सेन्ट्रल इंस्टिट्यूट ऑफ प्लास्टिक्स इंजीनियरिंग एण्ड टेक्नालॉजी (सिपेट),कोरबा CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET), KORBA LIST OF EQUIPMENTS FOR PHYSICS LAB

ANNEXURE-I

Sr. No.	Name of Experiment	Items Description	Specification	Qty.	Rate/Piece In (Rs.)	Total Amount in Rs.
1	Determination of thickness of a metal wire using screw gauge	Micrometer	Micrometer screw gauge with range 0-25 mm having least count 0.01mm.	15 nos.		
		Solid Metal Wire	Wire 5 to 6 mm dia. Length up to 100mm (e.g. brass copper aluminum, lead ,zinc, iron)	10 nos.		
2	Determination of diameter of a cylindrical bar using Vernier Calliper	Vernier Caliper	Vernier Caliper with range 0- 150mm having least count 0.02mm.	15 nos.		
		Hollow tube	Dia20mm, Length- 50mm length made up of brass ,copper, aluminum, lead, zinc & iron.	10 nos.		
		Solid Cylinder Bar	Solid Cylindrical Bar 25 x12 mm , 37x12, 50x12 Brass, Copper, Aluminum, Lead, Zinc, Iron	10 nos.		
3	Determination of time period of simple pendulum.	Pendulum Stand	Simple Pendulum Metal Stand with holding clamp	05 nos.		
		Measuring Scale	1 m Long	05 nos.		
		Stop Clock	Stop Clock (Analog) , lever system range 0- 60 minutes	05 nos.		
		Pendulum Bobs	Pendulum Bobs with hook for suspension Brass, Copper,Aluminium,12, 18, 25mm dia.	05 nos.		

Sr.	Name of Experiment	Items	Specification	Qty.	Rate/Piece	Total
No.		Description			In (Rs.)	Amount in Rs.
4	Experiment to verify Hook's law	Hook's Law Apparatus	The whole setup comprises of a support with mounted centimeter scale, a spiral spring, a hanger for weights. The scale is 24 cm long, engraved on a plane mirror to permit parallax illumination by reflection and mounted with elevation adjustment on a support rod. The steel spring 1 mm in diameter and 6cm long when unstretched is suspended from a hook above the scale with slotted weights 20grams of 5 pieces made up of brass material.	05 nos.		
5	Experiment to verify Lami's law	Lami's Law Apparatus	The apparatus comprises of a strong black painted drawing board 45x30 CM fitted with two hooks for fixing to a wall. It is to be supplied with 2 nos. of Z pulleys and 3 sets of iron chrome plated slotted weights (50gramsx5nos.), drawing sheets, drawing pins and 1 No. metal scale of 300 mm length.	05 nos.		
6	Determination of focal length of convex lens	Convex Lens	It consists of lights sources, wire screen stand, lens holding stand, white board stand, 2 meter scale.	05 nos.		
			Convex lens (3 different focal length 20,30and 45cm)	05 nos.		
7	Determination of focal length of concave lens	Concave Lens	Concave lens (3 different focal length 20,30and 45cm)	05 nos.		

Sr. No.	Name of Experiment	Items Description	Specification	Qty.	Rate/Piece In (Rs.)	Total Amount in
8	Determination of Young's modulus using non-uniform bending method	Young's Modulus Apparatus	The apparatus consists of 2 knife edge supports, 1 meter scale with pin at the centre , 2 nos. of iron chrome plated slotted weights 50grams x 10 nos., Advanced travelling microscope deluxe model with X, Y, Z motion.	05 nos. 01no.		Rs.
9	Determination of moment of inertia and rigidity modulus using torsional pendulum	Torsional Pendulum Apparatus	The one end of suspension wire hangs from a universal clamp with help of a chuck nut and the other end is clamped to a solid brass disc of 12.5cm and 1.25cm thickness with the help of a shuck nut. A heavy metal ring of the same metal (brass) and the same outside diameter as the disc is included. Universal clamp which can be fitted to the wall ,Inertia disc, Inertia bar and Maxwell needle etc., Measuring tape, stop watch (Digital display) ,pointer on stand, wire .	03 nos.		
10	Thermal conductivity of bad conductor by Lee's disc method	Lee's Disc Apparatus	Lee's disc apparatus, Lee's disc apparatus consist of a metallic disc resting on a 5 cm deep hollow cylinder (steam chamber) of same diameter. It has inlet and outlet tubes for steam. In addition, it has radial holes to insert thermometers.	03 nos.		
11	Viscosity of given liquid by Stroke's method	Stroke's Apparatus	A long cylindrical glass jar of 1 meter, Transparent viscous fluid say glycerin, Meter scale, Spherical ball ,Screw gauge 0-25 mm, Vernier calipers 0-150mm, Stop watch digital type.	03 nos.		