**LIST OF ACE-CEFOR EQUIPMENT IN THE UNIVERSITY CENTRAL INSTRUMENT LABORATORY**

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| **S/N** | **EQUIPMENT** | **MODEL** |
|  | **ANALYTICAL AND QUALITY LABORATORY** |  |
| 1 | Rotary Evaporator Solvent Vap 0.53 gallon (2L) | 5E05-110 |
| 2 | UV-Visible Spectrometer Model UV 1800 Spectrophotometer |  |
| 3 | Automatic Amino acid Analyzer with data system | S433-D (SYKAM) |
| 4 | DO METER SEVENGO SG6-FK10 HAND HELD POWER SUPPLY |  |
| 5 | Mettler-Toledo Bench pH/mV/Temperature Meter | 2 |
| 6 | Handheld pH Meter | 2 |
| 7 | Karl Fisher Coulometer Titrator | 1 |
| 8 | Chloride Meter | 1 |
| 9 | Aishing Furnace | 1 |
| 10 | Drying Cabinet with filtered Air | 1 |
| 11 | Deionizer | 1 |
| 12 | Ice cube makes (4 ltrs) | 2 |
|  |  |  |
|  | **CONSUMABLES** |  |
| 13 | pH 4.01 buffer sachets | 100 |
| 14 | pH 7.00 buffer sachets | 100 |
| 15 | pH 10.00 buffer sachets | 100 |
| 16 | Karl Fisher Reagents | 5 |
| 17 | Spare Iron Catridge | 1 |
| 18 | Spare Cartion Catridge | 1 |
|  |  |  |
|  | **GLASS WARES** |  |
| 19 | Volumetric Flasks (Pyrex with polyethene stopper:  i. 1ml  ii. 2ml  iii. 5ml  iv. 10ml  v. 20ml  vi. 25ml  vii. 50ml  viii. 100ml  ix. 200ml  x. 250ml  xi. 500ml  xii. 2,000ml  xiii. 5,000ml | 2pkts  2pkts  2pkts  2pkts  2pkts  2pkts  2pkts  2pkts  2pkts  6pkts  6pkts  2pkts  2pkts |
| 20 | Volumetric Flasks (Pyrex Amber Glass with Polyethene stopper):  i. 50ml  ii. 100ml  iii. 500ml  iv. 250mk | 1pkt  1pkt  1pkt  1pkt |
| 21 | Volumetric Flasks, Nalgene  i. 50ml  ii. 100ml  iii. 250ml  iv. 500ml  v. 1000ml | 1pkt  1pkt  1pkt  1pkt  1pkt |
| 22 | Measuring Cylinder, Tall Form  i. 5ml  ii. 10ml  iii. 25ml  iv. 50ml  v. 100ml  vi. 250ml  vii. 500ml  viii. 1000ml  ix. 2000ml | 1pkt  1pkt  2pkt  2pkt  2pkt  2pkt  2pkt  1pkt  1pkt |
| 23 | Graduated Pipettes;  i. 1ml  ii. 2ml  iii. 5ml  iv. 10ml  v. 25ml | 1pkt  1pkt  1pkt  1pkt  1pkt |
| 24 | Bulb Pipettes:  i. 0.5ml  ii. 1ml  iii. 2ml  iv. 3ml  v. 5ml  vi. 10ml  vii. 20ml  viii. 25ml  ix. 50ml  x. 100ml | 5pkts  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  5pkts |
| 25 | Transfer Pipettes:  i. 1ml  ii. 2ml  iii. 10ml | 1pkt  1pkt  1pkt |
| 26 | Pipette Controller, Pipetus | 1pkt |
| 27 | Pipette Controller | 2pkts |
| 28 | Bibbette for one mark and Graduated pipette | 2pkts |
| 29 | Pipette Holder | 2pkts |
| 30 | Burrette (50 ml) | 2 pkts |
| 31 | Burrette (50 ml) | 2pkts |
| 32 | Erlenmeyer Flask:  i. 10ml  ii. 50ml  iii. 500ml  iv. 1000ml  v. 250ml | 1pkt  1pkt  1pkt  1pkt  5pkts |
| 33 | Duran Bottles | 25pkts |
| 34 | Reagen Bottle | 10pkts |
| 35 | Safe Break | 10pkts |
| 36 | Aspirator Bottle:  i. 5ltrs  ii. 10ltrs  iii. 50ltrs  iv. 25ltrs | 1pkt  1pkt  1pkt  1pkt |
| 37 | Bottles Nalgene:  i. 500ml  ii. 1000ml | 5pkts  5pkts |
| 38 | Bottles, Duran-Pyrex:  i. 500ml  ii. 1,00ml | 1pkt  1pkt |
| 39 | Dropping/Indicator Bottles | 1pkt |
| 40 | Acetone (500ml) | 1pkt |
| 41 | Ethanol (500ml) | 1pkt |
| 42 | Isopropyl Alcohol (500ml) | 1pkt |
| 43 | Toluene (500ml) | 1pkt |
| 44 | Xylene (500ml) | 1pkt |
| 45 | Chloroform (500ml) | 1pkt |
| 46 | Hexane (500ml) | 1pkt |
| 47 | Distilled Water (500ml) | 1pkt |
| 48 | Deionized Water (500ml) | 1pkt |
| 49 | Acetic Acid (500ml) | 1pkt |
| 50 | Bottle carrier | 5pkts |
| 51 | Bottle carrier (for 2,500ml bottle) | 2pkts |
| 52 | Breakers (Low form):  i. 25ml  ii. 100ml  iii. 50ml  iv. 250ml | 1pkt  1pkt  2pkts  2pkts |
| 53 | Breakers (Tall Form):  i. 400ml  ii. 600ml | 1pkt  1pkt |
| 54 | Watch Glasses:  i. 80 mm ext  ii. 100 mm ext  iii. 200 mm ext | 5pkts  1pkt  1pkt |
| 55 | Evaporating dishes |  |
| 56 | Evaporating dishes (Tall form):  i. 100ml  ii. 150ml | 1pkt  1pkt |
| 57 | Funnels  Funnel O – (mm) 35  Funnel O – (mm) 45  Funnel O – (mm) 55  Funnel O – (mm) 70  Funnel O – (mm) 80  Funnel O – (mm) 100  Funnel O – (mm) 150  Funnel O – (mm) 420 | 2pkts  2pkts  2pkts  3pkts  3pkts  3pkts  3pkts  1pkt |
| 58 | Vacuum Filtration Unit | 1pkt |
| 59 | Vacuum Filtration Unit, Nalgene | 12pkts |
| 60 | Spare Glass Fibre Filters | 10pkts |
| 61 | Glass Micro Fibre Filters | 10pkts |
| 62 | Membrane Filters | 1 pkt |
| 63 | Forceps for membrane filters |  |
| 61 | Separating Funnels Squibb:  i. 250ml  ii. 500ml  iii. 1000ml | 1pkt  1pkt  1pkt |
| 62 | Crucibles, Vitreosil:  i. Tall orm, 30ml capacity  ii. Lid for phi 43 | 1pkt  1pkt |
| 63 | Crucibles, Stainless Steel with lid | 4pkts |
| 64 | Multi-purpose Spoon, poly spoon | 5pkts |
| 65 | Agar Motar with pestle | 1pkt |
| 66 | Disposable Antistatic Weighing Boats | 2pkts |
| 67 | Weighing Bottles | 5pkts |
| 68 | Cylindrical, Conical Bottom | 25pcs |
| 69 | Cylindrical, Conical Bottom | 25pcs |
| 70 | Stirrer Model with 3 recesses for pound bottom flask of:  i. 100ml  ii. 250ml  iii. 500ml  iv. 1000ml | 1pkt  1pkt  1pkt  1pkt |
| 71 | Stirrer model with 6 recesses for round bottom flask | 2pkts |
| 72 | Round Bottom Flasks:  a. 250ml  i. 19/26  ii. 24/29  iii. 29/32  iv. 34/35  b. 500ml Capacity, Cone Size  i. 19/26  ii. 24/29  iii. 29/32  iv. 34/35  c. 1000ml Capacity, Cone Size  i. 19/26  ii. 24/29  iii. 29/32  iv. 34/35 | 1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt |
| 73 | Liebig Condensers with Standard Grouping Joints, size:  i. 19/26  ii. 29/32 | 10pcs  10pcs |
| 74 | Boiling Stones (500g) | 2 |
| 75 | Braided Tubing | 15m |
| 76 | Laboratory Tubing | 30m |
| 78 | Stainless Steel Test Sieves, Size:  i. 0.038mm  ii. 0.045mm  iii. 0.075mm  iv. 0.090mm  v. 0.125mm  vi. 0.180mm  vii. 0.250mm  viii. 0.300mm  ix. 0.355mm  x. 0.450mm  xi. 0.500mm  xii. 0.710mm  xiii. 0.850mm  xiv. 1.00  xv. 2.00 | 1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt |
| 79 | Analytical sieve Shaker:  i. Evaluation Software  ii. Universal Clamping Device  iii. Sieve Set | 1pkt  1pkt  1 set |
| 80 | NIST Traceable Sieve Standards, size:  i. 20um  ii. 25um  iii. 32um  iv. 38um  v. 45um  vi. 53um  vii. 63um  viii. 75um  ix. 90um  x. 106um  xi. 125um  xii. 150um  xiii. 180um  xiv. 212um  xvi. 300um | 1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt  1pkt |
| 81 | Laboratory Refrigerator | 1 |