

G. Equipment for Computer Laboratories

No.	Items	Qty	Spec/Notes
1	New Open Computer Laboratory		
1.1	Windows Personal Computer with 15 inch monitor	60 sets	1.5GHz, 20-40GB HD, 128MB or more, FD, CD-ROM, Network card(100Mbps), USB-Optical-Mouse
1.1.1	Windows Personal Computer for server	1 sets	use for Domain server and File server : HDDx2(for back up), Hi-spec PC.
1.2	Software:		
1.2.1	Windows 2000 professional	60	
1.2.2	Microsoft Office	60	
1.2.3	Anti Virus Software	60	
1.2.4	SPSS(Statistics)	10	
1.2.5	Windows 2000 or 2003 Server	1	
1.3	Equipment/Materials for Network system:		
1.3.1	Network Cable	700m	CAT5
1.3.2	RJ 45 plug	130 pcs	
1.3.3	Network point (wall mount)	60 pcs	Box-face plate-RJ45 keystone jack
1.3.4	Switch (HUB) - 24 port	2 units	
1.3.5	Switch (HUB) - 16 port	2 units	
1.3.6	UPS	2 units	for Switch
1.4	Laser Printer	2 units	with Network card
1.5	Scanner	1 unit	
1.6	UPS	61 units	for PCs
1.7	AVS	1 unit	to cover all 61PCs
1.8	Air Conditioner, Separate type	1-2 units	
1.9	Security system		for all equipment:
2	Teaching Computer Laboratory, Dept of Maths & Computing (present number of PC : 35 units)		
2.1	LCD Projector	1 unit	SMAC 001 Information Technology skills
2.2	Projector Screen, Movable	1 unit	75 inch
2.3	AVS	1 unit	to cover all 35PCs
2.4	Security system		for all equipment
3	Male Open Computer Laboratory (present number of PC : 22 units)		
3.1	AVS	1 unit	to cover all 22PCs
3.2	Air Conditioner, Separate type	1 unit	
3.3	Security system		for all equipment
4	Female Open Computer Laboratory (present number of PC : 18 units)		
4.1	AVS	1 unit	to cover all 18PCs
4.2	Air Conditioner, Separate type	1 unit	
4.3	Security system		for all equipment
5	IT ROOM		
5.1	UTP Cable(CAT5) Tester	1 unit	with TDR function
5.2	Fiber Optic Cable Tester	1 unit	
5.3	UPS for Data servers	3 units	3 KVA or more
5.4	Air compressor	2 units	for PC maintenance
5.5	Switch (HUB) - 16 port	4 units	for New Library
5.6	Windows Personal Computer for server	1 sets	Hi-spec

H. Equipment for Expressive Arts Education (Music section, Dept. of Exp. Arts & Rel. Education)

Nc.	Items	Q'ty	Spec. / Notes
1	Music Instruments		
1.1	Trombone	1	Instrument studies, small group teaching & practices Instruments are all intermediate level
1.2	Trumpet	3	
1.3	Cornet	2	
1.4	Alto sax	4	
1.5	Tenor sax	4	
1.6	Clarinnet	3	
1.7	Flute	4	
1.8	Violin	2	
1.9	Electric Guitar	1	
1.10	Bass Guitar	1	
1.11	Lead Guitar Amp	1	
1.12	Bass Guitar Amp	1	
1.13	Drum Kit	1 set	
1.14	Music Stand	20	
1.15	Digital Piano with stand for classroom (student use)	12	Q'ty is based on the student number & room space.
1.16	Piano Seat-Padded regular	13	
1.17	Digital Piano with stand- Portable type for classroom (teacher use) & live application	1	
1.18	Electronic Synthesizer for live application (a)	1	piano and organ sounds
1.19	Electronic Synthesizer for live application (b)	1	orhestral and environment sounds
1.20	Power Amp	1	
1.21	16 Channel Mixer	1	
2	Music Compostion		
2.1	Digital Sound Recorder (DAT)	1	
2.2	Monitor Speakers - studio application	1 set	
2.3	Computer for Music composition	4	aMAC/G4
2.4	Electric Keyboard for Music composition	4	
2.5	Music Scoring Software	4	
2.6	Music Recording Software	4	For equalization of recording material
2.7	Laser Printer	1	A4
2.8	CD Burner	1	
2.9	Compact Stereo System (CD, DVD, Tape)	1 set	
2.10	UPS	4	
2.11	AVS	1	
3	Peer Teaching		
3.1	TV Monitor 25/29 inch	1	
3.2	VHS Video player/recorder	1	
3.3	Steel Cabinet for TV, Video & Stereo system	1	
3.4	DV Camera with stand	(1)	Use DVcam at the AV Section

I. Equipment for Agriculture Education (Agriculture Section, Dept. of Science, Agriculture & Health)

No.	Items	Q'ty	Spec. / Notes
1 GENERAL LABORATORY EQUIPMENT			
1.1	Analytical lab balances	2	Reagent preparation for various soil and plant nutrient tests for student practical
1.2	Distilled water/ Deionised Water Machine	1	
1.3	Lab Drying Oven	1	General drying purposes for laboratory activities
1.4	Ammonia distillation apparatus	1 set	
1.5	Lab incubator	1 unit	Incubate samples for general laboratory work
1.6	Digital lab pH meter	2	For taking pH readings of various kind of samples – such as pH of different liquids
1.7	Desiccators	5	For sample cooling
1.8	Compact centrifuge at 2000/3000 rpm	1	Soil and plant sample extraction for analysing chemical nutrients
1.81	Screw cap polypropylene centrifuge tubes – 50 ml	2 dozen each	Sample collection for centrifuge
1.82	Polypropylene centrifuge tubes without caps – 50 ml	2 dozen each	Sample collection for centrifuge
1.9	Spectronic Digital Spectrometer	2	Measuring soil and plant chemical elements
1.10	Vacuum Pressure Pump	1	General laboratory work in analytical preparation
1.11	Mortar & Pestle	5	Soil and plant sample preparation
1.12	Aluminum Heating Blocks – 7 rows of 6 blocks	1 set	For sample heating
1.13	Atomic Absorption Spectrometry	1	Measuring soil and plant nutrients
1.14	Autoanalyzer	1	Measuring soil and plant nutrients
1.15	Conductivity Meter	4	Measuring ion conductivity in sample
1.16	Flame Spectrometry	1	For measuring potassium & related elements
1.17	Heating Mantles	1	Sample heating for analysis
1.18	Kjehidahl apparatus	1	For nitrogen analysis using Kjehidahl method
1.19	Liquid Dispensers	5	Measuring various laboratory solution (acid/alkaline) for sample preparation and analysis
1.20	Calorimeters	5	For measurement of nutrient elements
1.21	Peristaltic Pump	1	For general laboratory work such as nutrient solution movement
1.22	Lab Water baths	1	For general laboratory preparation of samples
1.23	Electronic Microscope	20	Analysing specimens
1.24	Dissecting/Stereo Microscope	20	Dissecting plants, flowers, insects, etc
1.25	Hand lenses	20	For quick viewing of plant parts, micro-organisms .etc
1.26	Electric Cork Borer	1	Corking holes
1.27	Laboratory Blenders with Timer	1	Sample preparation
1.28	Laboratory sample storage fridge	1	Sample storage
1.29	Laboratory deep fridge for sample storage	1	Sample storage
2 Equipment for Soil Science and Plant Measurement			
2.1	Soil Bulk Density Corers – stainless	20	Measuring soil bulk density
2.2	Soil Shaker for soil samples – end over end shaker 50rpm	2	Soil sample preparation for nutrient analysis
2.3	Reciprocating shakers	2	Soil and plant sample preparation for nutrient analysis
2.4	Refractometers for measuring plant products juices concentration	5	For measuring plant products juice concentration
2.5	Tullgren Funnels – 6 and 12 Banks – soil animals extraction	1 unit	For the extraction of soil animals from plant litter and soil
2.6	Saitz & Hollick Soil Washing Apparatus – for extracting soil arthropods	1 unit	For extracting active and inactive arthropods from the soil and plant litter
2.7	Lab Bench Shakers	2	For sample preparation for nutrient test
2.8	Micro pH	2	Measuring pH in micro environment
2.9	ion Analyzer	1	Analysing ions present in plant and soil samples
2.10	Standard Soil Test Sieves for soil particle analysers – different sizes	1 set	For soil particle analysis
2.11	Standard Test Sieve Shaker	1 set	For shaking soil particle into different sizes using sieve sizes
2.12	Water quality Analyser	2	Measuring water samples for nutrient pollutants in streams or ponds
2.13	Hygrothermographs for recording temperature & relative humidity	2	Measuring temperature & relative humidity
2.14	Thermographs for measuring and recording air temperature & soil temp	2	Measuring and recording air and soil temperature

No.	Items	Q'ty	Spec. / Notes
2.15	Soil Density Hydrometers	5	Measuring soils density
2.16	Soil Thermometers	10	Measuring soil temperatures
2.17	Fruit gauge for measuring fruit size	5	Measuring fruit sizes of various fruit crops
2.18	Electronic Dendrometers for measuring fruit & stem growth	5	Measuring fruit and stem growth of most crops
2.19	Chlorophyll Meter for measuring chlorophyll present in leaves	5	Measuring amount of chlorophyll
2.20	Permeameter, Guelph for measuring soil hydraulic conductivity	5	Measuring soil hydraulic conductivity, soil sorptivity, soil matrix flux potential
2.21	Permeameter, Shelby Tube for measuring soil permeability tests	5	Measuring soil permeability on undisturbed soils
2.22	Permeameter, Combination for measuring soil hydraulic conductivity	5	Measuring soil permeability in controlled environment
2.23	Permeameter Compaction for soil compaction	5	Measuring flow of water in the soil
2.24	Infiltrometers for measuring soil infiltration rate	5	Measuring soil infiltration rate
2.25	Soil Tensiometer, Jet Fill for measuring soil moisture potential	5	Soil moisture potential
2.26	Capacitance Probe for measuring Volumetric Soil Water Content	5	Measuring volumetric water content in the field of crops
2.27	Time Domain Reflectometry System for measuring Volumetric Water Content	5	Measuring volumetric water content in soils
2.28	Penetrometer Static Cone for measuring soil consistency & soil compaction	5	Measuring soil consistency & soil compaction
2.29	Pressure Extractors for measuring The Water Holding Capacity (WHC) of soils	5	Measuring water holding capacity of soils
2.30	Potentiometer for measuring soil temperature and water potential	5	Measuring soil temperature and water potential
2.31	Munsell Soil Color Charts	30	Soil colour description in soil profile
2.32	Wind speed anemometers	5	Measuring wind speed
2.33	Soil Core Samplers of different soil depths	5 each	Collecting soil samples at various depth for nutrient analysis
2.34	Soil Sampling augers of different soil depths	5 each	Collecting soil samples for soil nutrient analysis
2.35	Environmental Monitoring Equipment	2 unit	Mainly for environment purposes particularly for nutrient pollution.
3	LABORATORY GLASSWARE		ANNEX 1
4	LABORATORY CONSUMABLES		ANNEX 2
5	EQUIPMENT FOR LECTURE & PRACTICAL PRESENTATION		
5.1	TV Monitor 25 inch	1	
5.2	VHS Video Player	1	
5.3	Steel Cabinet for the above	1	
5.4	Slide Projector	1	For slide presentation during lectures or practicals
5.5	Over Head Projector	3	For lecture & practical presentation
5.6	Projector Screen, Movable	1	75/100 inch
5.7	Digital Camera	1	Taking pictures and writing course materials
5.8	DV Camera with stand for peer teaching	(1)	Use DVcam at the AV Section
6	MODEL FARM EQUIPMENT & FACILITIES		
6.1	Tractor with PTO & Attachments	1	Land preparation for student practical on vegetable or crop production
6.11	Trailer	1	
6.12	Disc plough	1	Land preparation for student practical on vegetable or crop production
6.13	Disc harrow	1	Land preparation for student practical on vegetable or crop production
6.14	Mould board plough	1	Land preparation for student practical on vegetable or crop production
6.15	Rotary disk mower	1	Farm slashing
6.2	Generator 5kva - diesel	1	Farm electrical work
6.3	Portable lawn mower	1	For farm lawn cutting
6.4	Water pump - diesel	1	Pump water to head tank for watering, irrigation & drinking
6.5	Irrigation hose - standard size attached to pump	2	For irrigation of crops
6.6	Irrigation Sprinklers	20	For watering of crops
6.7	Poultry house to house broilers, layers, & breeders	1	
6.8	Pig unit to house breeders, weaners, piglets	1	
6.9	Nursery house (Nethouse)	1	

No.	Items	Q'ty	Spec. / Notes
6.10	Storage refrigerator - standard	1	Sample storage
6.11	Storage freezer - standard	1	Sample storage
6.12	Tools kit for maintenance of farm machinery	1	
6.13	Coffee pulpar	5	Pulping coffee cherry
6.14	Rice milling machine	2	
6.15	Hanging Scales - 50kg capacity	4	Weighing crop yield, animal feed etc
6.16	Weighing scale for animals	5	Live weight measurement for pigs, goat & sheep
6.17	Hammer mill	1	Crushing animal feed
6.18	Animal Feed mill / grinder	1	Grinding animal feed
6.19	Feed pelleter	1	Making feed pellet
6.20	Feeding bins	10	Storage bins for feeds
6.21	Feeding bucket	10	Carrying feed to animals
6.22	Ear tag applicator	2	Tagging tags on ears of animals
6.23	Metabol cages	5	Metabolism measurement of animals used for animal courses
6.24	Emasculator	2	Used for castration
6.25	Tape measure - 5 m, 30m, 100m	2 each	Farm measurement

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ANNEX 1 (Agriculture Section)

No.	Items	Q'ty	Spec. / Notes
3	LABORATORY GLASSWARE		
3.1	Glass Burets – 50 ml standard	20	
3.2	Volumetric flasks – 5ml, 10 ml, 25 ml, 50 ml, 100 ml, 200ml, 250 ml, 500 ml, 1000ml	20 each	
3.3	Measuring Pipet – 1ml, 2ml, 5ml, 10ml, 25ml	20 each	
3.4	Pyrex Erlenmeyer Flasks – 25ml, 50ml, 125ml, 250ml, 500ml, 1000ml	20 each	
3.5	Measuring Cylinders – 10ml, 25ml, 50ml, 100ml, 250ml, 500ml, 1000ml	20 each	
3.6	Pyrex Beakers-10ml,20ml,30ml,50ml,100ml,150ml,250ml,500ml, 1litre, 2litre	20 each	
3.7	Test tubes – 16x 125mm, 18 x 150mm	20 each	
3.8	Pipet brushes	10	
3.9	Test brushes	10	
3.10	Funnels – 50mm, 65mm, 75mm, 100mm in top diameter	5 each	
3.11	Pipet fillers	5	
3.12	Lab micro spoon	10	
3.13	Micro Spatulas	10	
3.14	Glass Stirring Rods	10	
3.15	Draining Rack or Stand	5	
3.16	Rubber stoppers of different sizes to fit general glassware	1 dozen each	

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ANNEX 2 (Agriculture Section)

No.	Items	Q'ty	Spec. / Notes
4	LABORATORY CONSUMABLES		
4.1	Acetic Acid (99%)		
4.2	Aluminum Sulphate		
4.3	Aluminum wire		
4.4	Ammonium Acetate		
4.5	Ammonium Chloride		
4.6	Ammonium Ferric Sulphate		
4.7	Ammonium Fluoride		
4.8	Ammonium Molybdate		
4.9	Ammonium Oxalate Oxalic Acid		
4.10	Ammonium Sulphate (M.A.R/Aristar Quality)		
4.11	Ascorbic acid		
4.12	Barium Chloride		
4.13	Boric Acid		
4.14	Bromocresol green methyl red indicator		
4.15	Caesium Chloride		
4.16	Calcium Carbonate		
4.17	Calcium Chloride (anhydrous dry)		
4.18	Calcium Hydroxide		
4.19	Carbolic Acid		
4.20	Chloroform		
4.21	Copper Sulphate		
4.22	Diphenylcarbazone		
4.23	Disodium hydrogen Orthophosphate		
4.24	Disodium hydrogen phosphate		
4.25	Disodium nitroferrous cyanide		
4.26	Ethanol 95%		
4.27	Ethanol L.R. r commercial grade 90%w/w		
4.28	Ferrous sulfate heptahydrate		
4.29	Ferrous ammonium sulfate		
4.30	Formic Acid 90%		
4.31	Hydrazine Sulphate		
4.32	Hydriodic acid sp. Gr. 1.7		
4.33	Hydriodic acid sp. Gr. 1.94		
4.34	Hydrochloric Acid		
4.35	Hypophosphorus acid 50%w/w		
4.36	Iron chips Leco cat no 501-077		
4.37	Kjeldahl Catalyst Tablets B.D.H		
4.38	Lanthanum chloride		
4.39	Levor IV wetting agent		
4.40	Magnesium Carbonate		
4.41	Magnesium Ribbon		
4.42	McCartney Bottle		
4.43	Mercury Salt		
4.44	Methyl Red Powder		
4.45	N-1-naphthylethylenediamine dihydrochloride (NEDD)		
4.46	NaDTT		
4.47	Nalgene bottle		
4.48	Nitric Acid		
4.49	NN'-dimethyl-p-phenylenediamine sulphate		

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No.	Items	Q'ty	Spec. / Notes
4.50	o-phenanthroline monohydrate		
4.51	Phosphoric Acid		
4.52	Potassium antimony tartrate		
4.53	Potassium chloride		
4.54	Potassium dichromate		
4.55	Potassium Nitrate		
4.56	Potassium sodium titrate		
4.57	Potassium dihydrogen phosphate		
4.58	Potassium dihydrogen phthalate		
4.59	Silicic Acid		
4.60	Silver Thiourea		
4.61	Sodium Acetate		
4.62	Sodium Chloride		
4.63	Sodium Citrate		
4.64	Sodium Dithionite		
4.65	Sodium Fluoride		
4.66	Sodium Hydrogen Tartrate		
4.67	Sodium Hydroxide		
4.68	Sodium hypochlorite		
4.69	Sodium Nitrate		
4.70	Sodium Nitroprusside		
4.71	Sodium Pyrophosphate		
4.72	Sodium Salicylate		
4.73	Strontium Chloride		
4.74	Sucrose		
4.75	Sulphanilimide		
4.76	Sulphuric Acid (Analytical grade)		
4.77	Sulphuric Acid 98% w/w		
4.78	Technicon AutoAnalyser		
4.79	Tetra Sodium Pyrophosphate		
4.80	Tin Metal Leco cat. No. 501-076		
4.81	Triethanolamine		
4.82	Trisodium Citrate		
4.83	Zinc Acetate		
4.84	Whatman No. 541		
4.85	Whatman No.1 filter paper		
4.86	Whatman No.40		
4.87	Whatmann No. 2		
4.88	Whitemann No. 30 Filter paper		



J. Science Section, Dept. of Science, Agriculture & Health

No.	Items	Qty	Spec. / Notes
1	Measuring Instruments / Common Use		
1.1	Balance - Electronic Balance	2	Up to about 300-500g and reading to 0.01g, LCD digital read out
1.2	Balance - Electronic Semimicro/microbalance	2	Up to about 50 g and reading to 1mg
1.3	Balance - Electronic Analytical Balance	2	Up to 5g and reading to 0.1mg
1.4	pH meter - Bench	2	Digital, Automatic temperature compensation. Range 0-14, Accuracy ± 0.01 pH + 1 digit. Power battery (for field work). Two point calibration. Environment 0-50 C
1.5	pH meter - Hand held	2	Digital, Automatic temperature compensation. Range 0-14, Accuracy ± 0.01 pH + 1 digit. Power battery (for field work). Two point calibration. Environment 0-50 C
1.6	Spare electrodes (pH)	4	2 each for the above pH meters.
1.7	pH Calibration Kit	5	
1.8	Conductivity Meter		
1.9	Digital Hygro-Thermometer	2	Range -40 to 150° C, Resolution 0.1° C.
1.10	Thermometers, Mercury	10	White Backed, Range -5 to 105 C, General purpose stirring thermometers
1.11	Thermometers, Mercury	10	Yellow Backed, Range -5 to 105 C, General purpose stirring thermometers
1.12	Automatic Pipette, 1 - 10 μ l (Variable volume)	6	1 - 10 μ l, microlitre, variable volume, selection with digital indication of volume, and simple tip ejector facility
1.13	Automatic Pipette, 10 - 100 μ l (Variable volume)	6	10 - 100 μ l, Pipettes, microlitre, variable volume, selection with digital indication of volume, and simple tip ejector facility
1.14	Automatic Pipette, 100 μ l - 1000 μ l (Variable volume)	6	100 μ l - 1000 μ l, microlitre, variable volume, selection with digital indication of volume, simple tip ejector facility
1.15	Automatic Pipettes, 1ml - 5 ml (Variable volume)	6	1ml - 5 ml, Pipettes, microlitre, variable volume, selection with digital indication of volume, simple tip ejector facility
1.16	Pipette tips		Capacity: 1 - 10 μ l to 5 ml, different colours
2	Analytical Instrument / Common Use		
2.1	Spectrophotometers (2 x chemistry, 2 x Biology)	4	Compact, Wide range of operation, Microprocessor controlled, simple key-pad operation
2.2	UV-VIS Spectrophotometer	1	With standard software package & Thermal Printer & accessories. Wavelength : 200 - 1100 nm, Wave length accuracy ± 0.1 nm, repeatability ± 0.1 nm
3	Chromatography & Electrophoresis / Common Use		
3.1	Paper Chromatography	4	set
3.11	Chromatography paper, grade 1	100 m rolls	Width 10mm, 20mm, 30mm 40mm, 50mm, 100mm
3.12	Chromatography paper, grade 1	100 m rolls	For use with chromatography tanks
3.13	Chromatography paper, grade 1	300 sheets	Slotted, for rapid multiple analysis
3.2	Thin Layer Chromatography	1	Chromatography jar, TLC plates, chromatography column, spray gun, spotting pipette, dropping pipette, indicators & aminoacids set.
3.21	Chromatography column	4-6	With delivery tube, nozzle and screw clamp
3.22	Chromatography Jar	6	Heavy borosilicate glass with lid. Height 100mm & 200 mm, diameter 100mm
3.23	Chromatography spray gun	6	For use in paper & thin layer chromatography for spraying locating agents on to chromatograms
3.3	Electrophoresis	1 set	SDS-polyacrylamide, with Power supply unit & accessories
4	General Instrument / Common Use		
4.1	Bunsen Burner (Universal/general purpose)	25	Designed for wide range of gases, heavily nickel plated brass, Fitted to a steel base, Fitted with a collar air regulator
4.2	Auto Vortex Variable speed mixer	2	
4.3	Blender	2	
4.4	Homogeniser (1 x chemistry, 1 x Biology)	2	Table top, with various rods
4.5	Magnetic Stirrer / Hotplate	1	Powerful magnet. ON/OFF switch with indicator light. Max temp. 250° C., Max. Stirring speed 2000 rpm. Hotplate diameter 150 mm
4.6	Magnetic Stirrer	2	Resistant to most laboratory chemicals. Speed control dial, Maximum stirring capacity 1-1.5 l. Speed 100 - 1000 rpm
4.61	Stirrer Bars	10 each	12 mm, 25mm, 35 mm
4.7	Stirred Water baths	2	Digitally controlled thermostat, safety cut-out device, heater & temp. indicators. Temp range; 0° C, Table top
4.8	Centrifuge - Bench Top	2	General purpose centrifuge, swingout bucket, max. speed 3000 r.p.m., Safety interlock, Polycarbonate tubes (approx 25cc)

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No.	Items	Q'ty	Spec. / Notes
4.9	Centrifuge - High speed & refrigerated	150	Microcomputer controlled high speed refrigerated centrifuge. Max speed 20,000 rpm, Max. force 50,000 g. Temp. control range -2 to +40, with Beckman Polysakomer tubes
4.91	Rotor and 50 ml tubes	1	8 - 10 places fixed angle rotor with cover, Speed 20,000 rpm
4.92	Rotor and 16 ml tubes	1	24 places fixed angle Rotor with cover, speed 20,000 rpm.
4.10	Distilled water/ Deionised Water Machine	2	Grade 1/2 (British Standard); good for trace elements analysis. Flow rate: 2-3 liter per hour. A conductivity meter is incorporated. With replacement cartridges.
4.11	Freeze-Dryer	1	Capacity: 4 - 6L, Temperature range: -50 to +60 C
4.12	Heating mantles, Fire Resistant	2	Flask capacity 100, 250, 500ml, Heater power 100-200W
4.13	Incubator	2	Max. temp. 100° C, Accuracy :0.1 ° C, LCD temp. display, Stainless steel interior, Non-tip selves, Capacity 150 L
4.14	Laboratory Furnace	1	Small size, Maximum Temp. 1000 C, High efficiency insulation, Drop down door with safety switch
4.15	Oven	1	Temp range 30-200 C. Power rating 1000 W, Internal capacity 30-40 L, Solvent removal
4.16	Refrigerator	2	Standard refrigerator for storage of samples (biological, Animal & plant), Capacity : 300 L
4.17	Deep Freezer (-20 °C)	1	Capacity 200-250 L, With sample containers
4.18	Microtome	1	Rotary precision microtome, Standard size
4.19	Microtome equipment	1	Set, including molds and blocks, paraffine and resin
5	Safety Equipment / Common Use		
5.1	Disposable Dust Masks	300	
5.2	Face shield	20	Protection against chemical splashes and impact
5.3	Safety Spectacles	60	Light weight, Thermally toughened 'thin glass' moulded frame with side shields
5.4	Lab. coats	60	Polyester cotton, white
5.5	Gloves, Disposable	300	medium & large
5.6	Gloves, Leather	20 pairs	General purpose medium weight glove, provide protection for the hand and forearm
5.7	Gloves, Rubber	20 pairs	General purpose medium weight glove
5.8	Laboratory First-Aid Chart (for teaching purpose)	3	Provide immediate reference to the first aid measures required in the event of an accident in the laboratory.
6	Analytical instrument / Chemistry & Agriculture		
6.1	Flame Spectrometry	1	For Quantitative analysis. Analysis of alkali metals
6.2	Gas Chromatography	1	Quantitative chemical analysis. (e.g. To characterize a mixture of volatile fatty acids-acetic acids, butyric acid and propionic acid)
7	Dissecting tools / Biology & Agriculture		
7.1	Dissecting Instrument Set	60	
7.2	Dissecting Board	60	Wood
7.3	Scalpels with disposable blade	100	100 handles & 500 disposable blades
7.4	General Dissecting Scissors	10	
7.5	Surgical Scissors	10	
7.6	Sterile Scalpels	10	
7.7	Forceps, stainless steel	10	Blunt, Narrow flutes, Sharp
7.8	Dissecting needles, box of 100	10	Straight, stainless steel
8	Microscope & Optical instruments / Biology & Agriculture		
8.1	Microscope	25	Routine microscope, with internal lightsource
8.2	Dissecting microscope	15	with illumination
8.3	Hand lenses	50	Convex lens. x10 magnification, Mounted in chromium/nickel plated frame
8.4	Inverted Microscope for Tissue culture	1	
8.5	Microscope, phase contrast with TV system	1	For demonstration use
8.6	Dry Cabinet: for Microscopes	1-2	
9	Microbiology & Tissue Culture / Biology		
9.1	Autoclave	1	Standard type
9.2	Tissue Culture	1	1pc. X Multiwell Plates : Surface Treated Polystyrene, Sterilised. 10pcs. x 24 wells, flat-bottomed with lid, 10pcs. x 96 Wells, flat-bottomed with lid, 10pcs. x 96 Wells, round-bottomed with lid, 20 each X Containers: Polystyrene, Sterilised 250 ml with lid & 250 ml without lid
9.3	UV fluorescent tube	1 set	For sterilization

No.	Items	Qty	Spec. / Notes
9.4	UV lamp	1	Fluorescence test, with handle
9.5	Ultrasonic Disintegrator	1	For the disintegration and disruption of living cells. (VIRTIS Ultra Sonic Cell Disrupters); 25 kHz generator, LED output indicator, power supply with stainless steel work surface & titanium micro probe.
9.6	Laminar Flow Workstation	1	Small size
10	Educational Media / Biology & Agriculture		
10.1	Educational slide set - Botany	1 set	
10.2	Educational slide set - Ecology	1 set	
10.3	Educational slide set - Evolution	1 set	
10.4	Educational slide set - Zoology	1 set	
10.5	Educational video films - Animal behavior	1 set	
10.6	Educational video films - Botany	1 set	
10.7	Educational video films - Ecology	1 set	
10.8	Educational video films - Environmental Science	1 set	
10.9	Educational video films - Evolution	1 set	
10.10	Educational video films - Zoology	1 set	
10.11	Microscope Slides Sets	1 set	Introductory Botany, General Botany, Comprehensive Plant Kingdom Collection, Cell Division Plant & Animal Comparison, Plant Form and Structure
10.12	Microscope Slides Sets	1 set	Plant Cytology, Histochemistry, Cell division, Genetics, Human genetics, Histology (Epithelial Tissues, Connective Tissues)
10.13	Chart/Poster - Five kingdoms of life	1	
10.14	Chart/Poster - Plant cell structure and Animal cell structure	1	
10.15	Chart/Poster - Electrophoresis Techniques Reference	1	
10.16	Chart - Cell structure and cell division chart set	1	
10.17	Chart - Botany & Zoology Chart Series set	2	
10.18	Chart - Periodic Table and Atomic Data set	1	
10.19	Charts - Human System Charts	1 each	Brain, Heart, Vascular System, Nervous system Muscular System, Skeleton, Spine, Eye, lymphatic system, Respiratory system, Digestive system and Pregnancy/Birth
11	Models / Biology		
11.1	Model - DNA Molecular Model Kit	1	
11.2	Model - Organic Structure Model Set	1	
11.3	Model - Protein Synthesis	1	
11.4	Models - Plant & Animal cells, System, Organs	1 each	
12	Models / Chemistry		
12.1	Molecular Models - Sodium chloride	1	
12.2	Molecular Models - Diamond	1	
12.3	Molecular Models - Graphite	1	
12.4	Molecular Models - Scale atoms kit	2	Introductory kit & advanced kit
13	General Equipment / Common Use		
13.1	TV Monitor 29 inch	1	
13.2	VHS Video player	1	
13.3	Steel Cabinet for TV, VTR	1	
13.4	Slide Projector	1	Remote control
13.5	Movable Projector Screen	1	100/120 inch
13.6	Desktop Computer (Windows)	4	For Student use
13.7	UPS	4	
13.8	AVS	1	
13.9	Digital Camera	1	
14	Glassware / Biology & Agriculture	}	ANNEX
15	Glassware & Other / Common Use		
16	Consumables for Tissue Culture / Biology		
17	Consumables / Common Use		

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ANNEX (Science Section)

Nc.	Items	Q'ty	Spec. / Notes
14	Glassware / Biology & Agriculture		
15.1	Slides glass	100 packs	Plain, Thickness 1.0 mm, 100pcs/packel
15.2	Cover slips	100 packs	Square, standard size
15.3	Petri dishes (plastic)	10 packs	
15.4	Specimen Boxes	2	Clear round/rectangular
15	Glassware & Other / Common Use		
15.1	Test tubes - 10mm	250	Borosilicate glass, Resistant to thermal shock
15.2	Test tubes - 15mm	250	Borosilicate glass, Resistant to thermal shock
15.3	Test tubes - 15-25mm	250	Borosilicate glass, Resistant to thermal shock
15.4	Flask - Volumetric Stoppered - 10ml	50	Borosilicate glass, Glass/plastic stoppers
15.5	Flask - Volumetric Stoppered - 50ml	50	Borosilicate glass, Glass/plastic stoppers
15.6	Flask - Volumetric Stoppered - 100ml	50	Borosilicate glass, Glass/plastic stoppers
15.7	Flask - Volumetric Stoppered - 250ml	50	Borosilicate glass, Glass/plastic stoppers
15.8	Flask - Volumetric Stoppered - 500ml	50	Borosilicate glass, Glass/plastic stoppers
15.9	Flask - Boiling short neck - 100ml	10	Borosilicate glass, with graduations & sockets
15.10	Flask - Boiling short neck - 250ml	10	Borosilicate glass, with graduations & sockets
15.11	Flask - Boiling short neck - 500ml	10	Borosilicate glass, with graduations & sockets
15.12	Flask - Conical narrow mouth - 100ml	10	Borosilicate glass, with graduations
15.13	Flask - Conical wide mouth - 100ml	10	Borosilicate glass, with graduations
15.14	Flask - Distillation - 100ml	10	Side arm on all sizes 60° to the vertical axis
15.15	Flask - Filler - 100ml	10	Borosilicate glass
15.16	Flask - Filter - 500ml	10	Borosilicate glass
15.17	Flask - Flat bottom - 100ml	10	Pyrex/Borosilicate
15.18	Flask - Flat bottom - 500ml	10	Pyrex/Borosilicate
15.19	Flask - Round bottom - 100ml	10	Borosilicate glass
15.20	Cylinder - 25ml	20	
15.21	Cylinder - 50ml	20	
15.22	Cylinder - 100ml	20	
15.23	Cylinder - 250ml	20	
15.24	Cylinder - 500ml	20	
15.25	Cylinder - 1000ml	10	
15.26	Reagent Bottle - clear glass - 30ml	50	
15.27	Reagent Bottle - clear glass - 60ml	50	
15.28	Reagent Bottle - clear glass - 125ml	50	
15.29	Reagent Bottle - clear glass - 250ml	50	
15.30	Reagent Bottle - clear glass - 500ml	50	
15.31	Reagent Bottle - clear glass - 1000ml	30	
15.32	Beaker - 25ml	10	Pyrex/Borosilicate
15.33	Beaker - 50ml	10	Pyrex/Borosilicate
15.34	Beaker - 100ml	10	Pyrex/Borosilicate
15.35	Beaker - 400/500ml	10	Pyrex/Borosilicate
15.36	Beaker - 1000ml	6	Pyrex/Borosilicate
15.37	Beaker - 2000ml	6	Pyrex/Borosilicate
15.38	Pipette, Graduated	10 each	1, 2, 5, 10, 25 ml. For titration, Soda glass
15.39	Pipette, Pasteur	50 each	150mm & 230mm, Uncalibrated, for the transfer of fluids
15.40	Pipette, Disposable glass micro-pipette	500	Made of precision bore tubing
15.41	Pipette stand with base/support	2	Horizontal
15.42	Pipette storage/sterilising box	1	Round/telescopic box & Autoclavable
15.43	Burettes	20 each	Analytical grade, capacity 30ml & 50 ml, Non-stick stopcock
15.44	Bottle top dispenser	2	
15.45	Funnel - Buchner Polypropylene	5 each	Size 55 & 70 mm. Light weight. Top & bottom can/must be separated for easy cleaning
15.46	Funnel - Buchner Porcelain	2	

ANNEX (Science Section)

No.	Items	Q'ty	Spec. / Notes
15.47	Funnel - Filter Glass	10 each	Short stem funnels with a cone angle of 60°. Diameter: 75, 100, 150 mm
15.48	Funnel - Separating, Conical type	4 each	Borosilicate glass with stopcock, Capacity 250 & 500 ml
15.49	Funnel - Separating, Cylindrical type	4 each	Borosilicate glass with stopcock, Capacity 250 & 500 ml.
15.50	Mortar & Pestle	10 each	Diameter 80mm, 130mm, 160mm, 230mm
15.51	Rod, Borosilicate	36	diameter, 5 -6 mm
15.52	Rod, Soda glass	36	diameter, 5 -8 mm
15.53	Spatula - Rounded	12	Stainless steel, length 100 mm, width 4mm
15.54	Spatula - Flat end & spoon	12 each	Stainless steel, Length 120, 180 mm
15.55	Spatula (Chattaway's)	12	One end flat, other end bent up, polished nickle., Length 200mm
15.56	Scoops, Measuring	12 each	Length 60 mm, 200 mm
15.57	Stoppers, Cork	100	Bottom diameter 5mm to 50 mm
15.58	Stoppers, Rubber	100	Bottom diameter 5mm to 60 mm
15.59	Brush	25 each	Test tube brush, bottle brush, burette brush
15.60	Syringe, disposable	50 each	1ml, 2ml, 5ml & 10 ml
15.61	Syringe, polypropylene	25	100 ml
15.62	Desiccator, vacuum	2	Borosilicate glass
15.63	Desiccators	4	Borosilicate glass, flat bottom
15.64			
15.65	Tubing Capillary	10 meter	Borosilicate, in boxes of 10, 0.5 m length
15.66	Tubing heavy wall, rubber, red	5 meter	Bore size: 3mm, 5mm, 6mm
15.67	Tubing, Transparent	10 meter	Resistant to acids & alkalis, temp. up to 60° C Bore size: 3mm, 5mm, 6.5mm, 8 mm
15.68	Visking tubing & Clips	5 x 5 meter	A cellulose based, selectively permeable (can be used to demonstrate osmosis & dialysis/separation techniques. Diameter 6, 14 mm)
15.69	Stand		
15.691	Bases, Retort Stand	25	Steel base with tapped hole, fitted with rubber feet
15.692	Rod	25	To fit bases (above mentioned)
15.693	Clamp	30	Rubberlined
15.694	Boss	30	Cast alloys
15.695	Clamp	30	Corklined jaws
15.70	Test tube holder	75	Spring steel wire holder
15.71	Test tube stand	25	Durable, non-corrosive both two tier & three tier rack
15.72	Storage containers	50	Small, medium & large
15.73	Sharps containers (Trash can for glass)	3	Capacity 5 litres, leakproof, puncture resistant
15.74	Trays, general	2	General trays for laboratory use
15.75	Trolley, apparatus	2	General trolley for laboratory use
15.76	Rat cage, large	6	Central food hopper with twin water bottle apertures plus water bottles & stainless steel nozzles
15.77	Stop clock	6	Timer with alarm
15.78	Stop watch	6	LCD display, Washable
16	Consumables for Tissue Culture / Biology		
16.1	Yeast extract, 1 kg	2	
16.2	Agar, 1kg	5	
16.3	Chloramphenicol, 1mg	2	
16.4	Glucose, 1 kg	3	
16.5	Malt extract, 1 kg	5	
16.6	Peptone, 1 kg	3	
16.7	Tetracycline, 1 mg	5	
17	Consumables / Common Use		

ANNEX (Science Section)

No.	Items	Q'ty	Spec. / Notes
17.1	Whatman cellulose filter paper	2.5 cm ³ X 100 packs	Medium retention, Medium fast flow & analytical grade.
17.2	Filter paper	100 packs for each size	Diameter : 4.25cm, 5.5cm, 7cm, 9cm, 12cm, 15cm, 18cm, 24cm & 40cm. General purpose, Routine qualitative, Medium - Medium fast flow rate, No clogging Used for water analysis, Air pollution analysis
17.3	pH indicator paper, Standard Litmus test paper	50	Range 1-14, Whatman, 5-6mm wide plus colour chart Red and blue
17.4	pH indicator paper, Universal indicator test paper	24	PH range 1-11
17.5	Starch test paper	24	For iodine tests

ANNEX1-3

11/13/2003

K. Equipment for Other Lecture Theaters & Classrooms

No	Items	Q'ty	Spec. / Notes
1	New Lecture Room (will be built in the Old Library)		Seating capacity : 50
1.1	29 inch TV Monitor	1 unit	
1.2	VHS Video player	1 unit	
1.3	CD/DVD Player	1 unit	
1.4	Steel Cabinet for the above TV,VTR,CD/DVD player	1 unit	
1.5	OHP	1 unit	
1.6	Projector Screen	1 unit	
1.7	Extension power reel	1 unit	
2	Old Lecture Theater		Seating capacity : 100
2.1	29 inch TV Monitor	1 unit	
2.2	VHS Video player	1 unit	
2.3	Steel Cabinet for the TV & VTR	1 unit	
2.4	Projector Screen, Movable	1 unit	
2.5	Extension power reel	2 unit	
2.6	Pin Spotlight, stand type	1 set	w/color filters
2.7	Stage Spotlight, Plano-convex	4 units	
2.8	Stage Spotlight, Fresnel	9 units	
2.9	Cable Terminal Box	1 set	
2.10	Lighting Control Board	1 unit	
2.11	Lamp for Spotlight	30 units	
2.12	Audio System:		
2.121	Amplifier	1 unit	
2.122	Mixer	1 unit	
2.123	Equalizer	1 unit	
2.124	Speaker system	1 set	
2.125	Tape Recorder/Player	1 unit	
2.126	CD/DVD Player	1 unit	
3	Classrooms in the Departments		
3.1	TV System:	4 sets	1 set each for the Department of:
3.11	25/29 inch TV Monitor	1	Educational Foundation
3.12	VHS Video player	1	H.Eco., Design & Tech.
3.13	CD/DVD Player	1	Maths & Computing
3.14	Steel Cabinet for the above TV,VTR,CD/DVD player	1	Social Science & Commerce
3.15	Extension power reel	1	
3.2	Projector Screen, Movable	5 units	100 inch
3.3	White Board, Movable	5 units	
4	Life Skills Center		
4.1	Compact Stereo System (CD, Tape)	1 set	
4.2	25/29 Inch TV Monitor	1 unit	
4.3	VHS Video player	1 unit	
4.4	DVD Player	1 unit	

L. Equipment for Design & Technology Section, Dept. of H.Econ, Design & Tech.

No.	Items	Q'ty	Spec. / Notes
1 METAL WORKSHOP			
1.1	Metal Lathe	2 units	Swing over the bed 535mm Bc. Spindle bore 27mm, 16 speed belt drive, Forward/Reverse switch, 560 Wat, 415V/3-Phase/50AC
1.2	Power Hacksaw	4 units	127mm stroke length, Cutting speed 120 strokes per minute, Blade length 400mm, 0.75KW 415V
1.3	Weider	2 units	40-400amps, 415V/3-Phase/50HZ
1.4	Spot Welder	1 unit	Pedestal, 10KVA
1.5	Compressor	1 unit	Direct drive, Receiver capacity 40 liters, Piston displacement 15cm, 2.2KW Motor X 240V/1-Phase
1.6	Tube Bender	1 unit	With 5 formers from 12mm to 25mm
1.7	Industrial Vacuum Cleaner	1 unit	for cleaning the machines in metalwork shop
2 WOOD WORKSHOP			
2.1	Woodworking Lathe	2 units	1000mm distance between Centers, 420mm Swing, 0.75KW TEFC Motor X 240V/1-Phase
2.2	Dust Extractor	3 units	Inlet Diameter 178mm, Max. capacity 2550cm ³ /h -1500cmf, Collection capacity 240 liters, 1.5KW Motor X 240V/1-Phase

M. Equipment for Home Economics Section, Dept. of H.Econ, Design & Tech.

No.	Items	Q'ty	Spec. / Notes
1 CLOTHING LABORATORY			
1.1	Electric Sewing Machine	10 units	Table top, Durable model
2 FOOD LABORATORY			
2.1	Refrigerator	1 units	450 L
2.2	Freezer	1 units	300 L, Upright
2.3	Household Electric Stove	4 units	
2.4	Household Dishwasher	1 units	
2.5	Educational Video programs	1 set	Food related disease/microorganism, Food contamination/spoilage, Food fermentation
2.6	Desktop Computer (Windows)	2 units	Common use in the Clothing & Food Laboratory
2.7	UPS	2 units	
2.8	Steam Presser	1 units	
2.9	Over Head Projector	2 units	

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N. Equipment for Technical Vocational Section, Dept. of H.Econ, Design & Tech.

No.	Items	Qty	Spec. / Notes
1	LATHE AND MILLING MACHINES		
1.11	Measuring Instrutions- Vernier Caliper	1	
1.12	Measuring Instrutions- Micro Meter 0.25mm	1	
1.13	Measuring Instrutions- Micro Meter 25-50mm	1	
1.14	Measuring Instrutions- Micro Meter 50-75mm	1	
1.15	Measuring Instrutions- Micro Meter 75-100 mm	1	
1.2	Surface Gauge	1	
1.3	Vernier Height	1	
1.4	Dial Indicator gauge	1	
1.5	Marking out table	1	
2	PLUMBING TRADE		
2.1	Blow lamp , medium	3	
2.2	Pipe cutter, 3"	3	
2.3	Tube bender, copper/500 mm long	2	
2.4	Tiinsnips (straight)	4	
2.5	Rivet gun	3	
2.6	Silicon gun, 250mm long	3	
2.7	Tinships (right hand) 150mm long	3	
2.8	Electric Drill, 450 Amps	2	
2.9	Stillson, 150mm long	3	
2.10	Guiltone, Manual 90 kg	2	
2.11	Bender, Galvanize bender	2	
2.12	Scriber (metal) 100mm long	3	
2.13	Hacksaw, 300mm long	3	
2.14	Claw Hammer, 10 pound	5	
2.15	Plunger 4", 100mm	4	
2.16	Flaring tool, 100mm	2	
2.17	Copper tube expander, silve	2	
3	CARPENTRY TRADE		
3.1	Combination Square (adjustable)	4	
3.2	Tape Measure set	4	
3.3	Claw hammer set, 10 pound	4	
3.4	Chisels set	4	
3.5	Screw Driver set	4	
3.61	Handsaw, 26 inches- Crosscut Saw (set)	4	
3.62	Handsaw, 26 inches- Tenon saw	4	
3.63	Handsaw, 26 inches- Coping saw	2	
3.64	Handsaw, 26 inches- Hacksaw	4	
3.71	Hand Planes, Medium- Smoothing plane	2	
3.72	Hand Planes, Medium- Jack plane	2	
3.73	Hand Planes, Medium- Block plane	2	

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No.	Items	Q'ty	Spec. / Notes
3.8	Ratchet screw drivers, 600mm long	3	
3.9	Screw driver bit set	2	
3.10	Hand Brake Drill	4	
3.11	Spiral Brace	5	
3.12	Power Drill (Portable)	1	
3.13	Battery Operated Drill (Portable)	1	
3.14	Disc Grinder (Portable)	1	
3.15	Electric Jig saw (Portable)	1	
3.161	Electric Sander - Vibrating Type	1	
3.162	Electric Sander - Belt Sander Type	1	
3.17	Electric Portable Router	1	
3.18	Sliding Bevel	4	
3.19	Marking knives	5	
3.20	Nail pincher	5	
3.21	Extension drill bet set, 200mm long	4	
3.22	Triangular file	4	
3.23	Sawset	3	
3.24	Sledge hammer	2	
3.25	Dampy level set	1	
3.26	Wrench Spanner, 200mm long	2	
3.27	Wrench Spanner, 150mm long	1	
3.28	Open end spanner set	1	
3.29	Ring spanner set	2	
3.30	Folding ruler	2	
3.31	Fix square/try square, 200mm long	2	
4	METAL FABRICATION & WELDING		
4.1	Transmil Welder	1 set	
4.2	Easy/Portable welder	1	
4.3	Power Hacksaw Mach.	1	
4.4	Metal Cutter	1	
4.5	Pipe Bender	1 set	
4.6	Electrode hot warmer	1	
4.7	Portable hand grinder	1	
4.8	Portable hand drill	1	
4.9	Steel rule	5	
5	AUTOMOTIVE ELECRICAL		
5.11	Multi Tester - Digital	2	
5.12	Multi Tester - Analog	2	
5.21	Battery Charges - Booster	1	
5.22	Battery Charges - Trickle	1	
5.3	Ammeter	1	
5.4	Voltmeter	1	
5.5	High rate discharge tester	1	

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No.	Items	Qty	Spec. / Notes
5.51	Soldering iron - Small/Medium	1	
5.52	Soldering iron - Large	1	
5.7	Hydrometer	2	
5.8	Cadium Tester	2	
5.9	Lug Crimpler	1	
5.10	Wire cutter	1	
5.11	Electrical Tools	Various	
5.12	OHM Meter	2	
5.13	Test Bench	1	
6	MOTOR MECHANIC		
6.1	Screw Driver set	1 set	
6.2	Diagnal/side cutter plier	1	
6.3	Combination Plier	1	
6.4	Long Nose/pointer	1	
6.5	Circlip plier (internal)	1	
6.6	Circlip Plier (external)	1	
6.7	Vice Gripping plier	1	
6.8	Torque Wrench - 1/2 inch Drive	1	
6.9	Torque Wrench - 3/4 inch Drive	1	
6.10	Adjustable Wrench - 15 inch	15	
6.11	File (Meta)	1 set	
6.12	Chain Block - S.V.L 2 ton	1	
6.131	Combination Spanners - 10mm	1	
6.132	Combination Spanners - 8mm	1	
6.133	Combination Spanners - 6mm	1	
6.14	Timing light	1	
6.15	Test Light	1	
6.16	Multi-metre	2	
6.17	Air Press-Gauge (reading)	1	
6.18	Floor Jack - 2 ton jack	1	
6.19	Safety stands	4	

O. Office Equipment

No.	Items	Qty	Spec. / Notes
1	Dept. of Social Science & Commerce		
1.1	Scanner	2 units	A4 (S.Science x 1, Commerce x 1)
2	Dept. of Language & Literature		
2.1	Photocopier	1 unit	
2.2	Scanner	1 unit	
3	Life Skills Center		
3.1	Photocopier, Heavey duty	1 unit	
3.2	Desk Top Computer with 17 inch monitor	1 unit	CD-RW
3.3	Laser Printer	1 unit	
3.4	UPS	1 unit	
4	PNG Journal of Teacher Education Room		
4.1	Desk Top Computer with 17 inch monitor	1 unit	CD-RW
4.2	Laser Printer	1 unit	
4.3	Scanner	1 unit	
4.4	Digital Camera	1 unit	
4.5	UPS	1 unit	
4.6	Table & Chair for Computer	1 unit	Secretary use
4.7	Metal Cabinet	1 unit	
4.8	Fax machine	1 unit	

P. Other

No.	Items	Qty	Spec. / Notes
1	300 KVA Standy Generator	1 unit	