Biocraft's Plant Physiology Apparatus

APPARATUS FOR OSMOTIC AND IMBIBITION PHENOMENON

BP 1 **Apparatus for measuring the external work**—Performed by swelling seed. **Rs. 1,900**

BP 2 **Apparatus for observing the phenomenon of absorption of water**—Borosilicate glass **Rs. 430**

BP 4 **Apparatus to show the energy of imbibition**—Borosilicate glass **Rs.570**

BP 6 **Apparatus for investigating the pressure effects**—Due to osmotic process—Borosilicate glass **Rs. 570**

BP 8 **Osmotic pressure apparatus**—With 'U' & 'T' tube fitted with stop cock—Borosilicate glass **Rs. 450**

BP 10 **Apparatus for demonstration of osmotic pressure with porous pot**—Borosilicate glass **Rs. 340**

BP 11 **Appartus for demonstrating the osmotic pressure**—Pfeffer's Complete—Borosilicate glass **Rs. 340**

BP 12 **Appartus for demonstrating the osmotic pressure**—Borosilicate glass **Rs. 520**

BP 13 **Apparatus for demonstrating osmotic pressure**—Comprising of a glass tube and a bell shaped vessel at the bottom—Borosilicate glass **Rs.340**

BP 14 **Demonstration osmoscope**—Ganog's—Borosilicate glass **Rs.450**

BP 16 **Osmometer pfeffer's**—Complete with poros pot and fine capillary manometer—Borosilicate glass **Rs. 350**

BP 17 **Endosmometer**—Borosilicate glass **Rs. 350**

BP 18 **Dialyser**—Borosilicate glass **Rs. 350**

APPARATUS FOR ROOT PRESSURE

BP 19 **Root pressure apparatus simple form w/o flower pot**—Borosilicate glass **Rs. 350**

BP 21 **Apparatus for experiments on root pressure**—Comprising of a 'T' tube with stop cock and graduated jar—Borosilicate glass **Rs. 350**

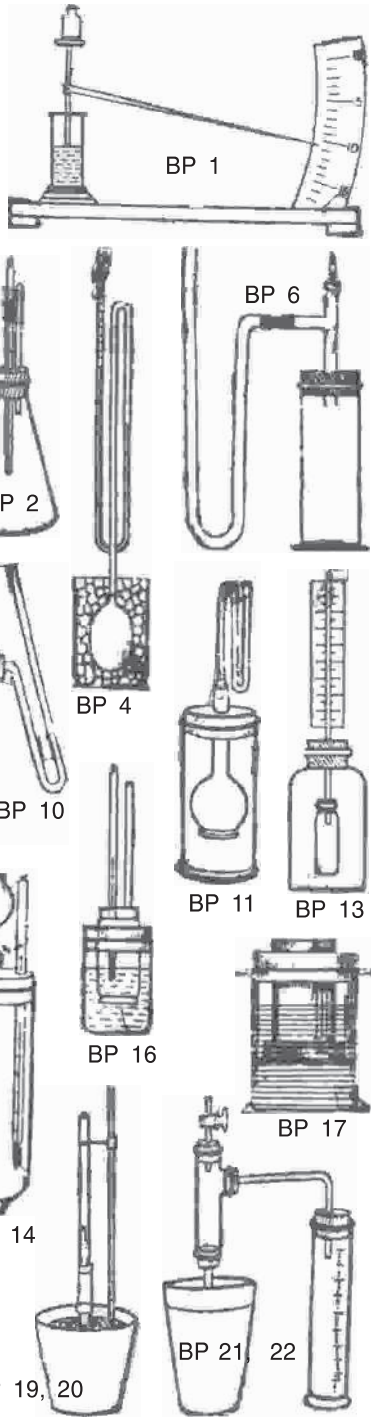
BP 22 **Apparatus for experiment on root pressure**—Borosilicate glass **Rs.370**

BP 23 **Apparatus to demonstrate the process leading to root pressure**—Borosilicate glass **Rs. 480**

BP 25 **High pressure manometer**—Ganong's graduated—Borosilicate glass **Rs. 350**

BP 27 **Apparatus for demonstrating the readiness with which the water moves in wood**—Borosilicate glass **Rs. 510**

BP 29 Apparatus for Investigating the influence of pressure–on the escape of water from plants— Borosilicate glass **Rs. 580**



Biocraft's Plant Physiology Apparatus

APPARATUS FOR TRANSPIRATION OF WATER

BP 31 **Apparatus for determining the quality of water absorbed and given off**— By transpiring plant (T/A app.) **Rs. 340**

BP 33 **Black man's apparatus**—For measurement of relative transpiration from two surface of leaf U—tube, Two bell jar Complete on stand. **Rs. 750**

BP 34 **Apparatus to show the stomata**—Places the aeriferous system with direct and open air communication with the external air complete. Borosilicate glass complete **Rs. 330**

BP 36 **Transpiration apparatus**—Complete on stand Borosilicate glass **Rs. 650**

BP 38 **Apparatus to measure the loss of water in transpiring plants**—Complete—Borosilicate glass **Rs. 750**

BP 39 **Apparatus to measure the loss of water with Pfeffer's graduated tube**—Borosilicate glass **Rs. 350**

BP 41 **Apparatus to demonstrate the suction due to transpiration**—Complete on stand and clamp—Borosilicate glass **Rs. 410**

BP 43 **Apparatus to show suction due to evaporation**—On Stand—Borosilicate glass **Rs. 410**

BP 45 Apparatus to demonstrate that air cavity of the leaf communicates with outer atmosphere through stomata **Rs. 410**

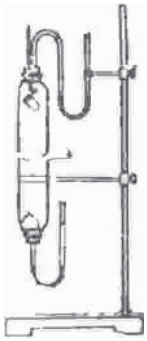
BP 46 **Apparatus for experiment to demonstrate the loss of weight during transpiration** **Rs. 410**

POTOMETERS

BP 47 **Potometer ganong's**—On stand with graduated fine capillary tube—Borosilicate glass **Rs. 300**

BP 50 **Potometer moll's**—For measuring absorption of water Borosilicate glass **Rs. 450**


BP 31, 32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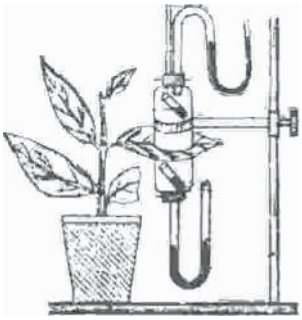
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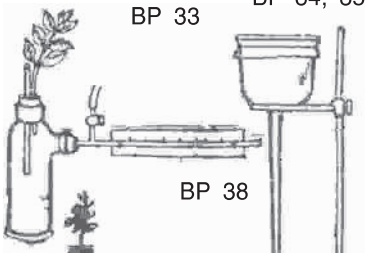
BP 34, 35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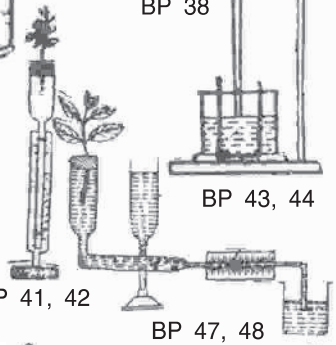
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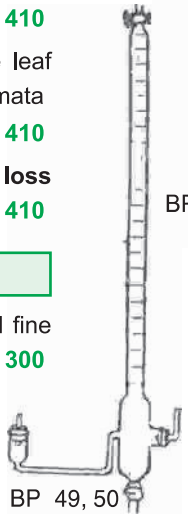
BP 41, 42

BP 47, 48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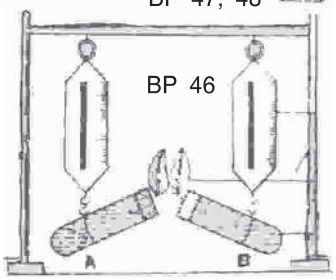


BP 46

Biocraft's Plant Physiology Apparatus

BP 51 **Potometer farmer's**—For measuring the amount of transpiration—Borosilicate glass **Rs. 410**

BP 53 **Darwin potometer**—Complete—Borosilicate glass **Rs. 410**

BP 56 **Thodayis Potometere on Borosilicate glass** **Rs. 720**

BP 56A **Gorrous Potometer**—Borosilicate glass **Rs. 340**

BP 56B **Bosse's Potometer**—Borosilicate glass **Rs. 340**

BP 57 **Potometer**—for observing the rate of absorption of water by transpiring plants under varying circumstances—Borosilicate glass **Rs. 750**

BP 59 **Apparatus to show the unequal transpiratory activities**—On the different surfaces of leaves **Rs. 180**

BP 60 **Transpiration tubes**—Graduated in 15 ml × 1.10 ml —Borosilicate glass **Rs. 195**

BP 62 **Apparatus for investigating the transpiration**—W/o Thermometer—Borosilicate glass **Rs. 390**

BP 64 **Space marking wheel**—Made of very hard rubber lining **Rs. 310**

BP 65 **Space marking disc** **Rs. 180**

BP 66 **Normal light screen**—Strongly built star shaped **Rs. 310**

BP 67 **Ganong's large light screen**—Wooden Box fitted with three colour of glasses having a slit to insert leaf. **Rs. 1,650**

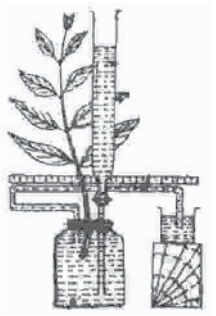
BP 68 **Apparatus to demonstrate the air cavity**—of the leaf Communicated with the outer through the stomata—Borosilicate glass **Rs. 700**

BP 70 **Leaf clasp ganong's special pattern**—Newly Designed. **Rs. 310**

BP 71 **Leaf clasp ganong's Simple Form** **Rs. 195**

BP 72 **Apparatus to demonstrate the cohesion of water**—And the development of tension in water column **Rs.600**

BP 73 **Leaf area cutter**—metallic **Rs. 510**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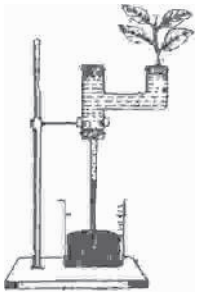
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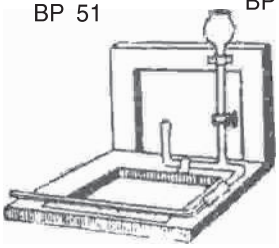
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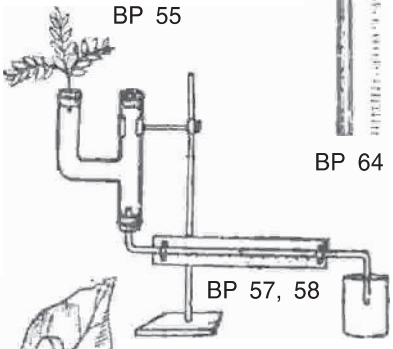
BP 64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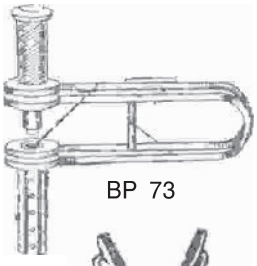
BP 70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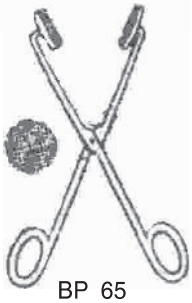
BP 66


BP 65

APPARATUS FOR RESPIRATION

BP 74 **Respiration apparatus**—For demonstrating the production of Carbon dioxide in the respiration of plant—Borosilicate glass **Rs. 920**

BP 76 **Absorption tubes (pettenkoffer's)**—5 cms. long with rubber corks—Borosilicate glass **Rs. 280**

Biocraft's Plant Physiology Apparatus

BP 79 **Respiration apparatus (pettenkoffer's)**—Complete with all accessories—Borosilicate glass **Rs. 1,400**

BP 80 **Apparatus for experiment on respiration of root**—A zinc trough and Jar fitted with ropping funnel—Borosilicate glass **Rs. 750**

BP 82 **Apparatus to investigate the influence of light on respiration**—Zinc trough with glass sides—Borosilicate glass **Rs. 990**

BP 84 **Apparatus to demonstrate the evolution of carbon dioxide**—Borosilicate glass **Rs. 910**

BP 86 **Ganong's respirometer**—Complete graduated levelling tube and fitted with stand—Borosilicate glass **Rs. 1050**

BP 89 **Demonstration respiroscope Ganong's Borosilicate** **Rs. 410**

BP 90 **Garreau's bottle**—Complete to show the production of Carbon dioxide **Rs. 350**

BP 91 **Garreau's tube 1000 ml capacity**—Borosilicate glass **Rs. 620**

BP 93 **Apparatus for experiment on plant respiration**—To demonstrate the consumption of oxygen in normal respiration. Two graduated tubes calibrated in 0.2 ml with two jar—Borosilicate glass **Rs. 940**

BP 95 **Apparatus for experiment to demonstrate that the oxygen**—of the air is used up in respiration. Borosilicate glass **Rs. 520**

BP 96 **Apparatus to show that the formation of starch—**Depends upon the presence of CO_2 from water plants **Rs. 520**

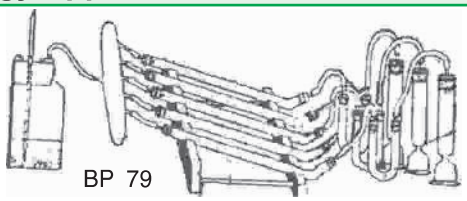
BP 97 **Apparatus to demonstrate the excretion of CO_2** in germination vessel—Tall funnel with test tubes suspended by wire w/o stand—Borosilicate glass **Rs. 450**

BP 99 **Apparatus for growing plants in atmosphere free from Co_2** **Rs. 450**

BP 100 **Fermentation vessels**—Khune's fitted on stand —Borosilicate Glass **Rs. 370**

BP 102 **Apparatus for investigation the fermentation**—Complete with condensing Flask—Borosilicate Glass **Rs. 660**

BP 104 **Apparatus for investigation the fermentation in absence—of free oxygen** Cap. of flask 250 ml—Borosilicate Glass **Rs. 660**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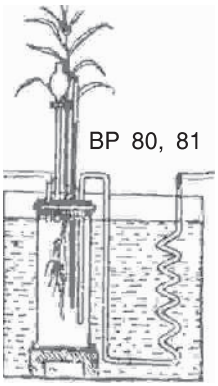
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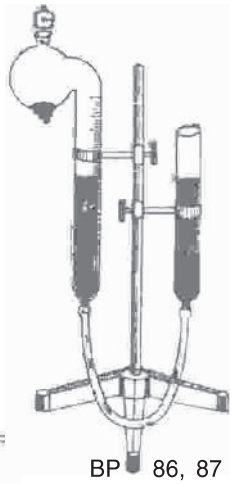
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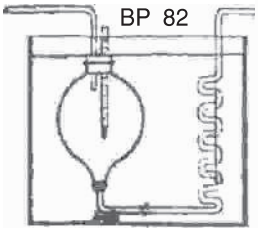
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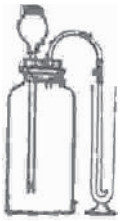
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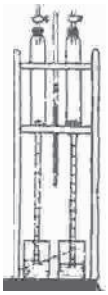
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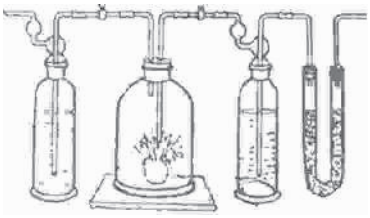
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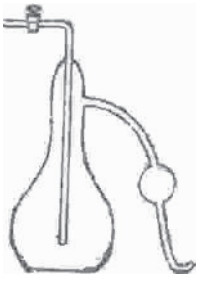
BP 100, 101


BP 102, 103


BP 104, 105

Biocraft's Plant Physiology Apparatus

BP 106 **Differential air thermometer**—For measuring the heat produced in respiration with cup— Borosilicate glass **Rs. 580**

BP 108 **Apparatus to ascertain the heat produced in normal and intramolecular respiration**—W/o Thermometer—Borosilicate glass **Rs. 750**

BP 110 **Apparatus to demonstrate the giving out of CO_2**—From germinating seeds complete with four bottles, Rubber corks and glass tubes fitted **Rs. 810**

BP 111 **To demonstrate the phenomenon aerobic respiration or to demonstrate that CO_2 is produced during respiration**—Borosilicate glass **Rs. 580**

BP 112 **Apparatus for demonstrating the intake of oxygen**—By Germinating seeds. **Rs. 410**

BP 113 **Apparatus—For the determinating of respiratory quotient** (RQ) under the influence of various nutrient solutions—after puriswitch—Borosilicate Glass **Rs. 900**

BP 115 **Demonstration apparatus for fermentation**—Ganong's—Borosilicate glass. **Rs. 990**

BP 116 **Apparatus for proving the production of heat**—By plants (two sets required) without thermometers per set—Borosilicate glass **Rs. 750**

BP 117 **Simple calorimeter**—For study of heat relations of respiration. Ganong's. Comprising of a vacuum flask unsilvered with thermometers **Rs. 610**

BP 118 **Apparatus to show the absorption of oxygen and liberation of CO_2**—In aerobic respiration. **Rs. 610**

BP 119 **Apparatus for showing the anaerobic and aerobic—Respiration** complete **Rs. 580**

BP 120 **Apparatus for showing the anaerobic and aerobic—Respiration** complete Borosilicate Glass **Rs. 610**

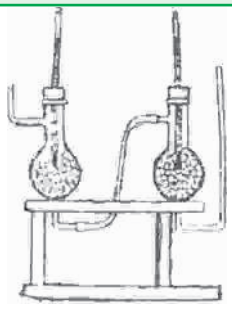
BP 121 **Apparatus for the experiment—To demonstrate the Oxygen of the air is used up in the respiration**—Borosilicate Glass **Rs. 410**

BP 123 **Air current commutator**—Borosilicate glass **Rs. 1100**

BP 124 **Apparatus to demonstrate the Amount of O_2 & CO_2—Produced in the respiration of plants. Complete with stand**—Borosilicate glass **Rs. 2,350**

BP 125 **Warburg monometer**—Borosilicate glass **Rs. 1,520**


BP 106, 107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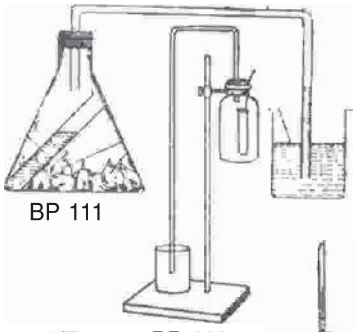
BP 110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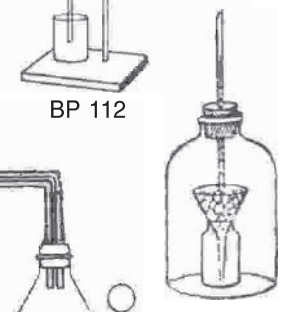
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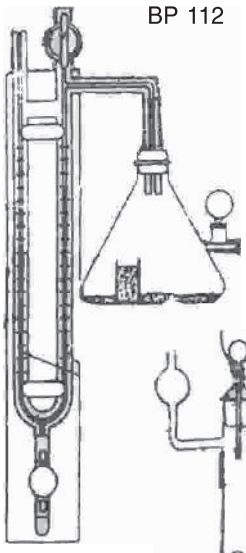
BP 116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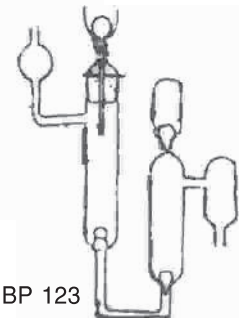
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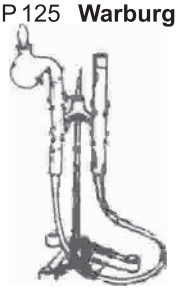
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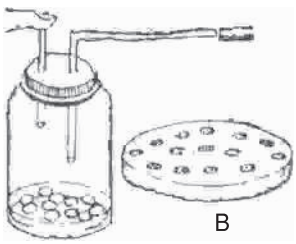

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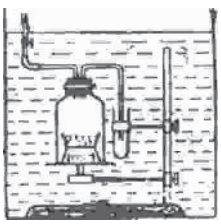

BP 124

Biocraft's Plant Physiology Apparatus

BP 126 **Apparatus for proving that roots are unable to grow in absence of free oxygen complete with stand.** **Rs. 540**

BP 127 **Respiratory apparatus for determining the quantity of CO_2 produced** in intra molecular and normal respiration—Borosilicate glass **Rs. 1,830**

APPARATUS FOR PHOTOSYNTHESIS

BP 128 **Photosynthetometer**—For demonstrating the absorption of carbondioxide by green plants in light and equivolumetric release of oxygen—Borosilicate glass **Rs. 820**

BP 130 **Moll's Apparatus**—To show that the carbon—dioxide is essential for the process of photo-synthe-sis in green plants—Borosilicate glass **Rs. 820**

BP 131 **Apparatus for the culture of plants, under exclusion of carbondioxide**—Borosilicate glass **Rs. 590**

BP 132 **Apparatus to prove that the green plants can only produce oxygen when carbon**—dioxide is at their disposal. Without thermometer—Borosilicate glass **Rs. 680**

BP 134 **Apparatus for estimation ofcarbon—dioxide decomposed by assimilating plants complete**, without mercury and platinum wire **Rs. 780**

BP 135 **Heliostat with clock**—Work divided arc for dividing the axis to the latitude, German Machine **Rs. 3,400**

BP 136 **Apparatus to show the rate of carbon**—dioxide in photo—synthesis and occurance of starch synthesis in green leaves—Borosilicate glass **Rs. 950**

BP 137 Apparatus for collecting the oxygen produced by assimilating water plants—Borosilicate glass **Rs. 360**

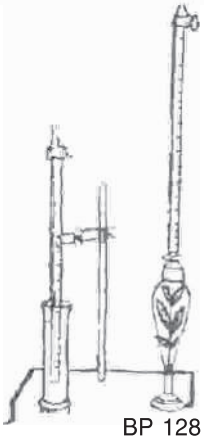
BP 138 **Moll's half leaf experiment**—To show that CO_2 is essential for photosynthesis—Borosilicate glass **Rs. 450**

BP 139 **Apparatus for determining the effect of lack of oxygen**—Upon the synthesis of chlorophyll. **Rs. 430**

BP 140 **Wilmot's bubbler for the measurement of the ratio of photosynthesis**—Borosilicate glass **Rs. 520**

BP 141 **Apparatus to measure the photosynthetic rate by leaf disc sodium bicarbonate method**—Borosilicate glass **Rs. 520**


BP 127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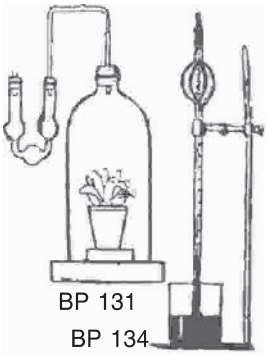
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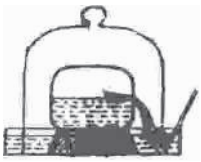
BP 134

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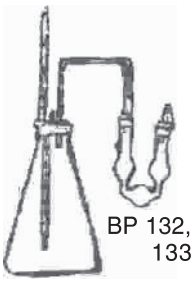
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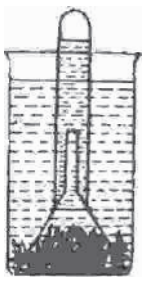
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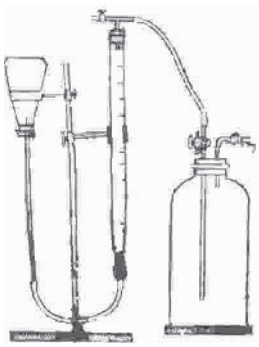
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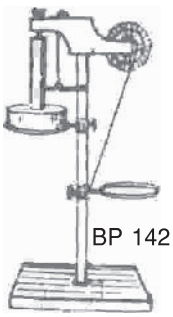

BP 142

Biocraft's Plant Physiology Apparatus

PLANT GROWTH TEMPERATURE AND ELECTRICAL PHENOMENON

BP 142 **Demonstration auxanograph (Auxanometer)**—With recording cylinder revolving once an hour and other specific interval, ganong's fitted with new German machine. **Rs. 3,900**

BP 143 **Lever auxanometer (Arc indicator)**—A graduated quadrant with pully and aluminium pointer for recording growth of plants. Fitted on heavy iron base with metal Arc. **Rs. 1,930**

BP 144 **Lever auxanometer (Arc indicator)**—Made of metal (small size). **Rs. 610**

BP 146 **Apparatus for the culture of plants in the absence of all nitrogenous compounds. Rs. 620**

BP 147 **Apparatus to show organic growth, in complete absence of oxygen. Rs. 620**

BP 148 **Observation box**—Made of wood for the seedings. Size 9" × 9" × 6" with sloping glass front. **Rs. 1150**

BP 149 **Apparatus to show the quantity measure-ment of catalase activity with stand and clamp**—Borosilicate glass **Rs. 1180**

BP 151 **Retort shaped vessel**—For culture of plant in space devoid of oxygen—Borosilicate glass **Rs. 410**

BP 153 **Water culture arrangement**—Comprising of crystallising basin and a porous plate. **Rs. 410**

BP 154 **Apparatus for investigating Growth of roots. Rs. 410**

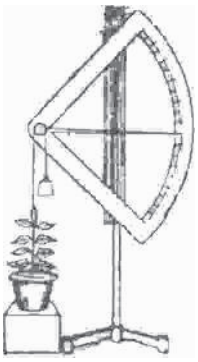
BP 156 **Klinostat**—Strongly built for use in horizontal or vertical position, fitted with new German Machine based on heavy iron stand. **Rs. 1,985**

BP 157 **Dark box or Heliotropic chamber**— Comprising of a highly polished wooden box of 20×20×35 cms. with window to show that plants grow toward light and roots away from it. **Rs. 1350**

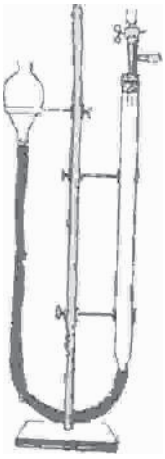
BP 158 **Apparatus for the demonstration of hydro-tropism of Roots** **Rs. 590**

BP 159 **Sieve to Demonstrate hydrotropism of root,** size 12" × 12" with partitions, and hanging arrange-ment. **Rs. 1100**

BP 160 **Germination box (Triple chamber)**—A box containing 3 chambers one provide with opaque shutter, the other window and the third with plane glass, 4 sets of coloured glasses extra. **Rs. 2,400**


BP 142, 143


BP 146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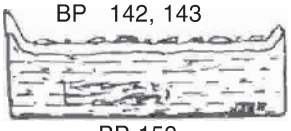
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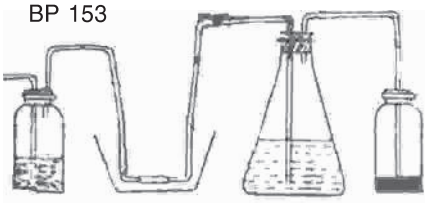
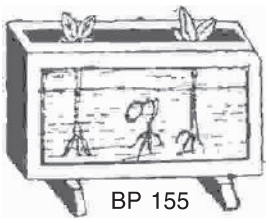
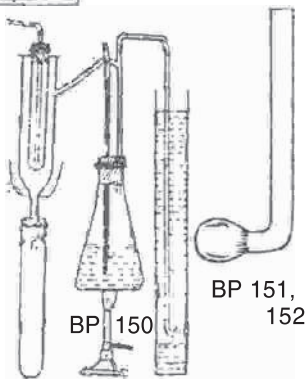

BP 147


BP 155


BP 156


BP 157


BP 154


BP 150, BP 151, 152

Biocraft's Plant Physiology Apparatus

BP 161 **Apparatus for demonstration of geotropism of root curvature** **Rs. 900**

BP 162 **Apparatus for the demonstration** that, Roots execute geotropic curvature. **Rs. 650**

BP 163 **Temperature phenomenon apparatus**—For investigating effects of high temperature on seeds with thermometer. **Rs. 600**

BP 164 **Apparatus to show the production of heat by plants, complete with thermometer.** **Rs. 650**

BP 165 **Electrical phenomenon apparatus**—To determine the electrical potential in plant structure. **Rs. 530**

BP 166 **Seed magnifier on tripod stand.** 3" Size **Rs. 530**

BP 167 **Pfeffer's apparatus**—For investigating the movement of gases in the plants. **Rs. 530**

BP 168 **Apparatus for investigating permeability of wood vessels**, complete, with 'U' tube with gas jar. **Rs. 530**

BP 169 **Apparatus for showing that the air can pass though stomata.** **Rs. 440**

BP 170 **Diffusion apparatus—To demonstrate that the tracheides of the wood are impermeable under certain pressure.** **Rs. 470**

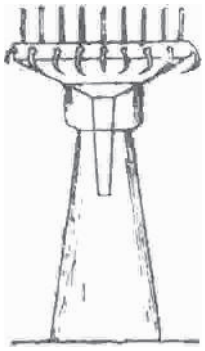
BP 171 **Diffusion apparatus—For investigating the diffusion of gases. Complete with stand**—Borosilicate glass **Rs. 520**

BP 173 **Bonssing aults apparatus**—To prove that the plants are incapable of taking up free nitrogen. **Rs. 750**

BP 174 **Parometer for measuring—The degree of stomatal opening on the leaf.** **Rs. 630**

BP 175 **Apparatus for demonstrating the development of pressure during diffusion of gases** **Rs. 780**

BP 176 **Heinken's apparatus to study catalase energy activity with stand and clamp** **Rs. 720**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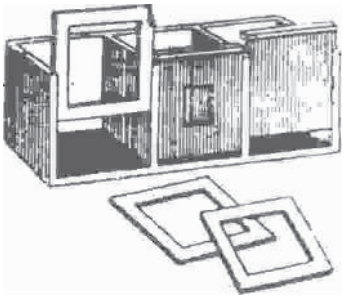
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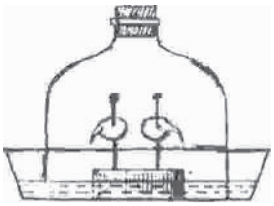
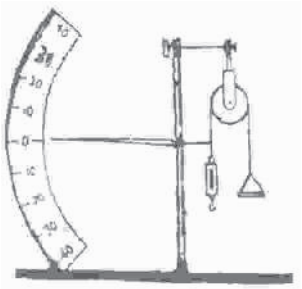

BP 161


BP 163


BP 162


BP 161


BP 171, 172


BP 173