

Telephone national (1) 577.16.10
international 33 1 577.16.10
Cables : Unesco-Paris
Telex : 201539 F UNESOP

PURCHASE ORDER

UNITED NATIONS
EDUCATIONAL, SCIENTIFIC AND
CULTURAL ORGANIZATION

7, Place de Fontenoy
75700 PARIS
FRANCE

16.12.84
IMPORTANT - All shipments, correspondence and invoices must show the following purchase order number.

PEC 5/ANC/82/002/812230.3

Vendor: **PHILIPS HARRIS (INTERNATIONAL) LIMITED**
Lynn Lane
SHINSTONE, Staffordshire, WB14 0RE
U. K.

Despatch date

Commence 10.01.84
Balance 15.03.84

Consignee: **Resident Representative of the UNDP**
(Address to) **P.O. Box 9182**
DAR-ES-SALAAM, TANZANIA
For UNDP Project: **ANC/82/002**

Budget code

ANC/82/002/4501

Location code

01

Obligate
N/Y

Plus
%

Country code of
Supplier Currency

Insurance
%

Y

15

870

870

-

Shipping agent: **Contact shipping agent: Cargo Superintendents**
(London) Ltd., Freight Forwarding Div., 29 Cambridge Park,
Wanstead, London E11 2PU, for shipping instructions.

Summary description (max. 30 characters)

LABORATORY EQUIPMENT

Despatch: **Shipping agent to pay freight & invoice Unesco for**
DESPATCH FREIGHT PREPAID by ocean freight to Dar-Es-Salaam.

Marking

UNESCO ANC/82/002/812230.3
SONAFCO

ALL CASES MUST BEAR THIS MARKING AND FULL ADDRESS OF CONSIGNEE

Terms of payment:

In UK£ within 30 days of receipt of your ORIGINAL INVOICE at Unesco (see instruction 4)
and subject to proof of despatch, which will be provided by our shipping agent.

Distribution of documents:

Shipping agent to distribute documents as follows:
3 original bills of lading, 3 commercial invoices, 3 packing lists,
to be sent to consignee at address above by registered airmail; one copy of each of these
documents to Mr. A. Bagunywa, Project Co-ordinator, ANC/82/002, c/o UNDP Office,
P.O. Box 9182, Dar-Es-Salaam, Tanzania, and one copy of shipping documents and packing
list to Unesco Paris, as proof of despatch.

Order summary:

This order includes **314** item(s) as per continuation sheet(s)
with the prices based upon your **quotation MFB/JDC/8949;**
dated 17 Nov. 83.

Amount

UK£ 15.669.53 FOB UK PORT.
Export packing included.

Special notes to vendor:

To facilitate clearance of equipment, each case or parcel must have a
cross painted in red on the same side on which the consignee's address and markings
appear. This cross must be at least one foot, or 30 centimeters, in length.

Please give urgent delivery to this equipment.

CERTIFICATION : I certify that all items have been received in good condition except as noted below :

UNESCO
APPROVAL

Signature and Title

date

date

16.12.1984

Notes to CPX/PEC:

RECEIVED

16.12.84

Action

The vendor shall not advertise or otherwise make public the fact that such a vendor is a supplier to Unesco. Also the vendor shall in no other manner whatsoever use the name, emblem or official seal of Unesco or any abbreviation of Unesco in connexion with his business or otherwise.

Copy N° 5 - Receiving Report - SIGN AND RETURN TO CPX/PEC ON COMPLETION

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ORDRE D'ACHAT (suite) - PURCHASE ORDER (cont.)

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX. N. EX.
					UK£	
1.	C12762/3 Harris Lever Balance, Dual Range 0-2500 x 26, 0-10000 x 100	1	EA		43.42	
2.	C13819/0 OHaus Port-0-Gram Balance C3000M, 3000G X 1.06	1			375.46	
3.	C13980/7 Fortin Barometer, 7mm. Bore, Range 600-810 MM. HG. (26-32in. HG.) X0.05MM. (0.002in)	1			234.00	
4.	Z99999/3 Barometer case for Above polished Hardwood with glazed front and sides having lock and key. Darton 59	1			67.83	
5.	B16800/9 Barometer, Aneroid 100MM Dial, 27.5 to 31.5 x 0.1 in HG, 940 to 1060 X 2 MB	1			16.48	
6.	P51880/9 Daniell Cell	1			23.20	
7.	P68140/9 Accumulators, 'Exide', multi-plate type LC P 9 2V 40AMP/HR	2		28.39	56.78	
8.	P68260/9 Battery with 4MM. socket 12V 34 AMP/HR	1			43.87	
9.	P68340/7 Hydrometer, Accumulator, lead/Acid	4			2.37	
10.	P68860/0 Dry cell, heavy duty, 1.5V, HP2	50		.50	25.00	
11.	P69120/5 Battery, 'Transistor power pack' 9V, type PP9	4		1.46	5.84	
12.	Z99999/3 Mercury cells 1.4V RM401H Pack of two	1	pk2		1.13	
13.	P69460/0 Cell Holder for four batteries	10	EA	9.35	93.50	
14.	C16710/4 Beakers, Squat form, graduated, Borenil. 250 cm 3.	24		.57	13.68	
15.	C16770/0 Beakers, Squat form, graduated, Borenil. 600cm 3	12		.80	9.60	

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					UK£	
16.	C16810/8 Beakers, Squat form, graduated, Borosil. 1000cm 3	12		1.40	16.80	
17.	C23100/1 Bunsen burner, natural gas height 118MM Tube DIA 13MM with air regulator	12		4.32	51.84	
18.	C27620/3 Dusters, soft cotton, 500 X 500MM	5		.77	3.85	
19.	C27760/8 Disposable laboratory cloths	1	pk50	4.70	4.70	
20.	P33660/4 Lens tissue, Whatman 150 X 100MM	25	wlt of 25 SHT	.66	16.50	
21.	C28500/9 Hoffmann Clips, 30 MM	10	EA	1.19	11.90	
22.	C73406/6 Stoppers, cork, assorted Top Dia 8-36MM. Pkts of 1 gross	1	PK144		8.46	
23.	C73740/1 Cork borers, set of 12 N/P brass diam range 5-19 MM	1	set	19.35	19.35	
24.	C73760/7 Cork borer sharpener for borer diam 5 - 24MM	1	EA		3.39	
25.	C31480/0 Cylinders measuring (B.S. 604, class B) Glass, 100 CM3 X 1CM3	5		1.67	8.35	
26.	C31500/2 Cylinders, measuring (B.S. 604, class B) glass. 250 CM3 X 2 CM3	5		3.03	15.15	
27.	C31540/3 Cylinders, measuring (B.S. 604, class B) Glass, 1000 CM3 X 10 CM3	2		7.01	14.02	
28.	P75640/9 Plug, standard 13A 3-PIN	60		0.96	57.60	
29.	P71900/1 Crocodile Clip	96	pk10	1.30	124.80	
30.	P71082/4 Banana plug, yellow	40	EA	0.46	18.40	
31.	P71082/4 Banana plug red	40		0.46	18.40	

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					UK£	
32.	P71080/0 Banana plug black	40		0.46	18.40	
33.	P70640/7 Spade terminal adapter, Red	9	pk90	11.02	99.18	
34.	P70620/1 Spade terminal adapter, Black	9	pk10	12.26	110.34	
35.	P69205/6 Battery clip to fit PP3 or PP6 batteries complete with 180 MM leads	50	EA	0.48	24.00	
36.	P71080/0 Banana plug, Black	50		0.46	23.00	
37.	P71082/4 Banana plug, Red	50		0.46	23.00	
38.	P71552/4 Stackable plug lead, 100 MM, Red	30		0.92	27.60	
39.	P71550/0 Stackable plug lead, 100MM, Black	30		0.92	27.60	
40.	P71564/0 Stackable plug lead, 500MM, Red	30		1.03	30.90	
41.	P71562/7 " " " , 500MM, Black	30		1.03	30.90	
42.	P71566/4 " " " , 500MM, Yellow	30		1.03	30.90	
43.	P71570/6 " " " , 750MM, Red	40		1.07	42.80	
44.	P71568/8 " " " , 750MM, Black	40		1.07	42.80	
45.	P71572/9 " " " , 750MM, Yellow	40		1.07	42.80	
46.	Z99999/3 Fuses 1.1/4 X 1/4 inch 1A RS412-251	10	pk10	0.97	9.70	
47.	P76360/9 Cartridge fuses, 20MM long X 5MM Quick-Blow 1A	10	pk10	2.17	21.70	
48.	P76380/4 Cartridge fuses, 20MM long X 5MM Quick-Blow 2A	10	pk10	2.17	21.70	
49.	P76400/6 " , 3.15A	10	"	2.17	21.70	
50.	P76420/1 " , 5A	10	"	2.17	21.70	
51.	Z99999/3 Fuses anti surge type 20X5MM 100MA RS412-346	10	"	4.34	43.40	
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						UK£	
52.	Z99999/3	Fuses anti surge type 20X5MM 160MA RS412-857	10	pk 10	4.01	40.10	
53.	Z99999/3	Fuses anti surge type 20X5MM 315MA RS412-728	10	"	2.09	20.90	
54.P	P76460/2	Cartridge fuses 20MM long X 5MM Slow-Blow (anti-surge) 500MA	10		2.38	23.80	
55.	Z99999/3	Fuses anti surge type 20X5MM 1A RS412396	10		2.09	20.90	
56.	Z99999/3	Fuses anti surge type 20X5MM 2A RS412403	10		2.09	20.90	
57.	C82942/3	Insulating tape, Black P.V.C, in rolls of 20 metre, 19MM wide	6	rolls	0.96	5.76	
58.	P75860/2	Contact key, single	4	EA	7.88	31.52	
59.	P75900/9	Lever switch, two-way	4		12.98	51.92	
60.	P77892/3	Lampholder mounted S.B.C. brass	4	1	12.97	51.88	
61.	P72150/0	Copper wire, bare, 1.60MM 16 SWG	1	500G		7.82	
62.	P72270/9	" " , 0.7MM 22 SWG	1	500G		9.06	
63.	P72350/8	" " , 0.45MM 26 SWG	1	"		8.44	
64.	P72410/0	" " , 0.28MM 32 SWG	1	250G		7.15	
65.	P74190/0	Eureka/Constanta wire, bare, 0.45MM 26 SWG	2	125G	5.42	10.84	
66.	P74510/3	Eureka/Constanta wire, double rayon covered 0.4MM 26 SWG	2	125G	7.21	14.42	
67.	P73880/9	Nichrome wire, bare 0.45MM 26 SWG	2	"	10.98	21.96	
68.	P73940/1	" " 0.28MM 32 SWG	2	"	9.06	18.12	

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX. N°
					UK£	
69.	P74811/6 Bell wire, twin, stranded copper wire PVC insulated	2	10M lengths	1.76	3.52	
70.	P74910/8 Wire, flexible, single, red insulation P.V.C. 5A	2	"	1.91	3.82	
71.	P74890/6 " Black insulation	2	"	1.91	3.82	
72.	P74811/6 Bell wire, twin, stranded copper wire PVC insulated	2	"	1.76	3.52	
73.	P58860/5 Rheostat, single tube, open 11.6 OHM 5A 250 X 30MM DIA	2	EA	30.58	61.16	
74.	P58720/0 " , 41.5 OHM 2A 200 X 30MM DIA	2		31.03	62.06	
75.	P58820/4 " , 56 OHM 2A 250 X 30MM DIA	2		30.58	61.16	
76.	P58860/5 " , 11.6 OHM 5A 250 X 30MM DIA	2		30.58	61.16	
77.	P58800/9 " , 265 OHM 1A 250 X 30MM DIA	2		30.58	61.16	
78.	P58910/5 " , 23 OHM 5A 305 X 50MM DIA	2		41.04	82.08	
79.	P58680/3 " , 920 OHM 0.3A 200 X 30MM DIA	2		31.03	62.06	
80.	P78332/3 Harris ammeter moving coil dual range 1 amp and 5 amp D.C.	12		32.68	392.16	
81.	P78335/9 Harris milliammeter single range moving coil 0-10MA D.C.	2		30.94	61.88	
82.	P78336/0 " , 0-100MA D.C.	2		30.94	61.88	
83.	P78346/3 Harris voltmeter moving coil dual range 5 volt and 15 volt	12		31.80	381.60	
84.	P80530/6 Interscale instrument	1		91.80	91.80	
85.	P80570/7 Interchangeable dial 2.5-0-2 5MA D.C. for Interscale instrument P80530/6	1			18.45	

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					UK£	
86.	P80590/2 Interchangeable dial 0-100MA D.C. for Interscale instrument P80530/6	1	EA		18.45	
87.	P80630/9 " 0-1 AMP D.C. for Interscale instrument P80530/6	1			18.45	
88.	P80650/5 " 0-5AMP D.C. for Interscale instrument P80530/6	1			18.45	
	80670/0 " 0-5 volt D.C. for Interscale instrument P80530/6	1			18.45	
90.	P80690/6 " 0-15 volt D.C. for for Interscale instrument P80530/6	1			18.45	
91.	P80750/9 " 0-1 AMP A.C. for Interscale instrument P80530/6	1			34.07	
92.	P80810/1 " 0-15 volt A.C. for Interscale instrument P80530/6	1			22.90	
93.	P57860/0 Galvanometer, 'Edspot' W.P.A. 180MM scale	2		166.71	333.42	
94.	P81214/1 Multimeter type 33 supplied w/o plastic wallet	1			42.72	
95.	P81230/9 Protective sleeve for Unimer multimeters	1			3.50	
96.	P58185/4 Wheatstone bridge one metre two GAP	1			37.25	
97.	P58300/0 Jockey	2		2.26	4.52	
98.	P58500/8 Resistance substitution box, 12 Resistors from 100 OHM to 470 KOHM	1			9.25	
99.	P59360/1 Resistance coil 0.1 OHM	2		9.97	19.94	
100.	P59400/9 Resistance coil 0.5 OHM	2		12.28	24.56	

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						UK£	
101.	P59420/4	Resistance coil 10HM	2	EA	12.23	24.46	
102.	P59440/9	" 2 OHM	2		12.28	24.56	
103.	P59460/5	" 5 OHM	2		12.28	24.56	
104.	P59480/0	" 10 OHM	2		12.28	24.56	
105.	P59500/2	" 20 OHM	2		12.32	24.64	
106.	P58500/8	Resistance substitution box, 12 resistors from 100 OHM to 470 KOHM	1			9.25	
107.	P70070/3	S-Range 12 volt power supply AC and DC 240 C AC mains	6		49.00	294.00	
108.	P70170/7	S-Range 35 and 350 volt power supply Unit 240 V mains	2		122.00	244.00	
109.	P70145/8	S-Range 25 volt power supply unit AC and DC continuously variable, 240 V mains	2		133.61	267.22	
110.	P70156/2	S-Range smoothing unit 25 V D.C., 6A Max. 1	2		49.20	98.40	
111.	C37960/0	Filter funnels, plain polythene 35MM DIA	2	pk 10	1.46	2.92	
112.	C38020/1	Filter funnels, plain polythene, 90 MM DIA	1	"	4.32	4.32	
113.	C48501/1	Callipers, sliding vernier matt-finish 120MM X 0.1MM 4 1/2 inch X 1/16 inch	1		3.58	3.58	
114.	C48541/2	Micrometer screw gauge, 0 to 25MM X 0.01MM in wooden case	5		28.06	140.30	
115.	C42500/2	Gauze, iron, ceramic centre 125MM Square	2		0.58	1.16	
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Item/ Poste	ARTICLES/SERVICES		Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX N. EX
						UK£	
116.	Z99999/3	Safety grip for glass tubing	1	EA		3.43	
117.	C46774/4	Reinforced Cement bench mat 4.5MM thick, 230 X 230MM	30		0.75	22.50	
118.	P21400/6	Hydrometers, extra wide range, 0.700 to 1.000 X 0.005 length 250MM	1			4.22	
119.	P21420/1	Hydrometers, extra wide range, 1.000 to 1.500 X 0.010 length 240MM	1			3.70	
120.	B17520/8	Hygrometer, mason's wet and dry bulb BS2841, 332X110MM - 5to +50C	1			10.63	
121.	P41710/0	Tube, Geissler's Hydrogen	1			12.04	
122.	P70205/0	S-Range SKV power supply unit 240 V Mains	1			122.00	
123.	C61120/9	Pipettes, (class B) bulb form 25CM3	10		1.14	11.40	
124.	P39590/6	Polaroid film 50 X 50MM	1	pair		3.72	
125.	C65702/8	Rotary vacuum pump, Edwards speed IVAC 2	1	EA		286.83	
126.	Z99999/3	Pressure relief valve accessory for pump above Edwards 04-A033-02-000	1			13.57	
127.	C48802/4	Rule, Hardwood, 1 metre, one edge only CM & MM Horizontal reading	8		2.03	16.24	
128.	C67302/2	Fire blanket, glass fibre, 900X900 MM in vinyl case	1			16.40	
129.	C67200/5	First aid cabinet	2		40.71	81.42	
130.	P40670/9	Pocket Diffraction Spectroscope	8		30.23	241.84	
131.	C69480/3	Small tripod base spread 87MM from centre for reds 3-13MM DIA	15		6.83	102.45	

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					UK£	
132.	C69460/8 Large tripod base spread 132 MM from centre. For rods 3-13MM DIA	2		10.86	21.72	
133.	C69360/8 Retort stand rods, plain, 750X13MM	15		2.81	42.15	
134.	C69621/6 Harris clamp, Alum. alloy with rubber sleeves, capacity 90MM	3		4.85	14.55	
135.	C69680/0 Bosshead for laboratory stand cast alloy for rods up to 16MM	30		1.63	48.90	
136.	C84520/9 Tripod stand, triangular, steel welded, side 130MM, HEIGHT 200MM	16		1.78	28.48	
137.	C79500/0 Thermometers, celsius, stirring, yellow back 150MM TOTAL IMMRSN. -10 to 110 X 1	20		1.48	29.60	
138.	C79380/5 " , 305MM 76MM Immrsn. -10 to 50X0	1			1.83	
139.	C79160/2 Thermometers, Celsius - 5 to + 105 X 0.1 Total Immrsn. L 450MM	2		8.69	17.38	
140.	C79180/8 " , -10 to + 110 X 1 76 MM Immrsn. L 300MM	1			1.44	
141.	C7960/4 Thermometer maximum and minimum combined scales pattern -20 to + 60 Deg C	1			6.86	
142.	C80861/4 Laboratory stopclock with push button controls metal case	4		19.48	77.92	
143.	C80980/1 S-Range Digitimer for timing to 1 M/sec 240 volt Mains	1			94.01	
144.	C80660/5 Stopwatch fifth second plated case	1			20.23	
145.	C83960/9 Wire stripper, 130MM Length	8		1.71	13.68	
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					UK£	
146.	C66720/4 Rod, soda glass, 1.5M long, 5MM DIA	3	pk10	2.80	8.40	
147.	C66740/9 " " " 6MM dia.	3	"	3.32	9.96	
148.	C84882/9 Tubing, capillary, soda glass, IN 1.5M Lengths 6 X 0.75MM Bore	6	EA	3.71	22.26	
149.	C85820/4 Tubing, soda glass, thick walled, 1.5M lengths 5.5 X 2 MM Bore	3		0.61	1.83	
150.	C86082/9 Tubing glass Borosilicate light wall 1.5M lengths 8X6MM Bore	5		0.40	2.00	
151.	C86620/1 Tubing, Rubber, Red B.S. 2775 5MM Bore X 1.5MM Wall	10	metre	0.5	5.00	
152.	Z99999/3 Coil of 20 Metres rubber tubing heavy wall 10X7MM Bore X Wall. LEY	1	Coil	45.98	45.98	
153.	C87082/4 Tubing, Black, Nitrile rubber 600MM Long inlet tube 5MM ID X 8MM OD (Butt ended)	24	EA	3.05	73.20	
154.	C89100/1 Watch glasses, concave, 70MM Dia Ground edges	2	pk10	2.27	4.54	
155.	P13550/7 Pulley, Aluminium, Plain bearing .1 pulley	2	EA	4.21	8.42	
156.	P13570/2 Pulley, Aluminium, plain bearing .2 Pulley	1		6.01	6.01	
157.	P14060/6 Twine 1MM Dia	1	100M	1.78	1.78	
158.	P18900/0 Lever kit	4	kit	13.72	54.88	
159.	P14610/4 Wheel and axle, simple form	1	EA		14.67	
160.	P17075/1 Dynamics Trolley, wooden	8		21.80	174.40	
161.	P17400/0 Elastic Cord with eyelets	3	card10	3.06	9.18	

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX N. E.
					UK£	
162.	P17350/8 Trolley Runway 2.4M	4	EA	34.07	136.28	
163.	P17502/5 Harris Electric timing device A.C. 6 to 12V	4		38.78	155.12	
164.	P17580/3 Paper tape, gummed 9.5MM wide	2	roll of 300 metres	1.44	2.88	
165.	P17620/0 Paper tape holder	5	EA	12.45	62.25	
166.	P18680/1 Inclined plane and friction board 600 X 75 MM	1			44.67	
167.	P19911/9 Harris G by free fall apparatus	1			33.70	
168.	P19330/1 Simple pendulum lead 19MM Diam	1	pack 10		10.33	
169.	P14180/5 Scale pan, Aluminium, 75MM Diam	3	EA	2.36	7.08	
170.	P20410/4 Elastic materials kit	1	pack	13.21	13.21	
171.	P20430/9 Expendable steel springs	1	pack 100	11.04	11.04	
172.	P10620/9 Displacement Vessel, large 225 X 125 MM	4	EA	5.95	23.80	
173.	C31500/2 Cylinders, measuring (B.S. 604, class B) Glass 250CM3 X 2 CM3	4		3.03	12.12	
174.	P10100/5 Materials kit (solids)	2	pack	51.54	103.08	
175.	P10690/8 Perspex Container 50X 50X 85MM	16	EA	6.04	96.64	
176.	P11280/5 Spring balance, Newton scale, Rectangular 0 to 1 X 0.01N	8		6.00	48.00	
177.	P11340/8 " , 0 to 10 X 0.1N	8		5.95	47.60	
178.	P11500/4 Spring balance, Newton scale, pressed metal 0 to 100 X 5N flat scale	8		2.41	19.28	

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX. N. EX.
					UK£	
179.	Z99999/3 Spring balance dial type capacity 100N by 0.5 Salter 23506-8f23f	1	EA		35.70	
180.	P22420/6 The 'Bristol' Pressure kit	1	kit		226.00	
181.	C52200/7 Oil film kit sufficient for eight students	2	kit	98.80	197.60	
182.	P21840/1 Boylesslaw apparatus, with a Bourdon-type gauge	1	EA		137.00	
183	P21860/7 Foot pump	1			9.75	
184	P22740/2 Barometer tube 7X3MM Bore 900MM length closed one end	1			1.99	
185.	P24270/1 The 'Whitley Bay' Snake cell for Brownian movement	1			16.34	
186.	P24130/7 Kinetic Theory Model, self-contained	1			60.49	
187.	P42860/2 Harris Ripple Tank Wooden framed 600 X 520 X 56MM w/ basic accessories	2		118.30	236.60	
188.	P43321/9 Illuminant for ripple tank 12V 21W	2		19.82	39.64	
189.	P43060/8 Support Rod	2		11.33	22.66	
190	P43380/4 Hand Stroboscope, simple form 255MM Dia	2		4.35	8.70	
191.	P43430/4 Ripple tank supply unit output 3V, 6V and 12V	2		69.00	138.00	
192.	P44150/3 Tuning fork 256 HZ C Blued Steel	1			2.68	
193.	P44230/1 Tuning fork 384 HZ C Blued Steel	1			2.68	
194.	P44290/8 Tuning fork 512 HZ C Blued Steel	1			2.68	

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Item/ Poste	ARTICLES/SERVICES		Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX. N. EX.
						UK£	
195.	P42482/7	Vibration Generator, DC to 10KHZ, Impedance 30MM, Max current 1AMP	1	EA		61.68	
196.	P45310/4	Resonance Jar, Glass 500X75MM Dia	1			9.36	
197.	P42660/5	Wire Helix (slinky) 110 MM	1			6.74	
198.	P36841/1	Optical bench, Wooden Pattern	1			65.57	
199.	P35400/9	Ray Optics Box 12V 24W	8		15.65	125.20	
200.	P33230/1	Lens, Cylindrical, Double Concave 50MM High X 45MM Wide 80MM F.L.	8		7.60	60.80	
201.	P33250/7	Lens, Cylindrical, plane-convex 50MM High X 45MM Wide 150MM F.L.	8		3.92	31.36	
202.	P40530/4	Set of 'Cinemoid' Filters, mounted 50 X 50MM	8	set 6	3.98	31.84	
203.	P36220/2	Pinhole Camera kit	1	pack		29.08	
204.	P30680/6	Plane Mirror, Glass 150 X 50MM	2	pack 10	2.92	5.84	
205.	P30760/4	Mirror support block 50 X 50X 50MM	2	"	6.42	12.84	
206.	P31380/9	Concave mirrors 50MM Dia 100MM F.L.	4	EA	4.54	18.16	
207.	P31400/1	Concave mirrors 50MM Dia 150MM F.L.	4		4.56	18.24	
208.	P31660/5	Convex mirrors 50MM Dia 100MM F.L.	4		4.08	16.32	
209.	P31680/0	Convex Mirrors 50MM Dia 150MM F.L.	4		4.08	16.32	
210.	P31020/2	Cylindrical Concave mirror stainless steel 150MM Dia X 75MM High	16		3.82	61.12	
211.	P33860/1	Glass block, Rectangular 103 X 60 X 20MM	8		16.41	131.28	
212.	P35180/0	Rectangular tank, 175 X 115 X 60MM	8		5.50	44.00	

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX. N. EX.
					UKE	
213.	P35220/8 Large rectangular plastic tank 600 X 75 X 250 MM High	1	EA		41.91	
214.	P34540/4 Prism, Glass, 60X 60 X 60 38MM (L) 38MM (F)	16		6.60	105.60	
215.	P40930/9 Extra dense flint glass prism 32MM	1			34.66	
216.	P32260/5 Lens, double convex, spherical 50MM Dia 100MM F.L.	8		1.39	11.12	
217.	P32280/0 Lens, double convex, spherical 50MM Dia 150MM F.L.	8		1.64	13.12	
218.	P32300/2 Lens, double convex, spherical 50MM Dia 200MM F.L.	8		1.36	10.88	
219.	P32720/2 Lens, double concave, spherical 50MM 100MM F.L.	8		2.35	18.80	
220.	P32740/0 Lens, double concave, spherical 50MM Dia 150 MM FL	8		2.45	19.60	
221.	P32760/3 Lens, double concave, spherical 50MM Dia 200MM F.L.	8		1.57	12.56	
222.	P33210/6 Lens, cylindrical, double convex 50MM High X 45 MM Wide 80MM F.L.	8		4.89	39.12	
223.	P33762/1 Spherometer with glass plate	1			12.83	
224.	P38131/2 Harris Parallel Beam Projector	1			38.65	
225.	P41980/7 Harris Infra-Red/Light detector	1			17.60	
226.	P32970/3 Plane-convex lens, 50MM F.L. 25MM Dia + 20D	4		1.45	5.80	
227.	P32965/9 Plane-convex lens, 70MM F.L. 25MM Dia + 14D	4		1.76	7.04	

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						UK£	
228.	P32990/9	Plano(convex lens, 400MM F.L. 50MM Dia + 2.5D	4	EA	2.39	9.56	
229.	P36340/1	Telescope/Microscope mount	1		15.61	15.61	
230.	P38850/1	Double slits kit	1	kit		35.19	
231.	P39330/2	Demonstration Diffraction Slide	1	EA	7.64	7.64	
232.	P40290/9	Set of Cinemoid filters, sheet 450X300MM	1	set 8		11.05	
233.	P36680/3	Model eye kit	1	kit		33.82	
234.	P76830/9	Flashlamp bulbs, Round, M.E.S. 3.5 V 0.3A	6	pack 10	4.03	24.18	
235.	P77030/4	Lamp, low voltage, straight axial filament, S.B.C. 12V 24]	12	EA	2.28	27.36	
236.	P36120/9	Compact light source 12V 100W	2		46.01	92.02	
237.	P27870/7	Ingenhousz's Apparatus	1			19.75	
238.	P27790/9	Heat Sensitive paper 400 X 260MM	1	pack 5		2.28	
239.	P28370/3	Convection in Air Apparatus	1	EA		14.06	
240.	P28631/5	Radiation kit	1	kit		65.50	
241.	P28410/0	Leslie's Cube, Tinplate with 130MM sides	1	EA		13.96	
242.	P25190/8	Constant volume air thermometer	1			60.84	
243.	P25090/4	Charles's Law Apparatus	1			36.94	
244.	P24450/3	Bar Boiling Apparatus 340X120X100MM	1			24.58	
245.	P24680/5	Compound Bar, copper and iron 200 X 25MM	1			5.65	
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						UK£	
246.	P26608/6	Joulemeter, Mounted 12V	1	EA		115.10	
247.	P26500/2	Metal Block Calorimeters, Aluminium Dia 76MM X 84MM Length	8		10.18	81.44	
248.	P26520/8	Metal Block Calorimeters, mild steel Dia 44MM X 89MM Length	4		7.09	28.36	
249	P26662/6	Immersion Heater 12V 50W For use with Block Calorimeter or in Water	8		13.61	108.88	
250.	P26810/6	Aluminium Container Circular 160MM Dia X 100MM Deep	8		3.49	27.92	
251.	P27210/9	Steam Boiler, Tinsplate 2000CM3	1			1.87	
252.	P28970/5	Mechanical Equivalent of Heat Apparatus, simple form	1			59.73	
253.	P29231/5	Large Motor/Generator, Revised motor pattern	1			15.63	
254.	P29251/0	Small Motor/Generator, Revised motor pattern	1			14.82	
255.	P29271/6	Knife switch unit	1			14.09	
256.	P29290/9	Lamp unit, triple	1			11.22	
257.	P29310/1	Flywheel Unit	1			29.94	
258.	P29330/7	Line Shaft Unit	1			24.50	
259.	P29350/2	Spring Unit	1			38.06	
260.	P29392/7	Steam Engine Unit/Solid Fuel	1			43.18	
261.	P29490/7	Handwheel Driving Unit	1			28.77	
262.	P29400/5	Turbine/Pump Unit	1			40.83	
263.	P29430/0	Head of Water Unit	1			24.67	

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX N. EX.
					UK£	
264.	P29451/8 Storage Battery Unit	1	EA		19.93	
265.	P29470/1 Spare Spring Belts 235MM X 4MM Dia	1	set 6		3.58	
266.	B61960/3 Garden Spray, 5 Litre Capacity	1			23.67	
267.	P51350/2 'Malvern' Electrostatics Kit	4	kit	25.80	103.20	
268.	P50070/2 Brass Cone	1	EA		56.64	
●	P49550/0 Van de Graaff Generator. Motor Driven 200 KV	1			124.64	
270.	P49630/9 Set of Accessories for Van de Graaff Machines	1	set		31.95	
271.	P50390/9 Pair of Brass Plates 125MM Dia	1	pair		22.10	
272.	P52751/3 Harris Worcester Circuit Board w/o Batteries	12	EA	42.57	510.84	
273.	P57060/1 Thermocouple, Copper-Constantan, single	2		4.57	9.14	
274.	P57202/6 Thermopile Comprising 112 Copper Constantan Junctions Mounted on Rod	1			41.26	
275.	C33780/0 Electrolysis Cell Glass Tube 74 X 24 MM Dia With Carbon Electrodes 75 X 5 MM DI	8		3.84	30.72	
276.	C33580/3 Gas Voltmeter, Glass Jar 510 X 98MM Burettes 200 X 2 CM3 with wash bottle	1			91.28	
277.	Z99999/3 Also includes Item No. 342. Pair of Carbon Electrodes 200X5MM Held in a Flexible plastic holder as described by C33840/3	15		2.99	44.85	
278.	C33860/9 Spare Carbon for Carbon Electrodes	13	pair	3.77	49.01	

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Item/ Poste	ARTICLES/SERVICES		Quantité/ Quantity	Unité/ Unit	Prix unit/ Unit Price	Montant/ Amount	EX. N. EX.
						UK£	
279.	C33620/0	Foil Holder with Crocodile Clips for Foil Electrodes	10	EA	1.68	16.80	
280.	B11600/9	Magnetite Lodestone Specimen 25 X 25MM	1			1.60	
281.	P45900/3	Rectangular Magnets, 6% Chrome Steel 75MM With Keepers	8	pair	1.69	13.52	
282.	P46430/8	Rectangular Magnets, Boliipse 75X15X10MM	1	"		9.54	
283.	P46870/3	Horseshoe Magnets, Boliipse 25MM High Section 10X25MM	1	EA		10.94	
284.	P47970/1	Magnetic Needle, Steel, Brass Bearing 75 MM Long	1			1.34	
285.	P48130/6	Needle Stand 70 X 70MM	1			2.39	
286.	B69440/6	Knitting Needles, 300 X 2MM Diam	2	pack 10	2.65	5.30	
287.	P47230/5	Iron Wires, soft 150 MM X 20 SWG	2	500 G	1.78	3.56	
288.	P47270/6	MU Metal Rod 300MM X 6MM Dia	1	EA		6.69	
289.	P47530/5	Magnetising and demagnetising coil 12V	1			62.98	
290.	P52450/0	Electric Bell	1			3.41	
291.	P54530/8	'Westminster' Electromagnetic Kit	4	pack	89.72	358.88	
292.	P54870/9	Extra-low Voltage supply Unit 1V AC/DC & 2V AC Outputs	8	EA	45.56	364.48	
293.	P54330/0	'Worcester' Current Balance Kit	4	pack	30.69	122.76	
294.	P56480/4	Low-Frequency Generator 2V to 12V D.C. Input	1	EA		22.51	
295.	P56340/2	Bicycle Dynamo Assembly	1			43.79	

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX. N. EX.
					UK£	
296.	P55011/0 Harris Dissectible Transformer, Revised Pattern	2	EA	173.82	347.64	
297.	P54972/7 Demonstration Transformer 2400 turns, W/ 2 secondaries, w/ flying lead	4		75.30	301.20	
298.	Z99999/3 Buzzer 3 To 4.5 V AC/DC	1		11.66	11.66	
299.	P45510/1 Microphone, Tubular 1M OHM Crystal type	2		10.25	20.50	
300.	P45581/2 High Resistance Earphones, 2000 OHMS Total, 30 HZ To 15 KHZ	2	pair	5.85	11.70	
301.	P63820/7 S-Range Dual Amplifier	2	EA	49.85	99.70	
302.	P45410/8 Loudspeaker 150MM Dia 3 OHM	4		25.30	101.20	
303.	P64300/8 Universal Stand for Teltron Demonstration Tubes	1	EA		51.85	
304.	P64340/9 Helmholtz Coils	1	PAIR		56.80	
305.	P64800/6 Double Fine Beam Tube, Gas filled	1	EA		119.61	
306.	P65760/3 Diffusion Cloud Chamber	4		29.83	116.12	
307.	P65731/7 Illuminant for Expansion or Diffusion Cloud Chambers With 12V 15W Festoon Lamp	4		29.61	118.44	
308.	P63710/0 S-Range Power Signal Generator, 0.07 HZ to 100KHZ in 6 ranges, 220/240 V Mains	1			116.00	
309.	P53200/4 A.C. and Semiconductor kit for use with Harris Worcester Circuit Boards	1	kit		51.13	
310.	B31700/1 Copper Foil	1	250 G		3.59	

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Item/ Poste	ARTICLES/SERVICES	Quantité/ Quantity	Unité/ Unit	Prix unit./ Unit Price	Montant/ Amount	EX. N. EX.
					UK£	
311.	P51270/4 Gold leaf 6MM Wide X 25MM	1	pekt 6		2.96	
312.	S99325/9 Nickel Sheet 0.15MM Thick	1	100 G		8.05	
313.	S9545/9 Sulphuric Acid For Accumulators 1.25 G/CM at 20C	6	2.5 LTRS.	3.22	19.32	
314.	S99905/1 Zinc Foil	2	250 G	1.95	3.90	
Electrical equipment to operate on 230 volts, 50 cycle, single phase. Operating Instructions and manual in English.						
					UK£ 15 669.53	

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