



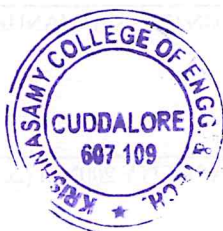
## Department of Civil Engineering

| Sl. No                           | Name of the Instrument with Accessories                                                                                                                                                                                | Quantity Available |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>STRENGTH OF MATERIALS LAB</b> |                                                                                                                                                                                                                        |                    |
| 1                                | ABRASIVE DISK CUT OFF MACHINE MODEL MT-104                                                                                                                                                                             | 1                  |
| 2                                | BELT SANDER, MOTORISED MODEL - MT 105                                                                                                                                                                                  | 1                  |
| 3                                | BRINELL HARDNESS TESTING MACHINE, CAP. 3000 kg, MANUALLY OPERATED - MODEL PMT-3B<br>ACCESSORIES:<br>ANVIL (ROUND & FLAT) 2 NOS.<br>BALL INDENTOR (10MM) 1NO.<br>DYNAMOMETER 1 NO.<br>BRINELL MICROSCOPE WITH BULB 1NO. | 1                  |
| 4                                | DOUBLE SHEAR ATTACHMENT FOR 20MM DIAMETER SPECIMEN, FOR USE WITH THE UTM                                                                                                                                               | 1                  |
| 5                                | IMPACT TESTING MACHINE FOR IZOD AND CHARPY TESTS, MODEL PMT-8<br>ACCESSORIES:<br>ALLEN KEY 2 NOS.<br>STRIKER 2NOS.<br>GAUGES 2 NOS.                                                                                    | 1                  |
| 6                                | MECHANICAL EXTENSOMETER MODEL PMK -3 FOR USE WITH THE UTM                                                                                                                                                              | 1                  |
| 7                                | MUFFLE FURNACE SIZE 4"X4"X9"                                                                                                                                                                                           | 1                  |
| 8                                | METALLURGICAL POLISHING MACHINE ( DOUBLE DISC), MODEL MT-104                                                                                                                                                           | 1                  |
| 9                                | METALLURGICAL MICROSCOPE, MAGNIFICATION 10x&15x                                                                                                                                                                        | 3                  |
| 10                               | ROCK WELL HARDNESS TESTER, CAP. 150 kg, MODEL PMT-5A<br>ACCESSORIES:<br>1/16" BALL INDENTOR 1 NO.<br>DIAMOND INDENTOR 1 NO.<br>ANVIL (ROUND & FLAT) 2 NOS.<br>ALLEN KEY 1 NOS.<br>WEIGHTS (60,100,150kg) 3 NOS.        | 1                  |
| 11                               | SPRINGS TESTING MACHINE, CAPACITY 20,000N (2000kg), MANUALLY OPERATED<br>ACCESSORIES<br>PRESSURE GAUGE (0-2000KG) 1 NO<br>HANDLE 1 NO<br>BOTTOM COMPRESSION PAD 1 NO.                                                  | 1                  |
| 12                               | TORSION TESTING MACHINE FOR RODS, CAPACITY 200Nm (20 kg m)<br>ACCESSORIES<br>WEIGHTS 3 SETS (6 NOS.)<br>DEAD WEIGHT FOR MOVABLE JAW 1 NO<br>HANDLE 1 NO.                                                               | 1                  |

|    |                                                                                                                                                                                                                                                                                                                           |    |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 13 | UNIVERSAL TESTING MACHINE , CAP. 40 MT (400KN), MODEL UTM-40 (ANALOGUE MODEL)<br>ACCESSORIES:<br>ROUND GRIPS - 2SETS (8 NOS.)<br>FLAT GRIPS 2SETS (8 NOS.)<br>WEIGHTS (100KN,200KN,400KN)<br>BENDING MANDRELS - 2NOS<br>JAWS - 4NOS<br>LEVELLING BOLTS - 8NOS.<br>COMPRESSION ATTACHMENT 1NO.<br>GRAPH ROD-PEN HOLDER 1NO | 1  |
| 14 | LE-CHATLIER MOULD                                                                                                                                                                                                                                                                                                         | 2  |
| 15 | LE-CHATLIER WATERBATH                                                                                                                                                                                                                                                                                                     | 1  |
| 16 | VICAT NEEDLE APPARATUS WITH DASH POT<br>ACCESSORIES<br>MOULD - 3NOS.<br>PLUNGER - 3NOS.<br>NEEDLE (2MM) - 3NOS.                                                                                                                                                                                                           | 3  |
| 17 | MORTAR CUBE MOULD 70.6MM                                                                                                                                                                                                                                                                                                  | 10 |
| 18 | DIAL GAUGES 0.01X5MM TRAVEL BAKER MAKE                                                                                                                                                                                                                                                                                    | 2  |
| 19 | DIAL GAUGES 0.01X 10 MM TRAVEL BAKER MAKE                                                                                                                                                                                                                                                                                 | 2  |
| 20 | DIAL GAUGES 0.01X 25MM TRAVEL BAKER MAKE                                                                                                                                                                                                                                                                                  | 2  |
| 21 | DIAL GAUGES 0.01X50MM TRAVEL BAKER MAKE                                                                                                                                                                                                                                                                                   | 1  |
| 22 | DIAL GAUGES 0.002X12MM TRAVEL BAKER MAKE                                                                                                                                                                                                                                                                                  | 1  |
| 23 | DIGITAL WEIGHING BALANCE 600gm-10mg                                                                                                                                                                                                                                                                                       | 1  |
| 24 | DEFLECTION BEAM APPARATUS<br>ACCESSORIES<br>DIAL GAUGE 0.01 TO 25mm - 1NO.<br>LOADING FRAME - 1 NO.<br>WEIGHT 50KG - 5 NOS.                                                                                                                                                                                               | 1  |
| 25 | STOP WATCH (DIGITAL)                                                                                                                                                                                                                                                                                                      | 5  |

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| Sl. No | Name of the Instrument with Accessories             | Quantity Available |
|--------|-----------------------------------------------------|--------------------|
|        | <b>CONCRETE AND HIGHWAY ENGINEERING LAB</b>         |                    |
| 1      | FLEXURAL TESTING MACHINE WITH STEEL SUPPORT- 2 NOS  | 1                  |
| 2      | BEAM MOULD(150MM* 150 MM*700MM)                     | 3                  |
| 3      | BEAM MOULD(150MM* 150 MM*700MM)                     | 2                  |
| 4      | CYLINDRICAL MOULD(150MM*300MM)                      | 3                  |
| 5      | DIGITAL WEIGHING BALANCE(100KG,10GM)ACCURACY        | 1                  |
| 6      | DIGITAL WEIGHING BALANCE(6KG, 0.2GM) ACCURACY       | 1                  |
| 7      | BEAM MOULD(100MM* 100*500MM)                        | 3                  |
| 8      | LONGITUDINAL COMPRESSOMETER(150MM DIA 2 NOS)        | 1                  |
| 9      | LATERAL EXTENSOMETER WITH DIAL GUAGE                | 1                  |
| 10     | CBR TESTING APPARATUS WITH DIAL GUAGE (0-5MM)-2 NOS | 1                  |
| 11     | CUBE MOULD (150MM) ISI                              | 6                  |
| 12     | CUBE MOULD (100MM)                                  | 6                  |
| 13     | CYLINDRICAL MOULD(100MM*200MM)                      | 3                  |
| 14     | SLUMP TEST APPARATUS                                | 3                  |
| 15     | VEE BEE CONSISTOMETER                               | 1                  |
| 16     | COMPACTION FACTOR                                   | 1                  |
| 17     | TROWEL & PLANERS                                    | Each 2             |
| 18     | BLAINS AIR PERMEABILITY                             | 1                  |
| 19     | DENSITY BASKET                                      | 1                  |



|    |                                                                                           |        |
|----|-------------------------------------------------------------------------------------------|--------|
| 20 | PYCNOMETER BOTTLE                                                                         | 3      |
| 21 | THICKNESS GAUGE                                                                           | 1      |
| 22 | ELONGATION GAUGE                                                                          | 1      |
| 23 | AGGREGATE CRUSHING VALUE                                                                  | 1      |
| 24 | LOS ANGES ABRASION TESTING MACHINE ACCESORIES: STEEL TRAY-1,1HP MOTOR-1,STEEL BALLS-12NOS | 1      |
| 25 | MARSHAL STABILITY TESTING MACHINE ACCESSORIES:DIAL GAUGE 0.01-25MM-2NOS                   | 1      |
| 26 | HOT AIR OVEN- 355X355X355 MM                                                              | 1      |
| 27 | AGGREGATE IMPACT VALUE APPARATUS                                                          | 1      |
| 28 | BITUMEN PENTROMETER                                                                       | 1      |
| 29 | CONCRETE MIXER MACHINE -                                                                  | 1      |
| 30 | BRASS SIEVES(SETS) -200MM DIA(4.75,2.36,1.18,600,300,150,75MM,LID&PAN)                    | 8      |
| 31 | COARSE SIEVES(SETS)-300MM DIA (40,25,20,16,12.5,10,6.3,4.75MM)                            | 7      |
| 32 | CYLINDRICAL METAL MEASURES(3, 15 & 30LITERS)                                              | Each 1 |
| 33 | CYLINDRICAL METAL MEASURES(3LITERS)                                                       | 1      |
| 34 | DIGITAL COMPRESSION TESTING MACHINE -2000KN                                               | 1      |
| 35 | DUCTILITY TESTING MACHINE -ACCESSORIES/ BRASS MOULD 3 NUMBERS                             | 1      |
| 36 | FLOW TABLE - MOTORISED                                                                    | 1      |
| 37 | SIEVE SHAKER MACHINE                                                                      | 1      |
| 38 | SOFTENING POINT APPARATUS                                                                 | 1      |
| 39 | STANDARD TAR VISCOMETER                                                                   | 1      |
| 40 | SCOOP (1/2 KG)                                                                            | 1      |
| 41 | SCOOP (1 KG)                                                                              | 1      |
| 42 | SPECIFIC GRAVITY BOTTLE                                                                   | 3      |
| 43 | SIEVE ADAPTER - 300MM                                                                     | 1      |
| 44 | SHALLOW FLAT BOTTOM DISC                                                                  | 2      |



|    |                                                    |   |
|----|----------------------------------------------------|---|
| 45 | VIBRATING TABLE 1M X 1M                            | 1 |
| 46 | MEASURING CYLINDER PLASTIC(100 ML)                 | 2 |
| 47 | MEASURING CYLINDER PLASTIC(250 ML)                 | 2 |
| 48 | MEASURING CYLINDER PLASTIC(500 ML)                 | 2 |
| 49 | MEASURING CYLINDER PLASTIC(1000 ML)                | 2 |
| 50 | MAXIMUM/MINIMUM THERMOMETER                        | 1 |
| 51 | DIGITAL THERMOMETER PEN SHAPE                      | 1 |
| 52 | DIGITAL THERMOMETER(MULTI STEM)                    | 1 |
| 53 | CHINA CLAY DISH(4")                                | 2 |
| 54 | CHINA CLAY DISH(6")                                | 2 |
| 55 | TRAY - 20 GAUGE SHEET - 26KG HANDLE FITTING        | 3 |
| 56 | WHEEL BARROW-SIZE 2 1/2 X 2 1/2 OF ANGLE 1/4 X 1/4 | 1 |
| 57 | CENTRIFUGE EXTRACTOR                               | 1 |
| 58 | TEST SIEVE 30CM DIA GI                             | 1 |
| 59 | WEIGHT MACHINE 20KG                                | 1 |

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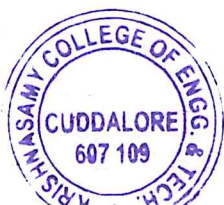




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| Sl. No                            | Name of the Instrument with Accessories                                                                                                                                                                                                                                                                                                                                                                                                                           | Quantity Available |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>HYDRAULICS ENGINEERING LAB</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |
| 1                                 | OPEN CIRCUIT FRANCIS TURBINE TEST RIG-5HP<br>ACCESSORIES-<br>1.MANOMETER GLASS TUBE -1M-2NOS<br>2.MANOMETER BOARD WITH STAND-1NO<br>3.PANNEL BOARD WITH STAND-1NO<br>4.MERCURY-650GRMS<br>PUMP SET 15HP-1NO.<br>PIPES 3NOS<br>VENTURIMETER-1NO<br>TRIPLEE INSTRUCTION MANUAL-1<br>PANELBOARD-RPM METER -1 NO<br>PRESSURE GAUGE 1NO(0.4KG/CM <sup>2</sup> )<br>VACCUM GAUGE-1 NO(0-760MM HG)                                                                       | 1                  |
| 2                                 | OPEN CIRCUIT APPARATUS FOR MEASURING FRICTIONAL LOSSES IN PIPE LINES SUPPLY<br>PUMP SET 0.5 HP                                                                                                                                                                                                                                                                                                                                                                    | 1                  |
| 3                                 | CENTRIFUGAL PUMP (SINGLE STAGE OPEN CIRCUIT MULTI SPEED )<br>TEST RIG 3HP PANNEL ACCESSORIES<br>3PHASE ENERGY METER (10-40 AMP)-1 NO.<br>STARTER -1 NO.<br>PRESSURE GAUGE 1NO(0-4KG/CM <sup>2</sup> )<br>VACCUM GAUGE-1 NO(0-760MM HG)                                                                                                                                                                                                                            | 1                  |
| 4                                 | GEAR OIL PUMP(CLOSED CIRCUIT)<br>TEST RIG 1HP PANNEL ACCESSORIES<br>SINGLE PHASE ENERGY METER )-1 NO.<br>1 HP MOTOR-1 NO.<br>PRESSURE GAUGE 1NO(0-4KG/CM <sup>2</sup> )<br>VACCUM GAUGE-1 NO(0-760MM HG)                                                                                                                                                                                                                                                          | 1                  |
| 5                                 | CLOSED CIRCUIT VERTICAL SHAFT KAPLAN TURBINE(M.S UNIT WITH FRP LINING)<br>TEST RIG 1 HP ACCESSORIES<br>1.MANOMETER GLASS TUBE -1M-2NOS<br>2.MANOMETER BOARD WITH STAND-1NO<br>MANOMETER HOSE 10M<br>3.PANNEL BOARD WITH STAND-1NO<br>4.MERCURY-650GRMS<br>5.TRIPLEE INSTRUCTION MANUAL-1<br>6. DEAD WEIGHT 9 KG<br>PANELBOARD<br>RPM METER(3 1/2 DIGIT) -1 NO<br>PRESSURE GAUGE 1NO(0-2.1KG/CM <sup>2</sup> )<br>VACCUM GAUGE-1 NO(0-760MM HG)<br>STARTER -1(DOL) | 1                  |
| 6                                 | OPEN CIRCUIT CALIBRATION RIG FOR ORIFICEMETER-1NO<br>SUPPLY PUMP SET -0.5 HP-1NO.                                                                                                                                                                                                                                                                                                                                                                                 | 1                  |

|    |                                                                                                                                                                                                                                                                                                                                                                       |   |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 7  | OPEN CIRCUIT PELTON WHEEL TURBINE TEST RIG 5 HP<br>1.MANOMETER GLASS TUBE -1M-2NOS<br>2.MANOMETER BOARD WITH STAND-1NO<br>3.PANNEL BOARD WITH STAND-1NO<br>4.MERCURY-650GRMS<br>PUMP SET 15HP-1NO.<br>PIPES 3NOS<br>VENTURIMETER-1NO<br>TRIPLEE INSTRUCTION MANUAL-1<br>PANELBOARD-RPM METER -1 NO<br>PRESSURE GAUGE 1NO(0-7KG/CM <sup>2</sup> )<br>STARTER A/A -1NO. | 1 |
| 8  | OPEN CIRCUIT RECIPROCATING PUMP TEST RIG 1HP-SINGLE PHASE ENERGY METER 1 NO.<br>ACCESSORIES<br>PRESSURE GAUGE 1NO(0-7KG/CM <sup>2</sup> )<br>VACCUM GAUGE-1 NO(0-760MM HG)                                                                                                                                                                                            | 1 |
| 9  | OPEN CIRCUIT ROTAMETER TEST RIG SUPPLY PUMP SET -0.5HP                                                                                                                                                                                                                                                                                                                | 1 |
| 10 | OPEN CIRCUIT CALIBRATION RIG FORVENTURIMETER<br>SUPPLY PUMP SET 0.5 HP                                                                                                                                                                                                                                                                                                | 1 |
| 11 | STOP WATCH DIGITAL 5NOS                                                                                                                                                                                                                                                                                                                                               | 5 |
| 12 | BERNOULLI'S THEOREM VERIFICATION APPARATUS                                                                                                                                                                                                                                                                                                                            | 1 |
| 13 | METACENTRIC HEIGHT WATER TANK SHIP MODEL<br>ACCESSORIES<br>FLOAT (BOAT TYPE-1 NO)<br>WEIGHT 50 GMS 5 NOS-2 SET                                                                                                                                                                                                                                                        | 1 |
| 14 | MINOR LOSSES FITTINGS<br>ACCESSORIES<br>MOTOR 0.5HP-1<br>MANOMETER-1<br>MERCURY 650 GMS                                                                                                                                                                                                                                                                               | 1 |
| 15 | NOTCH TANK APPARATUS<br>ACCESSORIES MOTOR -1HP                                                                                                                                                                                                                                                                                                                        | 1 |
| 16 | ORIFICE/MOUTH PIECE<br>ACCESSORIES<br>MOTOR 0.5HP-1<br>MOUTH PIECE-1                                                                                                                                                                                                                                                                                                  | 1 |
| 17 | PITOT TUBE APPARATUS MOTOR<br>0.5HP-1<br>MANOMETER-1<br>MERCURY 650 GMS                                                                                                                                                                                                                                                                                               | 1 |
| 18 | DEEP WELL PUMP (SUBMERSIBLE PUMP) TEST RIG<br>ACCESSORIES<br>MOTOR 5HP-1<br>SINGLE PHASE ENERGY METER )-1 NO.<br>PRESSURE GAUGE 1NO(0-7KG/CM <sup>2</sup> )<br>STARTER-1                                                                                                                                                                                              | 1 |
| 19 | FLUME ASSEMBLY (TILTING) ROLLER WITH SCALE-1<br>MOTOR 1 HP 1NO.                                                                                                                                                                                                                                                                                                       | 1 |
| 20 | IMPACT OF JET APPARATUS<br>MOTOR 1 HP-1 NO.<br>WEIGING BALANCE 2KG-1                                                                                                                                                                                                                                                                                                  | 1 |
| 21 | MULTI STAGE CENTRIFUGAL PUMP<br>PANNEL ACCESSORIES MOTOR 5HP-1NO<br>3PHASE ENERGY METER (10-40 AMP)-1 NO.<br>STARTER(DOL) -1 NO.<br>(PRESSURE GAUGE(0-7KG/CM <sup>2</sup> )-2NOS)<br>PRESSURE GAUGE (0-4KG/CM <sup>2</sup> )-1NO      PRESSURE GAUGE(0-2KG/CM <sup>2</sup> )-1NO<br>VACCUM GAUGE-1 NO(0-760MM HG)                                                     | 1 |



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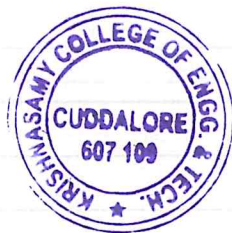
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|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>SURVEYING LAB</b> |                                                                                                                                                                                                                      |                    |
| 1                    | PENTAX TOTAL STATION MODEL R423VN WITH ALL STANDARD ACCESSORIES<br>BATTERY<br>CHARGER WITH ADAPTER<br>CD<br>2 GB SD CARD<br>CARD READER<br>USB CABLE<br>WOODEN STAND<br>SINGLE PRISM WITH TARGET PLATE<br>RANGE POLE | 1                  |
| 2                    | DUMPY LEVEL WITH 20 X WITH STAND                                                                                                                                                                                     | 3                  |
| 3                    | DUMPY LEVEL DL 12E WITH STAND                                                                                                                                                                                        | 3                  |
| 4                    | POCKET STEREOSCOPE                                                                                                                                                                                                   | 2                  |
| 5                    | RANGING RODS - 3M                                                                                                                                                                                                    | 9                  |
| 6                    | RANGING RODS - 3M                                                                                                                                                                                                    | 5                  |
| 7                    | RANGING RODS - 4M                                                                                                                                                                                                    | 4                  |
| 8                    | RANGING RODS - 3M                                                                                                                                                                                                    | 18                 |
| 9                    | ALUMINIUM LEVELLING STAFF - 4M                                                                                                                                                                                       | 3                  |
| 10                   | ALUMINIUM LEVELLING STAFF - 4M                                                                                                                                                                                       | 3                  |
| 11                   | ALUMINIUM LEVELLING STAFF - 5M                                                                                                                                                                                       | 3                  |
| 12                   | CROSS STAFF WITH POLE                                                                                                                                                                                                | 6                  |
| 13                   | CROSS STAFF WITH POLE                                                                                                                                                                                                | 6                  |
| 14                   | SURVEY CHAIN - 20M                                                                                                                                                                                                   | 3                  |
| 15                   | SURVEY CHAIN - 30M                                                                                                                                                                                                   | 3                  |
| 16                   | SURVEY CHAIN - 20M                                                                                                                                                                                                   | 2                  |
| 17                   | SURVEY CHAIN - 30M                                                                                                                                                                                                   | 2                  |
| 18                   | METALLIC TAPE - 15M                                                                                                                                                                                                  | 3                  |
| 19                   | METALLIC TAPE - 15M                                                                                                                                                                                                  | 2                  |
| 20                   | METALLIC TAPE - 30M                                                                                                                                                                                                  | 6                  |
| 21                   | METALLIC TAPE - 30M                                                                                                                                                                                                  | 2                  |
| 22                   | METALLIC TAPE - 30M                                                                                                                                                                                                  | 1                  |
| 23                   | ARROWS                                                                                                                                                                                                               | 30                 |

|    |                                                                                             |    |
|----|---------------------------------------------------------------------------------------------|----|
| 24 | ARROWS                                                                                      | 30 |
| 25 | PRISMATIC COMPASS WITH TRIPOD STAND                                                         | 3  |
| 26 | PRISMATIC COMPASS WITH TRIPOD STAND                                                         | 3  |
| 27 | SURVEYOR'S COMPASS WITH TRIPOD STAND                                                        | 3  |
| 28 | VERNIER TRANSIT THEODOLITE                                                                  | 1  |
| 29 | VERNIER TRANSIT THEODOLITE                                                                  | 2  |
| 30 | VERNIER TRANSIT THEODOLITE                                                                  | 3  |
| 31 | SUBSTENSE BAR COMPLETE WITH TRIPOD                                                          | 1  |
| 32 | SUBSTENSE BAR COMPLETE WITH TRIPOD                                                          | 2  |
| 33 | TOTAL STATION WITH SINGLE PRISM ASSEMBLY SOUTH MODEL NTS-662R WITH ALL STANDARD ACCESSORIES | 2  |
| 34 | PLANE TABLE WITH STAND & PLUMB BOB, ACCESSORIES                                             | 3  |
| 35 | PLANE TABLE WITH STAND & PLUMB BOB, ACCESSORIES                                             | 3  |
| 36 | GPS ETREX 20                                                                                | 3  |
| 37 | TILTING LEVEL                                                                               | 1  |

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|-------------------------------------------|--------------------------------------------------------------------------|--------------------|
| <b>WATER AND WASTE WATER ANALYSIS LAB</b> |                                                                          |                    |
| 1                                         | PH METER WITH ELECTRODE 501                                              | 1                  |
| 2                                         | TURBIDITY METER 31/2 DIGITAL DISPLAY RANGE UPTO 1000 NTU/JTU MODEL 331E. | 1                  |
| 3                                         | CONDUCTIVITY METER WITH ELECTRODE                                        | 1                  |
| 4                                         | MAGNETIC STIRRER WITH HOT PLATE 5 MLH                                    | 5                  |
| 5                                         | DESSICCATOR 300MM 6" SUPERIOR/ BLISCO/PICO                               | 1                  |
| 6                                         | JAR TEST APPARATUS WITH 6 JAR                                            | 1                  |
| 7                                         | KJELDHAL DISTILLATION SETUP 800ML                                        | 1                  |
| 8                                         | CALORIMETER DIGITAL                                                      | 1                  |
| 9                                         | CHLORINE COMPARATOR COMPLETE SET                                         | 1                  |
| 10                                        | BOD INCUBATOR 84X50X40 DIGITAL                                           | 1                  |
| 11                                        | MUFFLE FURNACE 13X13X25CM                                                | 1                  |
| 12                                        | WATER BATH 400X300X100                                                   | 1                  |
| 13                                        | COD APPARATUS 6 SET                                                      | 1                  |
| 14                                        | HEATING MANDIL 2000 ML WITH ENERGY REGULATOR                             | 5                  |
| 15                                        | BEAKER-250 ML BOROSIL                                                    | 15                 |
| 16                                        | BEAKER-500 ML BOROSIL                                                    | 15                 |
| 17                                        | STANDARD FLASK -100 ML                                                   | 10                 |
| 18                                        | BURETTE STAND WITH CLAMP AND BURETTE                                     | 10                 |
| 19                                        | PIPETTE 20ML WITH SAFETY BULB BOROSIL                                    | 10                 |
| 20                                        | PIPETTE 5ML WITH GRADUATED BOROSIL                                       | 10                 |
| 21                                        | PIPETTE 10ML WITH GRADUATED BOROSIL                                      | 15                 |
| 22                                        | PIPETTE 2ML WITH GRADUATED BOROSIL                                       | 4                  |
| 23                                        | SILICA CRUCIBLE (25 ML)                                                  | 2                  |
| 24                                        | SILICA CRUCIBLE (25 ML) WITH LID                                         | 2                  |
| 25                                        | SILICA CRUCIBLE (25 ML)                                                  | 5                  |
| 26                                        | SILICA CRUCIBLE (15ML)                                                   | 2                  |
| 27                                        | SILICA CRUCIBLE (15ML) WITH LID                                          | 2                  |
| 28                                        | SILICA CRUCIBLE (15ML)                                                   | 5                  |



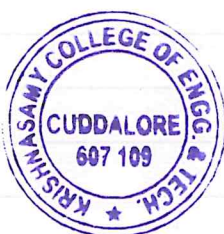
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| 23                                          | HAND SAW 18"                                                                                 | 2     |
| 24                                          | OIL STONE 6"X2"X1"                                                                           | 1     |
| 25                                          | WOOD RUF FILE (FLAT)10"                                                                      | 2     |
| 26                                          | WOOD RUF FILE (FLAT)10"                                                                      | 2     |
| 27                                          | WOOD RUF FILE (HALF ROUND)10"                                                                | 2     |
| 28                                          | WOOD RUF FILE (HALF ROUND)                                                                   | 2     |
| 29                                          | HAND DRILL (GEAR)                                                                            | 1     |
| 30                                          | CLAW HAMMER 1LB                                                                              | 2     |
| 31                                          | AUGER                                                                                        | 2     |
| 32                                          | FOOT RULER                                                                                   | 2     |
| 33                                          | CHISEL HANDLE                                                                                | 40    |
| 34                                          | CHISEL HANDLE                                                                                | 50    |
| 35                                          | FILE TRIANGULAR 4"                                                                           | 3     |
| 36                                          | FILE TRIANGULAR 4"                                                                           | 2     |
| 37                                          | PIPE WRENCH 18" - TAPARIA                                                                    | 1     |
| 38                                          | ADJUSTABLE SPANNER 12" - TAPARIA                                                             | 2     |
| 39                                          | BALL PEEN HAMMER - 800 GMS. TAPARIA                                                          | 2     |
| 40                                          | SCREW DRIVER 12" - TAPARIA                                                                   | 1     |
| 41                                          | WATER PUMP PLIER 10" - TAPARIA                                                               | 2     |
| 42                                          | CUTTING PLIER 8" - TAPARIA                                                                   | 2     |
| 43                                          | DOUBLE END SPANNER 6-32 MM - TAPARIA                                                         | 1 set |
| 44                                          | RING END SPANER 6-32MM - TAPARIA                                                             | 1 set |
| 45                                          | FLAT NOSE PLIER 8"                                                                           | 1     |
| 46                                          | PIPE DIE SET 1/2"TO 1" SMITH                                                                 | 1 set |
| 47                                          | PIPE DIE SET 1/2"TO 1"                                                                       | 1 set |
| 48                                          | CHAIN PIPE WRENCH 4"                                                                         | 1     |
| 49                                          | PIPE WRENCH14"(JHALANI)PIPE DIE SET WITH WRENCH 1/2"TO 1"(HUMANA)PIPE VICE NO.2PIPE PLIER 8" | 1SET  |
| 50                                          | PIPE DIE SET 1/2", 3/4", 1"                                                                  | 2     |
| 51                                          | HACK SAW FRAME (PIPE)                                                                        | 2     |
| 52                                          | 1/2" X 6" NIPPLE                                                                             | 10    |
| 53                                          | 3/4" X 6" NIPPLE                                                                             | 8     |
| 54                                          | 3/4" X 9" NIPPLE                                                                             | 2     |
| <b>ENGINEERING PRACTICES LAB POWERTOOLS</b> |                                                                                              |       |
| 1                                           | GWS 8-100 C (SMALL)                                                                          | 1     |
| 2                                           | GWS 20-180 HD                                                                                | 1     |
| 3                                           | CIRCULAR SAW WITH BLADE-GKS 190                                                              | 2     |
| 4                                           | DEMOLITION HAMMER GSH 388(SMALL)ACCESSORIES INCLUDED                                         | 1     |

|                                                    |                                                                                                   |    |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------|----|
| 29                                                 | HOT AIR OVEN 35X35X35CM                                                                           | 1  |
| 30                                                 | IODINE FLASK-250 ML BOROSIL                                                                       | 30 |
| 31                                                 | MEASURING CYLINDER 500ML BOROSIL                                                                  | 4  |
| 32                                                 | MEASURING CYLINDER 100ML BOROSIL                                                                  | 10 |
| 33                                                 | MEASURING CYLINDER 10ML                                                                           | 5  |
| 34                                                 | MEASURING JAR 50ML                                                                                | 5  |
| 35                                                 | AUTOCCLAVE 12X15" 2KWACCESSORIES: LID WEIGHT WITH GAUGEPLATE VESSELSTAND (INNER & OUTER) (ALLOY)P | 1  |
| 36                                                 | IMMHOFF CONE BOROSIL 1000ML                                                                       | 4  |
| 37                                                 | BACTEROLOGICAL INCUBATOR                                                                          | 1  |
| 38                                                 | CONICAL FLASK 10ML                                                                                | 2  |
| 39                                                 | VOLUMETRIC FLASK 50ML                                                                             | 6  |
| 40                                                 | GLUE * EYE PROTECTION GLASS                                                                       | 2  |
| <b>7.ENGINEERING PRACTICES LAB CARPENTRY TOOLS</b> |                                                                                                   |    |
| 1                                                  | CARPENTRY VICE 6"                                                                                 | 20 |
| 2                                                  | CARPENTRY VICE 6"                                                                                 | 20 |
| 3                                                  | METAL JACK PLANE NO.4                                                                             | 20 |
| 4                                                  | METAL JACK PLANE NO.4                                                                             | 20 |
| 5                                                  | STEEL RULER 12"                                                                                   | 20 |
| 6                                                  | STEEL RULER 12"                                                                                   | 20 |
| 7                                                  | TRY SQUARE 6"                                                                                     | 20 |
| 8                                                  | TRY SQUARE 6"                                                                                     | 20 |
| 9                                                  | G-CLAMP 6"                                                                                        | 20 |
| 10                                                 | G-CLAMP 6"                                                                                        | 20 |
| 11                                                 | MALLET 2 1/2"                                                                                     | 20 |
| 12                                                 | MALLET 2 1/2"                                                                                     | 20 |
| 13                                                 | MARKING GUAGE (WOOD)6"                                                                            | 20 |
| 14                                                 | MARKING GUAGE (WOOD)6"                                                                            | 20 |
| 15                                                 | TENON SAW 12"                                                                                     | 20 |
| 16                                                 | TENON SAW 12"                                                                                     | 20 |
| 17                                                 | FIRMER CHISEL 1"                                                                                  | 20 |
| 18                                                 | FIRMER CHISEL 1"                                                                                  | 20 |
| 19                                                 | MORTISE CHISEL 1/2"                                                                               | 20 |
| 20                                                 | MORTISE CHISEL 1/2"                                                                               | 20 |
| 21                                                 | SAW SET PLIER                                                                                     | 1  |
| 22                                                 | SAW SET PLIER                                                                                     | 1  |

|    |                                                             |       |
|----|-------------------------------------------------------------|-------|
| 5  | DEMOLITION HAMMER GSH 11E(BIG)                              | 1     |
| 6  | ACCESSORIES:DRILL BIT (6,8,10,12 MM)                        | 1 set |
| 7  | 4" DC GRINDING AND CUTTING WHEEL SET                        | 1     |
| 8  | 7" DC GRINDING AND CUTTING WHEEL SET                        | 1     |
| 9  | HAND DRILLING MACHINE GSB 13RE KIT(100PCS KIT) IMPACT DRILL | 2     |
| 10 | JIG SAWGST 85 PBE                                           | 2     |
| 11 | PLANER GHO 10-82                                            | 1     |
| 12 | PLANER GHO 26-82                                            | 1     |
| 13 | ROTATORY HAMMER GBH 2-23REA                                 | 1     |
| 14 | ROTATORY HAMMER (ACCESSORIES INCLUDED) GBH 2-26DFR          | 1     |

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Head of the Department

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S. Kumarapuram, Cuddalore







## Department of Civil Engineering

| Sl. No | Name of the Instrument with Accessories          | Quantity Available |
|--------|--------------------------------------------------|--------------------|
|        | <b>ENGINEERING PRACTICES LAB CARPENTRY TOOLS</b> |                    |
| 1      | CARPENTRY VICE 6"                                | 20                 |
| 2      | CARPENTRY VICE 6"                                | 20                 |
| 3      | METAL JACK PLANE NO.4                            | 20                 |
| 4      | METAL JACK PLANE NO.4                            | 20                 |
| 5      | STEEL RULER 12"                                  | 20                 |
| 6      | STEEL RULER 12"                                  | 20                 |
| 7      | TRY SQUARE 6"                                    | 20                 |
| 8      | TRY SQUARE 6"                                    | 20                 |
| 9      | G-CLAMP 6"                                       | 20                 |
| 10     | G-CLAMP 6"                                       | 20                 |
| 11     | MALLET 2 1/2"                                    | 20                 |
| 12     | MALLET 2 1/2"                                    | 20                 |
| 13     | MARKING GAUGE (WOOD)6"                           | 20                 |
| 14     | MARKING GAUGE (WOOD)6"                           | 20                 |
| 15     | TENON SAW 12"                                    | 20                 |
| 16     | TENON SAW 12"                                    | 20                 |
| 17     | FIRMER CHISEL 1"                                 | 20                 |
| 18     | FIRMER CHISEL 1"                                 | 20                 |
| 19     | MORTISE CHISEL 1/2"                              | 20                 |
| 20     | MORTISE CHISEL 1/2"                              | 20                 |
| 21     | SAW SET PLIER                                    | 1                  |
| 22     | SAW SET PLIER                                    | 1                  |
| 23     | HAND SAW 18"                                     | 2                  |
| 24     | OIL STONE 6"X2"X1"                               | 1                  |
| 25     | WOOD RUF FILE (FLAT)10"                          | 2                  |
| 26     | WOOD RUF FILE (FLAT)10"                          | 2                  |
| 27     | WOOD RUF FILE (HALF ROUND)10"                    | 2                  |
| 28     | WOOD RUF FILE (HALF ROUND)                       | 2                  |
| 29     | HAND DRILL (GEAR)                                | 1                  |
| 30     | CLAW HAMMER 1LB                                  | 2                  |
| 31     | AUGER                                            | 2                  |
| 32     | FOOT RULER                                       | 2                  |

|                                             |                                                                                                   |       |
|---------------------------------------------|---------------------------------------------------------------------------------------------------|-------|
| 33                                          | CHISEL HANDLE                                                                                     | 40    |
| 34                                          | CHISEL HANDLE                                                                                     | 50    |
| 35                                          | FILE TRIANGULAR 4"                                                                                | 3     |
| 36                                          | FILE TRIANGULAR 4"                                                                                | 2     |
| 37                                          | PIPE WRENCH 18" - TAPARIA                                                                         | 1     |
| 38                                          | ADJUSTABLE SPANNER 12" - TAPARIA                                                                  | 2     |
| 39                                          | BALL PEEN HAMMER - 800 GMS. TAPARIA                                                               | 2     |
| 40                                          | SCREW DRIVER 12" - TAPARIA                                                                        | 1     |
| 41                                          | WATER PUMP PLIER 10" - TAPARIA                                                                    | 2     |
| 42                                          | CUTTING PLIER 8" - TAPARIA                                                                        | 2     |
| 43                                          | DOUBLE END SPANNER 6-32 MM - TAPARIA                                                              | 1 set |
| 44                                          | RING END SPANNER 6-32MM - TAPARIA                                                                 | 1 set |
| 45                                          | FLAT NOSE PLIER 8"                                                                                | 1     |
| 46                                          | PIPE DIE SET 1/2" TO 1" SMITH                                                                     | 1 set |
| 47                                          | PIPE DIE SET 1/2" TO 1"                                                                           | 1 set |
| 48                                          | CHAIN PIPE WRENCH 4"                                                                              | 1     |
| 49                                          | PIPE WRENCH 14" (JHALANI) PIPE DIE SET WITH WRENCH 1/2" TO 1" (HUMANA) PIPE VICE NO. 2 PIPE PLIER | 1 SET |
| 50                                          | PIPE DIE SET 1/2", 3/4", 1"                                                                       | 2     |
| 51                                          | HACK SAW FRAME (PIPE)                                                                             | 2     |
| 52                                          | 1/2" X 6" NIPPLE                                                                                  | 10    |
| 53                                          | 3/4" X 6" NIPPLE                                                                                  | 8     |
| 54                                          | 3/4" X 9" NIPPLE                                                                                  | 2     |
| <b>ENGINEERING PRACTICES LAB POWERTOOLS</b> |                                                                                                   |       |
| 1                                           | GWS 8-100 C (SMALL)                                                                               | 1     |
| 2                                           | GWS 20-180 HD                                                                                     | 1     |
| 3                                           | CIRCULAR SAW WITH BLADE-GKS 190                                                                   | 2     |
| 4                                           | DEMOLITION HAMMER GSH 388 (SMALL) ACCESSORIES INCLUDED                                            | 1     |
| 5                                           | DEMOLITION HAMMER GSH 11E (BIG)                                                                   | 1     |
| 6                                           | ACCESSORIES: DRILL BIT (6, 8, 10, 12 MM)                                                          | 1 set |
| 7                                           | 4" DC GRINDING AND CUTTING WHEEL SET                                                              | 1     |
| 8                                           | 7" DC GRINDING AND CUTTING WHEEL SET                                                              | 1     |
| 9                                           | HAND DRILLING MACHINE GSB 13RE KIT (100PCS KIT) IMPACT DRILL                                      | 2     |
| 10                                          | JIG SAW GST 85 PBE                                                                                | 2     |
| 11                                          | PLANER GH0 10-82                                                                                  | 1     |
| 12                                          | PLANER GH0 26-82                                                                                  | 1     |
| 13                                          | ROTATORY HAMMER GBH 2-23REA                                                                       | 1     |
| 14                                          | ROTATORY HAMMER (ACCESSORIES INCLUDED) GBH 2-26DFR                                                | 1     |

C. S. J. 14/8/26  
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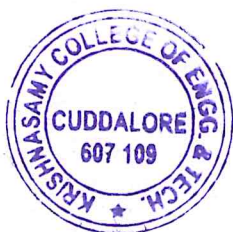


**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**List of Lab Equipments**

| Sl. No                           | Name of the Instrument with Accessories | Quantity Available |
|----------------------------------|-----------------------------------------|--------------------|
| <b>SECURITY LAB</b>              |                                         |                    |
| 1                                | LENOVO THINK CENTRE                     | 34                 |
| 2                                | 10 KVA UPS                              | 1                  |
| 3                                | BATTERY                                 | 20                 |
| 4                                | NETWORK RACK                            | 1                  |
| 5                                | NETWORK SWITCH                          | 4                  |
| 6                                | CAMERA                                  | 1                  |
| <b>EMERGING TECHONOLGIES LAB</b> |                                         |                    |
| 1                                | HP SYSTEMS                              | 33                 |
| 2                                | 10 KVA UPS                              | 1                  |
| 3                                | BATTERY                                 | 20                 |
| 3                                | NETWORK RACK                            | 1                  |
| 4                                | NETWORK SWITCH                          | 2                  |
| 5                                | CAMERA                                  | 1                  |

  
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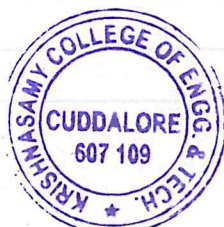


**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

| Sl. No                              | Name of the Instrument with Accessories             | Quantity Available |
|-------------------------------------|-----------------------------------------------------|--------------------|
| <b>ELECTRIC CIRCUITS LABORATORY</b> |                                                     |                    |
| 1                                   | D.C.SHUNT MOTOR 3HP 220V                            | 2 SET              |
| 2                                   | D.C.SHUNT GENERATOR 2.2KW,3HP                       | 2 SET              |
| 3                                   | MICRO PROCESSOR TRAINER KIT STEPPER MOTOR           | 1                  |
| 4                                   | LEAD-LAG NETWORK SIMULATOR                          | 1                  |
| 5                                   | PROCESS CONTROL SIMULATOR                           | 1                  |
| 6                                   | THERMO COUPLE MODEL (ITB-005CE)                     | 1                  |
| 7                                   | R.T.D - MOUDLE (ITB - 006CE)                        | 1                  |
| 8                                   | I.C TEMPERATURE SENSOR KIT (ITB - 05B)              | 1                  |
| 9                                   | WATER BATH                                          | 2                  |
| 10                                  | WARD LEONARD SYSTEM                                 | 1                  |
| 11                                  | A.C. SERVO MOTOR WITH KIT                           | 1                  |
| 12                                  | A.C SYNCHRO SYSTEM                                  | 1                  |
| 13                                  | POSITION CONTROL KIT (ITB - PEC-01)                 | 1                  |
| 14                                  | C.R.O 30MHZ                                         | 17                 |
| 15                                  | STEPPER MOTOR CONTROLLER WITH MOTOR                 | 1                  |
| 16                                  | D.C POTENTIO METER                                  | 1                  |
| 17                                  | LVRT CALIBRO POTENTIAL DIAL                         | 1                  |
| 18                                  | I,I1 ORDER OP.AMP.SIMULATOR LINEAR SYTSEM SIMULATOR | 1                  |
| 19                                  | PID CONTROLLER                                      | 1                  |
| 20                                  | LVDT TRANSDUCER TRAINER                             | 1                  |
| 21                                  | PRESSURE MEASUREMENT TRAINER                        | 1                  |
| 22                                  | VOLTMETER (0-300V) MC                               | 6                  |
| 23                                  | VOLTMETER (0-15/30V) MC                             | 6                  |
| 24                                  | AMMETER (0-5/10A) MI                                | 5                  |
| 25                                  | AMMETER (0-50/100MA) MI                             | 2                  |
| 26                                  | AMMETER (0-100/200MA) MI                            | 2                  |
| 27                                  | AMMETER (0-10A) MC                                  | 4                  |
| 28                                  | AMMETER (0-1.5/3A) MC                               | 5                  |
| 29                                  | DIGITAL TYPE TACHO METER                            | 4                  |
| 30                                  | DIGITAL TYPE STOP WATCH                             | 6                  |

|    |                                        |    |
|----|----------------------------------------|----|
| 31 | RHEOSTAT 250Ω/1.5A                     | 10 |
| 32 | RHEOSTAT 500Ω/3A                       | 6  |
| 33 | RHEOSTAT 50Ω/5A                        | 6  |
| 34 | RHEOSTAT 400Ω/2A                       | 5  |
| 35 | SINGLE PHASE LOADING RHEOSTAT 8KW/230V | 2  |
| 36 | D.C.SERVO MOTOR                        | 1  |
| 37 | PID CONTROLLER DESIGN VPCS-03          | 1  |
| 38 | SWITCH BOX SET                         | 1  |
| 39 | PERSONNEL COMPUTER (HCL)               | 5  |
| 40 | PERSONNEL COMPUTER (PENTIUM)           | 1  |
| 41 | VOLTMETER (0-300V) MC                  | 3  |
| 42 | AMMETER (0-2.5/5A) MI                  | 1  |
| 43 | SPRING BALANCE                         | 2  |
| 44 | DSO                                    | 1  |
| 45 | VOLTMETER (0-10V) MC                   | 5  |
| 46 | VOLTMETER (0-30V) MC                   | 3  |
| 47 | AMMETER (0-100MA) MC                   | 6  |
| 48 | AMMETER (0-10MA) MC                    | 3  |
| 49 | AMMETER (0-50MA) MC                    | 3  |
| 50 | AMMETER (0-500MA) MC                   | 2  |
| 51 | AMMETER (0-100MA) MI                   | 3  |
| 52 | AMMETER (0-50MA) MI                    | 2  |
| 53 | DUAL REGULATED POWER SUPPLY (30V/2A)   | 2  |
| 54 | DUAL REGULATED POWER SUPPLY (30V)      | 5  |
| 55 | SINGLE REGULATED POWER SUPPLY (30V/5A) | 3  |
| 56 | SINGLE UNIT POWER SUPPLY (0-30V)       | 3  |
| 57 | DECADE RESISTANCE BOX                  | 14 |
| 58 | DECADE INDUCTANCE BOX                  | 14 |
| 59 | DECADE CAPACITANCE BOX                 | 14 |
| 60 | FUNCTION GENERATOR (30MHZ)             | 10 |
| 61 | DIGITAL MULTIMETER                     | 27 |
| 62 | ANALOG MULTIMETER                      | 1  |
| 63 | BREAD BOARD                            | 16 |

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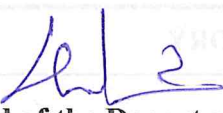


**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

| Sl. No                                 | Name of the Instrument with Accessories | Quantity Available |
|----------------------------------------|-----------------------------------------|--------------------|
| <b>ENGINEERING PRACTICE LABORATORY</b> |                                         |                    |
| 1                                      | CUTTING PLIER                           | 14                 |
| 2                                      | FLAT NOSE PLIER                         | 8                  |
| 3                                      | SCREW DRIVER-826T                       | 18                 |
| 4                                      | SCREW DRIVER-823                        | 15                 |
| 5                                      | WIRE CUTTER                             | 10                 |
| 6                                      | DOUBLE END SPANNER SET(6-32)            | 1                  |
| 7                                      | MEASUREMENT TAPE(5M)                    | 1                  |
| 8                                      | JUNIOR HACK SAW FRAME                   | 10                 |
| 9                                      | HAND DRILLING MACHINE                   | 6                  |
| 10                                     | BALL PIN HAMMER                         | 16                 |
| 11                                     | POCKER                                  | 17                 |
| 12                                     | TUBE LIGHT HOLDER                       | 10                 |
| 13                                     | FLUORESCENT LAMP                        | 5                  |
| 14                                     | STARTER BASE                            | 5                  |
| 15                                     | PVC TAPE                                | 5                  |
| 16                                     | PVC WIRE -1sq.mm                        | 1                  |
| 17                                     | PVC WIRE -1.5 sq.mm                     | 2                  |
| 18                                     | MEGGER                                  | 1                  |
| 19                                     | SINGLE PHASE ENERGY METER               | 2                  |
| 20                                     | MILLI AMMETER DESKTOP                   | 3                  |
| 21                                     | DECADE RESISTANCE BOX                   | 2                  |
| 22                                     | DECADE INDUCTANCE BOX                   | 2                  |
| 23                                     | DECADE CAPACITANCE BOX                  | 2                  |
| 24                                     | 3-PHASE WATT METER                      | 2                  |
| 25                                     | VOLTMETER                               | 2                  |
| 26                                     | AMMETER                                 | 2                  |
| 27                                     | SCREW DRIVER-458                        | 5                  |
| 28                                     | BREAD BOARD                             | 5                  |
| 29                                     | SCREW DRIVER KIT                        | 1                  |



|    |                                   |   |
|----|-----------------------------------|---|
| 30 | SOLDERING IRON                    | 1 |
| 31 | WIRE CUTTER                       | 1 |
| 32 | RANGE FINDER                      | 2 |
| 33 | DIGITAL LIVE WIRE DETECTOR.       | 2 |
| 34 | PA WIRELESS MICROPHONE AWM -495V2 | 1 |
| 35 | PA ACTIVE SPEAKER BSX             | 1 |

  
 Head of the Department  
 14/8/26

  
 Principal

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**S.Kumarapuram, Cuddalore**





**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

| Sl. No                         | Name of the Instrument with Accessories                                                                                                           | Quantity Available |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>ELECTRICAL MACHINES LAB</b> |                                                                                                                                                   |                    |
| 1                              | DC RECTIFIER UNIT Combined with SERVO STABILIZER<br>I/P -415V,3 $\Phi$ ,50HZ AC SUPPLY O/P-230V,100A CAPACITY                                     | 2-SET              |
| 2                              | GENERATOR SET(SHUNT)<br>DC SHUNT MOTOR 5HP, 220V,1500 RPM & DC SHUNT GENERATOR 2.2Kw,220V,1500RPM(COUPLED BY 3 POINT STARTER)                     | 2-SET              |
| 3                              | GENERATOR SET(COMPOUND)<br>DC SHUNT MOTOR 5HP, 220V,1500 RPM & DC(COMPOUND GENERATOR 2.2Kw,220V,1500RPM(COUPLED BY 3 POINT STARTER)               | 1-SET              |
| 4                              | GENERATOR SET(SERIES)<br>DC SHUNT MOTOR 5HP, 220V,1500 RPM & DC(SERIES GENERATOR 2.2Kw,220V,1500RPM(COUPLED BY 3 POINT STARTER)                   | 1-SET              |
| 5                              | ALTERNATOR SET<br>DC SHUNT MOTOR 5HP, 220V,1500 RPM & 3 $\Phi$ ALTERNATOR 3.5KVA,400V,50HZ,1500RPM(COUPLED BY 3 POINT STARTER),SEPERATELY EXCITED | 2                  |
| 6                              | ALTERNATOR SET<br>DC SHUNT MOTOR 5HP, 220V,1500 RPM & 3 $\Phi$ ALTERNATOR 3.5KVA,400V,50HZ,1500RPM(COUPLED BY 3 POINT STARTER),SEPERATELY EXCITED | 2                  |
| 7                              | DC SHUNT MOTOR<br>DC SHUNT MOTOR 3HP, 220V,1500 RPM (COUPLED BY 3 POINT STARTER& BREAK DRUM,BELT & DIAL TYPE SPRING BALANCE)                      | 1-SET              |
| 8                              | DC SHUNT MOTOR<br>DC SHUNT MOTOR 3HP, 220V,1500 RPM (COUPLED BY 3 POINT STARTER& WITHOUT LOADING ARRANGEMENT)                                     | 1-SET              |

|    |                                                        |     |
|----|--------------------------------------------------------|-----|
| 9  | 3Φ AUTO T/F<br>440V/(0-470V),15A                       | 4NO |
| 10 | 1Φ-AUTO T/F<br>230V/(0-270V),15A                       | 6   |
| 11 | 1Φ-AUTO T/F<br>230V/(0-270V),8A                        | 2   |
| 12 | 1Φ-TWO WINDING T/F<br>1 KVA,230/115V                   | 5   |
| 13 | 1Φ-TWO WINDING T/F<br>3 KVA,230/115V                   | 1   |
| 14 | ANALOG TACHOMETER<br>(0-12000RPM)-CONTINUOUS READ TYPE | 3   |
| 15 | ANALOG TACHOMETER<br>(0-10000RPM)-CLOCK TYPE(FUJI)     | 3   |
| 16 | MI 10/20A                                              | 8   |
| 17 | MI-AE MAKE 0-5A                                        | 5   |
| 18 | MI-AE MAKE 0-1A                                        | 3   |
| 19 | MC-AMMETER 0-10A                                       | 4   |
| 20 | MC-AMMETER 0-15A                                       | 4   |
| 21 | MC-AMMETER 0-3A                                        | 2   |
| 22 | MC-AMMETER 0-1A                                        | 3   |
| 23 | MI 0-500V                                              | 6   |
| 24 | MI 0-300V                                              | 5   |
| 25 | MI 0-150V                                              | 2   |
| 26 | MI 10/20V                                              | 2   |
| 27 | MC 0-300V                                              | 6   |
| 28 | MC 0-15/30V                                            | 2   |
| 29 | 1Φ(LOADING RHEOSTAT)<br>230V/3KW                       | 4   |



|    |                                                                                                                                                       |       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 30 | 3Φ(LOADING RHEOSTAT)<br>400V/4.5KW                                                                                                                    | 1     |
| 31 | UPF<br>(1Φ)1/2A,150/300V                                                                                                                              | 2     |
| 32 | DC COMPOUND MOTOR<br>DC COMPOUND MOTOR 3HP, 220V,1500 RPM (COUPLED BY 4<br>POINT STARTER & BREAK DRUM,BELT & DIAL TYPE SPRING<br>BALANCE)             | 1-SET |
| 33 | DC SERIES MOTOR<br>DC SERIES MOTOR 3HP, 220V,1500 RPM (COUPLED BY 2 POINT<br>STARTER & BREAK DRUM,BELT & DIAL TYPE SPRING<br>BALANCE)                 | 1-SET |
| 34 | SQUIRREL CAGE IM<br>SQUIRREL CAGE IM 5HP, 415V,1440 RPM (COUPLED WITH<br>FULLY AUTOMATIC Y/Δ STARTER & BREAK DRUM,BELT &<br>DIAL TYPE SPRING BALANCE) | 2-SET |
| 35 | SLIP RING IM<br>SLIP RING IM 5HP, 415V,1440 RPM (COUPLED WITH ROTOR<br>RESISTANCE STARTER & BREAK DRUM,BELT & DIAL TYPE<br>SPRING BALANCE)            | 1-SET |
| 36 | 1Φ INDUCTION MOTOR<br>1Φ IM,CAPACITOR START, 1HP, 230V,1440 RPM (COUPLED<br>WITH BREAK DRUM,BELT & DIAL TYPE SPRING BALANCE)                          | 2-SET |
| 37 | 2 POLE CHANGING INDUCTION MOTOR<br>3Φ IM,3HP, 440V,1440/2880 RPM (COUPLED WITH D.O.L<br>STARTER & BREAK DRUM,BELT & DIAL TYPE SPRING<br>BALANCE)      | 1-SET |
| 38 | SYNCHRONOUS MOTOR<br>3Φ ,5HP, 415V,1500 RPM (COUPLED WITH BREAK DRUM,BELT<br>& DIAL TYPE SPRING BALANCE)                                              | 1-SET |
| 39 | 8" CUTTING PLIER                                                                                                                                      | 1     |
| 40 | NOSE PLIER                                                                                                                                            | 1     |
| 41 | SIDE CUTTER                                                                                                                                           | 1     |
| 42 | SCREW SPANNER                                                                                                                                         | 1     |
| 43 | BALL PINE HAMMER(500GM)                                                                                                                               | 1     |
| 44 | DESPANNER & RING SPANNER                                                                                                                              | 2 SET |
| 45 | ALLEN KEY                                                                                                                                             | 10    |
| 46 | SCREW DRIVER                                                                                                                                          | 7     |

|    |                                                        |    |
|----|--------------------------------------------------------|----|
| 47 | NEON TESTER                                            | 1  |
| 48 | BALL PINE HAMMER(1/2IN)-LB                             | 1  |
| 49 | SOLDERING IRON-25W                                     | 1  |
| 50 | RAW PLUG<br>8 NO.RAW PLUG AND TOOL                     | 1  |
| 51 | RAW PLUG<br>12.NO RAW PLUG AND TOOL                    | 1  |
| 52 | RHEOSTAT 250Ω/1.5A                                     | 8  |
| 53 | RHEOSTAT 250Ω/2A                                       | 8  |
| 54 | RHEOSTATE 1000Ω/1A                                     | 6  |
| 55 | RHEOSTATE 100Ω/5A                                      | 2  |
| 56 | RHEOSTATE 150Ω/5A                                      | 2  |
| 57 | RHEOSTATE 600Ω/2A                                      | 2  |
| 58 | DPDT                                                   | 5  |
| 59 | DPST                                                   | 11 |
| 60 | TPST                                                   | 10 |
| 61 | SPST                                                   | 9  |
| 62 | TPDT                                                   | 4  |
| 63 | DIGITAL TACHOMETER<br>0-10000 RPM                      | 5  |
| 64 | AMMETER/MC 0-5/10A                                     | 4  |
| 65 | AMMETER/MC 0-10/20A                                    | 4  |
| 66 | AMMETER/MI 0-1/2A                                      | 3  |
| 67 | AMMETER/MI 0/75/150V                                   | 3  |
| 68 | AMMETER/MI 0/75/150V                                   | 4  |
| 69 | WATTMETER/UPF<br>150/300/600V-1/2A-NIPPON(WODDEN CASE) | 2  |
| 70 | WATTMETER/UPF<br>150/300/600V-1/2A-NIPPON(WODDEN CASE) | 5  |
| 71 | 3 PHASE INDUCTIVE LOAD                                 | 1  |
| 72 | 3 PHASE CAPASITIVE LOAD                                | 1  |

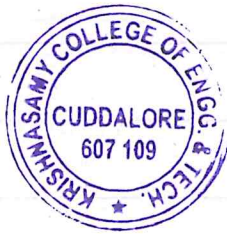
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|----|--------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 73 | WATTMETER/UPF<br>150/300/600V-5/10A-MECO                                                                                                   | 8     |
| 74 | WATTMETER/UPF<br>150/300/600V-5/10A-NIPPON                                                                                                 | 5     |
| 75 | AMMETER/MC 0-1.5/3A                                                                                                                        | 3     |
| 76 | AMMETER/MC(NIPPON)<br>0-1.5/3A                                                                                                             | 3     |
| 77 | AMMETER/MI 0-5/10A                                                                                                                         | 4     |
| 78 | AMMETER/MI<br>0-15/30A-NIPPON                                                                                                              | 2     |
| 79 | AMMETER/MI<br>0-15/30A-MECO                                                                                                                | 4     |
| 80 | VOLTMETER/MC<br>0-15/30V                                                                                                                   | 4     |
| 81 | VOLTMETER/MC<br>0-15/30V-NIPPON                                                                                                            | 6     |
| 82 | VOLTMETER/MC<br>0-150/300V                                                                                                                 | 4     |
| 83 | WATER RHEOSTATE<br>230V/15A                                                                                                                | 3     |
| 84 | 3Φ-TWO WINDING T/F 3KVA,440/230V                                                                                                           | 1     |
| 85 | 3Φ-SCOTT CONNECTION T/F<br>3KVA,440/440V                                                                                                   | 1     |
| 86 | INDUCTION GENERATOR<br>DC SHUNT MOTOR 5HP, 220V,1500 RPM &COUPLED BY 3<br>POINT STARTER COUPLED WITH SLIP RING IM3Φ ,5HP,<br>415V,1440 RPM | 1-SET |
| 87 | VOLTMETER/MI 0/300/600V                                                                                                                    | 8     |
| 88 | VOLTMETER/MI 0/50/100V                                                                                                                     | 4     |
| 89 | AMMETER/MC 0-10A                                                                                                                           | 4     |
| 90 | AMMETER/MC 0-15A                                                                                                                           | 2     |
| 91 | WATTMETER/UPF<br>50/100V-5/10A                                                                                                             | 6     |
| 92 | 1Φ,PF METER<br>125/250/500V-5/10A                                                                                                          | 1     |
| 93 | FREQUENCY METER-1Φ 40-50-60HZ/230V                                                                                                         | 1     |
| 94 | 1Φ(LOADING RHEOSTAT)<br>230V/8KW                                                                                                           | 2     |
| 95 | 3Φ(LOADING RHEOSTAT)<br>415V/5.1KW                                                                                                         | 2     |
| 96 | LAMP LOAD 3Φ/3KW                                                                                                                           | 1     |



|    |                                       |    |
|----|---------------------------------------|----|
| 97 | MANNUAL STAR DELTA STARTER<br>PROTEX  | 1  |
| 98 | 63A TRIBLE POLE SWITCH                | 14 |
| 99 | WATTMETER/LPF<br>0-150/300/600V-5/10A | 10 |

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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

| Sl. No                       | Name of the Instrument with Accessories            | Quantity Available |
|------------------------------|----------------------------------------------------|--------------------|
| <b>POWER ELECTRONICS LAB</b> |                                                    |                    |
| 1                            | DC POWER SUPPLY (0-30 V,1A)                        | 2                  |
| 2                            | DC POWER SUPPLY (0-30 V,2A)                        | 2                  |
| 3                            | CRO (DUAL TRACE) 30 MHZ                            | 5                  |
| 4                            | SCR,MOSFET,IGBT,TRIAC STATIC CHARACTERISTIC MODULE | 2                  |
| 5                            | LCR METER                                          | 3                  |
| 6                            | RHEOSTAT 500 $\Omega$ , 1A                         | 2                  |
| 7                            | RHEOSTAT 200 $\Omega$ , 5A                         | 1                  |
| 8                            | RHEOSTAT 170 $\Omega$ , 2A                         | 1                  |
| 9                            | DIGITAL MULTIMETER                                 | 5                  |
| 10                           | BREAD BOARD                                        | 3                  |
| 11                           | UNIVERSAL MOTOR                                    | 1                  |
| 12                           | R,RC,UJT FIRING MODULE                             | 2                  |
| 13                           | COMMUTATED CIRCUIT FOR CHOPPER                     | 2                  |
| 14                           | AC PHASE CONTROL USING SCR,TRIAC,DIAC              | 2                  |
| 15                           | SINGLE PHASE SCR BRIDGE CONVERTER                  | 2                  |
| 16                           | 1KVA ISOLATION TRANSFORMER                         | 1                  |
| 17                           | SERIES INVERTER                                    | 2                  |
| 18                           | 1HP DC MOTOR WITH LOADING ARRANGEMENT              | 1                  |
| 19                           | SINGLE PHASE CYCLO CONVERTER                       | 2                  |

|    |                                                                                   |   |
|----|-----------------------------------------------------------------------------------|---|
| 20 | THREE PHASE RESISTIVE LOAD                                                        | 1 |
| 21 | THREE PHASE HALF & FULLY CONVERTER                                                | 2 |
| 22 | SINGLE PHASE PARALLEL INVERTER                                                    | 2 |
| 23 | IGBT BASED CHOPPER                                                                | 1 |
| 24 | IGBT INVERTER KIT - PWM                                                           | 1 |
| 25 | RESISTIVE LOAD                                                                    | 1 |
| 26 | 5 KVA STABILIZER -<br>FIXED IN WALL                                               | 1 |
| 27 | CHARACTERISTICS OF SCR                                                            | 1 |
| 28 | CHARACTERISTICS OF TRIAC                                                          | 1 |
| 29 | CHARACTERISTICS OF MOSFET&IGBT                                                    | 1 |
| 30 | TRANSIENT CHARACTERISTICS OF SCR & MOSFET                                         | 1 |
| 31 | SCR FIRING CIRCUIT MODULE                                                         | 2 |
| 32 | 1 PHASE HALF CONTROLLED CONVERTER                                                 | 2 |
| 33 | 3PHASE HALF CONTROLLED CONVERTER                                                  | 2 |
| 34 | IGBT BASED 1 $\phi$ PWM INVERTER                                                  | 1 |
| 35 | ISOLATION TRANSFORMER -<br>1 KVA                                                  | 2 |
| 36 | MOSFET BASED STEP DOWN & STEP UP CHOPPER                                          | 2 |
| 37 | IGBT BASED 3 $\phi$ PWM INVERTER                                                  | 2 |
| 38 | RESONANT DC TO DC CONVERTER                                                       | 2 |
| 39 | BATTERY WITH CHARGER                                                              | 1 |
| 40 | ISOLATION TRANSFORMER -<br>3 PHASE -1 KVA                                         | 1 |
| 41 | V/F CONTROL OF VSI FED 3 $\phi$ INDUCTION MOTOR DRIVE                             | 1 |
| 42 | IGBT BASED HIGH FREQUENCY CHOPPER                                                 | 1 |
| 43 | LCR METER                                                                         | 1 |
| 44 | STUDY OF TEMPERATURE MEASURING TRANSDUCERS<br>INCLUDING WATER BATH AS HEAT SOURCE | 1 |
| 45 | DISPLACEMENT MEASURING TRAINER<br>USING LVDT                                      | 1 |
| 46 | PRESSURE MEASUREMENT TRAINER MODULE                                               | 1 |



|    |                                               |          |
|----|-----------------------------------------------|----------|
| 47 | WHEATSTONE BRIDGE                             | 1        |
| 48 | KELVIN DOUBLE BRIDGE                          | 1        |
| 49 | MEXWELL'S INDUCTANCE BRIDGE                   | 1        |
| 50 | ANDERSON BRIDGE                               | 1        |
| 51 | INSTRUMENTATION AMPLIFIER                     | 1        |
| 52 | LINEARIZATION USING MICROPROCESSORS           | 1        |
| 53 | A/D and D/A CONVERTERS                        | 1        |
| 54 | PHASE ANGLE & POWER FACTOR MEASUREMENT MODULE | 1        |
| 55 | STANDARD 1Ø ENERGY METER                      | 1        |
| 56 | CALIBRATION OF 1Ø ENERGY METER                | 1        |
| 57 | AMMETER                                       | 3        |
| 58 | VOLTMETER(150/600V)                           | 3        |
| 59 | WATTMETER                                     | 2        |
| 60 | MEASUREMENT OF 3Ø POWER AND POWERFACTOR       | 1        |
| 61 | STANDARD 3Ø ENERGY METER                      | 1        |
| 62 | CALIBRATION OF 3Ø ENERGY METER                | 1        |
| 63 | RESISTIVE LOAD                                | 1        |
| 64 | STUDY OF TRANSIENTS                           | 1        |
| 65 | CAPACITOR BANK                                | 1        |
| 66 | DECADE INDUCTANCE BOX                         | 2        |
| 67 | DECADE RESISTANCE BOX                         | 1        |
| 68 | TORQUE MEASUREMENT TRAINER                    | 1        |
| 69 | MI POWER SOFTWARE PACKAGE                     | 10 Users |
| 70 | SCHERING BRIDGE                               | 1        |
| 71 | 3Ø ISOLATION TRANSFORMER                      | 2        |
| 72 | MEASUREMENT OF IRON LOSS                      | 1        |
| 73 | TRANSFORMER                                   | 1        |

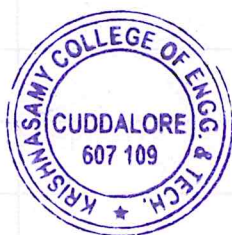
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| 74 | CALIBRATION OF CURRENT TRANSFORMER        | 1        |
| 75 | MATLAB SOFTWARE                           | 10 Users |
| 76 | PHOTOCONDUCTIVE DEVICE<br>CHARECTERISTICS | 1        |

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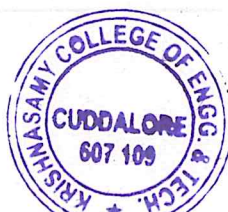
## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

| Sl. No                              | Name of the Instrument with Accessories                                                                                                                           | Quantity Available |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1                                   | UDT 9002 IC Trainer with manual<br><b>MicroTEK</b>                                                                                                                | 4                  |
| 2                                   | UDT 9002 IC Trainer with manual                                                                                                                                   | 6                  |
| 3                                   | UDT 9002 IC Trainer                                                                                                                                               | 7                  |
| 4                                   | IC tester 16 digit display and 24 key keyboard with power chord                                                                                                   | 1                  |
| 5                                   | IC Tester (DIT 2040) & LIC -T 20 with 2 power chord                                                                                                               | 2 & 2              |
| 6                                   | Linear IC Trainer (VLICT) with power chord - <b>VI Microsystems</b>                                                                                               | 4                  |
| 7                                   | Analog cum Digital IC Tester 20 & 40 pin, Power Chord 02, MANUAL 02                                                                                               | 2                  |
| <b>ELECTRONIC SYSTEM DESIGN LAB</b> |                                                                                                                                                                   |                    |
| 8                                   | BUCK BOOST CONVERTER<br>( Model :VPET-350 ) with power chord (1), patch chord (02) and power supply (01-not working) -<br><b>Transferred to EEE on 06.02.2019</b> | 1                  |
| 9                                   | Flyback converter kit with power chord (1) ,power supply (1-not working), patch chord (02) and manual                                                             | 1                  |
| 10                                  | RTD transmitter with power chord, heater with transducer                                                                                                          | 1                  |
| 11                                  | Microcontroller based system design with power chord (01-working), CD, manual                                                                                     | 1                  |
| 12                                  | AC / DC voltage regulator with power supply                                                                                                                       | 1                  |
| 13                                  | High current linear power supply with supply and manual                                                                                                           | 1                  |
| 14                                  | Instrumentation amplifier and digital indicator with power supply, manual -<br><b>May be transferred to EEE</b>                                                   | 1                  |
| 15                                  | Process control timer with power supply (2), manual<br>i) 8 Channel Sequential Counter<br>ii) Programmable Timer                                                  | 1                  |
| 16                                  | Switched mode power supply with supply, manual                                                                                                                    | 1                  |
| 17                                  | PLC and Wireless data modem with adaptor (2), manual (1), power chord (1), RS-232 cable (2)                                                                       | 1 + 1              |



|                                  |                                                                                                                  |         |
|----------------------------------|------------------------------------------------------------------------------------------------------------------|---------|
| 18                               | <b>Multimeters</b><br>3 3/4 digit 3200 count handheld<br>with probe working                                      | 2       |
| 19                               | 3 3/4 digit 3200 count handheld<br>with probe working                                                            | 2       |
| 20                               | MAS830 digital meter                                                                                             | 1       |
| 21                               | M-3900 Digital multimeter                                                                                        | 5       |
| 22                               | M-3900 Digital multimeter                                                                                        | 2       |
| 23                               | Model NO-M 830BZ Martic<br>multimeter                                                                            | 2       |
| 24                               | M3900 DMM                                                                                                        | 1       |
| 25                               | M-830B Digital multimeter                                                                                        | 3       |
| 26                               | 820B Digital multimeter                                                                                          | 1       |
| 27                               | 830B Digital multimeter                                                                                          | 4       |
| <b>EC- II AND SIMULATION LAB</b> |                                                                                                                  |         |
| 28                               | Decade resistance box (DRB 7D) - 1 $\Omega$ -1 M $\Omega$                                                        | 10      |
| 29                               | Decade inductance box (DIB 5D) - 10 $\mu$ H - 1000 mH                                                            | 10      |
| 30                               | 6 Amp 2 pole MDS (Tripper)                                                                                       | 6       |
| 31                               | Dual power supply (DRPS-30V/2A) with manual (6)                                                                  | 7       |
| 32                               | Function generator (FG 30) with power chord and 10 probe<br>(not working)                                        | 10      |
| 33                               | Function generator (FG 32) with 8 probe (not working)                                                            | 8       |
| 34                               | Dual trace 20 MHz CRO with power chord and 2 probe not working                                                   | 1       |
| 35                               | Cathode Ray Oscilloscope<br>(OSC-5030C) with power chord and 4 probe not working                                 | 2       |
| 36                               | Cathode Ray Oscilloscope<br>(OSC-5020) with power chord and 10 probe not working                                 | 5       |
| 37                               | Cathode Ray Oscilloscope<br>(OSC-5030C) with power chord and 10 probe working -<br>Serial No. 21, 22, 09, 48, 52 | 5       |
| 38                               | Multisim software                                                                                                | 10 user |

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

| Sl. No                                | Name of the Instrument with Accessories                                            | Quantity Available |
|---------------------------------------|------------------------------------------------------------------------------------|--------------------|
| <b>LINEAR INTEGRATED CIRCUITS LAB</b> |                                                                                    |                    |
| 1                                     | 1 MHz Audio Oscillator with Counter with probe and power chord - <b>MicroTEK</b>   | 2                  |
| 2                                     | 5 Dial Capacitance 100 pF 10 $\mu$ F                                               | 2                  |
| 3                                     | 5 Dial Decade Capacitance box 100 pF 10 $\mu$ F                                    | 10                 |
| 4                                     | 6 Dial Resistance 10 $\Omega$ -1 M $\Omega$                                        | 2                  |
| 5                                     | 7 Dial Decade resistance box 1 $\Omega$ -1 M $\Omega$                              | 13                 |
| 6                                     | RPS (0-30 V),1 Amp - UI                                                            | 10                 |
| 7                                     | Variable,5V fixed multi channel power supply with power chord - 2A - <b>Falcon</b> | 10                 |
| 8                                     | Dual Regulated Power supply, 30V, 2A                                               | 10                 |
| 9                                     | FG-32 with probe and power chord - <b>MicroTEK</b>                                 | 15                 |
| 10                                    | FG-32 with probe and power chord                                                   | 2                  |
| 11                                    | FET Voltmeter - UI                                                                 | 1                  |
| 12                                    | FET Voltmeter                                                                      | 1                  |
| 13                                    | Single range (0-10mA) - Analog meter - UI                                          | 4                  |
| 14                                    | Double range (0-50 / 100 mA) - UI                                                  | 4                  |
| 15                                    | Double range (0-250 / 500 mA) - UI                                                 | 2                  |
| 16                                    | Double range (0-50 / 100 $\mu$ A)- UI                                              | 2                  |
| 17                                    | Double range (0-1.5 / 3 V)- UI                                                     | 4                  |
| 18                                    | Double range (0-5 / 10 V)- UI                                                      | 2                  |
| 19                                    | Double range (0-15 / 30 V)- UI                                                     | 4                  |



|    |                                                                                                                                                                                     |    |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 20 | Ammeter (0-50mA) - VI Microsystems                                                                                                                                                  | 2  |
| 21 | Ammeter (0-100mA)                                                                                                                                                                   | 2  |
| 22 | Ammeter (0-50mA)                                                                                                                                                                    | 3  |
| 23 | Ammeter (0-100mA)                                                                                                                                                                   | 3  |
| 24 | Ammeter (0-250mA)                                                                                                                                                                   | 5  |
| 25 | Voltmeter (0-10V) - DC - VI Microsystems                                                                                                                                            | 5  |
| 26 | Voltmeter (0-5V)- DC                                                                                                                                                                | 5  |
| 27 | Voltmeter (0-50v) - DC                                                                                                                                                              | 5  |
| 28 | Oscilloscope(OSC 5020A) with 20 probes and 10 power chord ( 2W/3NW) - MicroTEK                                                                                                      | 10 |
| 29 | Oscilloscope(OSC 5030) 30 MHZ with 10 probe and 5 power chord - MicroTEK                                                                                                            | 5  |
| 30 | Digital (100MHZ) storage oscilloscope with USB interface. CD-08, Power chord-08, 1X Cable -08, 10X Probe -08 -MS Equipments                                                         | 8  |
| 31 | "MS" Dual output DC Regulated power supply with individual mode with digital display for voltage and current with overload short circuit protection. <b>Range : 1.2X0-30V/3Amps</b> | 2  |
| 32 | "MEXTECH" DS5100Model 100MHZ/1Gsam/s Digital Storage Oscilloscope with USB Interface.                                                                                               | 2  |
| 33 | "SCIENTIFIC" 3Mhz Digital Function generator Product Features. <b>Frequency Range : 0.3Hz to 3MHz.</b>                                                                              | 3  |
| 34 | "VAARTECH" V830L + Digital Hand held multimeter.                                                                                                                                    | 26 |

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

| Sl. No                           | Name of the Instrument with Accessories                                                | Quantity Available |
|----------------------------------|----------------------------------------------------------------------------------------|--------------------|
| <b>COMMUNICATION SYSTEMS LAB</b> |                                                                                        |                    |
| 1                                | DIGITAL STORAGE OSCILLOSCOPE with power chord and probe (14)                           | 7                  |
| 2                                | CRO 10:1 PROBES                                                                        | 6                  |
| 3                                | FM RECEIVER                                                                            | 2                  |
| 4                                | FG - 002, 2MHz, FUNCTION GENERATOR with frequency counter (with power chord and probe) | 8                  |
| 5                                | MULTIMETER with probe wire                                                             | 6                  |
| 6                                | AM TRANSMITTER KIT with 230v,50 Hz power supply, power chord, manual                   | 2                  |
| 7                                | AM RECEIVER KIT with 230v,50 Hz power supply, power chord, manual                      | 2                  |
| 8                                | FM TRANSMITTER KIT with 230v,50 Hz power supply, power chord, manual                   | 2                  |
| 9                                | FM RECEIVER KIT with 230v,50 Hz power supply, power chord, manual                      | 2                  |
| 10                               | DELTA/SIGMA DELTA/ADAPTIVE DELTA KIT with power supply, power chord and manual         | 2                  |
| 11                               | DPCM/ADPCM KIT with power supply, power chord and manual                               | 2                  |
| 12                               | FT 1503, PA modulation and demodulation KIT with manual                                | 1                  |
| 13                               | FT 1504, PW modulation and demodulation KIT with manual                                | 1                  |
| 14                               | FT 1505, PP modulation and demodulation KIT with manual                                | 1                  |
| 15                               | FT 15551, SAMPLING AND RECONSTRUCTION KIT                                              | 1                  |
| 16                               | FT 1557, Time Division Multiplexing and Demultiplexing KIT with manual                 | 1                  |
| 17                               | FT 1555, Pulse Code Modulation and demodulation KIT with manual                        | 1                  |
| 18                               | PCM KIT with manual                                                                    | 1                  |
| 19                               | FT 1556, FSK modulation and demodulation KIT with manual                               | 1                  |
| 20                               | FT 1507, PSK modulation and demodulation KIT with manual                               | 1                  |
| 21                               | FT 1507, PSK modulation and demodulation KIT with manual                               | 1                  |
| 22                               | FT 1561, LINE CODING AND DECODING KIT with manual                                      | 1                  |
| 23                               | FT 1560, QPSK modulation and demodulation KIT with manual                              | 1                  |
| 24                               | ELC 131D, LCR METER with probe and AC adaptor                                          | 1                  |

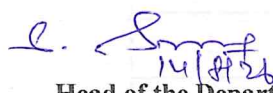
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|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 25                                                    | BREAD BOARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5                                                 |
| 26                                                    | DUAL POWER SUPPLY<br>[DRPS - 30V / 2A]                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                                                 |
| 28                                                    | FT 1503, PA modulation and demodulation KIT with manual and 8V power supply                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                 |
| 29                                                    | FT 1505, PP modulation and demodulation KIT with manual and 8V power supply                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                 |
| 30                                                    | FT 1504, PW modulation and demodulation KIT with manual and 8V power supply                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                                 |
| 31                                                    | FT 1558, ASK modulation and demodulation KIT with manual and 18V power supply                                                                                                                                                                                                                                                                                                                                                                                                                    | 2                                                 |
| 32                                                    | FT 1506, FSK modulation and demodulation KIT with manual and 18V power supply                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                 |
| 33                                                    | FT 1560, QPSK modulation and demodulation KIT with manual and 8V power supply                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                 |
| 34                                                    | FT 15551, ANALOG SAMPLING AND RECONSTRUCTION KIT with manual and 18V power supply                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                                 |
| 35                                                    | Analog TD multiplexing and demultiplexingKIT with manual and 18V power supply                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                 |
| 36                                                    | FDM KIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                                 |
| 37                                                    | AM Modulation and Demodulation Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                                                 |
| 38                                                    | FM Modulation and demodulation Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1                                                 |
| 39                                                    | Analog Sampling and Reconstruction trainer kit                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2                                                 |
| 40                                                    | Pre emphasis and de emphasis                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                                                 |
| 41                                                    | TDM Multiplexing and demultiplexing trainer kit                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                 |
| 42                                                    | PAM, PWM, PPM modulation and demodulation trainer kit                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                                 |
| 43                                                    | Delta Modulation and demodulation trainer kit                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                 |
| 44                                                    | ASK / FSK Modulation and demodulation                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                                 |
| 45                                                    | PSK and DPSK Modulation and demodulation                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                                                 |
| 46                                                    | PCM Modulation and demodulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2                                                 |
| <b>OPTICAL AND MICROWAVE LAB - OPTICAL COMPONENTS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                   |
| 47                                                    | <b>FIBER OPTIC INSTRUMENTS</b><br>i) model M-100 fiber optic power meter with manual ii) 1 meter ST single mode patch chord of glass fiber iii) 1 meter ST multi mode patch chord of glass fiber<br>iv) ST-ST matching sleeve                                                                                                                                                                                                                                                                    | i) 2<br>ii) Yellow-10<br>iii) Orange-10<br>iv) 10 |
| 48                                                    | Model LS 1300, Fiber Optic LED POWER SOURCE with manual                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1                                                 |
| 49                                                    | <b>OPTICAL COMMUNICATION KIT</b><br>i) FCL-01 fiber optic analog transmitter kit<br>ii) FCL-02 fiber optic analog receiver kit with power supply and power chord for i & ii, iii) FCL-03 fiber optic analog and digital modulation and demod kit with power supply and power chord iv) FCL -04 fiber optic advanced digital communication kit with power supply and power chord v) FG-01 Function Generator with power supply and power chord vi) FG-02 Function Generator with connecting cable | 05 Each                                           |



|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 50                          | LINK-E KIT with power chord and power supply                                                                                                                                                                                                                                                                                                                                                                                                                      | 2                                  |
| 51                          | AUDIO INPUT AND OUTPUT<br>with connecting cable                                                                                                                                                                                                                                                                                                                                                                                                                   | 2 SETS                             |
| 52                          | <b>FIBER OPTIC VIDEO LINK</b> with CCD camera, speaker, mic, volume adjuster, camera stand, 12 v adaptor(2), optical power source, dish stand, experimental manual                                                                                                                                                                                                                                                                                                | 1                                  |
| 53                          | MODE OBSERVATION TRAINER with manual                                                                                                                                                                                                                                                                                                                                                                                                                              | 1                                  |
| 54                          | FIBER OPTIC POWER METER                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                                  |
| 55                          | FIXED ATTENUATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1                                  |
| 56                          | MICROWAVE POWER METER with CD and instruction manual                                                                                                                                                                                                                                                                                                                                                                                                              | 1                                  |
| <b>MICROWAVE COMPONENTS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |
| 57                          | <b>GUNN POWER SUPPLY SETUP</b> with power chord and operation manual<br>i) Gunn power supply ii) Gunn Diode<br>iii) PIN modulator iv) Gunn Oscillator                                                                                                                                                                                                                                                                                                             | 1                                  |
| 58                          | <b>RADIATION PATTERN SETUP</b> with antenna stand (4)<br>i) Waveguide bend 90 degree<br>ii) Standard gain horn<br>iii) parabolic dish with feed                                                                                                                                                                                                                                                                                                                   | i) 1<br>ii) 2<br>iii) 1            |
| 59                          | RADIATION PATTERN TURN TABLE SETUP                                                                                                                                                                                                                                                                                                                                                                                                                                | 1                                  |
| 60                          | <b>MULTI HOLE DIRECTIONAL COUPLER SETUP</b><br>i) multi hole directional coupler 10,20 dB<br>ii) E-plane Tee iii) H-plane Tee iv) Magic Tee                                                                                                                                                                                                                                                                                                                       | i) 1+1<br>ii) 1<br>iii) 1<br>iv) 1 |
| 61                          | MULTI HOLE DIRECTIONAL COUPLER SETUP-3 DB                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                                  |
| 62                          | MAGIC TEE                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1                                  |
| 63                          | E PLANE TEE                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                  |
| 64                          | H PLANE TEE                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1                                  |
| 65                          | PIN DIODES                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3                                  |
| 66                          | SPARE CRYSTAL DIODE                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                                  |
| 67                          | J BAND ISOLATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                                  |
| 68                          | MICROWAVE POWER METER, 9000B, Krytar make with 9517A diode sensor (with 14V DC adaptor and power sensor)                                                                                                                                                                                                                                                                                                                                                          | 1                                  |
| 69                          | OSC 310-M, DSO with RS-232 cable, 10:1 probe (2) and adaptor                                                                                                                                                                                                                                                                                                                                                                                                      | 1                                  |
| 70                          | <b>MICROWAVE TEST BENCH-X BAND</b> with power chord (5)<br>i) Solid state klystron power supply<br>ii) Klystron mount iii) Klystron tube 2K25/2K27 iv) Isolator<br>v) Frequency meter vi) Variable attenuator vii) Slotted section viii) Waveguide stand (12) ix) SS tuner<br>x) Tunable probe xi) Detector mount<br>xii) movable short xiii) Fixed short<br>xiv) Matched termination<br>xv) VSWR meter xvi) Cooling fan<br>xvii) BNC cable xviii) BNC open cable | Each 3 Set                         |



|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 71 | <b>MICROWAVE TEST BENCH- J BAND</b><br>with power chord (1)<br>i) Solid state klystron power supply<br>ii) Klystron mount    iii) Klystron tube<br>iv) Frequency meter v) Variable attenuator    vi) Slotted section    vii) Tunable probe<br>viii) Detector mount    ix) movable short    x) Fixed short    xi) Matched termination    xii) VSWR meter    xiii) Waveguide stand (04)    xiv) SS tuner    xv) Cooling fan<br>xvi) BNC cable    xvii) BNC open cable       | Each 1 set |
| 72 | <b>MTI - 1002, MICROWAVE TEST BENCH-X BAND</b> with power chord (04) and manual<br>i) Gunn power supply    ii) Gunn oscillator<br>iii) PIN modulator    iv) Isolator<br>v) Frequency meter    vi) Variable attenuator    vii) Slotted section<br>viii) Tunable probe    ix) Detector mount<br>x) movable short    xi) Matched termination    xii) VSWR meter    xiii) SS tuner<br>xiv) Cooling fan    xv) Fixed short<br>xvi) waveguide stand (08)<br>xvii) BNC cable (3) | Each 2 set |
| 73 | KLYSTRON TUBE (Black)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2          |
| 74 | KLYSTRON MOUNT (White)                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2          |
| 75 | OCTAL WIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2          |
| 76 | Circulator with termination / Isolator (X-Band)                                                                                                                                                                                                                                                                                                                                                                                                                           | 1          |

  
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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

| Sl. No                                        | Name of the Instrument with Accessories                                                                                                                                           | Quantity Available |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>MICROPROCESSOR and MICROCONTROLLER LAB</b> |                                                                                                                                                                                   |                    |
| 1                                             | 8085 microprocessor trainer kit with power cable (10-W) - <b>VI Microsystems</b>                                                                                                  | 10                 |
| 2                                             | 8086 microprocessor trainer kit with power cable (02-W) - <b>VI Microsystems</b>                                                                                                  | 2                  |
| 3                                             | MCS family microcontroller trainer [MICRO 51 EB LED] with power cable (02-W) - <b>VI Microsystems</b>                                                                             | 2                  |
| 4                                             | 8086 microprocessor kit PC interfacing facility ( <b>VIKASHA</b> ) with Power cable (08-W) and Keyboard (04-W)                                                                    | 8                  |
| 5                                             | 8086 microprocessor trainer kit with power cable (02-W,08-NW) and Keyboard (10-W) - <b>VI Microsystems</b>                                                                        | 10                 |
| 6                                             | Interfacing kit for microprocessor 8086 parallel peripheral I/O & O/P device (8255)<br>i) interfacing 24 LED using onboard 8255 to act as input ( <b>VIKASHA</b> )                | 1                  |
|                                               | ii) 24 switch interfacing using on board 8255 to act as input ( <b>VIKASHA</b> )                                                                                                  | 1                  |
| 7                                             | Counters timer control timer interface using 8253 ( <b>VIKASHA</b> )                                                                                                              | 1                  |
| 8 (i)                                         | keyboard and display control<br>i) keyboard controller using on board 8255 to interface with 16 keypad with 26 pin FRC cable ( <b>VIKASHA</b> )                                   | 1                  |
| 8 (ii)                                        | ii) Display controller driving 6 digit 7 segment LED display using on board 8255 with 26 pin FRC cable ( <b>VIKASHA</b> )                                                         | 1                  |
| 9                                             | 8255 interface board VBMB - 008 with 50 pin FRC cable - <b>VI Microsystems</b>                                                                                                    | 3                  |
| 10                                            | Interrupt controller 8259 add on card with FRC cable ( <b>VIKASHA</b> )                                                                                                           | 1                  |
| 11                                            | 8259 interface board with 50 pin FRC cable ( <b>VI Microsystems</b> )                                                                                                             | 3                  |
| 12                                            | Interfacing kit for 8086 microprocessor ( <b>VIKASHA</b> )<br>i) Stepper motor driver card with One kg stepper motor                                                              | 1                  |
|                                               | ii) LVDT interfacing with LVDT position control kit consisting of 5mm LVDT signal conditioning card and display with facility to interface to microprocessor/ microcontroller kit | 1                  |

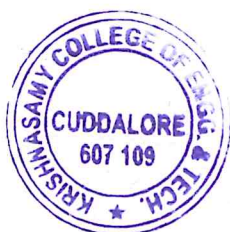


|    |                                                                                                                                                                                |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
|    | iii) AC/DC fractional horse power speed control unit consisting of FHP motor thyristor firing angle circuitry with facility to interface to microprocessor/microcontroller kit | 1  |
| 13 | PC based control system (temperature control with software) (VIKASHA) with CD                                                                                                  | 1  |
| 14 | PC interfacing microprocessor kit to serial port COM1/COM2 of PC (VIKASHA)                                                                                                     | 1  |
| 15 | MCS family microcontroller trainer [MICRO 51 EB LCD] with power chord and Keyboard (W) - (VI Microsystems)                                                                     | 3  |
| 16 | Microcontroller 8031/51 [MICRO 51 EB LCD] with power chord and Keyboard (W)                                                                                                    | 10 |
| 17 | Keyboard and display interface board [VBMB-001] with FRC 50 pin (2) - VI Microsystems                                                                                          | 2  |
| 18 | Keyboard and display interface board [VBMB-001] with FRC 50 pin (3) - VI Microsystems                                                                                          | 3  |
| 19 | 2 Channel DAC interface board [VBMB-002] with FRC 50 pin (2) - VI Microsystems                                                                                                 | 2  |
| 20 | DAC interface board [VBMB-003] with FRC 50 pin (3) - VI Microsystems                                                                                                           | 3  |
| 21 | 8 channel ADC interface board [VBMB-003] with FRC 50 pin (2) - VI Microsystems                                                                                                 | 2  |
| 22 | ADC interface board [VBMB-002] with FRC 50 pin (3) - VI Microsystems                                                                                                           | 3  |
| 23 | 8251 & 8253 interface board [VBMB-004] with FRC 50 pin (2) - VI Microsystems                                                                                                   | 2  |
| 24 | 8251 & 8253 interface board [VBMB-004] with FRC 50 pin (3) - VI Microsystems                                                                                                   | 3  |
| 25 | ADC and DAC Measurement control [VBMB-030] with FRC 50 pin (2) - VI Microsystems                                                                                               | 2  |
| 26 | ADC and DAC Measurement control [VBMB-030] with FRC 50 pin (3) - VI Microsystems                                                                                               | 3  |
| 27 | AD590 Temperature Transducer - VI Microsystems                                                                                                                                 | 5  |
| 29 | FDC interface board [VBMB - 012] - VI Microsystems                                                                                                                             | 2  |
| 31 | Water bath with realy with power chord -VI Microsystems                                                                                                                        | 3  |
| 32 | 8 - bit digit multiplexed display code [VBMB - 016] with 50 pin FRC cable                                                                                                      | 3  |
| 33 | Traffic Light Control system with FRC cable (04-Not working) - VI Microsystems                                                                                                 | 4  |
| 34 | Stepper motor controller with motor [VBMB - 013A] with 50 pin FRC cable - VI Microsystems                                                                                      | 4  |
| 35 | DC motor speed measurement and Control [VBMB - 017] with 50 pin FRC cable - VI Microsystems                                                                                    | 4  |
| 36 | Printer Trainer module [PCTS 005] with power chord                                                                                                                             | 2  |
| 38 | C cross compiler for 8051 family with tiny RTOS[R kit-L51] CD with manual                                                                                                      | 1  |
| 39 | 8085 Microprocessor trainer [micro 85EBLCD] with power chord(05-NW)                                                                                                            | 5  |



|                                  |                                                                                                                       |   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|---|
| 40                               | Cathode ray Oscilloscope (30 MHZ) (CRO 07,02) with power chord                                                        | 2 |
| 41                               | M-3900 Digital Multimeter with probe                                                                                  | 3 |
| 42                               | 8085 Low cost Microprocessor Trainer [Micro - 85 LC] with power chord                                                 | 3 |
| 43                               | 8086 Microprocessor trainer kit (86-LCD) with power chord and keyboard                                                | 3 |
| 44                               | 8051 microcontroller (micro -51LC LCD) with power chord and keyboard                                                  | 2 |
| 45                               | 8086 Microprocessor trainer kit (86LC-LCD) with power chord and keyboard                                              | 7 |
| 46                               | Real Time Clock / Calender Board (VBMB - 015) with FRC 50 pin cable                                                   | 5 |
| 47                               | Printer Interface Board (VBMB - 005) with 50 pin FRC cable                                                            | 3 |
| 48                               | Interfacing with 8086 - PC add on Card with 8255,8253,8279,8251 prototype and bus adaptor for IBM PC (VPCI - 107)     | 8 |
| 49                               | 8051 microcontroller trainer kit with accessories<br>User manual -5, Keyboard -5, Power chord -5, RS232 cable -5 - MS | 5 |
| 50                               | 8085 microprocessor LC [Micro-85 LC/LCD] Processor Intel 8085 A CPU@6.144 MHz Clock Speed                             | 2 |
| 51                               | Stepper motor controller with motor [VBMB - 013A] with 50 pin FRC cable - VI Microsystems                             | 1 |
| <b>Instruments - VLSI Design</b> |                                                                                                                       |   |
| 52                               | Keyboard and Display module [VLIM - 001]                                                                              | 2 |
| 53                               | Interfacing of 8 bit D/A & A/D converter<br>a) 2 channel DAC interface board [VBMB- 002]                              | 2 |
| 54                               | b) 8 channel ADC interface board [VBMB- 003]                                                                          | 2 |
| 55                               | ADC and DAC measurement and control module temperature control [VBMB - 030]                                           | 1 |
| 56                               | Traffic Light Control System TRAF                                                                                     |   |
| 57                               | DMA interface board [VBMB - 011]                                                                                      | 2 |
| 58                               | 8259 simulator board [VBMB - 007]                                                                                     | 2 |

  
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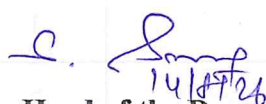


## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

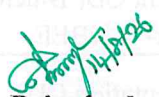
| Sl. No                            | Name of the Instrument with Accessories                                                                                                                                                                                                                        | Quantity Available |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Instruments - VLSI Design</b>  |                                                                                                                                                                                                                                                                |                    |
| 1                                 | Universal Multi Vendor Development Kit<br>Common platform for FPGA & CPLD from different vendor like XILINK Ultra and latix extra-SPARTAN -III with power supply (9v-1A), download cable, AU-I, AU-2, GPIO-I, GPIO-2 and Interface Cards ( 10 pin &16 pin)- 60 | 15                 |
| 2                                 | XILINK ISE SOFTWARE 9.2i                                                                                                                                                                                                                                       | Multiuser          |
| 3                                 | HP DX2480 / E2180 /1Gb / 160 Gb CPU & HP 18.5" TFT monitor (with keyboard, mouse, power chord, monitor connection cable (CPU) & LAN cable)                                                                                                                     | 33                 |
| 4                                 | TVS electronics MSP - 450 & DM printer rating 150 - 270 V, 47 - 63 Hz, 1Amps (with power chord and printer cable)                                                                                                                                              | 1                  |
| <b>Instruments - Embedded Lab</b> |                                                                                                                                                                                                                                                                |                    |
| 5                                 | SPIRIT - II- LPC2148 ARM 7 (Triton IDE ) with 5.7 adaptor, 16 pin FRC, RS-232 cable                                                                                                                                                                            | 8                  |
| 6                                 | Zigbee Interface Module Pair with 12V adaptor, RS-232 cable                                                                                                                                                                                                    | 1 (pair)           |
| 7                                 | Bluetooth Interface Module Pair with 12V adaptor, RS-232 cable                                                                                                                                                                                                 | 1 with tongle      |
| 8                                 | RF Interface Module Pair with 12V adaptor, 16 pin FRC, RS-232 cable, 10 pin FRC cable                                                                                                                                                                          | 1 pair             |
| 9                                 | ARM - FPGA Fusion Embedded Development                                                                                                                                                                                                                         | 1                  |
| 10                                | Education Wall Charts                                                                                                                                                                                                                                          | 5                  |
| 11                                | TRITON software                                                                                                                                                                                                                                                | 5                  |
| 12                                | Document CD                                                                                                                                                                                                                                                    | 5                  |
| 13                                | Manual - SPIRIT II                                                                                                                                                                                                                                             | 3                  |
| 14                                | Document CD( Bluetooth,Hericuls, RF Transceiver, Voyager- II XBEE                                                                                                                                                                                              | 1                  |
| 15                                | Documentation CD                                                                                                                                                                                                                                               | 3                  |
| 16                                | SPIRIT II USER MANUAL                                                                                                                                                                                                                                          | 5                  |
| 17                                | TRITON IDE( starter edition CD ROM)                                                                                                                                                                                                                            | 3                  |



|    |                                                                                                                                                                                                                                          |        |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 18 | PS – PRIMER 8051                                                                                                                                                                                                                         | 1      |
| 19 | PS – SLICKER PIC16F/18F with 3 Adaptor & serial cable, 10 FRC cable, Stepper motor, DAC- chip, LCD, CD (Duplicate with manual details)                                                                                                   | 2      |
| 20 | VI –MSP430 with 9V adaptor                                                                                                                                                                                                               | 1      |
| 21 | MSP430 DEBUGGER with USB cable & CD                                                                                                                                                                                                      | 1      |
| 22 | LPC 2378 DEVELOPMENT BOARD with power chord& USB cable                                                                                                                                                                                   | 1      |
| 23 | IAR JTAG FOR ARM                                                                                                                                                                                                                         | 1      |
| 24 | Simulation of Digital Controller using MATLAB with 3 power chord                                                                                                                                                                         | 1      |
| 25 | UNIVERSAL VLSI TRAINER(VVSM-08) with 2 power chord with CD                                                                                                                                                                               | 2      |
| 26 | SPARTAN-3E PIGGY BACK BOARD(VVSP-14) with CD                                                                                                                                                                                             | 2      |
| 27 | COOL RUNNER II CPLD PIGGY BACK BOARD with CD                                                                                                                                                                                             | 2      |
| 28 | Cadence-Analog & Digital with 5 CD's                                                                                                                                                                                                     | 6 User |
| 29 | PS – PRIMER 8051B (8051B with PS2 interface)                                                                                                                                                                                             | 3      |
| 30 | PS – SLICKER PIC16F/18F with serial cable(5), 10 pin FRC cable(15), 9V adaptor 1 amps(3), 15V 1 amps(2), user manual(5), programming CD(5), 2*16 LCD(5- big-3 & small-2), Graphical LCD(5), USB cable(2), stepper motor (5), DAC chip(2) | 2      |
| 31 | PS-PRIMER ARM7-LPC 2148 with 9V adaptor,serial cable, software CD                                                                                                                                                                        | 5      |
| 32 | ARM-7 EMBEDDED DEVELOPMENT TRAINER KIT                                                                                                                                                                                                   | 5      |
| 33 | ZIGBEE MODULE with serial cable,adaptor,USB,CD                                                                                                                                                                                           | 5      |
| 34 | ACER VERITON DTM 200 15/12th / 16 GB with keyboard and mouse                                                                                                                                                                             | 33     |
| 35 | ACER V206 HQL 19.5" Monitor                                                                                                                                                                                                              | 33     |
| 36 | ESP 32 Wroom Development Board                                                                                                                                                                                                           | 13     |
| 37 | Cable for ESP 32                                                                                                                                                                                                                         | 13     |
| 38 | DHT 11 Temperature and Humidity Sensor                                                                                                                                                                                                   | 13     |

  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

| Sl. No                                                           | Name of the Instrument with Accessories                                                                                               | Quantity Available |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>DIGITAL SIGNAL PROCESSING LAB &amp; COMPUTER NETWORKS LAB</b> |                                                                                                                                       |                    |
| 1                                                                | POWER SUPPLY AND FUNCTION GENERATOR (WITH MANUAL), Technical Reference manual (10), Lab Experiment Manual (1), Chip Detail Manual (1) | 10                 |
| 2                                                                | TMS320C50 BASED STARTER Kit User Guide (1), Software and lab experiment CD (4), Serial port cable (10-NW)                             | 10                 |
| 3                                                                | TMS320C5416 DSP KIT with software CD, Power cable and Serial Cable                                                                    | 3                  |
| 4                                                                | TMS320C6713 DSP KIT with 5V adaptor and USB cable                                                                                     | 2                  |
| 5                                                                | CODEC ADD ON CARD                                                                                                                     | 1                  |
| 6                                                                | MATLAB SOFTWARE                                                                                                                       | 11 USER            |
|                                                                  | SIGNAL PROCESSING TOOL BOX (6 CD'S)                                                                                                   | 10                 |
| 7                                                                | DUAL TRACE 20MHz CRO with power cable (3-W) and BNC cable (6-NW) - OSC - 5020A                                                        | 3                  |
| 8.1                                                              | Multimedia Speaker                                                                                                                    | 1                  |
| 8.2                                                              | TVS 345 Champion Printer (Dotmat)                                                                                                     | 1                  |
| 8.3                                                              | True power UPS 10KVA                                                                                                                  | 1                  |
| 8.4                                                              | D link network Ethernet switch 24 port                                                                                                | 2                  |
| 8.5                                                              | Battery - 12 V                                                                                                                        | 20                 |
| 9                                                                | IMPLEMENTATION CHARGES FOR DSP Lab                                                                                                    | 1                  |
| 10                                                               | WINDOWS BASED DEBUGGER UPGRADATION FOR TMS320C50 STARTER KIT with USB cable                                                           | 5                  |
| 11                                                               | 6EL40 PLUS (12V 40 A.H Exide Tubular Battery)                                                                                         | 40                 |
| Sl. No                                                           | <b>COMPUTER NETWORKS LAB</b>                                                                                                          |                    |
| 12                                                               | Networks Laboratory System Comprising                                                                                                 | 5 set              |
| 13                                                               | MCS51 MICRO CONTROLLER BASED NODES                                                                                                    | 15                 |
| 14                                                               | WIRELESSS MODULES                                                                                                                     | 5                  |
| 15                                                               | RS232 to RS485 INTERFACE CARD                                                                                                         | 5                  |
| 16                                                               | UE Token Bus & Token Ring analysis S/W                                                                                                | 5                  |
|                                                                  | UE WIRELESS LAN NETWORK MONITOR SOFTWARE                                                                                              |                    |

|    |                                                                                                                                                                                                                                                                                                             |       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 17 | RS232 Serial Cable & 8 - bit parallel cable                                                                                                                                                                                                                                                                 | 5 & 5 |
| 18 | RS232 DOWNLOAD CABLE                                                                                                                                                                                                                                                                                        | 20    |
| 19 | RS232 LAN CABLES & User Manual                                                                                                                                                                                                                                                                              | 5 & 5 |
|    | TOKEN BUS CABLE & TOKEN RING CABLE                                                                                                                                                                                                                                                                          | 5 & 5 |
| 20 | SMPS POWER SUPPLY                                                                                                                                                                                                                                                                                           | 10    |
| 21 | UE - NETWORK SIMULATOR SOFTWARE - COMPRISING with UE-NS Software (01 CD), RS 232 cable (8), Hardware lock (1+1), User manual (White) - 2 and power cable (10)                                                                                                                                               |       |
| 22 | <b>CPU (PENTIUM DUAL CORE CPU E5500 @2.80 GHZ 320 GB-HARD DISK 2 GB RAM)</b><br>with Monitor (18.5" LCD), Keyboard (33), Mouse (33), Power Cable (66), LAN Cable (33) and VGA Cable (33)                                                                                                                    | 33    |
|    | Gigabyte H310 mother board 15/17 supports 93 year I 5 8th generation OGI. Box CPU processor (1 year) with Intel Original CPU fan DDR 4 samsung OGL 16 GB RAM, Hard disk 500 GB, Nvme-Gigabyte (3Year), keyboard with mouse LOGITECH (3 year) tower cabinet with high end SMPS (3 year) LAPCARE Monitor ACER | 33    |

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14/8/24

Head of the Department

*Dr. G. Elango*  
14/8/24

Principal

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**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No                           | Name of the Instrument with Accessories                                                                                                                                                                                                                                                 | Quantity Available |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>ENGINEERING PRACTICES LAB</b> |                                                                                                                                                                                                                                                                                         |                    |
| 1                                | MOULDING BOX ( 12 *12*4)                                                                                                                                                                                                                                                                | 13 SETS            |
| 2                                | PEEN RAMMER                                                                                                                                                                                                                                                                             | 12 Nos             |
| 3                                | BUT RAMMER                                                                                                                                                                                                                                                                              | 12 Nos             |
| 4                                | TROWEL BIG                                                                                                                                                                                                                                                                              | 12 Nos             |
| 5                                | TROWEL SMALL                                                                                                                                                                                                                                                                            | 12 Nos             |
| 6                                | TROWEL MEDIUM                                                                                                                                                                                                                                                                           | 12 Nos             |
| 7                                | SHOWEL                                                                                                                                                                                                                                                                                  | 3 Nos              |
| 8                                | VENT WIRE                                                                                                                                                                                                                                                                               | 12 Nos             |
| 9                                | LIFTER                                                                                                                                                                                                                                                                                  | 12 Nos             |
| 10                               | MALLET                                                                                                                                                                                                                                                                                  | 12 Nos             |
| 11                               | DRAW SPIKE                                                                                                                                                                                                                                                                              | 12 Nos             |
| 12                               | RUNNER                                                                                                                                                                                                                                                                                  | 12 Nos             |
| 13                               | RISER                                                                                                                                                                                                                                                                                   | 12 Nos             |
| 14                               | STRIKE OFF BAR                                                                                                                                                                                                                                                                          | 12 Nos             |
| 15                               | FLAGE TYPE PATTERN (Single piece )                                                                                                                                                                                                                                                      | 12 Nos             |
| 16                               | GEAR WHEEL TYPE PATTERN (Single piece )                                                                                                                                                                                                                                                 | 12 Nos             |
| 17                               | V-GROOVE PULLEY PATTERN (Split pattern)                                                                                                                                                                                                                                                 | 12 Nos             |
| 18                               | MOULDING BOARD (Wooden)                                                                                                                                                                                                                                                                 | 12 Nos             |
| 19                               | PLAT FORM (Wooden)                                                                                                                                                                                                                                                                      | 2 Nos              |
| 20                               | LATHE SADDLE PATTERN                                                                                                                                                                                                                                                                    | 6 Nos              |
| 21                               | CORE BOX                                                                                                                                                                                                                                                                                | 6 Nos              |
| 22                               | SPLIT PATTERN                                                                                                                                                                                                                                                                           | 6 Nos              |
| 23                               | WELDING TRANSFORMER (Little giant welding transformer 250 amps, copper welding,oil cooling,phases 1 To 2 ,frequency 50 hz,with 6m welding cable,hand shiled ,with uv glasses,wire brush,slag hammer, pair of leather gloves,apron leather, goggles,welding helment & safty helment      | 1 set              |
| 24                               | WELDING TRANSFORMER (Manipal make arc welding machine transformer 250 amps, copper welding,oil cooling,1 phase,frequency 50 hz,with 10 m welding cable,hand shiled ,with uv glasses,wire brush,slag hammer, pair of leather gloves,apron leather, goggles,welding helment , face shiled | 2 set              |



|    |                                                                                                                                               |        |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 25 | CHIPPING HAMMER ( indian make )                                                                                                               | 2 Nos  |
| 26 | FACE SHILED                                                                                                                                   | 1No    |
| 27 | HAND SHILED                                                                                                                                   | 1No    |
| 28 | HAND SHILED                                                                                                                                   | 3Nos   |
| 29 | LEATHER APRON ( indian make )                                                                                                                 | 2 Nos  |
| 30 | LEATHER APRON ( indian make )                                                                                                                 | 2 Nos  |
| 31 | WELDING APRON                                                                                                                                 | 2 Nos  |
| 32 | WELDING HELMET                                                                                                                                | 1No    |
| 33 | SAFETY HELMET                                                                                                                                 | 1No    |
| 34 | PLAT FORM (Wooden)                                                                                                                            | 2 Nos  |
| 35 | EYE MAGNET                                                                                                                                    | 1No    |
| 36 | GAS WELDING SET (1mt/ Best Indian Make Gas Welding Set<br>Compressing Of Clips,Cylinder Key, Hoses,Cutting Torch,Regulators<br>5m+5m)D/ Stage | 2 set  |
| 37 | BEST MAKE GAS WELDING TORCH                                                                                                                   | 2 Nos  |
| 38 | LPG REGULATOR                                                                                                                                 | 2 Nos  |
| 39 | FLAT TONGS( 18 inch)                                                                                                                          | 2 Nos  |
| 40 | OXYGEN GAS CYLINDER (D type 02 empty gas cylinder (46.7<br>lwc))                                                                              | 1No    |
| 41 | ACETYLENE GAS CYLINDER(D type empty Acetylene gas<br>cylinder)                                                                                | 1No    |
| 42 | WELDING TABLE                                                                                                                                 | 6 Nos  |
| 43 | BHARAT MAKE SCRIPER                                                                                                                           | 10 Nos |
| 44 | INDIAN MAKE STRIGHT PEEN HAMMER WITH HANDLE                                                                                                   | 12 Nos |
| 45 | NETCO MAKE STRIGHT SNIPS 10 inch                                                                                                              | 4 Nos  |
| 46 | NETCO MAKE STRIGHT SNIPS 10 inch                                                                                                              | 6 Nos  |
| 47 | INDIAN MAKE FLAT CHISEL                                                                                                                       | 10 Nos |
| 48 | RIVETING SNAPS                                                                                                                                | 10 Nos |
| 49 | STANDERAD WIRE GAUGE( 1-36 G)                                                                                                                 | 1 Nos  |
| 50 | INDIAN MAKE TRY SQUARE 12 inch                                                                                                                | 1 Nos  |
| 51 | FREE MAN STEEL TAPE 3 m                                                                                                                       | 2 Nos  |
| 52 | BHARAT MAKE SPRING CALIPER INSIDE 6 inch                                                                                                      | 12 Nos |
| 53 | BHARAT MAKE SPRING CALIPER OUTSIDE 6 inch                                                                                                     | 12 Nos |
| 54 | HOLLOW PUNCH SET 4-32 mm                                                                                                                      | 1 set  |
| 55 | HALF ROUND FILE SMOOTH 8 inch                                                                                                                 | 6 Nos  |
| 56 | INDIAN MAKE CROSS PEEN HAMMER                                                                                                                 | 5 Nos  |
| 57 | RIVETING PUNCH WITH STEEL HANDLE                                                                                                              | 10 Nos |
| 58 | TIN CUTTER (BEND SNIP)                                                                                                                        | 10 Nos |
| 59 | ANVIL 100 Kg                                                                                                                                  | 5Nos   |
| 60 | SLEDGE HAMMER 3LP                                                                                                                             | 5Nos   |
| 61 | FLAT TONGS( 18 inch)                                                                                                                          | 5Nos   |
| 62 | SQUARE TONGS                                                                                                                                  | 5Nos   |

|     |                                        |          |
|-----|----------------------------------------|----------|
| 63  | ROUND TONGS                            | 5Nos     |
| 64  | BRASS RULE                             | 5Nos     |
| 65  | HOT SET                                | 5Nos     |
| 66  | COLD SET                               | 5Nos     |
| 67  | FLATTER                                | 5Nos     |
| 68  | FULLER SET                             | 5 Set    |
| 69  | SWAGES TOP& BOTTOM                     | 5 Set    |
| 70  | SWAGES BLOCK                           | 1 No     |
| 71  | SLEDGE HAMMER BIG                      | 2 Nos    |
| 72  | OPEN HEARTH                            | 2 Nos    |
| 73  | BENCH VICE                             | 20 Nos   |
| 74  | BENCH VICE                             | 10 Nos   |
| 75  | BENCH VICE                             | 10 Nos   |
| 76  | STEEL RULE                             | 20 Nos   |
| 77  | STEEL RULE                             | 20 Nos   |
| 78  | HACKSAW FRAME (fixed)                  | 20 Nos   |
| 79  | HACKSAW FRAME (fixed)                  | 20 Nos   |
| 80  | TRY SQUARE-6 INCH                      | 20 Nos   |
| 81  | TRY SQUARE-6 INCH                      | 20 Nos   |
| 82  | CENTRE PUNCH-4 INCH                    | 20 Nos   |
| 83  | CENTRE PUNCH-4 INCH                    | 20 Nos   |
| 84  | DIVIDER-6 INCH                         | 20 Nos   |
| 85  | JENNY CALIPER-6 INCH & 8 INCH (spring) | 20 Nos   |
| 86  | JENNY CALIPER-6 INCH & 8 INCH (spring) | 20 Nos   |
| 87  | FLAT FILE - 12 INCH( Rough)            | 20 Nos   |
| 88  | FLAT FILE - 12 INCH( Rough)            | 20 Nos   |
| 89  | FLAT FILE - 8 INCH(Smooth)             | 20 Nos   |
| 90  | FLAT FILE - 8 INCH(Smooth)             | 20 Nos   |
| 91  | SQUARE FILE-8 INCH (Rough)             | 20 Nos   |
| 92  | SQUARE FILE-8 INCH (Rough)             | 20 Nos   |
| 93  | ROUND FIFLE-8 INCH (Rough)             | 20 Nos   |
| 94  | ROUND FIFLE-8 INCH (Rough)             | 20 Nos   |
| 95  | SAFE EDGE FIFLE-6 INCH (Rough)         | 20 Nos   |
| 96  | SAFE EDGE FIFLE-6 INCH (Rough)         | 20 Nos   |
| 97  | TRIAN GULAR FIFLE -8 INCH(Rough)       | 20 Nos   |
| 98  | TRIAN GULAR FIFLE -8 INCH(Rough)       | 20 Nos   |
| 99  | NEEDLE FILE (SET)-6 INCH               | 1SET(10) |
| 100 | SCRIBER-6 INCH                         | 20 Nos   |
| 101 | SCRIBER-6 INCH                         | 20 Nos   |
| 102 | HALF ROUND FILE -8 INCH(Rough)         | 20 Nos   |



|     |                                         |        |
|-----|-----------------------------------------|--------|
| 103 | HALF ROUND FILE -8 INCH(Rough)          | 20 Nos |
| 104 | FLAT CHISEL-6 INCH                      | 5 Nos  |
| 105 | ROUND NOSE CHISEL-6 INCH                | 5 Nos  |
| 106 | VERNIER CALIPR (China -150 mm)          | 2 Nos  |
| 107 | CUTTING PLIER -8 INCH                   | 1 Nos  |
| 108 | CUTTING PLIER -8 INCH                   | 2 Nos  |
| 109 | NOSE PLIER-6 INCH                       | 1 Nos  |
| 110 | NOSE PLIER-6 INCH                       | 5 Nos  |
| 111 | GRIP PLIER-10 INCH                      | 1 Nos  |
| 112 | SCREW DRIVER (SET)                      | 1 set  |
| 113 | SCREW DRIVER (SET)                      | 1 set  |
| 114 | ADJUSTABLE SPANNER-10 INCH              | 1 set  |
| 115 | NUMBER PUNCH -(5mm)                     | 1 set  |
| 116 | NUMBER PUNCH -(5mm)                     | 2 set  |
| 117 | LETTER PUNCH-(5mm)                      | 1 set  |
| 118 | LETTER PUNCH-(5mm)                      | 2 set  |
| 119 | D/E SPANNER (6-32)                      | 12Nos  |
| 120 | RING SPANNER (6-32)                     | 12Nos  |
| 121 | ALLENKEY                                | 1 set  |
| 122 | RADIUS GAUGE(1-15 mm)                   | 1 set  |
| 123 | BALL PEEN HAMMER (1/2 lb)               | 20 Nos |
| 124 | BALL PEEN HAMMER (1/2 lb)               | 20 Nos |
| 125 | DRILL BIT SET                           | 25 Nos |
| 126 | DRILL BIT SET                           | 25 Nos |
| 127 | TAP & DIE SET                           | 1 set  |
| 128 | OIL CAN                                 | 1 Nos  |
| 129 | SURFACE PLATE/18*18/C.I                 | 1 set  |
| 130 | ANGLE PLATE -5*6                        | 1set   |
| 131 | INDIAN MAKE JAFUGMAGENTIC MARKING GUAGE | 1 Nos  |

for *G. Gopal*  
14.08.26  
Head of the Department



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**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No                  | Name of the Instrument with Accessories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Quantity Available |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>MECHATRONICS LAB</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |
| 1                       | Electro Pnematic Trainer Kit<br><b>Accessories:</b><br>Profile plate aluminium(1no),double acting cylinder(2nos),single acting cylinder(1no),regulator with guage assembly(1no), 3/2 way shut off valve(1nos),3/2 way bush button valve assembly(1no),3/2 way roller operated valve with idle return(2nos), 4/3 way hand operated valve assembly(1no),5/2 way single pilot valve assembly(1no),5/2 way double pilot valve assembly(1no), flow control valve assembly(2nos),5/2 way single solenoid valve assembly(1no),5/2 way double solenoid valve assembly(1no), manifold(1no).                                                                                                                                                                                                                             | 1                  |
| 2                       | Electro Pnematic Trainer Kit with PLC<br><b>Accessories:</b><br>Profile plate aluminium(1no),double acting cylinder(1no),single acting cylinder(1no),regulator with guage assembly(1no), 3/2 way shut off valve(1no),3/2 way bush button valve assembly(1no),3/2 way roller operated valve(1nos),3/2 way roller operated valve with idle return(2nos), 4/3 way hand operated valve assembly(1no),5/2 way sigle pilot valve assembly(1no),5/2 way double pilot valve assembly(1no), flow control valve assembly(2nos),5/2 way single solenoid valve assembly(1no),5/2 way double solenoid valve assembly(1no),Electronic control circuit assembly (timer), inductive proximity sensor assembly(1no).capactive proximity sensor assembly(1no),DPDT RELAY(1NO),Labtech make advanced PLC kit(1no), manifold(1no). | 1                  |
| 3                       | Hydosim(SIM H4),Pneumosim(SIM P4) Software full version. CD 4nos +2 guide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                  |
| 4                       | Servo conroller interfacing for open loop and closed loop speed control (with lab view based high speed 16 bit usb based DAQ system)+ AC servo motor closed loop (service +component change)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                  |
| 5                       | Digital PID controller interfacing test -Rig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1                  |
| 6                       | 8051 micro controller kit with stepper motor (7kg) and drive circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2                  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 7  | Hydraulic trainer kit with load set up<br>Accessories: Pressure guage(3nos),flow control valve(1no),one way flow control valve(2no),shut off valve(1nos),pressure relief valve(1no),pressure sequence valve (1no),cylinders(2ns),4/2 way hand operated valve(2no),4/3 way hand operated valve with reciprocating(1no),pilot operated check valve(1no),counter balanced valve(1no),manifold block(1no),accumulator capacity (1no),T-connectors (2nos),connectors and tubes (8nos),profile plate(1no),power pack unit 1hp foot mounted 1phase motor(1no). | 1 |
| 8  | Multi processes station with lab view based intergrated process station for flow level, pressure and temperture.                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 |
| 9  | Air compressor working pressure 10kg/cm2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 |
| 10 | CRO 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 |
| 11 | Digital multimeter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 |
| 12 | HCL-working system(AMD 3600 ,Asus mother board ,1gb ram ,ddr2,80gb hard disk,15 inch crt monitor,hcl keyboard & mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 |

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**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No         | Name of the Instrument with Accessories                                                                                                                                                                                                                                                                                            | Quantity Available |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>CAD LAB</b> |                                                                                                                                                                                                                                                                                                                                    |                    |
| 1              | Mechanical solutionset softwares with autocad inventor+autocad electrical+3Dmax<br>total DVD=23<br>Autocad inventor professional 2008-8 DVD'S<br>Autocad electrical 2008-6 DVD'S<br>Autocad Raster Design 2008-1 DVD'S<br>Autodesk product stream 2008-4 DVD'S<br>Autodesk(3D MAX)-2 DVD'S<br>Autodesk Design Acedemy(2008)-2DVD'S | 1 set              |
| 2              | size colour printer                                                                                                                                                                                                                                                                                                                | 1                  |
| 3              | Autodesk books(training course)<br>Autodesk product stream 2008<br>Autodesk(3D MAX)@9 (Essential AOTC)<br>Autocad inventor ( volume 1& 2 AOTC)<br>Autocad Raster Design 2008(Essential AOTC)<br>Autocad Vault 2008(Essential AOTC)<br>autocad 2008(Essential volume 2 AOTC)                                                        | 8 books            |
| 4              | LCD Projector PLC XW 55-SANYO                                                                                                                                                                                                                                                                                                      | 1                  |
| 5              | HP Black ink catridge                                                                                                                                                                                                                                                                                                              | 1                  |
| 6              | ANSYS Software version 11.0.<br>25 users                                                                                                                                                                                                                                                                                           | 25 users           |
| 7              | Cables vedio 15 mts others 2mts VGA                                                                                                                                                                                                                                                                                                | 1                  |
| 8              | EDGE CAM Software version 2012                                                                                                                                                                                                                                                                                                     | 15+30users         |
| 9              | HP P2-127511 WORKING SYSTEM<br>Processor: Intel R Core TM i3-3220T,2GB,PC3-10600/HDD<br>500GB/18.5 INCH LCD Monitor                                                                                                                                                                                                                | 36                 |

*S. Gopal*  
14.08.26  
for Head of the Department



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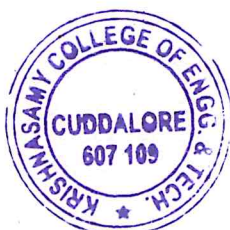
**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No                                              | Name of the Instrument with Accessories                                                                                                                              | Quantity Available |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Manufacturing Technology Labortary-I &amp;II</b> |                                                                                                                                                                      |                    |
| 1                                                   | Sks 3/4 gerared type Drilling Machine(19mm) 8 speed with standard accesoriors , "4-0" driller STAR 1HP 3 phase 1440 rpm motor with 13mm drill chuck arbor and swicth | 1                  |
| 2                                                   | 4" Drill vice                                                                                                                                                        | 1                  |
| 3                                                   | KEC 0.5 H.P 3 phase 2880 rpm bench grinder (8") 440 volts , 0.75 amps                                                                                                | 1                  |
| 4                                                   | 1HP 1PH Bench grinder                                                                                                                                                | 1                  |
| 5                                                   | Best make hacksaw machine "8" hydraulic with 2HP, 3PHASE 1440rpm motor 8 starter 2HP                                                                                 | 1                  |
| 6                                                   | GUJART 4 1/2 feed light duty lathe machine                                                                                                                           | 2                  |
| 7                                                   | 1HP 3PH Vega ISI Motor                                                                                                                                               | 2                  |
| 8                                                   | 8" Dog Chuck single slot                                                                                                                                             | 2                  |
| 9                                                   | 6"True Chuck                                                                                                                                                         | 2                  |
| 10                                                  | Reverse/Forward Switch                                                                                                                                               | 2                  |
| 11                                                  | lathe tools and Accessories Revolving centre (mt3)                                                                                                                   | 2                  |
| 12                                                  | Tool holder (Straight 1/2")                                                                                                                                          | 2                  |
| 13                                                  | Drill Chuck with key 1/2"                                                                                                                                            | 1                  |
| 14                                                  | Arbor (mt2)                                                                                                                                                          | 1                  |
| 15                                                  | Drill Sleeve (2-3)                                                                                                                                                   | 2                  |
| 16                                                  | Back Plate                                                                                                                                                           | 2                  |
| 17                                                  | 4. 1/2 lathe machine with standarad accerosiors with 1HP 3PH 1400RPM motor , 6" Self centring chuck,R/F Switch                                                       | 6                  |
| 18                                                  | Taper turning attachment fitted with 4 1/2 lathe machine                                                                                                             | 4                  |

|    |                                                                                                                                                           |    |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 19 | 4.1/2 nortan with standard accessories with 1HP 3PH 1400RPM electric motor                                                                                | 3  |
| 20 | delux 6 true chuck fitted with 4 1/2 lathe machine                                                                                                        | 3  |
| 21 | Star 7 lathe machine with steady rest and follow rest with set of change gear                                                                             | 1  |
| 22 | Zither 200mm stc-3                                                                                                                                        | 1  |
| 23 | 3HP starter                                                                                                                                               | 5  |
| 24 | 1HP starter                                                                                                                                               | 12 |
| 25 | 16A T.P main switch                                                                                                                                       | 12 |
| 26 | 4 1/2 all geared lathe machine with standarad accessories with 2HP 3PH 1400RPM motor R/F switch                                                           | 3  |
| 27 | 6 true chuck delux fitted with all geared lathe                                                                                                           | 3  |
| 28 | 25mm radial drilling machine with standard accessories with 1HP 3PH 1400RPM motor 0.5HP 3PH electric motor drill chuck arboor sleeve and drift R/F switch | 1  |
| 29 | Internal threading tool                                                                                                                                   | 15 |
| 30 | Addison HSS T/S Drill 1/2                                                                                                                                 | 15 |
| 31 | Addison HSS T/S Drill 3/4                                                                                                                                 | 15 |
| 32 | MIRANTA HSS tool bit 3/8*4                                                                                                                                | 30 |
| 33 | MIRANTA HSS tool bit 1/2*4                                                                                                                                | 20 |
| 34 | Drill sleeve (2-3)                                                                                                                                        | 15 |
| 35 | Inside caliper 6                                                                                                                                          | 10 |
| 36 | Outside caliper 6                                                                                                                                         | 10 |
| 37 | Screw pitch gauge                                                                                                                                         | 2  |
| 38 | Lathe carrier straight 50mm                                                                                                                               | 1  |
| 39 | Lathe carrier bend 50mm                                                                                                                                   | 1  |
| 40 | Tool holder (Straight 3/8")                                                                                                                               | 15 |
| 41 | Tool holder (straight 1/2")                                                                                                                               | 15 |
| 42 | Hand shearing m/c 300mm heavy                                                                                                                             | 1  |
| 43 | knurling tool 1017 2 rollers                                                                                                                              | 15 |
| 44 | Tool holder left 1/2                                                                                                                                      | 2  |
| 45 | Tool holder right 1/2                                                                                                                                     | 2  |

|    |                                                                                                                                                              |    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 46 | Tool holder straight 3/4                                                                                                                                     | 1  |
| 47 | Drill sleeve (1-2)                                                                                                                                           | 15 |
| 48 | TAPARIA socket set S-14m                                                                                                                                     | 1  |
| 49 | ADDISON HSS hand reamer 1/2                                                                                                                                  | 1  |
| 48 | ALLEN keyset inch AKI-10                                                                                                                                     | 1  |
| 49 | 18 shapping PNB Brand 18 shapping machine standard accessories with 2HP Motor m/c vice R/F Switch                                                            | 2  |
| 50 | 10 slooting gujarat make 10 slotting machine with standard accessories with 2HP 3PH Electric motor rotary table 6 true chuck R/F Switch                      | 1  |
| 51 | Slotting machine keyway bar and tool bit                                                                                                                     | 1  |
| 52 | ISO-40 E-40 Collet adoptor                                                                                                                                   | 1  |
| 53 | End mill HSS ST.SH 10.0mm (addison make)                                                                                                                     | 1  |
| 54 | End mill HSS ST.SH 12.0mm (addison make)                                                                                                                     | 1  |
| 55 | Grinding wheel (200*13*31.75) AA60 K5 VB                                                                                                                     | 1  |
| 56 | Cylindrical cutter (addison make) (3*1*1)                                                                                                                    | 1  |
| 57 | 5kva servo controlled voltage stabilizer                                                                                                                     | 1  |
| 58 | Indian make master model cl-25s capstan lathe supplied with standard accessories with electricals as per maker supply cap:25mm                               | 1  |
| 59 | Bar feeding attachment                                                                                                                                       | 1  |
| 60 | True chuck 160mm*3jaw                                                                                                                                        | 1  |
| 61 | Chuck plate                                                                                                                                                  | 1  |
| 62 | Indian make master model suraj geared head universal milling machine supplied with standard accessories with electricals as per maker supply size:1050*250mm | 1  |
| 63 | Vertical attachment                                                                                                                                          | 1  |
| 64 | Dividing head                                                                                                                                                | 1  |
| 65 | Rotory milling table                                                                                                                                         | 1  |

for *S. Gopal*  
14.09.26  
Head of the Department



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14/09/26  
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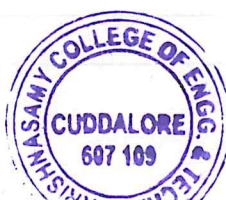


**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No             | Name of the Instrument with Accessories                                                                                                    | Quantity Available |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>THERMAL LAB</b> |                                                                                                                                            |                    |
| 1                  | CUT SECTION MODEL OF TWO STROKE PETROL ENGINE                                                                                              | 1                  |
| 2                  | CUT SECTION MODEL OF FOUR STROKE DIESEL ENGINE                                                                                             | 1                  |
| 3                  | REDWOOD VISCOMETER APPARATUS<br>thermometer 1 no                                                                                           | 1                  |
| 4                  | PENSKY MARTENS FLASH AND FIRE POINT APPARATUS,<br>Thermometers 3 Nos - Range 80 - 200°C , 0 - 100°C , 0 - 400°C                            | 1                  |
| 5                  | FOUR STROKE SINGLE CYLINDER SLOW SPEED DIESEL ENGINE                                                                                       | 1                  |
| 6                  | FOUR STROKE SINGLE CYLINDER DIESEL ENGINE WITH ELECTRICAL LOADING, Measuring Jar - 1000 ml                                                 | 1                  |
| 7                  | 16 CHANNEL DATA LOGGER AND SOFTWARE (Windos based software CD 1 nos)                                                                       | 1                  |
|                    | USB CABLE                                                                                                                                  | 1                  |
| 8                  | SINGLE CYLINDER FOUR STROKE PETROL ENGINE WITH ELECTRICAL LOADING, Stop watch 1 No                                                         | 1                  |
| 9                  | OIL FIRED STEAM BOILER(NON IBR)                                                                                                            | 1                  |
| 10                 | EXPERIMENTAL ON STEAM TURBINE                                                                                                              | 1                  |
| 11                 | BOILER ACCESSORIES, M.S chimney, M.S fuel tank, Steam seperater, M.S water Tank , water Hardness analyser, Pipe lines, Valves and fittings | 1                  |
| 12                 | FOUR STROKE SINGLE CYLINDER DIESEL ENGINE WITH HYDRAULIC LOADING ,Stop watch 1 No                                                          | 1                  |
| 13                 | FOUR STROKE FOUR CYLINDER PETROL ENGINE ,Stop watch, Tachometer Each one No (NPM not working), Measuring jaw 1 no                          | 1                  |
| 14                 | TARO 1 HP SLOW SPEED MOTOR<br>(MFD TEXMO INDUSTRIES MODEL : TSP 3)                                                                         | 1                  |
| 15                 | EXIDE EXPRESS(HEAVY DUTY BATTERY) (12 volt)                                                                                                | 1                  |
| 16                 | OIL CAN 1/2 PINT                                                                                                                           | 1                  |
| 17                 | EMPTY PLASTC CAN 10 LIT                                                                                                                    | 1                  |

|    |                                                                                                                 |            |
|----|-----------------------------------------------------------------------------------------------------------------|------------|
| 18 | DOUBLE END SPANNER SET (TAPARIA MAKE) - 1 SET<br>set of 12 no                                                   | 12         |
| 19 | RINGS SPANNER SET (TAPARIA MAKE) - 1 SET<br>set of 12 nos                                                       | 12         |
| 20 | T - HANDLE (TAPARIA MAKE)                                                                                       | 1          |
| 21 | 5 inch EXTENSION BAR (TAPARIA MAKE)                                                                             | 1          |
| 22 | 21 mm SPARK PLUG SOCKET (TAPARIA MAKE)                                                                          | 1          |
| 23 | RTD SENSORS                                                                                                     | 3          |
| 24 | MAINTENANCE TOOLS( 8" Cutting plier taperia, Tester, Screw driver, 18" Pipe wrinch, Screw driver set(8 blades)) | Each 1 Nos |
| 25 | MAINTENANCE TOOLS( 15 meter tape) Measuring tape                                                                | 1          |
| 26 | FEELER GAUGE (26 BLADE)                                                                                         | 1          |
| 27 | GUARDED PLATE APPARATUS                                                                                         | 1          |
| 28 | LAGGED PIPE APPARATUS                                                                                           | 1          |
| 29 | NATURAL CONVECTION VERTICAL CYLINDER APPARATUS                                                                  | 1          |
| 30 | FORCED CONVECTION INSIDE TUBE APPARATUS                                                                         | 1          |
| 31 | PIN - FIN APPARATUS                                                                                             | 1          |
| 32 | STEFAN BOLZMANN APPARATUS                                                                                       | 1          |
| 33 | EMISSIVITY MEASUREMENT APPARATUS                                                                                | 1          |
| 34 | PARALLEL/COUNTER FLOW HEAT EXCHANGER<br>APPARATUS & measuring Jar                                               | 1          |
| 35 | TWO STAGE RECIPROCATING AIR COMPRESSOR and<br>Tachometer, Stop watch each 1 no                                  | 1          |
| 36 | REFRIGERATION TEST RIG                                                                                          | 1          |
| 37 | AIRCONDITIONING TEST RIG WITH DATA LOGGER with<br>Sling psychrometer                                            | 1          |
| 38 | MAINTENANCE TOOLS( Soldering iron, Led, Paste, Wick)                                                            | 1          |
| 39 | HP-Monitor                                                                                                      | 1          |
| 40 | HP-CPU                                                                                                          | 1          |
| 41 | Power Card                                                                                                      | 1          |
| 42 | LAN Cable                                                                                                       | 0          |
| 43 | HP-Keybaord & Mouse                                                                                             | 1          |

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14.08.26  
Head of the Department



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**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No                               | Name of the Instrument with Accessories                                                                             | Quantity Available |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>Metrology and Measurement Lab</b> |                                                                                                                     |                    |
| 1                                    | DIAL GAUGE WITH MAGNETIC BASE STAND FOR (MITUTOYO) JAPAN MAKE                                                       | 3                  |
| 2                                    | MECHANICAL COMPARATOR WITH DIAL GAUGE AND 300*300mm granite base stand                                              | 1                  |
| 3                                    | LIMIT GAUGES (Standard makers) Pitch gauge 22+12+11 Blades                                                          | 1                  |
| 4                                    | LIMIT GAUGES (Standard makers) Ring gauge 2 go and no go gauges                                                     | 1 set              |
| 5                                    | LIMIT GAUGES (Standard makers) Feeler gauge 10 blades                                                               | 1                  |
| 6                                    | LIMIT GAUGES (Standard makers adjusting end type gauge) snap gauge                                                  | 1                  |
| 7                                    | LIMIT GAUGES (Standard makers) Radius gauge 17+17 blades                                                            | 1                  |
| 8                                    | LIMIT GAUGES (Standard makers) By using angle measurement Angle gauge                                               | 1                  |
| 9                                    | LIMIT GAUGES (Standard makers) Plain plug gauge (go-no go gauge)                                                    | 1 set              |
| 10                                   | TRY SQUARE Standard size 150mm*300mm<br>Material: stainless steel                                                   | 2                  |
| 11                                   | STEEL RULE (0-300mm)<br>Material: stainless steel                                                                   | 10                 |
| 12                                   | SPRIT LEVEL Standard size<br>Shaft type                                                                             | 1                  |
| 13                                   | MICROMETER (Out side caliper) (0-25)mm Japan make Mitutoyo                                                          | 3                  |
| 14                                   | MICROMETER (Out side caliper) (25-50)mm Japan make Mitutoyo                                                         | 1                  |
| 15                                   | MICROMETER (Out side caliper) (50-75)mm Japan make Mitutoyo                                                         | 1                  |
| 16                                   | VERNIER CALIPERS (0-150)mm Japan make Mitutoyo                                                                      | 5                  |
| 17                                   | VERNIER CALIPERS (0-300)mm China make                                                                               | 1                  |
| 18                                   | VERNIER HEIGHT GAUGE (0-300)mm Scribber type measuring jaw Japan make Mitutoyo                                      | 2                  |
| 19                                   | VERNIER DEPTH GAUGE (0-300)mm Standard type Japan make Mitutoyo                                                     | 2                  |
| 20                                   | SLIP GAUGE SET no of slip gauges pieces: 112 no<br>Box (Precision instrument) Japan make Mitutoyo                   | 1                  |
| 21                                   | SINE BAR ACE make size : 125mm & 150mm each 1 no                                                                    | 2                  |
| 22                                   | Bevel protractor angle measuring instrument make Mitutoyo                                                           | 1                  |
| 23                                   | Straight edge size: 24" 600mm(straightness testing instrument with standard accessories) Dial gauge 1 no stand 1 no | 1                  |
| 24                                   | Combination square set standard size with standard accessories                                                      | 1                  |



|    |                                                                                                                                                                                                            |   |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 25 | Floating carriage micrometer Resolution 0.0001mm make: Tool post standard accessories female centre, 2 wire set, prism, hooks and pillars                                                                  | 1 |
| 26 | Profile projector standard magnification of 10*20*30, different screen size, standard accessories. Rotary angle 360°, stage micrometer Halogen bulbs, Projection lens 100*300mm screen, lens: 10x,50x,100x | 1 |
| 27 | Temperature measuring set up kit standard accessories thermocouple, Heating source up to 100° Digital temperature indicator Specification : Temperature range 0-100°C thermocouple: Fe/K (j type)          | 1 |
| 28 | Linear Displacement Measuring Set up standard accessories capacitive transducer LVDT, with micrometer specification. LVDT range : +10mm Micrometer :0-25mm                                                 | 1 |
| 29 | V-Block with magnetic stand base 6 Nos 3sets Desired size                                                                                                                                                  | 6 |
| 30 | Tool makers microscope specification resolution 5m range : X axis 50mm                                                                                                                                     | 1 |
| 31 | Force measuring set up kit standard accessories strain gauge based load cell in compression weights and digital loading, Specification : load cell 5kg capacity Resolution: 0.1kg weighing stone 5 nos     | 1 |
| 32 | Torque measuring set up strain gauge based reaction type torque transducer, Fulcrum arm pan, weight & digital indicator                                                                                    | 1 |
| 33 | Dial gauge calibration max 25mm range with least count 0.001 mm with 10X lens (Pneumatic comparator)                                                                                                       | 1 |
| 34 | Autocollimeter standard accessories with deflecting mirror tool posts                                                                                                                                      | 1 |
| 35 | Surface plate with standard granite sizes 650*650mm                                                                                                                                                        | 3 |
| 36 | Gear tooth vernier standard type with Japan make                                                                                                                                                           | 1 |
| 37 | Limit gauge (standard makers) Taper gauge (scale type)                                                                                                                                                     | 1 |
| 38 | Vibration shock measuring set up standard accessories vibration generator 5micro newton capacity piezoelectric velocity and acceleration and tachometer (non contact type)                                 | 1 |
| 39 | Bore dial gauge 35mm to 60mm (6 no)                                                                                                                                                                        | 1 |
| 40 | Telescopic gauge (B,E,C,F,A,D) 6 no                                                                                                                                                                        | 1 |
| 41 | Experimental investigation of parallel flow and counter flow heat exchanger                                                                                                                                | 1 |

for *S. Gopal*  
Head of the Department 14.08.26



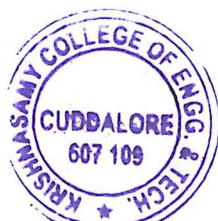
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**DEPARTMENT OF MECHANICAL ENGINEERING**

| Sl. No | Name of the Instrument with Accessories                                                                                                              | Quantity Available |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|        | <b>DYNAMICS LABORATORY</b>                                                                                                                           |                    |
| 1      | CAM ANALYZER, BSPIL - DYN - 04002A WITH TACHOMETER                                                                                                   | 1                  |
| 2      | MOTORISED GYROSCOPE, BSIL - DYN - 04003                                                                                                              | 1                  |
| 3      | GOVERNOR APPARATUS, BSPIL - DYN - 04003                                                                                                              | 1                  |
| 4      | WHIRLING OF SHAFT APPARATUS, BSPIL - DYN - 04001 (H).<br>Accessories: Three different dia. Shaft: 10 mm, 6 mm and 4 mm respectively, each 1m length. | 1                  |
| 5      | MOMENT OF INERTIA OF COMPOUND PENDULUM, WITH CIRCULAR BENDULUM, KNIFE EDGE, SOLID FRAME etc., with stop watch.                                       | 1                  |
| 6      | MOMENT OF INERTIA OF FLYWHEEL                                                                                                                        | 1                  |
| 7      | BALANCING OF RECIPROCATING MASSES                                                                                                                    | 1                  |
| 8      | BALANCING OF ROTATING MASSES (STATIC & DYNAMICS)                                                                                                     | 1                  |
| 9      | VIBRATING TABLE S.D.F. SUSPENSION SYSTEM. RPM INDICATOR NEWLY INCLUDED.                                                                              | 1                  |
| 10     | SDF SUSPENSION SYSTEM AND MDF SUSPENSION SYSTEM.                                                                                                     | 1                  |
| 11     | TRANSVERSE VIBRATION FFB SETUP WITH STOP WATCH                                                                                                       | 1                  |
| 12     | SDF SETUP SPRING MASS SYSTEM LxWxH (BEDSIZE: 2x2x3). WITH STOP WATCH.                                                                                | 1                  |
| 13     | TORSION VIBRATION SETUP (SINGLE ROTOR AND DOUBLE ROTOR SYSTEM) WITH STOP WATCH.                                                                      | 1                  |
| 14     | TURN TABLE APPARATUS TO DETERMINE MOMENT OF INERTIA WITH STOP WATCH.                                                                                 | 1                  |

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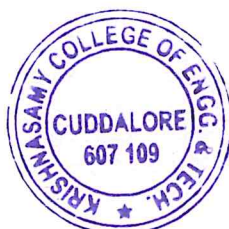


**DEPARTMENT OF INFORMATION TECHNOLOGY**

**List of Lab Equipments**

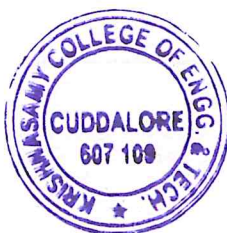
| Sl. No                            | Name of the Instrument with Accessories | Quantity Available |
|-----------------------------------|-----------------------------------------|--------------------|
| <b>CLOUD COMPUTING LAB</b>        |                                         |                    |
| 1                                 | LENOVO THINK CENTRE                     | 34                 |
| 2                                 | 10 KVA UPS                              | 1                  |
| 3                                 | BATTERY                                 | 20                 |
| 4                                 | NETWORK RACK                            | 1                  |
| 5                                 | NETWORK SWITCH                          | 4                  |
| 6                                 | CAMERA                                  | 1                  |
| <b>DATA SCIENCE LAB</b>           |                                         |                    |
| 1                                 | ACER                                    | 35                 |
| 2                                 | 10 KVA UPS                              | 1                  |
| 3                                 | BATTERY                                 | 20                 |
| 4                                 | CAMERA                                  | 1                  |
| <b>FULL STACK DEVELOPMENT LAB</b> |                                         |                    |
| 1                                 | FOXIN MACHINE                           | 33                 |
| 2                                 | 10 KVA UPS                              | 1                  |
| 3                                 | BATTERY                                 | 20                 |
| 4                                 | NETWORK RACK                            | 1                  |
| 5                                 | NETWORK SWITCH                          | 4                  |
| 6                                 | CAMERA                                  | 1                  |

*P.M. [Signature]*  
14/8/26  
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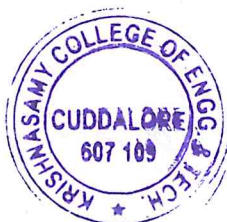


**DEPARTMENT OF COMPUTER APPLICATIONS (MCA)**

**List of Lab Equipments**

| Sl. No                               | Name of the Instrument with Accessories | Quantity Available |
|--------------------------------------|-----------------------------------------|--------------------|
| <b>ADVANCED PROGRAMMING LAB</b>      |                                         |                    |
| 1                                    | ACER VERITON                            | 35                 |
| 2                                    | 10 KVA UPS                              | 1                  |
| 3                                    | BATTERY                                 | 20                 |
| 4                                    | NETWORK RACK                            | 1                  |
| 5                                    | NETWORK SWITCH                          | 4                  |
| 6                                    | CAMERA                                  | 1                  |
| <b>PROGRAMMING &amp; TESTING LAB</b> |                                         |                    |
| 1                                    | ZEBRONICS SYSTEMS                       | 25                 |
| 2                                    | 10 KVA UPS                              | 1                  |
| 3                                    | BATTERY                                 | 20                 |
| 4                                    | NETWORK RACK                            | 1                  |
| 5                                    | NETWORK SWITCH                          | 2                  |
| 6                                    | CAMERA                                  | 1                  |

  
Head of the Department



  
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**DEPARTMENT OF SCIENCE AND HUMANITIES**

**COMMUNICATION SKILLS LABORATORY**

| Sl. No | Name of the Instrument with Accessories                                                                                | Quantity Available |
|--------|------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1      | Veriton M200-G41/Intel Pentium Dual-Core/2GB Ram/500GB hard Disk/PS2KB104 keys/PS2optical mouse/ warranty 3 years-Acer | 36                 |
| 2      | Acer K202Q BI 19.5" Monitor (UM.IE0SI.001)                                                                             | 35                 |
| 3      | LCD Projector                                                                                                          | 1                  |
| 4      | Globarena Technologies English Lab and Career Lab                                                                      | 1                  |
| 5      | Head Phone                                                                                                             | 15                 |
| 6      | Head Phone                                                                                                             | 14                 |
| 7      | Head Phone                                                                                                             | 1                  |
| 8      | Battery                                                                                                                | 20                 |
| 9      | UPS                                                                                                                    | 1                  |
| 10     | Network Switch Board                                                                                                   | 1                  |

**PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY**

|    |                                                                                                                        |    |
|----|------------------------------------------------------------------------------------------------------------------------|----|
| 1  | Veriton M200-G41/Intel Pentium Dual-Core/2GB Ram/500GB hard Disk/PS2KB104 keys/PS2optical mouse/ warranty 3 years-Acer | 36 |
| 2  | Acer K202Q BI 19.5" Monitor (UM.IE0SI.001)                                                                             | 35 |
| 3  | LCD Projector                                                                                                          | 1  |
| 4  | Globarena Technologies English Lab and Career Lab                                                                      | 1  |
| 5  | Head Phone                                                                                                             | 15 |
| 6  | Head Phone                                                                                                             | 14 |
| 7  | Head Phone                                                                                                             | 1  |
| 8  | Battery                                                                                                                | 20 |
| 9  | UPS                                                                                                                    | 1  |
| 10 | Network Switch Board                                                                                                   | 1  |

**PHYSICS LABORATORY**

|   |                    |    |
|---|--------------------|----|
| 1 | Spectrometer       | 8  |
| 2 | Gratings           | 13 |
| 3 | Prisms             | 9  |
| 4 | Sodium Vapour Lamb | 4  |



|    |                                  |    |
|----|----------------------------------|----|
| 5  | Sodium Vapour Lamb Stand         | 4  |
| 6  | Sodium Vapour Lamb Stand Set     | 4  |
| 7  | Transformer (SVL)                | 4  |
| 8  | Travelling Microscope            | 10 |
| 9  | CRO                              | 2  |
| 10 | Compound Bar pendulum            | 5  |
| 11 | Torsional Pendulum Disc          | 7  |
| 12 | Torsional Pendulum Chuck         | 10 |
| 13 | Torsional Pendulum weight 4 Sets | 8  |
| 14 | Air Wedge Glass Plate            | 8  |
| 15 | Diode Characteristic Apparatus   | 1  |
| 16 | Laser Kit                        | 1  |
| 17 | Optic fibre Kit                  | 4  |
| 18 | Forbidden Energy Gap Apparatus   | 1  |
| 19 | Ultrasonic Interferometer        | 5  |
| 20 | Ultrasonic Diffraction Apparatus | 1  |
| 21 | Hall Effect Apparatus            | 1  |
| 22 | Weighing Counter Scale           | 1  |
| 23 | IC Regulated Power supply        | 5  |
| 24 | Stop Clock Analog                | 5  |
| 25 | Stop Clock Digital               | 5  |
| 26 | Screw Gauge                      | 25 |
| 27 | Meter Scale                      | 15 |
| 28 | Laser Diode                      | 8  |
| 29 | Magnetic susceptibility          | 1  |
| 30 | Band gap of Semiconductor        | 6  |
| 31 | Germanium Diode                  | 20 |
| 32 | Silicon Diode                    | 20 |
| 33 | Bread Board                      | 4  |
| 34 | Hysteresis Magneto Meter         | 2  |
| 35 | B-H Curve Apparatus              | 5  |
| 36 | Spirit Level                     | 10 |
| 37 | Volt Meter                       | 10 |
| 38 | Milli Ammeter                    | 10 |

|    |                                                                                                  |    |
|----|--------------------------------------------------------------------------------------------------|----|
| 39 | Micro Ammeter                                                                                    | 10 |
| 40 | Rheostat                                                                                         | 10 |
| 41 | Energy Band gap Four Probe App.                                                                  | 1  |
| 42 | Fibre Optics Kit                                                                                 | 2  |
| 43 | Knife Edges                                                                                      | 19 |
| 44 | Vernier Caliper                                                                                  | 20 |
| 45 | Weight Hanger With weights                                                                       | 13 |
| 46 | Mercury Vapour Lamp                                                                              | 3  |
| 47 | Mercury Vapour Lamp Set                                                                          | 2  |
| 48 | Wooden Stand                                                                                     | 3  |
| 49 | Choke for 80 Watts                                                                               | 3  |
| 50 | Burette                                                                                          | 15 |
| 51 | Beaker                                                                                           | 10 |
| 52 | Watch Glass                                                                                      | 10 |
| 53 | Plug Key                                                                                         | 10 |
| 54 | Condensor                                                                                        | 3  |
| 55 | Potential Meter                                                                                  | 6  |
| 56 | Thermocouple Copper                                                                              | 8  |
| 57 | Galvano Meter                                                                                    | 5  |
| 58 | Lee's Disc Apparatus                                                                             | 7  |
| 59 | Denier Cell                                                                                      | 6  |
| 60 | Resistance Box                                                                                   | 10 |
| 61 | Electric Heater                                                                                  | 3  |
| 62 | Plano Convex lens                                                                                | 5  |
| 63 | Hammer                                                                                           | 1  |
| 64 | Screw Driver Kit                                                                                 | 1  |
| 65 | Tester                                                                                           | 1  |
| 66 | Screw Gauge                                                                                      | 10 |
| 67 | Vernier Caliper                                                                                  | 10 |
| 68 | Stop- Clock                                                                                      | 10 |
| 69 | Reading Lens3"                                                                                   | 10 |
| 70 | Meter Scale                                                                                      | 10 |
| 71 | Travelling Microscope                                                                            | 6  |
| 72 | Determination of Rigidity Modulus of Wire and Moment of Inertia of regular and irregular objects | 6  |

|    |                                                                                                 |   |
|----|-------------------------------------------------------------------------------------------------|---|
| 73 | Optical Fibre determination of Numerical Aperture and Acceptance Angle pico make                | 3 |
| 74 | Compact Disc- determination of width of the groove using laser pico make                        | 6 |
| 75 | Laser- dermination of wave length of the laser using grating Pico make                          | 3 |
| 76 | Simple Harmonic Oscillation of Cantilever                                                       | 6 |
| 77 | Ultrasonic Interferometer determination of the velocity of sound and compressibility of liquids | 3 |
| 78 | Meld's String Experiment                                                                        | 6 |

#### CHEMISTRY LABORATORY

|    |                                    |   |
|----|------------------------------------|---|
| 1  | Spectrophotometer                  | 1 |
| 2  | Spectrophotometer                  | 2 |
| 3  | Digital Flame photometer           | 1 |
| 4  | Digital Flame photometer           | 2 |
| 5  | Electronic Balance                 | 1 |
| 6  | Single Pan balance                 | 1 |
| 7  | Analytical balance                 | 1 |
| 8  | pH meter                           | 4 |
| 9  | pH meter                           | 1 |
| 10 | pH meter                           | 2 |
| 11 | Hot plate with magnetic stirrer    | 1 |
| 12 | Hot plate without magnetic stirrer | 1 |
| 13 | Cloud and Pour point apparatus     | 1 |
| 14 | Chemical oxygen demand apparatus   | 1 |
| 15 | Magnetic stirrer                   | 2 |
| 16 | Digital conductivity meter         | 2 |
| 17 | Digital conductivity meter         | 2 |
| 18 | Digital conductivity meter         | 2 |
| 19 | Digital conductivity meter         | 2 |
| 20 | Digital Potentiometer              | 1 |
| 21 | Digital Potentiometer              | 1 |
| 22 | Digital Potentiometer              | 2 |
| 23 | Digital Potentiometer              | 1 |
| 24 | Digital Potentiometer              | 2 |
| 25 | Bomb calorimeter                   | 1 |



|    |                                   |    |
|----|-----------------------------------|----|
| 26 | Stop Clock                        | 10 |
| 27 | Stop watch                        | 2  |
| 28 | Stop watch                        | 4  |
| 29 | Bunsen burner                     | 40 |
| 30 | Burette Stand                     | 30 |
| 31 | Burette Stand                     | 10 |
| 32 | Enamel tray                       | 29 |
| 33 | Conductivity cell                 | 2  |
| 34 | Calomel electrode                 | 1  |
| 35 | Copper electrode                  | 1  |
| 36 | Copper electrode                  | 3  |
| 37 | Zinc electrode                    | 4  |
| 38 | pH electrode                      | 2  |
| 39 | pH electrode                      | 2  |
| 40 | Platinum electrode                | 1  |
| 41 | Platinum electrode                | 4  |
| 42 | Alcohol filled thermometer(110°C) | 20 |
| 43 | Mercury filled thermometer(110°C) | 15 |
| 44 | Mercury filled thermometer(250°C) | 2  |
| 45 | Beaker 100 ml                     | 35 |
| 46 | Beaker 250 ml                     | 35 |
| 47 | Beaker 500 ml                     | 5  |
| 48 | Beaker 1000 ml                    | 8  |
| 49 | Boiling Tube 5*5/8                | 87 |
| 50 | Boiling Tube 6*1                  | 60 |
| 51 | Burette 50ml                      | 62 |
| 52 | Burette 25ml                      | 22 |
| 53 | Chinna dish 3 dia                 | 76 |
| 54 | Chinna dish 4 dia                 | 24 |
| 55 | Chinna dish 6 dia                 | 21 |
| 56 | Conical flask 250ml               | 92 |
| 57 | Crucible with lid silica          | 12 |
| 58 | Dropper borosil 15cm              | 35 |
| 59 | Glass funnel 50mm dia             | 53 |

|    |                                   |    |
|----|-----------------------------------|----|
| 60 | Plastic funnel 50mm dia           | 50 |
| 61 | Glass funnel 75mm dia             | 35 |
| 62 | Iodine flask                      | 22 |
| 63 | Measuring cylinder 100ml(Glass)   | 2  |
| 64 | Measuring cylinder 100ml(Plastic) | 2  |
| 65 | Measuring cylinder 50ml           | 4  |
| 66 | Measuring cylinder 10ml           | 4  |
| 67 | Measuring cylinder 5ml            | 4  |
| 68 | Measuring cylinder 250ml(Glass)   | 7  |
| 69 | Measuring cylinder 250ml(Plastic) | 2  |
| 70 | Measuring cylinder 500ml(Glass)   | 10 |
| 71 | Measuring cylinder 500ml(Plastic) | 2  |
| 72 | Measuring cylinder 1000ml         | 5  |
| 73 | Measuring cylinder 2000ml         | 3  |
| 74 | Pipette 20ml                      | 40 |
| 75 | Graduated pipette 10ml            | 11 |
| 76 | Graduated pipette 5ml             | 20 |
| 77 | Porcelain tiles 6*6               | 50 |
| 78 | Reagent Bottle Amber 250ml NM     | 48 |
| 79 | Reagent Bottle 500ml NM           | 20 |
| 80 | Reagent Bottle 250ml NM           | 95 |
| 81 | Reagent Bottle 125ml NM           | 90 |
| 82 | Reagent Bottle 250ml WM           | 37 |
| 83 | Std. Falsk 100 ml                 | 66 |
| 84 | Std. Falsk 250 ml                 | 44 |
| 85 | Std. Falsk 500 ml                 | 1  |
| 86 | Std. Falsk 1000 ml                | 2  |
| 87 | Std. Falsk2000 ml                 | 2  |
| 88 | Sptullar                          | 46 |
| 89 | Glass rod                         | 40 |
| 90 | Storage Bottle 5 litre            | 2  |
| 91 | Viscometer Ostwald                | 16 |
| 92 | Wash Bottle                       | 54 |
| 93 | Watch glass                       | 24 |

|     |                                         |              |
|-----|-----------------------------------------|--------------|
| 94  | Weighing Bottle                         | 24           |
| 95  | Wire gauze                              | 36           |
| 96  | Salt bridge                             | 14           |
| 97  | Tripod stand                            | 30           |
|     | <b>Chemistry- Name of the Chemicals</b> | <b>ml/gm</b> |
| 98  | Acetic acid                             | 1100         |
| 99  | Acetone -E                              | 1400         |
| 100 | Ammonia solution                        | 20000        |
| 101 | Ammonium chloride                       | 3500         |
| 102 | Ammonium ferrous sulphate               | 1000         |
| 103 | Ammonium thiocyanate                    | 500          |
| 104 | Ammonium oxalate                        | 500          |
| 105 | Barium chloride                         | 2330         |
| 106 | Boric acid                              | 900          |
| 107 | Buffer tablet $P^H=7$                   | 19           |
| 108 | Buffer tablet $P^H=4$                   | 19           |
| 109 | Buffer tablet $P^H=9.2$                 | 10           |
| 110 | Borax                                   | 1000         |
| 111 | Calcium bicarbonate                     | 330          |
| 112 | Calcium carbonate                       | 1000         |
| 113 | Calcium chloride                        | 100          |
| 114 | Copper sulphate                         | 1940         |
| 115 | Copper turnings                         | 450          |
| 116 | Eriochrome black T                      | 20           |
| 117 | EDTA di sodium salt                     | 2250         |
| 118 | Fast sulphone black F                   | 190          |
| 119 | Ferrous sulphate                        | 950          |
| 120 | Filter paper (ordinary)                 | 100          |
| 121 | Filter paper(Whatman)                   | 100          |
| 122 | Hydrochric acid                         | 4500         |
| 123 | Megnisium bi carbonate                  | 280          |
| 124 | Megnisium chloride                      | 380          |
| 125 | Megnisium sulphate                      | 398          |
| 126 | Manganous sulphate                      | 1620         |



|     |                        |      |
|-----|------------------------|------|
| 127 | Methyl orange          | 750  |
| 128 | Muroxide indicator     | 25   |
| 129 | Nitric acid            | 3500 |
| 130 | Oxalic acid            | 430  |
| 131 | Phenolphthalene        | 625  |
| 132 | Polyvinyl acetate      | 450  |
| 133 | Poly vinyl alcohol     | 860  |
| 134 | Potassium chloride     | 2100 |
| 135 | Potassium chromate     | 80   |
| 136 | Potassium di chromate  | 1000 |
| 137 | Potassium iodide       | 2550 |
| 138 | Potassium thio cyanide | 325  |
| 139 | Silver nitrate         | 140  |
| 140 | Sodium bi carbonate    | 560  |
| 141 | Sodium carbonate       | 930  |
| 142 | Sodium chloride        | 900  |
| 143 | Sodium hydroxide       | 850  |
| 144 | Sodium sulphate        | 2050 |
| 145 | Sodium thio sulphate   | 2350 |
| 146 | Starch                 | 830  |
| 147 | Suphuric acid          | 4600 |
| 148 | Zinc sulphate          | 1470 |

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