

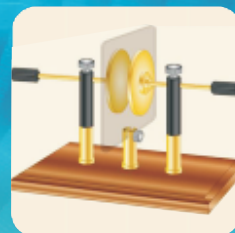
I S O



2020-21

# PHYSICS

*Catalogue*



Manufacturers & Exporters

**BIOCRAFT**<sup>®</sup>  
SCIENTIFIC SYSTEMS (P) LTD.



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Managing Director



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M.Sc. (Botany)  
Director Quality Control  
& Research



Mr. Hemant Srivastava  
Head- Supplies &  
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# *Catalogue* 2020-21 PHYSICS

Welcome to our  
new catalogue of Physics

**2020-21**

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## Biocraft 100% Satisfaction

**All our products are unconditionally guaranteed. If for any reason you are not satisfied with any item you may return it for a replacement, a refund, it's that simple.**

## MECHANICS

	<b>Rs. Each</b>
<b>CP-1 Screw Gauge</b> "Craft" Moore & Wright type steel screw	
(a) 10 × 1/100 mm (LC=1/100m)	<b>175</b>
(b) 15 × 1/100 mm (LC=1/100m)	<b>230</b>
(c) 20 × 1/100 mm (LC=1/100m)	<b>270</b>
(d) 25 × 1/100 mm (LC=1/100m) stand blasted	<b>310</b>
(e) Screw Gauge imported 25 mm least count 0.01 mm	<b>780</b>
(f) Digital Screw Gauge imported 25 mm	<b>4,400</b>
<b>CP-3 Spherometer</b> "Craft" : Steel Screw, Brass disc.	
(a) 1/100 mm	<b>250</b>
(b) Double Disc Superior Quality	<b>370</b>
(c) Pye Type Double Disc Stainless Steel legs	<b>350</b>
<b>CP-5 Vernier Callipers</b> "Craft"	
(a) 12.5 cms with wheel drive	<b>120</b>
(b) 15 cms I.M.E. Type very superior in velvet lined box	<b>260</b>
<b>CP-6 Vernier Callipers</b> imported—6"	<b>620</b>
(b) <b>Vernier Digital</b> imported—6"	<b>1,680</b>
<b>CP-8 Young's Modulus Apparatus</b> Searl's pattern "Craft"	
(a) Body made of Iron	<b>1,400</b>
(b) Body made or Brass	<b>1,980</b>
<b>CP-10 Young's Modulus of Rods</b> Searl's "Craft" (Interference fringes Method)	<b>1,800</b>
<b>CP-12 Simple Pendulum</b> "Craft" with Brass ball about 5 cms. dia. Suspended special thread with heavy metallic base and rod	<b>720</b>
<b>CP-13 Youngs Modulus</b> Apparatus Vernier type "Craft"	<b>1,150</b>
<b>CP-15 Pendulum BOB</b> (Brass) with hook— Different metals—Set of Six BOBs	
Per set      1/2"— <b>225</b> 3/4"— <b>384</b> 1"— <b>590</b>	



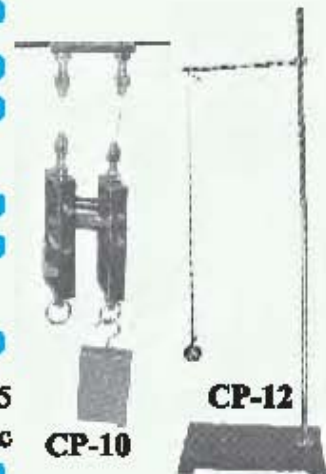
**CP-1**



**CP-3**



**CP-5**



**CP-10**

**CP-12**



**CP-15**



	<b>Ra. Each</b>
<b>CP-18 Bar Pendulum</b> "Craft" with wall bracket 100 cm long	
(a) Rectangular steel Strip type	810
(b) Rectangular brass Strip C.P. or Brass Rod type	2,450
<b>CP-20 Kater's Pendulum</b> "Craft" with wall bracket	
(a) Steel rod 120 cms. long × 12 mms. dia	1,950
(b) Brass Rod and brass weights	4,400
<b>CP-25 Torsion Apparatus Horizontal</b> Searl's pattern "Craft"	
(a) Working length 50 cms. with 2 scales	2,900
(b) Working length 100 cms with 3 scales	3,600
<b>CP-27 Torsion Apparatus Vertical</b> "Craft" 100 cms. with 2 rods	5,900
<b>CP-30 Searles Rigidity Apparatus</b> of Finding Y & N "Craft" with 3 wires :	
(a) Brass C.P.	1,700
(b) Stand for above	1,400
<b>CP-35 Rigidity Modulus.</b> Steel rod 16" long with wall bracket Dynamical method "Craft"	1,800
<b>CP-40 Flat Spiral Spring</b> "Craft" 50 cms long Brass Graduated tube	2,800
<b>CP-45 Maxwells Vibration Needle</b> "Craft"	
(a) 50 cms long Brass Graduated tube	2,800
(b) Stand for above extra	1,550
<b>CP-48</b> (a) <b>Fly Wheel</b> "Craft" 20 cms dia	3,200
(b) -do- fitted with a revolution counter	3,750
<b>CP-50 Boyle's Law Apparatus</b> "Craft" Heavy Metal base with levelling screws	1,670
<b>CP-52 Charle's Law Apparatus</b>	1,650
<b>CP-55 Fortin's Barometer.</b> Standard "Craft" in case W/O Mercury	3,450
<b>CP-58</b> (a) <b>Aneroid Barometer</b> Indian : 100 mm. Dial	585
(b) <b>Aneroid Barometer</b> Indian Demonstration type	880
<b>CP-60 Surface Tension with Capillary Holder</b> with slow motion rising table	2,900
<b>CP-65 Bending of Beam</b> Apparatus with knife edge, test bar, spherometer and hanger "Craft"	2,200



**CP-50**



**CP-58**

	<b>Rs. Each</b>
<b>CP-68</b> <b>Koing Apparatus</b> for Bending Beam "Craft"	<b>3,100</b>
<b>CP-70</b> <b>Inertia Bar</b> "Craft" : 30 cms long × 2 cms dia	<b>1,450</b>
<b>CP-71</b> <b>Inertia Disc.</b> "Craft" : 15 cm dia 5 mm thick	<b>1,680</b>
<b>CP-75</b> <b>Torsion Pendulum</b> "Craft" : 25 cms dia with wall bracket	<b>2,600</b>
<b>CP-80</b> <b>Inertia Table</b> "Craft" 15 cms. dia with stand	<b>2,850</b>
<b>CP-85</b> <b>Stop Clock</b> "Craft" Indian : metal body, start stop and fly back action	<b>640</b>
<b>CP-90</b> <b>Digital Stop Clock</b>	<b>1,500</b>
<b>CP-100</b> <b>Stop Watch</b> "Swiss" : 1/5th or 1/10 seconds	<b>2,950</b>
<b>CP-105</b> <b>Viscosity Apparatus</b> "Craft" : Manometer type with constant level tank	<b>2,380</b>
<b>CP-108</b> <b>Apparatus for Measuring Viscosity of Liquids,</b> Oscilalting Disc.	<b>2,380</b>
<b>CP-110</b> <b>Rankin's Apparatus</b> for Determination of Viscosity of Gases "Craft"	<b>1,850</b>
<b>CP-115</b> <b>Viscosity of a Transparent Viscous Liquid</b> by Stokers Method "Craft"	<b>2,100</b>
<b>CP-120</b> <b>Searl's Viscometer</b> "Craft"	<b>3,300</b>
<b>CP-130</b> <b>Jeagers Apparatus</b> "Craft" : For determination of Surface Tension with glass parts	<b>2,100</b>
<b>CP-132</b> <b>Ticker Tape Timer</b> with transformer and Paper Roll	<b>3,200</b>
<b>CP-133</b> <b>Jeagers Apparatus</b> "Craft" for determination of viscosity	<b>2,400</b>
<b>CP-135</b> <b>Surface Tension Balance</b> Searle's "Craft"	<b>2,250</b>
<b>CP-136</b> <b>Surface Tension Apparatus</b> De Nouy's Method "Craft"	<b>12,200</b>
<b>CP-138</b> <b>Surface Tension by Ripples</b> Rayleigh Method "Craft"	<b>13,500</b>



**CP-80**



**CP-85**



**CP-130**



**Rs. Each**

- CP-140** (a) **Quinke's Apparatus** for the Determination of surface Tension of Mercury "Craft" **880**  
 (b) **Mercury double distilled** (per Kg.) **23,000**  
 (c) **Travelling Microscope** for use with above **5,850**

**CP-142 Universal Force Table 400 mm dia Superior** fitted on C.I. Cast base with level screws, supplied with weights. **8,750**

**CP-144 Horizontal Plain Friction Board** **980**

**CP-146 'G' by Free Fall Apparatus** using digital timing with Optical Sensor gates **6,600**

**CP-150 Paralogram law of forces Apparatus** "Craft" Complete with one board, 3 pulleys and three set of slotted weights **1,550**

**CP-152 Y & N by Spiral Spring Apparatus**  
 Spherometer type with stand **2,900**

**CP-154 'K' Constant by Spring Method Apparatus**  
 one meter (weight not included) **2,850**

**CP-155 Hot Air Blower** : for 230 volts AC.  
 (a) Indian **1,250**  
 (b) Imported **2,100**

**CP-160 Meter scales** : Both side cms. "Craft" **60**

**CP-162 Half meter Scales** (Wooden) : Both sides cms. **38**

**CP-165 Slotted Weights with Hangers**

	<i>Brass</i>	<i>Iron</i>	<i>Iron</i>
"Craft" set of four weights and one hanger :	<i>C.P.</i>	<i>C.P.</i>	<i>black Painted</i>
(a) 20 gms (Total weight 100 gms)	<b>390</b>	<b>220</b>	—
(b) 50 gms (Total weight 250 gms)	<b>595</b>	<b>450</b>	—
(c) 100 gms (Total weight 500 gms)	<b>1,200</b>	<b>410</b>	<b>350</b>
(d) 500 gms (Total weight 2.5 kg)	—	—	<b>700</b>
(e) 1000 gms (Total weight 5 kg)	—	—	<b>1,400</b>

**CP-168 Inclined Plane or Friction Apparatus** "Craft" :  
 with ALU Fittings with pulley and roller **1,050**

**CP-170 Specific Gravity Bottle.** Borosilicate glass with capillary Stopper

Capacity—	25 ml. — <b>150</b>	50 ml.— <b>165</b>	
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**CP-150**




**CP-160**

**CP-165**

	Rs. Each	
<b>CP-172 Over Flow Jar (Plastic)</b>	<b>32</b>	 
<b>CP-173 Pascal's Law Apparatus</b>	<b>210</b>	
<b>CP-175 Nicholson's Hydrometer "Craft"</b>		
(a) To carry 10-15 grams weights	<b>390</b>	
(b) Glass Jar for above extra	<b>460</b>	
<b>CP-176 Modulus of Rigidity of a Wire Horizontal 1 meter with 3 Scale without weight</b>	<b>4,400</b>	
<b>CP-177 Barton's Apparatus Vertical 1 meter without weight</b>	<b>6,850</b>	
<b>CP-179 Cantilever Apparatus with rectangular iron bar, G clamp, two wooden block</b>	<b>1,350</b>	
<b>CP-180 Poisson's Ratio of Rubber Apparatus without weights "Craft"</b>	<b>2,450</b>	
<b>CP-182 Bucket and Cylinder—2"</b>	<b>190</b>	
<b>CP-183 Plunger Apparatus (steel)</b>	<b>810</b>	
<b>CP-184 Hooks law Apparatus with weights on stand</b>	<b>990</b>	
<b>CP-186 Pulleys : Single—Rs. 70    Double—Rs. 90    Triple—Rs. 160</b>		
<b>CP-187 Periscope —    Rs. 260</b>		
<b>CP-189 Drawing Board :    23"×16"—Rs. 520    18"×12"—Rs. 310</b>		

## HEAT

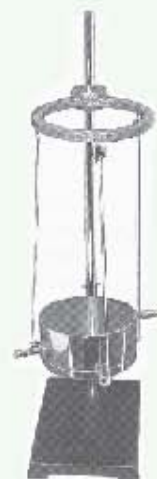
<b>CP-190 Linear Expansion Apparatus "Craft"</b>	<b>Rs. Each</b>	
(a) 50 cms. long Brass Tube	<b>1,950</b>	
(b) -do- 100 cms long Brass Tube	<b>3,280</b>	<b>CP-190</b>
<b>CP-192 Co-efficient of Linear Expansion Pulingers Vertical "CRAFT" All Metal :</b>		
(a) 50 cms long Brass Tube	<b>1,900</b>	
(b) 100 cms long Brass Tube	<b>3,500</b>	<b>CP-192</b>
<b>CP-195 Constant Pressure Air Thermometer "Craft"</b>	<b>2,735</b>	
<b>CP-196 Constant Volume Air Thermometer "Craft"</b>	<b>2,880</b>	
<b>CP-200 Regnault's Calorimeter "Craft"</b>	<b>4,200</b>	
<b>CP-205 Regnault's Hygrometer "Craft"</b>	<b>1,780</b>	



	<b>Rs. Each</b>
<b>CP-210 Joules Calorimeter "Craft" Double walled</b>	<b>1,380</b>
<b>CP-211 Joules Calorimeter "Craft" Single walled 4×3"</b>	<b>820</b>
<b>CP-215 Newtons Law of Cooling Apparatus "Craft"</b>	
(a) University pattern (Brass pipe)	1,970
(b) Simple type made of G.L Sheet	810
<b>CP-220 (a) Calender and Barnes Apparatus "Craft"</b>	<b>2,340</b>
(b) Transformer for use with above	1,400
<b>CP-225 Searles Apparatus for Finding "J" : "Craft"</b>	
Complete with revolution counter	<b>10,550</b>
<b>CP-230 Lees and Charlton Counductivity Apparatus "Craft"</b>	<b>5,290</b>
<b>CP-231 Steam Generator 2 liters capacity Jointless</b>	<b>1,620</b>
<b>CP-235 Searle's Thermal Conductivity Apparatus</b>	
"Craft" Cooper rod 12" × 1"	<b>4,900</b>
<b>CP-238 Ring and Ball Apparatus</b>	<b>310</b>
<b>CP-239 Ring &amp; Ball Apparatus on Stand 1" ball brass</b>	<b>450</b>
<b>CP-240 Conductivity of Glass Apparatus "Craft"</b>	<b>3,600</b>
<b>CP-245 Thermal Conductivity of Rubber Tubing</b>	
with boiler and thermometer "Craft"	<b>2,200</b>
<b>Cp-248 Victor Mayers Apparatus "Craft" Made of</b>	
Borosilicate Glass	<b>2,480</b>
<b>CP-250 Clement &amp; Desormes Apparatus "Craft"</b>	<b>6,870</b>
<b>CP-255 Steam Engine Working Model with Boiler "Craft"</b>	<b>1,890</b>
<b>CP-258 Gas Engine Model "Craft"</b>	<b>2,400</b>
<b>CP-265 Thermopile "Craft" : 12 pairs</b>	<b>2,700</b>
<b>CP-267 Thermocouple "Craft" : 50cm long iron and</b>	
copper pair	<b>900</b>
<b>CP-270 Latent Heat of Steam Apparatus Berthlot's "Craft"</b>	<b>3,600</b>
<b>CP-272 Forbes Apparatus for Determination of Conductivity</b>	
of a metal Bar "Craft"	<b>1,700</b>
<b>CP-275 Steam Boiler Copper "Craft"— Jointless</b>	
Capacity — 1 litre — <b>Rs. 588</b>	<b>2 litres — 960</b>



**CP-215**



**CP-230**





**CP-235**



**CP-275**

<b>CP-278 Steam Heater or Hypsometer "Craft"</b>		<b>Rs. Each</b>
(a) 8 cms. dia Small size Copper		<b>780</b>
(b) —do— Bigger size 10 cms dia Copper		<b>970</b>
<b>CP-280 Copper Calorimeter "Craft"</b>		
(a) With outer cover and stirrer 3" × 2"		<b>395</b>
(b) —ditto— 4" × 3"		<b>610</b>
<b>CP-283 Compound Metal strips Brass and Copper</b>		<b>155</b>
<b>CP-285 Stefans Constant Apparatus "Craft"</b>		<b>4,800</b>
<b>CP-288 Stefan's Law (Electronic)</b>		<b>4,500</b>
<b>CP-290 Thermometer</b> Accurately calibrated in case		
(a) <b>Thermometer Mercury filled</b> 10 to 50°C, 10 to 110°C, -10 to 150°C		<b>80</b>
(b) <b>Thermometer Red Alcohol filled</b> -10 to 110°C, -10 to 150°C		<b>44</b>
<b>CP-293 Platinum Resistance Thermometer "Craft"</b> in velvet case		<b>8,600</b>
<b>CP-295 (a) Hot Plate Round "Craft"</b> : 1000 Watts.		<b>1,600</b>
(b) —ditto— but fitted with three heat Rotary Switch 1500 Watts 16" × 10" × 6"		<b>4,100</b>
<b>CP-298 Hope's App. G.I.</b>		<b>295</b>

## LIGHT

<b>CP-300 Spectrometer "Craft"</b> : in wooden case	<b>Rs. Each</b>	
(a) Scale 6" verniers reading to 1 minute	<b>8,200</b>	
(b) Scale 6" vernier reading to 30 seconds	<b>9,500</b>	
(c) Scale 7" vernier reading to 1 minute	<b>11,500</b>	
(e) Scale 10" vernier reading to 20 seconds	<b>19,500</b>	
(f) Scale 10" vernier reading to 10 seconds	<b>23,800</b>	
<b>CP-305 Travelling Microscope "Craft"</b>	<b>7,450</b>	
Vertical & Horizontal Movement Type Stainless scale in wooden case		
<b>CP-306 Travelling Microscope</b> same as above specification but instead of Vernier a rotation graduated drum with 100 division is provided	<b>8,500</b>	
<b>CP-307 Travelling Microscope with three Motions</b> "Craft" Horizontal, vertical and Right Angled	<b>8,700</b>	



	<b>Ra. Each</b>
<b>CP-308 Six Position Travelling Microscope "Craft"</b> in wooden case	<b>8,250</b>
<b>CP-310 Travelling Micoscope Bridge form for Newton's</b> ring expt. "Craft" steel scale. In wooden case	<b>7,200</b>
<b>CP-315 Newton's Ring Apparatus "Craft"</b> Compact instrument containing the necessary arrangements required conducting the newton's ring experiment complete with Standard microscope	<b>9,400</b>
<b>CP-316 Newton's Ring Apparatus "Craft"</b> Consisting of one flat glass of the piano convex lens of 100 or 20 cms. F.L. made from extra white glass	
Diameter            50 mms                      60 mms                      75 mms	
Ra.                      280                                      480                                      575	
<b>CP-321 Vertical Reading Microscope "Craft"</b>	<b>7,650</b>
<b>CP-330 Cathetometer Universal "Craft"</b> Working length 100 cms— Brass scale	<b>23,000</b>
<b>CP-335 Babinet's Compensator "Craft"</b> with Polaroid Analyser	<b>19,700</b>
<b>CP-340 Reading Telescope "Craft"</b> with stand	
(a) ditto with stand and scale	<b>3,100</b>
(b) Delux type Tilting motion. Very heavy base	<b>4,950</b>
<b>CP-345 (a) Sextant Standard Pattern "Craft"</b>	<b>7,200</b>
(b) Stand for above extra	<b>4,100</b>
<b>CP-348 Lummer Brodhum Photometer "Craft"</b>	
(a) Head only	<b>6,500</b>
(b) ditto with assembly mounted on double bar bench 150 cms. long with accessories	<b>9,950</b>
<b>CP-349 Optical Bench Wooden Complete</b>	<b>1,600</b>
<b>CP-350 Optical Bench Intermediate</b> with accessories	
(a) Working length 100 cms	<b>3,850</b>
(b) Working length 150 cms	<b>5,700</b>



**Rs. Each**

**CP-353 Senior Optical Bench** 2 Bar Type with 4 riders, 2 with Transverse motions and two lense holders and two Needles

Working Length	Steel Rods	Brass Pipe	Stainless
(a) 100 cms	Rs. <b>4,200</b>	Rs. <b>7,700</b>	Rs. <b>8,100</b>
(b) 150 cms	Rs. <b>4,800</b>	Rs. <b>8,100</b>	Rs. <b>9,250</b>



**CP-355 Research Optical Bench** "Craft" 170 cms long with 4 riders. Two with Transverse motion, one slit, one Biprism holder and one micrometer eye piece—Fitted with Brass scale

**98,200**



**CP-360**

**CP-356 'V'-lens holder** "Craft" **90**

**CP-357 Candle Holder one stand** "Craft" **220**

**CP-358 Parallax Pin Iron** 1/4" **36**

**CP-358-A Pin Stand** **140**

**CP-359 Lens Holder** **175**

**CP-359 (a) Universal Lens Holder** on stand **295**

**(b) Spring Lens Holder** on stand **640**

**CP-360 Bi-Prism Assembly** "Craft" Complete 150 cms long optical bench with 4 riders. Two with Transverse motion, one slit, one Biprism holder and one micrometer eye piece

**11,800**



**CP-365**

**C-365 Nodal Slide Assembly** "Craft"

(a) On 150 cms. long double bar bench with steel rods **13,700**

(b) Nodal slide unit only without bench **7,600**

**CP-368 Pin Hole Camera** Brass **240**

**CP-369 Periscope** (Metal) **320**

**CP-370 Polarimeter** "Craft" : Half Shade with one glass tube **22,900**



**CP-370**

**CP-385 Slit for magnifying Power** of a Telescope "Craft" **710**

**CP-390 Milikans Oil Drop Apparatus** "Craft" Complete with Power supply and Atomizer **9,200**



	<b>Rs. Each</b>
<b>CP-395</b> <b>Astronomical Telescope</b> "Craft" with Stand	<b>3,500</b>
<b>CP-397</b> <b>Astronomical Telescope</b> (Imported) TS-506	<b>7,600</b>
<b>CP-398</b> <b>Resolving Power of Telescope</b> Complete with travelling microscope reading telescope	<b>9,500</b>
<b>CP-400</b> <b>Direct Vision Spectroscope</b> "Craft"	<b>610</b>
<b>CP-410</b> <b>Binocular Prismatic</b> (Imported) Double coated lenses in beautiful leather case with arms strap. 7×50— <b>4,800</b> 10×50— <b>6,100</b> 12×50— <b>7,200</b>	
<b>CP-415</b> <b>Newton's Ring Apparatus</b> "Craft" in Bakelite frame complete with set of lenses	<b>480</b>
<b>CP-420</b> <b>Mercury Vapour Lamp.</b> With choke	
(a) To work on 220 volts A.C. 80 Watts	<b>1,650</b>
(b) —do— but of 125 watts	<b>1,820</b>
(c) —do— but 160 watts can be used direct on 220 V AC. (No need of choke)	<b>950</b>
<b>CP-425</b> <b>Sodium Vapour Lamp</b> Imported : Complete with vacuum jacket but without leak transformer 35 watts—Rs. <b>4,700</b> 55 watts—Rs. <b>5,100</b>	
<b>CP-427</b> <b>Leak Transformer</b> for Above "Craft" 35 watts—Rs. <b>1,620</b> 55 watts—Rs. <b>1,850</b>	
<b>CP-430</b> <b>Diffraction Grating</b> "Hilger & Watts" :	
(a) 15,000 lines to an inch complete in velvet lined case.	<b>1,380</b>
(b) —do— but Indian	<b>590</b>
<b>CP-438</b> <b>Magnifiers</b> "Craft" In metal frame with handle N.P.	
(a) 50 mm diameter	<b>65</b>
(b) 60 mm meameter	<b>85</b>
(c) 75 mm diameter	<b>130</b>
(d) 100 mm diameter	<b>190</b>
<b>CP-442</b> <b>Glass slabs</b> "Craft" : Made from Sheet glass Bubble-less	
(a) 75 × 50 × 12 mm	<b>80</b>
(b) 75 × 50 × 18 mm	<b>95</b>
(c) 100 × 60 × 25 mm	<b>160</b>



**CP-395**



**CP-415**



**CP-438**

	<b>Rs. Each</b>			
	<i>English</i>	<i>Indian</i>	<i>Glass</i>	<i>Glass</i>
<b>CP-445 Glass Prism "Craft" :</b>				
For Pin Experiment				
(a) 25 mm equilateral & right angled	<b>95</b>	<b>55</b>		
(b) 38 mm equilateral & right angled	<b>185</b>	<b>80</b>		
(c) 50 mm equilateral & right angled	<b>198</b>	<b>90</b>		
<b>CP-448 Spectrometer prisms "Craft" : 32 × 32 mms</b>				
(a) Borosilicate Crown glass R.I. 51		<b>280</b>		
(b) Dens Flint Glass Prism R.L. 1.62		<b>590</b>		
<b>CP-450 Hollow Glass prisms "Craft" : In velvet case</b>				
(a) 38×38×35 mm height	<b>610</b>	(b) 38×38×38 mm height	<b>715</b>	
(c) 50×50×50 mm height	<b>990</b>	(d) Hollow Sheet Glass Prism	<b>140</b>	
<b>CP-452 Fresnel's Biprism "Craft" In velvet lined box</b>				
(a) Size 40×32 mm —	<b>600</b>	(b) Size 50 × 40 mm —	<b>710</b>	
<b>CP-455 Nicol Prisms : To produce polarised light</b>				
Size of End Face	6 mm— <b>1,990</b>	10 mm— <b>2,020</b>	12 mm— <b>2,310</b>	
<b>CP-460 Calcijte/Quartz Prisms Equilateral "Craft" With optic Axis Parallel to refracting edge.</b>				
Size	12.5×12.5 mm— <b>1,590</b>	18×18 mm— <b>2,600</b>	25 × 25mm— <b>3,250</b>	
<b>CP-465 Lenses "Craft" : Optically True College Quality Concave or Convex</b>				
	FL 10 cms	FL 15-30 cms	FL 40-100 cms	
(a) 50 mm dia	<b>35</b>	<b>30</b>	<b>30</b>	
(b) 75 mm dia	<b>118</b>	<b>76</b>	<b>56</b>	
<b>CP-467 Mirror Concave or Convex "Craft" Optically True, Highly silvered and varnished F.L. 10, 15, 20 or 25 cms (Any focal Length)</b>				
(a) 50 mm dia	<b>32</b>	(b) 60 mm dia	<b>62</b>	
(c) 75 mm dia	<b>72</b>	(d) 100 mm dia	<b>120</b>	
(e) 150 mm dia	<b>275</b>			
<b>CP-469 Mirror Strip with holder</b>				<b>42</b>
<b>CP-473 Michelson's Interferometer "Craft"</b>				<b>47,500</b>
<b>CP-475 ABBE Refractometer "Craft"</b>				<b>11,200</b>
<b>CP-480 Kaleidoscope</b>				<b>145</b>
<b>CP-490 Over Head Projector Twin Bulb (Halogen)</b>				<b>6,950</b>





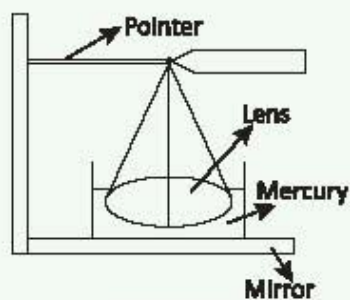
**CP-494 Newton Colour Disc 8" 410**

**CP-495 Liquid Lens 410**

- Stand with base
- Pointer holder with pointer
- Petri dish
- Back coated plane mirror
- Bi-convex lens



**CP-494**



**CP-495**

## MAGNETISM

	<b>Rs. Each</b>	
<b>CP-500 Deflection Magnetometer "Craft"</b> Wooden with Compass box	<b>880</b>	 <b>CP-500</b>
<b>CP-505 Compass Box "Craft"</b>	<b>280</b>	
<b>CP-508 Vibration magnetometer "Craft"</b> (a) For 10 cms magnet <b>810</b> (c) —do— for 15 cms magnet <b>1,100</b>		 <b>CP-508</b>
<b>CP-510 Dip Circle Standard Rolling Needle Type "Craft"</b>	<b>7,400</b>	
<b>CP-511 Dip Circle Standard Pivoted Needle Type "Craft"</b>	<b>3,880</b>	 <b>CP-511</b>
<b>CP-515 Earth Inductor "Craft" All Metal Automatic</b> (a) 500 Turns <b>5,700</b> (b) 1000 turns <b>7,100</b> (c) 5000 turns <b>9,350</b>		 <b>CP-515</b>
<b>CP-518 Solenoid Inductor "Craft" 100 cms Long. 2,900</b>	<b>2,900</b>	
<b>CP-520 Electro Magnet "Craft" 8" long coil 3,480</b>	<b>3,480</b>	
<b>CP-525 Electro Magnet "Craft"</b> (a) Field Strength 10,000 Gauss in 1 cm gap. <b>41,900</b> (b) Power supply for electromagnet EM-10 <b>39,600</b>		 <b>CP-525</b>
<b>CP-532 Bar Magnets "Craft"</b>		
Size            2"            3"            4"            6"		
Price Rs. <b>40</b> <b>55</b> <b>65</b> <b>110</b>		<b>CP-510</b>

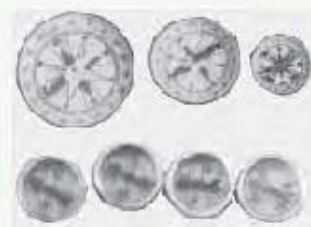
					Rs. Each
<b>CP-535</b>	<b>Bar Magnet Alnico Alloy</b>	Very strong in card board cases with Keepers			
	Size	2"	3"	4"	6"
	Price Rs.	120	190	280	450 pair
<b>CP-540</b>	<b>Self Inductance Coil "Craft"</b>	3000 turns			910
<b>CP-542</b>	<b>Self &amp; Mutual Inductance Coil "Craft"</b>				3,100
<b>CP-545</b>	<b>Induced Current Apparatus</b>	with Bulb in Secondary			1,100
<b>CP-550</b>	<b>Search Coil "Craft"</b>				
	(a) Resistance 25 ohms, turns 100, mean dia 10 mm				750
	(b) Resistance 25 ohms, turns 10, mean dia 10 mm				750
	(c) Resistance 25 ohms, turns 10, mean dia 5 mm				750
<b>CP-560</b>	<b>Hilbert's Magnetic Standard "Craft"</b>				9,500
<b>CP-570</b>	<b>Hysteresis Curve Apparatus "Craft"</b>				19,200
<b>CP-575</b>	<b>Anchor Ring "Craft"</b>				1,100
<b>CP-580</b>	<b>Barlow's Wheel "Craft"</b>				410
<b>CP-583</b>	<b>Horse Shoe Magnet "Craft"</b>				
	Each Rs.	2"— 48	3"— 72	4"— 140	
<b>CP-584</b>	<b>Horse Shoe Magnet Alnico "Craft"</b>				
	Each Rs.	2"— 205	3"— 295	4"— 440	
<b>CP-585</b>	<b>Cylindrical Magnet "Craft"</b>				
	Each Rs.	2"— 52	3"— 65	4"— 75	
<b>CP-587</b>	<b>Magnetic needle</b>	3"— Rs. 150 per Dozen			
<b>CP-589</b>	<b>Magnetic Compass</b>	Both side Glass			
	3/4"—Rs. 180 per dozen	1"— Rs. 210 per dozen			
<b>CP-590</b>	<b>Magnetic Compass "Craft"</b>	one side Glass			
	1"—20	2"—38	3"—52	4"—90	



CP-535



CP-584



CP-589

**Ask for VEB® Laboratory Chemicals**  
**These are 100% Pure, Tested Guaranteed Reagents**



## SOUND

	Rs. Each
<b>CP-600</b> (a) <b>Tuning forks</b> "Craft" Set of 8 in case	<b>410</b>
(b) <b>Tuning Fork's</b> "Craft" pye Type set of 8	<b>670</b>
(c) —do— Ragg's Type Indian Blue steel set of 8 in case (per set)	<b>780</b>
(d) <b>Tuning Fork</b> Welch Type set of 8	<b>840</b>
<b>CP-602</b> <b>Tuning Fork</b> Electrically Maintained "Craft"	<b>3,600</b>
<b>CP-605</b> <b>Melde Experimental Appratus</b> Electrical "Craft"	<b>3,600</b>
<b>CP-606</b> <b>Electrical Vibrator</b> "Craft" For determining frequency of A.C. Mains	<b>1,150</b>
<b>CP-610</b> <b>Resonance Appartus</b> All Metal "Craft"	
(a) Stainless Steel Pipe or Brass	<b>2,150</b>
(b) —do— but with Iron pipe	<b>1,850</b>
<b>CP-615</b> (a) <b>Sonometer</b> "Craft" Brass Parts	<b>1,580</b>
(b) Slotted Weights 5 Kgms Set	<b>1,750</b>
<b>CP-618</b> <b>Kundts Tube</b> "Craft" :	
(a) Borosil glass tube with stop cock	<b>1,950</b>
(b) G Clamp for above	<b>195</b>
(c) Lycopodium Powder per 100 grams	<b>480</b>
<b>CP-619</b> <b>Bell Apparatus</b> "Craft"	<b>1,200</b>
<b>CP-620</b> <b>Organ Pipe</b> "Craft"	<b>670</b>
<b>CP-621</b> <b>Spiral Spring</b> "Craft"	<b>198</b>
<b>CP-622</b> <b>Resonance Box</b> 2 knobs	<b>450</b>
<b>CP-630</b> <b>Gonimeter Searl's</b> "CRAFT" For measurement of the focal length of an optical system by means of the properties of the nodal point	<b>10,980</b>
<b>CP-638</b> <b>Wave Motion Apparatus</b> Aluminium	<b>2,100</b>



CP-600



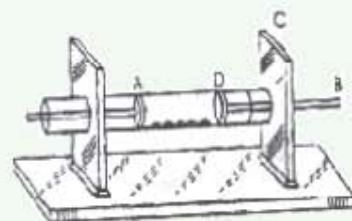
CP-605



CP-615



CP-610



CP-618



CP-621

## ELECTRICITY

	Rs. Each
<b>CP-700 Leclanche Cell</b> "Craft" Complete with Porous pot. Zinc rod and Plastic vessel	<b>415</b>
<b>CP-702 Daniel Cell</b> "Craft" Complete with copper vessel zinc rod and Porous pot	<b>580</b>
<b>CP-703</b> A. <b>Carbon Rod</b> with Terminals	<b>72</b>
B. <b>Copper Plate</b> with Terminals	<b>72</b>
C. <b>Copper Plate</b> with heavy gauge 6"×2"	<b>85</b>
D. <b>Porous Pot</b> Empty	<b>45</b>
E. <b>DA-Porous Pot</b> Filled	<b>152</b>
F. <b>Zinc Plate</b> 6"×2"×28 SWG	<b>58</b>
G. <b>Zinc Rod</b> 6"×10 mm	<b>72</b>
<b>CP-705 Dry Cell</b> large size with terminal 2 volt	<b>2,200</b>
<b>CP-707 Standard Cell Electronic</b> "Craft" (cadmium cell)	<b>2,900</b>
<b>CP-710 Acid Accumulator</b> Globe 2 Volts multiplate type in Plastic Container, Unchanged Dry "Globe"	
<b>@ 20 hrs. rate</b>	
(a) Type GZP-5 2 Volts Cap. 20 A.H.	<b>880</b>
(b) Type GZP-7 2 Volts Cap. 30 A.H.	<b>1,020</b>
(c) Type GZP-9 2 Volts Cap. 40 A.H.	<b>1,120</b>
(d) Type GZP-11 2 Volts Cap. 50 A.H.	<b>1,010</b>
<b>CP-715 Acid Accumulator</b> Standard 2 Volts, Unchanged Dry in rubber Container "Globe"	
20 A.H. Capacity	<b>1,700</b>
40 A.H. Capacity	<b>1,830</b>
<b>CP-718 Alkaline Accumulator</b> (Nife Cells). Duly charged in crate of two cells	
Capacity	25 A.H.    45 A.H.    75 A.H.
Price Ra.	<b>3,700    5,100    6,550</b>



**CP-700**



**CP-710**



## POST OFFICE BOXES

**CP-750 Post Office Box "Craft" Plug Type Rs. Each**

- (a) Manganin Coils Accuracy Ratio coils  
0.05% Resistance coils. 0.1% 4 ratio coils 1, 10, 100 & 1000 series arm. 1 to 5000 ghms total. 11.110 ohms. Two tapping keys with platinum contacts are provided for battery and galvanometer. **4,400**
- (b) ditto but with 3 ratio coils Manganin coils **4,800**
- (c) ditto but with 4 ratio coils Constanton coils 0.1% **5,100**



**CP-750**

**CP-752 Post Office Box "Craft" Dial Type :**

- (a) 6 DIALS each dial consists of 10 steps units, hundreds and thousand. Provided with 2 ratio dials of 1, 10, 100 and 1000 ohms Constanton coils "B" grade Accuracy 0.05 to 0.1%. **7,400**
- (b) ditto Same as above but with Manganin Coil "A" grade accuracy 0.02 to 0.05% **8,750**

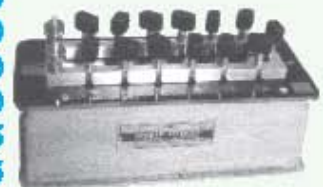


**CP-752**

## RESISTANCE BOXES

**CP-780 Resistance Boxes. Plug Type "Craft"—Constanton coils and Manganin coils Rs. Each**

<i>Range in ohms</i>	<i>TOTAL Resistance in ohms</i>	
0.1-1	2	<b>1,480</b>
0.1-5	11	<b>1,690</b>
0.1-10	21	<b>2,050</b>
0.1-50	111	<b>2,300</b>
0.1-500	1111	<b>2,800</b>
1-10	20	<b>1,380</b>
1-20	40	<b>1,575</b>
1-50	110	<b>1,575</b>
1-100	210	<b>1,800</b>
1-500	1110	<b>1,910</b>
1-1000	2110	<b>2,200</b>
1-5000	11110	<b>2,810</b>
1-10000	21110	<b>3,100</b>



**CP-780**

**Rs. Each**

- |               |   |              |
|---------------|---|--------------|
| <b>CP-725</b> | (a) <b>Battery Charger</b> "Craft" Input 220 volts, AC Output 9 volts, 12 Volts 5 Amps fitted with fuse. Amperemeter and Potentiometer to control the current | <b>2,470</b> |
|               | (b) —do— same as above but of 3 Amps  | <b>1,900</b> |
|               | (c) —do— same as above but of 2 amps  | <b>1,660</b> |
| <b>CP-730</b> | <b>Battery Eliminators</b> "Craft"  |              |
|               | (a) Output 2-4-6-8-10 & 12 volts D.C. 5 Amps  | <b>1,900</b> |
|               | (b) Output 2-4-6-8-10 & 12 volts D.C. 3 Amps  | <b>1,320</b> |
|               | (c) Output 2-4-6-8-10 & 12 volts D.C. 2 Amps  | <b>1,155</b> |
|               | (d) Output 2-4-6-8-10 & 12 volts D.C. 1 Amp   | <b>1,155</b> |
|               | (e) Dry battery 6 volts   | <b>1,250</b> |



**CP-725**



**CP-730**

## METER BRIDGES AND POTENTIOMETERS

**Rs. Each**

- |               |   |              |
|---------------|---|--------------|
| <b>CP-735</b> | <b>Meter Bridge (Wheatstone Bridge)</b> "Craft" Copper fittings Brass Spring. Type Jockey Wooden base |              |
|               | (a) Meter Bridge Sun mica   | <b>1,590</b> |
|               | (b) Meter Bridge Carey foster type  | <b>1,725</b> |
| <b>CP-740</b> | <b>10 Wires Potentiometer</b> "Craft" with ten point Jockery  | <b>1,820</b> |
| <b>CP-741</b> | <b>10 Wires Potentiometer</b> special quality with pulleys  | <b>3,750</b> |
| <b>CP-742</b> | <b>4 Wires Potentiometer</b> "Craft". With surmica fitted underneath the wires                        | <b>1,850</b> |
| <b>CP-748</b> | <b>Crompton Potentiometer</b> "Craft" Direct Reading type Range 0.001 to 1.75 volts manganin coil     | <b>7,900</b> |
| <b>CP-749</b> | <b>Pencil Jockey</b> (Brass Parts)  | <b>95</b>    |



**CP-740**



**CP-781 Resistance Boxes.** Dial Type "Craft"—Constantan coils and Manganin coils (Decade Resistance Boxes)

**Rs. Each**

**Single Dial**

Tenths	1,380
Units	1,380
Tens	1,380
Hundreds	1,380
Thousands	1,380

**Two Dials**

Tenths & Unit	2,500
Units and Tens	2,500
Tens and Hundreds	2,500
Hundreds and Thousands	2,500

**Three Dials**

Tenths, Units and Tens	3,900
Units, Tens and Hundreds	3,900

**Four Dials**

Tenths, Units, Tens and Hundreds	4,850
Units Tens, Hundreds and Thousands	4,850

**Five Dials**

Tenths, Units, Tens, Hundreds and Thousands	7,100
Units, Tens, Hundreds Thousands and Ten Thousands	7,100



**CP-781**

**RESISTANCE COILS**

**Rs. Each**

**CP-800 Resistance Coils** "Craft" In round Bakelite case  
Range 0.1 to 100 W (Routine quality)

**42**

**CP-801 Resistance Coils** "Craft" With short circuit plus

Resistance in ohms	0.1	0.2	0.5	1-50
Price Rs. each	320	320	320	320

**CP-805 Resistance Coils Manganin** "Craft"  
Enclosed in Perforated case for oil immersion and 4 terminals type

Resistance in ohms	0.01	0.02	0.05	0.1	0.2
Price Rs. each	410	410	410	410	410



**CP-800**

## CONDENSERS/CAPACITORS

	<b>Rs. Each</b>
<b>CP-807 Condensers :</b> "Craft" High quality Paper Condensers in teak wood box filled with ebonite top and terminals	
(a) Capacity : 0.001, 0.002, 0.005 or 0.01 m.f.d.	<b>280</b>
(b) Capacity : 0.02, 0.05, 0.1 or 0.5 m.f.d.	<b>300</b>
(c) Capacity : 1 m.f.d.	<b>340</b>
(d) Capacity : 2 m.f.d.	<b>370</b>
(e) Capacity : 5 m.f.d.	<b>440</b>



**CP-807**

## DECADE CONDENSERS

Decade condensers (Capacity Box) Dial Type "CRAFT" Manufactured in one or more dials each consisting of ten steps fitted in spray painted box

*Sub. Division m.f.d. Step Total m.f.d. Ra. Each*

**Single Dial**

<b>CP-810</b>	0.001	10	0.01	<b>1,280</b>
<b>CP-811</b>	0.01	10	0.1	<b>1,280</b>
<b>CP-812</b>	0.1	10	1.0	<b>1,280</b>
<b>CP-813</b>	1	10	10.0	<b>1,590</b>

**Two Dials**

<b>CP-814</b>	0.001 and 0.01	20	0.11	<b>2,400</b>
<b>CP-815</b>	0.01 and 0.1	20	1.1	<b>2,400</b>
<b>CP-816</b>	0.1 and 1	20	11	<b>3,100</b>

**Three Dials**

<b>CP-817</b>	0.001 and 0.01	30	1.11	<b>3,850</b>
	0.01, 0.1 and 1	30	11.1	<b>4,100</b>

**Four Dials**

<b>CP-818</b>	0.001, 0.01, 0.1 and	40	11.11	<b>5,250</b>
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**CP-817**

### Biocraft 100% Satisfaction

**All our products are unconditionally guaranteed. If for any reason you are not satisfied with any item you may return it for a replacement, a refund, it's that simple.**



## BRIDGES

	<b>Rs. Each</b>	
<b>CP-825 Kohlrausch conductivity Bridge</b>	<b>8,250</b>	 <b>CP-825</b>
<b>CP-828 Conductivity Cell</b>	<b>2,415</b>	
<b>CP-830 Induction Coil</b>	<b>1,850</b>	
<b>CP-835 Platinum Resistance Thermometer</b>	<b>8,600</b>	
<b>CP-838 Hay's Bridge with Oscillator and Null detector</b>	<b>11,900</b>	<b>Rs. Each</b>
<b>CP-840 Kelvin Double Bridge Student's</b>		<b>10,000</b>
<b>CP-841 Kelvin Double Bridge Dial Pattern Precision</b>		<b>19,200</b>
<b>CP-845 Callender &amp; Griffith's Bridge, Carry Foster's Bridge and Potentiometer, 3 instrument in one</b>		<b>8,500</b>
<b>CP-848 Anderson's Bridge complete with Oscillator &amp; Null Detector</b>		<b>11,500</b>
<b>CP-850 Conductivity Attachment</b>		<b>3,300</b>
<b>CP-855 Desauty's Bridge complete with Oscillator and Null Detector</b>		<b>11,500</b>
<b>CP-858 Releigh's Bridge with Power Supply, Galvo and Inductance Coil</b>		<b>18,400</b>
<b>CP-860 Wheat Stone Bridge Portable with Battery and Galvo</b>		<b>6,210</b>
<b>CP-862 Maxwell Inductance Bridge comple with Oscillator and Null Detector</b>		<b>11,500</b>
<b>CP-864 Schearing Bridge with Oscillator and Digital Null Detector</b>		<b>11,500</b>
<b>CP-866 Wein's Bridge (Frequency) with function Generator and head phone</b>		<b>13,800</b>

## MEGOHMS

	<b>Rs. Each</b>	
<b>CP-870 Megohm Box "Craft" Pillar Type with independent terminals Manganin Coils</b>	<b>3,470</b>	 <b>CP-870</b>
<b>CP-872 Megohm Box "Craft" Dial Type sub-divided in tenths</b>	<b>3,470</b>	
<b>CP-875 Megohm Box "Craft" Plug Type Accuracy 0.1%</b>	<b>3,470</b>	

## GALVANOMETERS

	<b>Rs. Each</b>
<b>CP-880</b> Tangent Galvanometer "Craft" Complete with Compass Box	<b>1,520</b>
<b>CP-882</b> Helmholtz Galvanometer "Craft"	<b>2,600</b>
<b>CP-885</b> Three Button Type Galvanometer "Craft"	<b>2,950</b>
<b>CP-890</b> De Arsonal Galvanometer "Craft"	<b>3,750</b>
<b>CP-895</b> Ballistic Galvanometer "Craft"	
(a) Resistance 10 Ohms	<b>4,650</b>
(b) Resistance 100 ohms	<b>4,850</b>
(c) Resistance 500 ohms	<b>4,850</b>
<b>CP-898</b> Mirror Galvanometer "Craft" Dead Beat Type Resistance 20 Ohms/50 ohms	<b>3,900</b>
<b>CP-900</b> Lamp and Scale Arrangement "Craft" for use with 220 volts A.C., i.e., fitted with a transformer	<b>4,180</b>
<b>CP-905</b> Pointer Galvanometer Taut Suspension "Craft"	<b>4,300</b>
<b>CP-910</b> Spot Reflecting Galvanometer "Craft" Resistance of coil 100 ohms approx. Sensitivity 00.05 to 0.05 micro amperes CDR 100 ohms approx	<b>5,400</b>
<b>CP-912</b> Stewart and Gees Apparatus	<b>6,400</b>
<b>CP-915</b> Stewart and Gees Tangent Galvanometer "Craft" All metal	<b>4,280</b>



**CP-880**



**CP-882**



**CP-915**



**CP-910**



**CP-900**



**CP-895**



## METERS (MOVING COIL)

	<b>Rs. Each</b>
<b>CP-920</b> Ammeter with case MO-65 in thermocol box	<b>370</b>
<b>CP-922</b> Milliammeter with case MO-65 in thermocol box	<b>370</b>
<b>CP-925</b> Voltmeter with case MO-65 in thermocol box	<b>370</b>
<b>CP-927</b> Millivoltmeter with case MO-65 in thermocol box	<b>370</b>
<b>CP-929</b> Galvanometer with case MO-65 in thermocol box	<b>370</b>
<b>CP-931</b> Ammeter or voltmeter or Galvanometer MR-80 Rectangular with desk stand Export quality in thermocol box	<b>480</b>
<b>CP-935</b> Ammeter or voltmeter or Galvanometer, MR-100 Rectangular with desk stand Export quality in thermocol box	<b>480</b>
<b>CP-937</b> Micro Ammeter 0-100 on stand (MO-65)	<b>410</b>
<b>CP-939</b> Micro Ammeter 0-250 on stand (MO-65)	<b>390</b>
<b>CP-945</b> Demonstration Ammeter, Voltmeter, Galvanometer (each)	<b>850</b>
<b>CP-950</b> Digital Voltmeter DC	<b>1,750</b>
<b>CP-952</b> Digital Ammeter DC	<b>1,750</b>
<b>CP-955</b> Milivoltmeter 250 mv	<b>480</b>
<b>CP-960</b> Convergence of Galvanometer to voltmeter/ammeter	<b>3,250</b>



**CP-920**



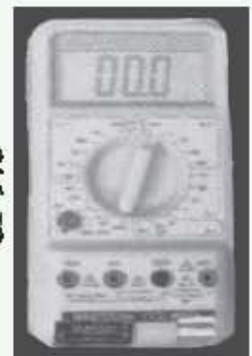
**CP-931**



**CP-935**

## MULTIMETERS

<b>CP-975</b> Multimeter Sanwa Model P-3	<b>Rs. 785 each</b>
DC Volts : 0.25, 10, 50-250-1 KV	
A.C. Volts : 10-50-250-500-1 KV (2K ohm/V)	
D.C./M.A. : 0-25 ma, 10 mA, 250 mA	
Ohms : 100 ohms 10 K ohms	
db : 20 + 22 db & 36 db (at AC/50V range)	



**CP-975**

## VOLTAGE CHANGERS

**CP-978 Step Down Transformer "Craft"**

**Rs. Each**

- (a) Input 220 volts A.C. Output 6/12 volts A.C. at 2 Amps. **1,540**
- (b) Input 220 volts A.C. Output 3, 6, 9, 12, 15 volts A.C. 3 Amps **1,650**
- (c) Input 220 volts A.C. Output 3, 6, 9, 12, 15 volts A.C. 5 Amps **2,800**

**CP-985 Induction coils "Craft"**

- (a) Spark Length 10 mm **1,600**
- (b) Spark Length 25 mm **2,300**
- (c) Spark Length 50 mm **4,700**
- (d) Spark length 100 mm **6,500**

## RHEOSTATS

**CP-990 Rheostats :** Constantan wire Heavily oxidised. Wound on 43 mms round vitreous phosphorus meta tubes. phosphorus Bronze contact Insulation test voltage 2000 volts A.C. Open type

Tube length	15	20	25	30	35	40	45 cms
7.5 Amps	3	4.6	6.2	7.6	9.4	11	12.6 ohms
5.5 Amps	4.5	6.5	9	11	13	15	18 ohms

**Price Rs. 1,090 1,375 1,700 2,020 2,340 2,660 2,975 each**

4.5 Amps	8	12	16	20	24	28	3 ohms
3.2 Amps	15	22	30	37	45	52	60 ohms
2.3 Amps	37	43	74	92	110	126	158 ohms
1.8 Amps	50	75	100	125	150	175	200 ohms
1.4 Amps	90	136	180	225	270	315	355 ohms
1.0 Amps	160	240	320	400	480	560	640 ohms
0.8 Amps	270	400	510	670	800	930	1070 ohms
0.4 Amps	600	975	1300	1625	1950	2275	2640 ohms

**Price Rs. 890 1,145 1,320 1,540 1,850 2,400 2,600 each**



**CP-990**

## SPECTRUM TUBES

**Rs. Each**

**CP-995 Spectrum Tubes :** Helium, Neon, argon, Mercury, Chlorine, Hydrogen, Oxygen, Carbon Dioxide and Nitrogen **580**

**CP-998 High Voltage Transformer "Craft"** for use with above Gas Discharge tubes (Spectrum Tubes) **5,600**

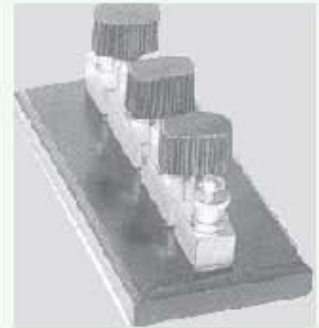


## KEYS & COMMUTATORS

<b>CP-1000</b>	<b>Plug Keys</b> "Craft" Bakelite	<b>Rs. Each</b>
	base College quality	
(a)	One way	<b>98</b>
(b)	Two way	<b>165</b>
(c)	Three ways	<b>190</b>
(d)	Four ways	<b>290</b>
<b>CP-1005</b>	<b>Reversing Keys</b> "Craft"	
	Bakelite College Quality	
(a)	Rocking type	<b>260</b>
(b)	4 Plug type	<b>295</b>
(c)	Pohl's type	<b>260</b>
	Charge and discharge Keys "Craft"	<b>525</b>
<b>CP-1010</b>	<b>Tapping Key</b> or Single contact Key "Craft"	<b>110</b>
<b>CP-1011</b>	<b>Tapping Key</b> double Contact "Craft"	<b>170</b>
<b>CP-1015</b>	<b>Rayleigh's Key</b> "Craft"	<b>750</b>
<b>CP-1020</b>	<b>Carey foster Key</b> "Craft"	<b>1,020</b>
<b>CP-1025</b>	<b>Telephone Model</b> Both Ways "Craft"	<b>1,800</b>
<b>CP-1028</b>	<b>Telephone Transmitter</b> "Craft"	<b>690</b>
<b>CP-1030</b>	<b>Telephone Receiver</b> "Craft"	<b>690</b>
<b>CP-1035</b>	<b>Telephone Key</b> or <b>Morse Key</b> G.P.O.	
	Pattern "Craft"	<b>780</b>
<b>CP-1040</b>	<b>Telephone Sounder</b> "Craft"	
(a)	5 ohms	<b>690</b>
(b)	ditto 20 ohms	<b>710</b>
<b>CP-1045</b>	<b>Morse Key and Sounder</b> "Craft"	
	Combined on board	<b>870</b>



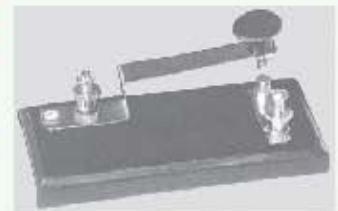
**CP-1000a**



**CP-1000c**



**CP-1005**



**CP-1010**

## WIRES AND GENERAL

**CP-1050 Insulated Wire for connections.** Copper (DCC)

	(a) SWG 20	(b) SWG 22	(c) SWG 24
Rs. per 100 gms	<b>600</b>	<b>600</b>	<b>700</b>

**CP-1055 Eureka or Constanton Wire**

S.W.G.	16-18	20-22	24	26	28	30
Rs. 100gms	<b>210</b>	<b>210</b>	<b>300</b>	<b>350</b>	<b>390</b>	<b>415</b>

**CP-1056 Magninwire—S.W.G.**

	20	22	24
per 100 gms	<b>380</b>	<b>380</b>	<b>380</b>

**CP-1058 Soldering Iron.** Pencil bit. for soldering wires.

(a) 15 wttts — <b>Rs. 160</b>	(b) 25 wttts — <b>Rs. 180</b>
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**CP-1059 Battery Clips** **Rs. 20**

**CP-1060 Crocodile Clips** **Rs. 18**

**CP-1062 Banana Socket** 4 mm size **Rs. 18** each

**CP-1065 Copper Voltmeter** "Craft" Ebonite Top 3 plates type **Rs. 610**



**CP-1055**



**CP-1060**

## BALANCES & WEIGHT BOXES

	<b>Rs. Each</b>
<b>CP-1070 Physical Balance Varanasi.</b> Precision open beam Physical balance with extended support divided door case brass pans and wooden base capacity 250 gms. Sensitivity 1 mgm	<b>3,850</b>

**CP-1095 Weight Boxes Physical** CRAFT Brass nickle Plated weights in Chemical **590**

**CP-1098 Spring Balance**

	250 gm	500 gm	1000 gms
Each Rs.	<b>50</b>	<b>60</b>	<b>90</b>



**CP-1098**



## PHYSICS – MODELS

	<b>Rs. Each</b>
<b>CP-1101</b> Model of Dynamo	<b>620</b>
<b>CP-1102</b> Model of Motor AC/DC	<b>710</b>
<b>CP-1103</b> Bell demonstration model	<b>600</b>
<b>CP-1105</b> Model of Bio Gas plant	<b>990</b>
<b>CP-1106</b> Model of Solar Cooker	<b>990</b>
<b>CP-1107</b> Model of Wind Mill	<b>990</b>
<b>CP-1108</b> Model of Petrol Engine	<b>2,500</b>
<b>CP-1109</b> Model of Diesel Engine	<b>2,500</b>
<b>CP-1111</b> Model of Internal Composition	<b>3,100</b>
<b>CP-1114</b> Model of Jet Engine	<b>4,400</b>
<b>CP-1116</b> Model of Steam Engine	<b>1,650</b>
<b>CP-1117</b> Model of Steam Engine Dissected	<b>2,700</b>
<b>CP-1118</b> Model of Turbine	<b>2,900</b>
<b>CP-1125</b> Model of Solarfan	<b>750</b>
<b>CP-1126</b> Model of Solarmeter	<b>750</b>
<b>CP-1127</b> Model of Solar Pump	<b>2,400</b>
<b>CP-1128</b> Model of Solar Water Heater	<b>3,600</b>



**CP-1108**



**CP-1109**



**CP-1116**

***Biocraft believes***

**“Quality is not an Act” it is a HABIT**

**We are placed on this Earth to Create,  
not only to Compete.**

## ELECTRONIC INSTRUMENTS

### CP-1200 E/M By Thompson Method (Bar Magnet Method)

**Specification :** Input—230 volts 50 c/s; ENT—800 volts at 10 MA; Deflection volts—0-50 volt at 15 MA; LT—6.3 V at 2 A

Provided with wooden stand, Deflection magnetometer and pair of bar magnet

Analog **13,455**

Digital **14,310**



**CP-1200**

### CP-1203 E/M By Magnetron Valve Method

Magnetron Power Supply

Input—230 volt AC; HI—250 volts at 200 Microamps and LT—63 V at 2 A

Power supply for Solenoid

Input—230 V AC; Output—30 V; DC at 5 A **16,380**



**CP-1203**

### CP-1205 E/M By Helical Method (Long Solenoid) **26,100**

### CP-1207 Ultrasonic Diffraction Apparatus

**High Power R.F. Oscillator**

**Accessories**—Sodium Lamp and TXFR; Ceramic Crystal, Tank, Liquid—Kerosene oil **27,900**



**CP-1205**

**CP-1209 Resistivity of Semiconductor** by four probe method at different temperature and determination of band gap complete in all respect **16,200**

### CP-1212 Hall Effect Experiment

**Apparatus**—(a) Electromagnet 0-7.5 K Gauss, (b) Power Supply, (c) Digital Gauss Meter with Probe, (d) Hall set up, (e) Hall Probe GE Xtal **45,360**



**CP-1207**

**CP-1214 Electron Spin Resonance Spectrometer**—Complete in all respect without CRO **58,500**

**CP-1216 Apparatus for the Measurement** of Susceptibility of Para Magnetic Solution by Quink's Tube Method. Complete with Electro Magnet and Power Supply, Quinks tube with stand and digital gauss meter with probe. **42,750**



**CP-1209**



**CP-1219 Magnetic Hysteresis Loop Tracer**—Complete without CRO **3,195**

**CP-1221 Digital Gauss Meter**

**Specification :** Range—0-2 kg and 0-20 kg; Resolution—1 G at 0-2 KG range; Accuracy  $\pm 0.5\%$ ; Temperature—Upto 500C; Display—3½ digit, 7 segment LED DPM with auto polarity and overflow indication; Power—220 V  $\pm 10\%$ , 50 Hz; Transducer—Hall Probe-InAs **12,240**

**CP-1223 V.T.V.M. (Vacuum Tube Volt Meter VM-10)**

**Specification :**

AC voltage—0-1.5, 5, 15, 50, 150, 500, 1500 volts  
 DC voltage—0-1.5, 5, 15, 50, 150, 500, 1500 volts  
 Resistance—0-1 K, 10 K, 100 K, 1 M, 10 M, 100 M, 1000 Meg. Ohms  
 Calibration Accuracy—AC voltage  $\pm 4\%$  on all ranges  
 Frequency Response—Within range of -50 c/s to 5 Mc/s Flat  
 Input impedance—DC voltage 11 Mohms on all range for AC voltage 5 M **6,210**



**CP-1223**

**CP-1225 Radiation Counting System (GM Counter)**—Instrument consists of power supply for G.M. Tube with digital read out meter, 6 digit counting system with its power supply control for reset, start and stop through on panel, presetable timer with 3 digit display and thumb wheel switch.

Complete with G.M. Tube, stand and one radioactive source B. Digital Voltmeter for read the G.M. **48,780**



**CP-1223**

**OSCILLATOR/FUNCTION GENERATOR**

**CP-1228 Audio Signal Generator**

Frequency Range—1 Hz to 1 MHz in six decade step; Output Voltage—Since wave 0-10 V in three steps with continuously variable; Square Wave—0-15 p/p conti-nuously variable; Distortion—Since wave less than 0.5% between 100 Hz to 100 KHz; Output impedance—600 Ohms digital **10,080**



**CP-1228**

**CP-1230 Audio Signal Generator**

Frequency—20 Hz to 200 KHz in four decade step;  
 Output Voltage—Since wave 0-10 V in two decade step with continuously variable control; Square Wave—0-15 p/p continuously variable; Distortion—Less than 0.5% between 100 Hz to 100 KHz **4,680**



**CP-1230**

**CP-1233 Function Generator**

Wave forms—Sine, Square, Triangle; Frequency Range—0.1 Hz to 100 MHz in five decade step; Output Voltage—0-6 V **9,900**



**CP-1233**

**CP-1235 AF Oscillator (F. Generator) Digital**

Frequency—0.1 Hz to 1 MHz in seven decade ranges; Display—7 segment digital 4 digit display; Gate Time—10 sec, 1 sec, 0.1 sec (internally setted); Function—Sine, Square, Triangle and TTL pulse output. Ramp and pulse with the help of duty cycle/symmetry control.

**Specifications** : Frequency—1000 c/s fixed; Accuracy— $\pm 1\%$ ; Wave form—Sine wave; Output volts—0-20 V Input—230 volts AC 50 Hz **10,620**



**CP-1238**

**CP-1238 P.N.P. Common Emitter Transistor Characteristic Curve Apparatus**—The instrument is designed to draw input as well as output characteristic curve of a P.N.P. Transistor. It has two regulated power supplies of its own and four meters.

**Specifications** : Input—230 volt AC; Output—0-9 volts at 50 mA; Stability— $\pm 0.05\%$  **3,015**



**CP-1240**

**CP-1240 P.N.P. Common Emitter Transistor Characteristic Curve Apparatus (with Digital Meter)** **5,220**

**CP-1242 Transistor Characteristic Apparatus CB/CE/CC** **3,960**

**CP-1244 P.N.P. & N.P.N. Transistor Characteristic Apparatus**—The instrument is designed to draw input as well as output characteristic curve of a P.N.P. Transistor AC 128. It has two regulated power supplied of its own and four meters.

**Specifications** : Input—230 volt AC; Output—0-9 volts and 50 mA; Stability— $\pm .05\%$  **3,690**



**CP-1247 FET Transistor Characteristic Apparatus**

The Characteristic of a FET Transistor its drain current vs drain source voltage and VGS. Complete with circuit diagram. **3,960**

**CP-1249 MOSFET Characteristic Apparatus**

The characteristic of a MOSFET. Complete circuit diagram is engraved on the front panel. Three meters are provided with power supply of its own. **3,915**

**CP-1250 Characteristic of SCR**

Complete with three meters to read anode current, anode voltage and gate current. Two built in power supplies are provided. **3,780**

**CP-1252 Characteristic of DIAC**

The instrument is designed to draw the characteristic of a DIAC. It is provided with 0-30 volts IC regulated power supply and 2 meters. **3,240**

**CP-1255 Characteristic of TRIAC**

The instrument is designed to draw the characteristic of a triac. It is provided with 0-30 volts and 0-5 volts power supplies. IC regulated. Provided with three meters. **3,870**



**CP-1255**

**CP-1257 UJT Characteristic Curve Apparatus**

The instrument is designed to draw the characteristic curve of UJT. It has two power supplies of its own and four meters to draw input characteristic, complete circuit diagram is provided on the front panel. **3,870**

**CP-1260 Zener Diode Characteristic Apparatus**

To draw the characteristic curve of a Zener Diode forward bias as well as reverse bias. Provided with two power supplies :

- (a) With four meters **2,970**
- (b) With two meters **1,775**
- (c) With four digital meters **3,555**



**CP-1260**

**CP-1262 Zener Diode as a Voltage Regulator**

Complete circuit diagram is engraved on the front panel. Complete with power supply and meter. **3,690**

**CP-1265 Thermister Characteristic Apparatus**

With power supply and two meter **3,690**

**CP-1267 Energy Band Gap of PN Junction Diode**

Provided with power supply, 2 meter, thermometer **4,100**

**CP-1269 Photo Diode Characteristic Apparatus**

The instrument is designed to draw the current versus intensity of light at different value of voltage. It has built in power supply with two meters. **3,555**

**CP-1271 Photo Transistor Characteristic Apparatus**

The instrument is designed to draw the current versus intensity of light at different value of voltage. It has built in power supply with two meters. **3,555**

**CP-1273 Solar Cell Characteristic Apparatus**

The instrument is designed to draw the graph between current and voltage, between resistance and voltage. **3,780**

**CP-1275 Verification of Stefan's Law Apparatus**

The complete circuit diagram is engraved on the front panel with power supply, two meters and bulb 19 V. **2,880**

**CP-1277 Diode Characteristic Apparatus**

The instrument work on 230 V AC. It consists of regulated power supply of its own, fitted with a diode value on the front panel. The anode voltage can be varied from 0.25 V at 25 milli amps. Two meter to read the anode voltage. The instrument is built in steel box. **3,870**

**CP-1280 Photo Cell Characteristic Apparatus**

A variable DC power supply is fitted with two meters to read DC voltage applied to the photo tube, and second meter is provided to read the current. **12,555**

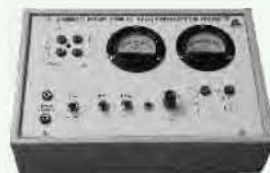
**CP-1283 Plank's Constant Apparatus with Analog Meter**

To determine Plank's constant using LED's of known wave length, power supply is built in provided with milli ammeter and voltmeter to read the current and voltage. **4,320**

(b) —do— With Digital Meter **10,350**



**CP-1265**



**CP-1267**



**CP-1273**



**CP-1275**



**CP-1277**



**CP-1283**



- CP-1284 OHM's Law Apparatus "Craft"**  
 To verify ohm's law, i.e.,  $V=IR$  unit consists of two moving coil meters to measure voltage and current, one wire wound. Rheostat circuit diagram engraved and terminal for connecting 6 V battery. Unknown resistance enclosed in duper wood box. **2,025**
- CP-1285 Thyratron Characteristic Apparatus**  
 To study the ionization potential of thyratron valve 2D21 with 2 meters, with built in power supply of its own. **4,410**
- CP-1287 Single Channel Oscilloscope**  
 10 MHz. Imported. **16,650**
- CP-1289 Dual Trace Oscilloscope— 20 MHz** **26,550**
- CP-1291 B.H. Curve Apparatus**  
 Complete circuit diagram is engraved on the front panel. Terminals are provide for X and Y plates. **3,555**
- CP-1294 Hartley OscillatorUsing Transistor** **2,340**
- CP-1296 Colpitt OscillatorUsing Transistor** **2,340**
- CP-1298 Wien Bridge OscillatorUsing Transistor** **2,475**
- CP-1299 Phase Shift OscillatorUsing Transistor** **2,160**
- CP-1302 Hartley/Phase shift/Colpitt/Wein Bridge Oscillator** **6,750**
- CP-1305 Free Running Multi Vibrator (Astable) Using IC 555** **2,430**
- CP-1307 Monostable Multi Vibrator—Using IC 555** **2,430**
- CP-1308 Bi-stable Multi Vibrator—Using IC 555** **2,430**
- CP-1310 (a) Single Stage R.C. Coupled Amplifier** **2,160**  
**(b) Two Stage R.C. Coupled Amplifier** **2,430**
- CP-1312 To Study Common Emitter Amplifier** **2,160**
- CP-1314 Transformer Coupled Amplifier** **3,870**
- CP-1315 Transistor Push Pull Amplifier** **2,790**
- CP-1317 Complementary Symmetry Amplifier** **3,375**



**CP-1284**



**CP-1287**



**CP-1291**

**CP-1319 Dual Channel Power Supplies**

- |                     |       |
|---------------------|-------|
| A. 0 - ± 15 V / 1 A | 7,470 |
| B. 0 - ± 15 V / 2 A | 7,875 |
| C. 0 - ± 30 V / 1 A | 7,650 |
| D. 0 - ± 30 V / 2 A | 8,010 |

**CP-1321 IC Regulated Power Supplies**

**Specification :** Input—230 volts AC; Output—0-30 volts and 5 amps; Load Regulation— ± 0.02%; Line Regulation— ± 0.05%; Ripple—Less than 1 mv r.m.s.; Protection—Protected against short circuit; Meters—Two meters are provided to read volts and amps. **9,810**

**CP-1325 IC Regulated Battery Eliminators**

- |                      |              |
|----------------------|--------------|
| (a) 2 -12 V / 500 mA |              |
| (b) 2 -12 V / 1 mA   |              |
| (c) 2 -12 V / 2 mA   |              |
| (d) 2 -12 V / 3 mA   | <b>2,835</b> |

**CP-1327 Digital Micro Voltmeter**

**Specification :** Range—1mV, 10mV, 100mV, 1V and 10V with 100% over ranging; Resolution—1µV; Display—3 1/2 digit, 7 segment LED with autopolarity and decimal indication; Power supply—220 V + 10%, 50 Hz **4,050**

**CP-1329 Digital Voltmeter DC**—Any range 0-1000 volts, built in a nicely polished box. **1,440**

**CP-1330 Digital Ammeter DC**—Any range from 0-5 amps built in a nicely polished box. **1,440**

**LOGIC TRAINING BOARDS**

**Rs. Each**

- |                |  |              |
|----------------|--|--------------|
| <b>CP-1650</b> | Basic Logic Gate Using Diode or and Gate         | <b>1,665</b> |
| <b>CP-1652</b> | Basic Logic Gate Using Transistor or, and, not   | <b>1,665</b> |
| <b>CP-1654</b> | Basic Logic Gate Using Transistor Nand, and, nor | <b>1,665</b> |
| <b>CP-1660</b> | Logic Trainer With 5 Cards                       | <b>2,865</b> |





## AMPLIFIER

		<b>Rs. Each</b>
<b>CP-1601</b>	To Study Common Base Amplifier	<b>2,475</b>
<b>CP-1602</b>	(a) Single Stage R.C. Coupled Amplifier	<b>2,475</b>
	(b) Two Stage R.C. Coupled Amplifier	<b>2,770</b>
<b>CP-1603</b>	Transistor Audio Amplifier	<b>2,970</b>
<b>CP-1604</b>	To Study Common Emitter Amplifier	<b>2,770</b>
<b>CP-1605</b>	Transformer Coupled Amplifier	<b>3,170</b>
<b>CP-1606</b>	Transistor Push Pull Amplifier	<b>3,170</b>
<b>CP-1607</b>	Complementary Symmetry Amplifier	<b>3,765</b>
<b>CP-1608</b>	Class 'A' Amplifier	<b>3,170</b>
<b>CP-1609</b>	Class 'B' Amplifier	<b>3,170</b>
<b>CP-1610</b>	Class 'C' Amplifier	<b>3,270</b>
<b>CP-1611</b>	Class 'AB' Amplifier	<b>3,270</b>
<b>CP-1612</b>	Study of Transistor Biasing Techniques Such as, Fixed Bias, Collector to Base Bias, Potential Divider Supplies	<b>4,455</b>



**CP-1606**



**CP-1610**

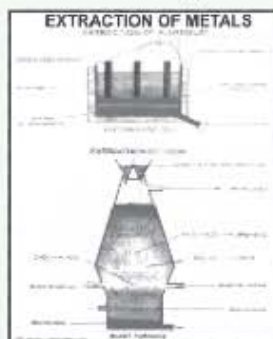
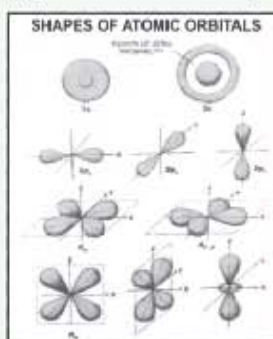
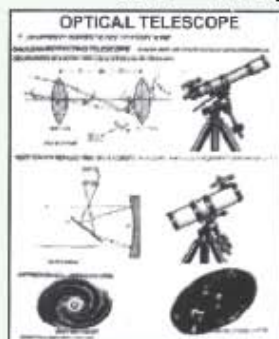
## BIOVISUAL REXINE CHARTS

Charts are made of water proof PVC (Rexine) size 125×100 cm or 100×75 cm

**Rs. 680/- each**

P 1	Inter Conversion of Energy Forms	B	P 11	Nuclear Radiation Detectors Part-II	C
P 2	Sound Spectra	C	P 12	Line Spectra of some Elements	C
P 3	Meter Principles Part-I	C	P 13	Crystal Structure-Type	C
P 4	Meter Principles Part-II	C	P 14	Particle Accelerators-Cyclotron	B
P 5	Semi-Conductor Fundamentals Part-I	C	P 15	Triode characteristics-Static	B
P 6	Semi-Conductor Fundamentals Part-II	C	P 16	Velocity of Light (Focaut's Rotting mirror method)	C
P 7	Transistor Characteristics	C	P 17	Atomic Reactor	C
P 8	Electronic Symbols Part-I	B	P 18	Cathode Ray Oscilloscope	C
P 9	Electronic Symbols Part-II	C	P 19	8085 Instruction Set	C
P 10	Nuclear Radiation Detectors Part-I	B	P 20	Light Refraction	C
			P 21	Light Reflection	C
			P 22	Light Dispersion	C

P 23	Light Diffraction	C P 53	Newton's Laws of Motion	C
P 24	Light Polarisation	C P 54	Calorimetry	C
P 25	Light Interference	C P 55	Amplifiers-Single Stage	B
P 26	Lenses Images	C P 56	Amplifiers-Multi Stage	B
P 27	Telescopes	B P 57	Amplifiers-Feed Back	C
P 28	Lasers	C P 58	Vernier, Screw, Gauge & Sphrometer	C
P 29	Magnets & Magnetic Properties	C P 59	Satellite communication	C
P 30	Transformers	C P 60	Boyle's Law	C
P 31	Dynamos	C P 61	Determination of Focal Lengths in Lenses & Mirrors	B
P 32	Kirchoff's Laws-Wheatstone & Metre Bridges	B P 62	Velocity of Sound	C
P 33	Dimensions Formulae	B P 63	Radar	C
P 34	N. Type P. Type Crystals	C P 64	Fax and Xerox	C
P 35	Surface Tension & Capillarity	C P 65	8086-Functional Block Diagram	C
P 36	Levers & Pulleys	C P 66	Thermo, Baro, Hydro & Manometers	C
P 37	Images of Lenses & Mirrors	B P 67	Developmental Stages of Statellite	C
P 38	Electromagnetic Induction	C P 68	Nuclear Power Plant	C
P 39	Rectifiers	C P 69	Charles Law	C
P 40	Filters	B E 21	Communication System-I	B
P 41	Multivibrators	C E 22	Communication System-II	C
P 42	Logic Gates	C E 23	Communication System-III	B
P 43	Oscillators	C E 24	Industrial Electronics-I	C
P 44	Telephone	C E 25	Industrial Electronics-II	B
P 45	Television	C E 26	Industrial Electronics-III	C
P 46	Photographic Camera	C E 27	Interfacing Peripherals-I	C
P 47	8085-Functional Block Diagram	B E 28	Interfacing Peripherals-II	C
P 48	Electrolysis	C E 29	Interfacing Pheripherals-III	C
P 49	Electro Magnetism	E 11	Refrigerator & Operation	C
P 50	Ohm's Law-Electric Circuits	C E 12	Refrigeration Principles	B
P 51	Computer			
P 52	Common Pumps : Force, Cycle Vacuum & Siphon			







30v DC Power Supply



Pully Block



Digital Signal Generator



Oscilloscope



Spherometer



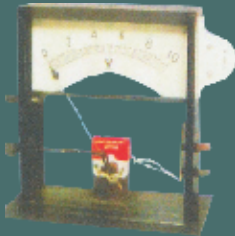
Telephone Apparatus



Voltmeter



Resistance Box



Demonstration Meter



Oscilloscope



Rheostat



**BIOCRAFT**

**BIOCRAFT SCIENTIFIC SYSTEMS (P) Ltd.**

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