**Encl - 14**

**UTTARANCHAL UNIVERSITY, DEHRADUN**

**Appendix-XV**

**9.3 Information about the Equipment**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of the**  **equipment** | **Make** | **Quantity** | **Location (Department)** | **Value**  **(in Rs.)** | **Whether in working condition** | **Date of Purchase** |
| Ph Meter for measuring pH | Systronics Make | 02 | Chemistry Lab | 13400.00 | Working | 10.06.2006 |
| Conductivity Meter for measuring conductivity | Systronics Make | 01 | Chemistry Lab | 10500.00 | Working | 10.06.2006 |
| Spectrophotometer (Visible Range) | Systronics Make | 01 | Chemistry Lab | 38000.00 | Working | 10.06.2006 |
| Muffle Furnace for proximate analysis of coal | Ambassador Make | 01 | Chemistry Lab | 40000.00 | Working | 10.06.2006 |
| Electrical Oven for proximate analysis | Ambassador Make | 01 | Chemistry Lab | 12667.00 | Working | 09.06.2006 |
| Analytical Balance | Keroy Make | 10 | Chemistry Lab | 18500.00 | Working | 10.06.2006 |
| Electronics Balance | AND-EK 300 Make | 01 | Chemistry Lab | 16000.00 | Working | 10.06.2006 |
| Distillation Unit (Metal) 5 Lt. for distilled water | Ambassador Make | 01 | Chemistry Lab | 4350.00 | Working | 10.06.2006 |
| Distillation Unit 3 Lt. for distilled water | Borosilicate Glass | 01 | Chemistry Lab | 9500.00 | Working | 10.11.2009 |
| Redwood Viscometer – I & II for viscosity of thin lubricating oil | Perfit-Poplar Make | 02 | Chemistry Lab | 25000.00 | Working | 10.11.2009 |
| Flash & Fire Point (Pensky Marten) Apparatus | Perfit Make | 06 | Chemistry Lab | 15000.00 | Working | 10.11.2009 |
| Heating Mantle (1 Lit) (Perfit Poplar Makr) | Perfit Make | 06 | Chemistry Lab | 12000.00 | Working | 10.11.2009 |
| Water Bath Rectangular (12 Holes) | Ambassador Make | 01 | Chemistry Lab | 5500.00 | Working | 10.06.2006 |
| Magnetic Stirrer with Hoe Plate | Perfit Make | 01 | Chemistry Lab | 4300.00 | Working | 16.04.2009 |
| Mechanical Stirrer | Perfit Make | 01 | Chemistry Lab | 4500.00 | Working | 16.04.2009 |
| Centrifuge | Perfit Make | 01 | Chemistry Lab | 2600.00 | Working | 10.11.2006 |
| Melting Point Apparatus | Intelligent | 02 | Chemistry Lab | 1500.00 | Working | 09.06.2006 |
| Kipps Apparatus for H2S  Production | Labplax | 02 | Chemistry Lab | 900.00 | Working | 09.06.2006 |
| Kjeldahl Assembly for Nitrogen Determination (Glass) | Perfit Make | 01 | Chemistry Lab | 3500.00 | Working | 10.11.2009 |
| Victor-Mayer & Lands Berger Assembly (Glass) | Perfit Make | 01 | Chemistry Lab | 2000.00 | Working | 10.11.2009 |
| P-N Junction Diode Characteristic Kit | D-10 | 04 | ECE | 10,500.00 | Working | Aug., 2006 |
| Zener Diode Characteristic Kit | Z-10 | 04 | ECE | 10,000.00 | Working | Aug., 2006 |
| Logic Gate Kit | LG-10 | 02 | ECE | 6,000.00 | Working | Aug., 2006 |
| Universal Gates Kit | LTB-10 | 01 | ECE | 3,500.00 | Working | Aug., 2006 |
| Half/Full Wave Rectifier | CF-10 | 04 | ECE | 12,000.00 | Working | Aug., 2006 |
| Clipper & Clamper Study Kit |  | 02 | ECE | 8,500.00 | Working | Aug., 2006 |
| Transistor Characteristics Kit | JT-10 | 05 | ECE | 22,500.00 | Working | Aug., 2006 |
| FET Characteristics Kit | - | 02 | ECE | 8,000.00 | Working | Aug., 2006 |
| CRO | - | 03 | ECE | 70,000.00 | Working | Aug., 2006 |
| Function Generator | - | 03 | ECE | 7,500.00 | Working | Aug., 2006 |
| Bread Board | - | 10 | ECE | 1,500.00 | Working | Aug., 2006 |
| Multi-meter | DM-3540 | 05 | ECE | 750.00 | Working | Aug., 2006 |
| Heavy Diode | - | 05 | ECE | 100.00 | Working | Aug., 2006 |
| Screw Driver Set | - | 01 | ECE | 200.00 | Working | Aug., 2006 |
| Power Transistor | - | 12 | ECE | 240.00 | Working | Aug., 2006 |
| Zero PCB | - | 10 | ECE | 200.00 | Working | Aug., 2006 |
| LED | - | 20 | ECE | 60.00 | Working | Aug., 2006 |
| Silicon Diode | - | 50 | ECE | 250.00 | Working | Aug., 2006 |
| IC-7905 | - | 05 | ECE | 100.00 | Working | Aug., 2006 |
| IC-7805 | - | 05 | ECE | 100.00 | Working | Aug., 2006 |
| Ceramic Capacitor | - | 50 | ECE | 200.00 | Working | Aug., 2006 |
| Capacitor (Different Ratings) | - | 50 | ECE | 300.00 | Working | Aug., 2006 |
| Resistance (Different Ratings) | - | 50 | ECE | 130.00 | Working | Aug., 2006 |
| Zener Diode (5-8V) | - | 20 | ECE | 200.00 | Working | Aug., 2006 |
| IC-741 Cp-AMP | - | 10 | ECE | 80.00 | Working | Aug., 2006 |
| Transistor | BC 107 | 20 | ECE | 200.00 | Working | Aug., 2006 |
| Transistor | SL-100 | 20 | ECE | 200.00 | Working | Aug., 2006 |
| IC-7400 | - | 10 | ECE | 150.00 | Working | Aug., 2006 |
| Solder Iron | - | 05 | ECE | 750.00 | Working | Aug., 2006 |
| Solder Stand | - | 05 | ECE | 250.00 | Working | Aug., 2006 |
| Wire Outer | - | 05 | ECE | 250.00 | Working | Aug., 2006 |
| Solder Flux | - | 05 | ECE | 125.00 | Working | Aug., 2006 |
| Project Bread Board | - | 05 | ECE | 12,500.00 | Working | Aug., 2006 |
| Verification of Network Theorem | - | 06 | Basic Elect. Lab | 27,900.00 | Working | 13.06.2006 to 15.3.2013 |
| Study of Voltage Ratio and Load Test on Single Phase Transformer | - | 01 | Basic Elect. Lab | 20,100.00 | Working | 13.06.2006 |
| Study of Open Circuit and Short Circuit Test of Single Phase Transformer | - | 01 | Basic Elect. Lab | 19,750.00 | Working | 13.06.2006 |
| Study of Speed Control of D.C. Shunt Motor | - | 01 | Basic Elect. Lab | 32,500.00 | Working | 13.06.2006 |
| Measurement of Energy using Single Phase Energy Meter | - | 01 | Basic Elect. Lab | 13,000.00 | Working | 13.06.2006 |
| Digital Multi-meter | 3540 | 02 | Basic Elect. Lab | 4,900.00 | Working | 13.06.2006 |
| Audio Frequency Osscilator | AF712 | 03 | Basic Elect. Lab | 9,300.00 | Working | 11.09.2006 to 15.06.2013 |
| Study of LCR series and Parallel Circuit | LCR12 | 03 | Basic Elect. Lab | 7,050.0000 | Working | 11.09.2006 to 15.03.2013 |
| 3-Phase Induction Motor Trainer with Control Panel | - | 01 | Basic Elect. Lab | 30,062.00 | Working | 14.03.2010 |
| Gas Welding Machine | - | 01 | Workshop Practice | 52,661.00 | Working | 04.05.2007 |
| Lathe Machine | - | 02 | Workshop Practice | 2,84,000.00 | Working | 01.11.2007 |
| Drill Machine | - | 03 | Workshop Practice | 17,250.00 | Working | 27.05.2006 |
| ARC Welding Machine | - | 02 | Workshop Practice | 8,550.00 | Working | 15.06.2006 |
| Fitting Shop Tables | - | 03 | Workshop Practice | 25,500.00 | Working | Nov., 2006 |
| Carpentry Shop Tables | - | 04 | Workshop Practice | 32,000.00 | Working | Nov., 2006 |
| Power Hacksaw | - | 01 | Workshop Practice | 57,140.00 | Working | 01.11.2007 |
| Workshops Tools | - | - | Workshop Practice | 20,000.00 | Working | 01.11.2007 |
| Study Model of 2-Stroke Diesel and Petrol Engine | - | 02 | Basic Mech. Engg. Lab. | 3,500.00 | Working | 13.06.2006 |
| Study Model of 4-Stroke Diesel and Petrol Engine | - | 02 | Basic Mech. Engg. Lab. | 3,600.00 | Working | 13.06.2006 |
| Cut Section of FIAT Petrol Engine Model | - | 01 | Basic Mech. Engg. Lab. | 14,800.00 | Working | 13.06.2006 |
| IZOD and CHARPY Impact Testing Machine | - | 01 | Basic Mech. Engg. Lab. | 1,19,000.00 | Working | 19.03.2007 |
| Universal Testing Machine | - | 01 | Basic Mech. Engg. Lab. | 4,95,000.00 | Working | 19.03.2007 |
| Vapour Compression Refrigerator Model | - | 01 | Basic Mech. Engg. Lab. | 4,450.00 | Working | 13.06.2006 |
| Graphics Tables | - | 150 | Engineering Graphics | 1,08,750.00 | Working | 22.06.2006 |
| Stools |  | 150 | Engineering Graphics | 45,000.00 | Working | 22.06.2006 |
| Engineering Graphics Model | - | - | Engineering Graphics | 2,500.00 | Working | Oct., 2006 |
| LCD Projector | - | 01 | Engineering Graphics Lab | - | Working | 29.03.2011 |
| LCD Screen | - | 01 | Engineering Graphics Lab | - | Working | - |
| Transparence Sheets | - | 20 | Engineering Graphics Lab | 400.00 | Working | - |
| Study of magnetic field along the axis of a current carrying coil apparatus | - | Kit | Physics Lab | 2,905.00 | Working | 16.06.2006 |
| Study of Hall Effect | - | Kit | Physics Lab | 28,925.00 | Working | 07.06.2006 |
| Newton’s Rings | - | Kit | Physics Lab | 6,650.00 | Working | 19.07.2006 |
| Diffraction Grating | - | Kit | Physics Lab | 9,210.00 | Working | 19.06.2006 |
| Hysteresis Loop for a ferromagnetic material (M-B Curve) | - | Kit | Physics Lab | 36,700.00 | Working | 07.06.2006 |
| Stefan’s Law Verification Kit | - | Kit | Physics Lab | 7,000.00 | Working | 17.10.2012 |
| Calibration of Ammeter/ Voltmeter |  |  | Physics Lab | 10,166.00 | Working | 07.06.2006 |
| Energy Band Gap | - | Kit | Physics Lab | 13,000.00 | Working | 07.06.2006 |
| Fresnel’s Biprism 50x40 |  | 01 | Physics Lab | 15,050.00 | Working | 19.07.2006 |
| Half Shade & Bi-quartz Polarimeter | - | Kit | Physics Lab | 10,800.00 | Working | 19.06.2006 |
| Nodal Slide | - | Kit | Physics Lab | 10,000.00 | Working | 19.06.2006 |
| Carey Foster Bridge | - | Kit | Physics Lab | 2,855.00 | Working | 19.06.2006 |
| Telescope, stand with cardboard sheet | - | 01 | Physics Lab | 4,420.00 | Working | 02.02.2008 |