.			
1	Three year on-site warranty to includ	e parts and labour.		
	Manufacturer:	Catalogue No.:		
ENG/A/905	Oxygen two stage regulator.	9		
1	Three year on-site warranty to includ	e parts and labour.		
	Manufacturer:	Catalogue No.:		
ENG/A/906	Spindle key.	- and a second s		
1	Manufacturer:	Catalogue No.:		
ENG/A/907	Rubber wheeled welding trolley suita			
1	Manufacturer:	Catalogue No.:		
ENG/A/908	Set of tip cleaners.			
1	Manufacturer:	Catalogue No.:		
ENG/A/909 1	MIG welding set, wire size c.0.6-1.2m 250A.			
	Three year on-site warranty to includ	·		
	Manufacturer:	Catalogue No.:		
ENG/A/910 1	Electric arc welding set, fan cooled tr pH, 5 kVA.	ansformer output, c.220 A, 3 pH/1		
	Three year on-site warranty to includ	e parts and labour.		
	Manufacturer:	Catalogue No.:		
ENG/A/911 1	Welding kit to suit ENG/A/410 to inc chipping hammer, primary and earth	•		
	Manufacturer:	Catalogue No.:		
ENG/A/912	Spark Lighter.			
1	Manufacturer:	Catalogue No.:		
ENG/A/913	G cramp, c.100mm.			
4	Manufacturer:	Catalogue No.:		
ENG/A/914	G cramp, c.200mm.			
2	Manufacturer:	Catalogue No.:		
ENG/A/915 1	c.500mm. Built in timer, 230V, 1 pH,	n max. thickness, max. length of arms		
	Two year warranty.			
	Manufacturer:	Catalogue No.:		

ENG/A/916

ENG/A/916

150mm magnetic welding holder.

6

Manufacturer:

Catalogue No.:

ENG/A/1001~1019 September 2022

Section 10: Pneumatics Equipment Control			
Code Quantity	Description a	nd Specification	Cost (€) & Warranty Offered
ENG/A/1001 1	Pneumatic modular board to allow for components ENG/A/1002-1010 bel		
	Manufacturer:	Catalogue No.:	
ENG/A/1002	Single-acting cylinder, c.20mm bore,	c.50mm stroke.	_
12	Manufacturer:	Catalogue No.:	
ENG/A/1003	Double-acting cylinder, c.20mm bore	e, c.50mm stroke.	
2	Manufacturer:	Catalogue No.:	
ENG/A/1004	Five port valve.	_]
12	Manufacturer:	Catalogue No.:	
ENG/A/1005	Flow control valves (restrictors).		
12	Manufacturer:	Catalogue No.:	
ENG/A/1006	3/2 pushbutton valves.		
12	Manufacturer:	Catalogue No.:	
ENG/A/1007	Visual indicators.		
6	Manufacturer:	Catalogue No.:	
ENG/A/1008	Limit switch (roller lever activated).		
6	Manufacturer:	Catalogue No.:]
ENG/A/1009	Reservoir (45 cm3 capacity).		
2	Manufacturer:	Catalogue No.:	
ENG/A/1010	Manifold, c.8mm x c.4mm outlet.		
2	Manufacturer:	Catalogue No.:	1
ENG/A/1011	Air compressor, c.8 bar, c.5 litres/m,	c.24 litre receiver.	
1	Two year warranty.		
	Manufacturer:	Catalogue No.:	
ENG/A/1012	Nylon tube, c.4mm diameter, red, 10		
1	Manufacturer:	Catalogue No.:	1
ENG/A/1013	Nylon tube, c.4mm diameter, blue, 1		
1	Manufacturer:	Catalogue No.:	
ENG/A/1014	Nylon tube, c.4mm diameter, clear, 1		
1	Manufacturer:	Catalogue No.:]
ENG/A/1015	Safety cutter, to suit cutting of nylon		
2	Manufacturer:	Catalogue No.:	
ENG/A/1016	Equal T-connectors.		
12	Manufacturer:	Catalogue No.:	1
ENG/A/1017	Equal elbow connectors.		
12	Manufacturer:	Catalogue No.:	
ENG/A/1018	Blanking plugs to suit ENG/A/1016-	•	
24	Manufacturer:	Catalogue No.:	j
ENG/A/1019	Basic pneumatics system construction seven users.	-	
_	Manufacturer:	Catalogue No.:	

ENG/A/1101~1113 September 2022

Section 11: Paint Brushes, Sweeping Brushes and Dispensers			
Code Quantity	Description and Specification		Cost (€) & Warranty Offered
ENG/A/1101 12 of each size	Paint Brushes: 12mm, 25mm, 38mm, 50mm		
	Manufacturer:	Catalogue No.:	
ENG/A/1102	Paint Brush Pencil Lark/Crow.		
1	Manufacturer:	Catalogue No.:	
ENG/A/1103	25mm Paint Brush Fitches consisting	1/round, 1/lining, 1/flat and 1/bent.	
1	Manufacturer:	Catalogue No.:	
ENG/A/1104 24	Banister type c.300mm X 50mm flat-backed Bench Brush. Resin set pure bristle.		
	Manufacturer:	Catalogue No.:	
ENG/A/1105	600mm Sweeping Brush with Handle.		
4	Manufacturer:	Catalogue No.:	
ENG/A/1106	Galvanised bucket, c.10 litre capacity.		
1	Manufacturer:	Catalogue No.:	
ENG/A/1107	Plastic funnel, c.100mm diameter.		
1	Manufacturer:	Catalogue No.:	
ENG/A/1108	300mm X 200mm Square Mouth 700	Omm Handled Shovel.	
1	Manufacturer:	Catalogue No.:	
ENG/A/1109	Heavy-duty Plastic Bucket c.10 litre	capacity.]
2	Manufacturer:	Catalogue No.:	
ENG/A/1110	Large Plastic Dust/Litter Bin with Lid	capacity c.80 litres.	
6	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.

September 2022

Equipment for Engineering ENG/A			
Section	Code	Description and Specifications:	Total Cost €:
Section 1	ENG/A/101-123	Drawing and Design	
Section 2	ENG/A/2001-2113	General Workshop Equipment and Tools	
Section 3	ENG/A/301- 302	Power Tools	
Section 4	ENG/A/401- 461	Electronics and Control Technology	
Section 5	ENG/A/501- 507	Structures and Mechanisms	
Section 6	ENG/A/601- 620	Safety Equipment	
Section 7	ENG/A/701-710	Metal Heating Equipment and Accessories	
Section 8	ENG/A/801-830	Sheet Metal and Polymer Equipment	
Section 9	ENG/A/901- 916	Welding Equipment and Accessories	
Section 10	ENG/A/1001- 1019	Pneumatics Equipment	
Section 11	ENG/A/1101- 1110	Paint brushes, Sweeping brushes and Dispensers	

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.

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 oth requirements/conditions specified in this tender document. I/We hold a current tax clearance certificate.		
Company:	_	
Signed:	Date:	
Position:		

ENG/B/101~109 September 2022

Engineering Equipment List B

Section 1: Machine Tools and Storage

Code Quantity	Description and Specification		Cost (€) & Warranty Offered
ENG/B/101 1	Bandsaw Floor-standing, Min. Cutting Height 310mm, Min. Cutting Width 420mm, Tilting Table to 45 degrees, Rip Fence Aluminium on Cast Iron Mounting with Steel rail, slot in work table to accept mitre guide, mitre guide to be supplied, Upper and Lower Precision Guides in steel, DC Electronic Brake Unit and over load protection, Non- latching emergency stop on bottom of frame, Locks on Door, minimum 3HP, 3 phase Bi-metal (M42) blade to be supplied for metal cutting, GP 3/8" (10mm) x 8 TPI Carbon steel Blade for cutting plastics Follow Health & Safety advice regarding use of this machine and age restrictions on its use; Statutory Instruments (SI) No. 36 of 2016 Safety, Health and Welfare at Work (General Application) (Amendment) Regulations 2016 Five year on-site warranty to include parts and labour.		
	Manufacturer:	Catalogue No.:	
ENG/B/102 2	Scroll Saw, 450mm, with tilt table, variable speed motor, sawdust blower, workpiece hold-down and blade guard attachment. Motor c.120-200 W, 230 V. Three year on-site warranty to include parts and labour.		
ENG/B/103 2			
	Manufacturer:	Catalogue No.:	
ENG/B/104	Lever shearing machine, capacity 6mm strip, c.12mm round.		
1	Five year on-site warranty to include	parts and labour.	
	Manufacturer:	Catalogue No.:	
ENG/B/105 1	Horizontal band saw (mobile), c.200mm cutting capacity, cast iron arm, precision saw blade guide, hinged joint in pre-taper roller bearings, capable of variable speed 380 V 3 pH / 230 V 1 pH. Five year on-site warranty to include parts and labour.		
	Manufacturer:	Catalogue No.:	
ENG/B/106 2	Drilling machine, pedestal model, capacity in steel c.20mm. All geared variable spindle speeds. Complete with fitted keyless drill chuck, key and chuck guard. Electrics 3 pH, 380V, 50Hz. Supplied complete with starter/isolator. Minimum weight 120kg.		
	Five year on-site warranty to include	i	
	Manufacturer:	Catalogue No.:	

ENG/B/110~115 September 2022 Drill grinding attachment, c.6 to 25mm. ENG/B/107 1 Catalogue No.: Manufacturer: Injection Moulding Machine: for demonstration of injection moulding ENG/B/108 principles; bench top/portable model suitable for school use; set of 4 moulds for production of objects up to c.20 g; 2 kg of suitable polymer granules. 230 V, 50 Hz. Three year on-site warranty to include parts and labour. Manufacturer: Catalogue No.: ENG/B/109 Low cost tensile testing/extensometer machine, portable/bench mounted 1 type. Three year on-site warranty to include parts and labour. Manufacturer: Catalogue No.: ENG/B/110 Impact testing Simulation software (education version) capable of carrying 1 out Izod/Charpy/tensile impact testing on various materials. Three year on-site warranty to include parts and labour. Manufacturer: Catalogue No.: Low cost non-destructive magnetic particle testing kit. ENG/B/111 1 Two year warranty. Catalogue No.: Manufacturer: ENG/B/112(A) Centre Lathe. All metric indexing. Centre height: c.140mm to 180mm 3 to admit c.500mm to 1000mm between centres. Fully enclosed oil bath gearbox with provision for cutting screw thread pitches in millimetres. Range of spindle speeds (typical speeds; 36-1600/40-2500 rpm). Spindle bore, c.38mm min. Foot-operated brake/switch, no more than 24V to control buttons, c.1-2.2 kW electric motor. Electric supply 380 V, 3 pH, 50 Hz. Machine to be mounted on steel cabinet base and supplied complete with starter/isolator. The following total number of accessories should be supplied with the lathe and, where possible, fitted. a) Pump, tank and fittings. Quick change tool-post. b) Carbide tooling package to suit lathe, to include: right hand tool holder, boring bar (c.12mm), parting-off block, combination knurling tool and blade. All tooling should have independent tool holders Appropriate carbide inserts for tooling package at c. d) e) Multi-head knurling tool with fine, medium and coarse knurls. Three jaw self-centering chuck, c.110mm. Chuck complete with key and set of reversible jaws. Four jaw independent chuck, c.150-200mm, complete with key. g) Drill chuck, c.13mm capacity complete with key and arbor. Keyless Chuck to suit tailstock of lathe. i) Morse taper centres - one live centre and one dead centre. Face plate, c.150-300mm. j) k) Travelling steady, and fixed steady – 3 point. I) Angle poise low voltage lamp. Set of spanners. m) n) Operator handbook. Set of anti-vibration pads - fitted to lathe. 0) Digital read outs fitted also Five year on-site warranty to include parts and labour. Manufacturer: Catalogue No.:

ENG/B/116			September 2022
	Schools can have the option of reducing the quantity of Centre Lathes (ENG/B/112(A)) to two and getting a Mill Drill instead, spec detail below: The schools choice should be clear on the tendering documents.		
ENG/B/112(B)	Pedestal Drill / Milling Machine with	n gearbox	
	 Heavy, solid cast design Quality industrial electric motor Drilling depth stop Thread cutting function User-friendly control panel with emergency stop button Shaft milling cutter approx. 28mm Milling table size approx. 750mm x 250mm X-axis travel 400mm, Y-axis 200mm Spidle reach min. 250mm Spidle type: MT4 Spindle speed range: Approx. 100-1500 min-1 Spindle quill diameter: Approx. 70mm To be supplied with 3 suitable mill cutting drill bits Five year on-site warranty to include parts and labour. 		
	Manufacturer:	Catalogue No.:	
ENG/B/113(A) 2	Tool storage presses for hand tools, lockable, approximate size 1900mm x 1000mm x 500mm. These to be supplied with cut-out slots. Manufacturer: Catalogue No.: OR Tool storage presses for hand tools, lockable, approximate size 1900mm x 1000mm x 500mm. These to be supplied with storage trays		
ENG/B/113(B) 2			(
	Manufacturer:	Catalogue No.:	
ENG/B/114 1	Mobile tool cabinet, c.1000 \times c.500 \times c.350mm, all metal construction complete with fitted drawer and lock.		
	Manufacturer:	Catalogue No.:	

ENG/B/201~204 September 2022

Section 2: Digital Technologies and Computer Aided Manufacturing (CAM)			
Code Quantity	Description and Specification		Cost (€) & Warranty Offered
ENG/B/201 1	Laptop suitable to run CNC, laser cutter and 3D printer, to be supplied with a case and wireless optical mouse. T4/ DCG laptop specification. Purchasing details; https://www.pdsttechnologyineducation.ie/en/Technology/Purchasing-Frameworks/ Three year warranty.		
	Manufacturer:	Catalogue No.:	
ENG/B/202 1	Visualiser: Min. 13 MP Lens, Up to 2 coverage A3 + (533x330mm), USB I Five year warranty.	IK at 30 fps Video, Built-In Mic, nterface & Power Connection to a PC.	
	Manufacturer:	Catalogue No.:	
ENG/B/203 1	3D Printer: Min area 200mm x 200mm x 200mm, 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. Three year on-site warranty to include parts and labour.		
	Manufacturer:	Catalogue No.:	
ENG/B/204 1	Bench mounted computer numerically controlled (CNC) slant bed educational training lathe: max. machining diameter c.55mm, travel in x-axis: c.50mm, travel in z-axis: c.250mm, typical spindle speed range: c.100-4000 rpm. Electric supply: 110/230 V, 1 pH, 50/60 Hz. Machine to be compatible with standard computer hardware, operating system/CADCAM software, educational (NOT industry standard), must provide simulation and be multi user platform, fully enclosed working area, operator's handbook. Appropriate tooling package to cater for standard lathe operations to be included. Note: Details of specification of computer required to operate to be furnished to school. Five year on-site warranty to include parts and labour.		
	ONE ONLY TO BE SUPPLIED PER SCHOOL		
	Manufacturer:	Catalogue No.:	

ENG/B/205		September 2022
ENG/B/205 1		
	Three Year on-site warranty on machine and CO2 tube.	
	NOTE:	
	Only 1 laser cutter to share between Engineering, Technology and Construction Studies room.	
	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.	
	Location of laser cutter is identified on each of the room layouts.	
	Catalogue No.:	

 $\underline{\text{Note:}}$ 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 Engineering ENG/B			
Section Code Description and Spe		Description and Specifications:	Total Cost €:
Section 1	ENG/B/101-114	Machine Tools and Storage	
Section 2 ENG/B/201-205 Digital Technologies and Computer Aided Manufacturing			

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

September 2022

Standards, Specifications and Conditions

All Equipment shall be Durable and Safe for School Use.
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Officers from the Department of Education.

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, S	Specifications & Conditions:
I/We certify that the equipment tendered complies in all respects requirements/conditions specified in this tender document. I/We hold a current tax clearance certificate.	with the Standards, Specifications and other
Company:	
Signed:	Date:
Position:	

Statutory Instruments (SI) No. 36 of 2016 Safety, Health and Welfare at Work (General Application) (Amendment) Regulations 2016

Notes regarding Training, instruction and information are detailed in Statutory Instruments (SI) No. 36 of 2016 Safety, Health and Welfare at Work (General Application) (Amendment) Regulations 2016. This full document should be considered if a school is using the machines outlined in the document.

A few key notes include:

An employer shall ensure that an employee who operates a woodworking machine—

- o (a) has been trained in operating the machine,
- o (b) has received instruction in accordance with paragraph (2)(a), and
- o (c) has been provided with the information specified in paragraph (2)(b).
- An employer shall ensure that in advance of operating a wood-working machine an employee shall—
 - (a) receive instruction on-
 - (i) the dangers arising in connection with the machine, the precautions to be observed and the requirements of the Regulations in this Part which apply to the machine,
 - (ii) how to use the guards and any other protection measures required to be provided by Regulation 199 and Regulations 201 to 207 which relate to the machine, and
 - (iii) (iii) procedures for setting up, adjusting, using and cleaning the machine, and
 - (b) be provided with information on the use of the machine, including where relevant—
 - the speed, range, type and dimensions of tools suitable for the machine, (ii) any limitation on the cutting speeds of the machine, particular operations or size and material of any workpiece,
 - (iv) procedures relating to the repair or replacement of any guard or protection device,
 - (v) the availability, suitability and use of any additional protection device, (v) safe methods of handling tools, 8 [36]
 - (vi) correct procedures for start-up, shutdown and isolation of the machine, taking into account the time required for all parts of the machine to come to a halt, (vii) procedures for cleaning the machine,
 - (vii) procedures for setting or adjusting any guard, tool, clamp or other part of a machine, and
 - (viii) in the case of CNC machines, programming.