

1 SCHEDULE-III
Instruments and equipments for OBPI/CIL/ADRI/FSB/FAL/FIELD/OLRDS/SPAD
for the Year 2010-11

	Name of the item	Specification	Unit
1.	A.I. sheath	French mini	Pack of 50
2.	A.I. sheath container	PVC, for 50 sheaths	Single
3.	A.I. Universal gun (IMV)	Stainless steel, for French mini, midi & German straws	Single
4.	Aerosol fumigator	Capacity 1.5 - 2.0 litre	Single
5.	Aluminium foil	30 cm X 09 meter roll with packing	Single
6.	Apron	Cotton, half sleeve, free size	Single
7.	Arsenic determination apparatus	100 ml bottle and inner fitting, arsenic tube in 2 parts with ground flang ends and can be connected together by spring or rubber band	Single
8.	Artificial Vagina, bovine	Rubber, 10" & 12" size	Single
9.	Autoclave(Horizontal)	Steam /electrically operated, double jacketed, stainless steel body, capacity to accommodate 70 nos.x4 litre Hoffkin's flask, working pressure-steam pressure 20 psi & hydraulic pressure 2.6x4 psi	Single
10.	Bone drilling machine with oscillating Saw fittings (Pedestal design)	Electrical operated	Single
11.	B.P. Blade	Sterile, individually packed <i>For handle no. 3 - blade No. 10,12, 15</i> <i>For handle no. 4 - blade No. 23, 24</i>	Ribbon pack of 100 nos.
12.	B.P. Handle	Stainless steel No. 3 (120 to 125 mm length) & No.4 (130 mm length)	Single
13.	Balance (Mechanical)	Triple beam with removable stainless steel pan of 150-155 mm diam. x 18-20 mm deep, notched & tiered beams, magnate damping, specific gravity facility, contoured base for storing optional attachment weight, parallax -free reading, capacity upto 2.0 kg, Sensitivity 0.1gm	Single
14.	Bandage roller	4 inches & 6 inches width	Roll
15.	Bandage than	Bandage than	Than
16.	Basin (SS)	Stainless steel, 35 cm & 40cm outer dia, I.S.I.mark	Single

	Name of the item	Specification	Unit
17.	Beaker with spout	a) Borosilicate glass b) Polypropylene, autoclavable, graduated	100, 250, 500, 1000 ml each
18.	Bucket	<i>Stainless steel</i> -10 inches & 12 inches, ISI mark, Prime steel <i>G. I.</i> - 10 inches & 12 inches with 16 gauge <i>E.I.</i> - 10 inches & 12 inches with cover	Single
19.	Bunsen Burner (LPG)	Inlet tube 10mm, outlet 2.5mm diam. with regulator and side nozzle for 6.5 mm rubber tubing, plated brass tube, round base furnished in acrylic gloss paint	Single
20.	Burette stand (Retort stand) with clamps	Polypropylene	Single
21.	Burette	Borosilicate glass, screw thread stopcock with PTFE key, graduation interval at 0.1 ml , capacity – 50ml	Single
22.	Cage for rabbit	Angled iron frame with welded mesh, 16G g.i. wire netting with 1 inch X 1 inch space on the top and four sides and 14G g.i wire netting at bottom with 1/2 inch X 1/2 inch space, One hinged door with locking facility, Handle on the top, Cleaning tray (removable) at the bottom to fit the cage & with angular feeding tray, Size (L X B X H) = 18 X 12 X 15 inches	Single
23.	Cage for rabbit breeding with kidding box	Angled iron frame with welded mesh, 16G g.i. wire netting with 1 inch X 1 inch space on the top and four sides and 14G g.i wire netting at bottom with 1/2 inch X 1/2 inch space, One hinged door with locking facility, Handle on the top, Cleaning tray (removable) at the bottom to fit the cage & with angular feeding tray, Size (L X B X H) = 18 X 18 X 15 inches along with an attached kidding box of size(L X B X H)=18 X 9 X 9 with a shutter in between the cage	Single
24.	Cage for rat, mouse & guinea pig	Polypropylene cage bin, size (LXBXH) in cm = 43 X 27 X 15 & 29 X 22 X 14 with stainless steel grilled lid to fit the said size along with separate groove in lid for water bottle and feed	Packing of 6
25.	Card board boxes	5 ply, suitable for packing of 20 nos. of 300 ml vaccine bottles	
26.	Casting rope	Cotton 1/2" X 15 yds & 1" X 15 yds	Single
27.	Castrator	Burdizzo type , Size - 9", 13", 16" & 19"	Single

	Name of the item	Specification	Unit
28.	Centrifuge tube	Polypropylene / HDPE, autoclavable, conical , <i>sterile</i> , graduated at 0.5 ml interval with flat top leak proof screw cap, <i>capacity 15 ml</i> , Dimensions (d X h) =17 mm X 120mm having white writing area Polypropylene /HDPE, autoclavable, conical with skirt, graduated in 2.5 ml intervals, <i>sterile</i> with flat top leak proof screw cap, <i>capacity- 50ml</i> ,Dimensions (d X h) = 29-35 mm X 116-118 mm, having white writing area on side of the tube Polypropylene autoclavable, <i>non-sterile</i> , conical with rim, without cap, <i>capacity-15ml</i> , Dimensions (d X h)= 17mmx120mm	a) Pack of 280 or 500 b) Pack of 216/300 c) Pack of 100/200
29.	Condenser (spiral)	Borosilicate glass vertical, 495 mm height, 34/35 interchangeable joint	Single
30.	Integrated system of filling, sealing and printing machine and consumables (IMV)	Integrated system of filling, sealing and printing machine and consumables (IMV) (Detail specification enclosed)	Single
31.	Cotton (absorbent)	500gm	Single
32.	Cotton (non-absorbent)	500gm	Single
33.	Crucibles	Porcelain, glazed inside & outside except base, capacity 25, 50 & 100 ml, maximum temperature 1200° C, with porcelain lid	Pack of 5 or 10
34.	Cryo box	Polycarbonate, autoclavable to hold 81 cryo vials of 1.8 ml and 4.5 ml, numbers moulded into grid system in the box corresponds to number printed in the lid	Pack of 4
35.	Cryo vials	Polypropylene, sterile, graduated with leak proof screw caps, with self standing base, white writing area on side of the tube, capacity 12ml & 5ml pack of 100/216	Pack of 500, 1000
36.	Cryocan	Different capacities.	Single
37.	Cryovessel	320 ltrs,420 ltrs & 550 ltrs	Single
38.	Curette	Stainless steel, 6" & 8" long	Single
39.	Desiccator(Plain)	Borosilicate glass with knob type cover ground to fit and perforated zinc disc, internal diameter of ground flang 200 mm	Single
40.	Disposable mask	Non-woven fabric, non-allergic, melamine free	Pack of 100

	Name of the item	Specification	Unit
41.	Distilled water plant(triple)	Electrically heated, all borosilicate glass distillation unit (flask, condenser, connector) with all electric (switchboard, plug, wire) and rubber fittings and iron stand. Heating element of 1 kilowatt each, water output approx. 1lit per hour, capacity 5 litre	Single
42.	Douche can with rubber/ Polythene tubing.	E.I. can with 2 meter long rubber/Polythene tube(1.5cm diam.) with blunt ends and controlled nozzle	Single
43.	Dropping bottle	Low density polyethylene (LDPE)	60 ml
44.	Empty PVC straws (IMV)	French mini	Pack of 1000
45.	Eye hook	Stainless steel with blunt ends	Single
46.	Forecep dressing	Stainless steel 6"	Single
47.	Filter paper	Qualitative, ash content 0.6%, circular, 90 mm, 150mm 185mm dia	Pack of 50, 100
48.	Filtration unit	Consisting of graduated polysulfone holder and receiver, polypropylene cover, capacity of the holder (upper chamber) and receiver (lower chamber) 250ml or 500 ml receiver with two side arms and a connector / adopter holder having 3 ports with TPE, support plate as filter area to hold 47 mm dia membrane filter with an "o" ring seal	250, 500 ml
49.	Flask (Roux' s)	Borosilicate glass with offset neck, approx. height 268 mm and neck ID 25 mm	Single
50.	Flask (Conical)	Borosilicate glass, flat bottom, narrow mouth with rim	250,500, 1000ml each
51.	Flask (Hoffkin)	Borosilicate glass, approximate O.D. X Height = 245 X 310mm	4000ml
52.	Flask (volumetric)	Borosilicate glass, one mark stoppered flask with interchangeable glass stopper.	50,100,250, 500ml each
53.	Flask(Round)	Borosilicate glass, flat bottom, narrow mouth, long neck	250,500, 1000ml each
54.	Forceps (Rat toothed)	Stainless steel, straight, of 6", 8" length	Single

	Name of the item	Specification	Unit
55.	Forceps(dissecting/thumb)	Stainless steel, curved ,150mm long	Single
56.	Forceps(straight)	Stainless steel with blunt ends and serrated teeth, 5" & 6" long	Single
57.	Forceps(tamponing)	Stainless steel of 16" length	Single
58.	Forceps(artery)	a) Stainless steel, straight, 6" and 10" long b) Stainless steel, curved, 6" long	Single
59.	Forceps(specimen holder)	Stainless steel with blunt ends & serrated tips of 10" length	Single
60.	Funnel	Borosilicate glass, 3" & 4" outside top diam., stem length 70mm Polypropylene with above specification	Pack of 6 or 12
61.	Funnel , E.I.	3" and 6 " diameter	Pack of 6
62.	Glass beads	Borosilicate glass, 3.5 to 4.5 mm diameter	Gram or kg
63.	Gum boot	Rubber assorted 8 to 10 nos	Pair
64.	Gloves (disposable)	Polythene, full hand / sleeve, Size- No. 6 & 7	Single / pair
65.	Gloves (General purpose)	Latex, autoclavable, for left & right hand fitting , size- No. 6 & 7	In pairs
66.	Gloves, Surgical	Surgical No.6 ½ & 7,	In Pairs
67.	Goat AI kit	Consisting of Speculum- stainless steel, size 6" Goat AI pipette Test tube- Borosilicate glass, size(ODXL) in mm=12x75 Mug- stainless steel, 500ml	

	Name of the item	Specification	Unit
68.	HOSPITAL SURGICAL PACK	1. Artery forceps 6” straight 2 2.....do.....curved 2 3. Allis Tissue forceps 6’ 2 4. Allis Tissue forceps 8” 2 5. BP handle No.3 2 6. BP handle No. 4 2 7. Towel clamp 6 8. Surgical scissors straight 6 “ 2 9.do.....curved 6” 2 10 Rat Tooth Forceps 6” 2 11. Plain Forces 6” 2 12. Needle Holder 8” 2 13. Self Retaining Forceps 2 14. Double end Probes 2 14. Trocar and Cannula set of 4 2 15. Suture Needles No. 1.2.3.4. 2 Pkts of each size 16. Surgical Tray ISI marked 12 x 10” with cover 1 17. Surgical shroud with slit 6 feet x 6 feet 1 18. Surgical drapes 3 x 3’ 6 19. Hand Towel 12 x 12’ 2 20. Surgical Gown 2 21. Wrap Cloth 4 x 4 feet 2	Single
69.	Haemocytometer with Neubaur slide	Double cell counting chamber with improve naubauer ruling, two plain cover glasses, one each red and white cell pipettes with rubber tubing and mouth piece complete in a case	Single
70.	Haemoglobinometer (Sahli)	With permanent colour standard in comparator, graduated tube, pipette 0.02 ml, plain dropping pipette with teat, polystyrene/glass rod, lancets and dropping bottle complete in a case	Single
71.	Hoematocrit tube (wintrobe)	Graduated	

	Name of the item	Specification	Unit
72.	High Performance Liquid Chromatography(HPLC)	<p><i>HPLC pumps</i>- flow precision 0.1% RSD, maxm. pressure 6000 psi at all flow rates, flow accuracy $\pm 1.0\%$, Delay volume $< 200\mu\text{l}$</p> <p><i>Mixer</i></p> <p><i>Manual Injector</i> - M7725i Rheodyne Injector 20 μl, 50μl, 100μl</p> <p><i>Refractive Index Detector</i>- 1.00 to 1.75 RIU</p> <p><i>Chromatography manager</i></p> <p><i>Column</i>- C8, C18</p> <p><i>Filtration Accessories:</i></p> <ul style="list-style-type: none"> - SEP - PAK -C18 for sample clean up - Solvent Clarification Kit with pump <p><i>Column Heater</i>- Temperature range - 20° to - 150°C</p> <p><i>Installation kit</i> for each module</p>	
73.	Ion meter along with fluoride electrode	<p><i>pH range</i>- 2.000 to 19.999 (resolution 0.001pH, relative accuracy 0.002)</p> <p><i>Concentration range</i>- 0.000 to 19.900 (resolution + 1least significant digit, relative accuracy $\pm 0.5\%$ of reading)</p> <p><i>Temperature</i> - 5.0 to 105°C (resolution 0.1°C, relative accuracy $\pm 1.0^\circ\text{C}$)</p> <p><i>Relative millivolt range</i> – 1999.9 to +1999.9 (resolution - 0.1mV, relative accuracy ± 0.2 mV or $\pm 0.05\%$ of ΔE whichever is greater)</p> <p><i>Display</i>-custom 2 colour vacuum fluorescent with 17 character prompt line.</p> <p><i>Inputs</i>- two BNC, two pin tip ground ATC power RS 232 C, output RS 232C, recorder 0 ± 1600.0 mV full scale Karlfischer, -10 μA polarizing current</p> <p><i>Power requirements</i> 9V DC line converter for either 110/ 200 V AC, 50/60 Hz wall outlet</p>	Single
74.	Inoculation needle Vaccinator Automatic	16"/ 18" gauze	Pack of 1 dozen
75.	Jar (museum) with cover	Borosilicate glass, rectangular, size(H X L X B) in mm =200 X 125 X 125, 250 X 165 X 140, 150 X 120 X 100 & 100 X 60 X 50	Single each
76.	Latex rubber cone IMV	With rolled ends of 9"	Single
77.	Latex rubber liner(bovine) IMV	Smooth, 22" long	Single
78.	Magnetic bar retriever	Cylindrical, 30cm. length, polypropylene/ PTFE coated	Single
79.	Metal Detector	For Bovine	Single

	Name of the item	Specification	Unit
80.	Magnetic stirrer with hot plate	Stirring speed maximum 1200 rpm, stirring capacity 2 litres, heating capacity 300 watt, stainless steel or ceramic top, stepless speed and heat regulator, electrically operated	Single
81.	Magnetic stirring bars	PTFE/Teflon coated leakproof bars with central spinning ring, round, dimension 6-8 X 14-18 mm or 9.0-9.5 X 25-30 mm or 9.0-9.5 X 50mm	Pack of 5 or 10
82.	Measuring cylinder	a) Borosilicate glass with sprout and graduated with hexagonal base b) Polymethyl pentene (TPX), autoclavable with spout and graduated with hexagonal base	100, 500 1000 ml each
83.	Membrane filter	cellulose acetate membrane, autoclavable, pore size 0.22 and 0.45 micron, diam. of 13mm, 25mm and 47 mm	Pack of 50, 100
84.	Membrane filter holder(Syringe filter)	Polypropylene/ Polysulfone material, autoclavable, size to accommodate 25mm, 13mm diam. membrane filters	Pack of 2
85.	Micro centrifuge tube	Polypropylene, autoclavable conical with attached air tight, hinged cap / lid, graduated, capacity of 0.5 ml and 2ml	Pack of 500, 1000
86.	Micro Kjeldahl distillation set	Borosilicate glass round bottom Kjeldahl flask with long neck, 500 ml capacity, digestion bench with 3 numbers heater, distillation unit with condenser & 500 ml flat bottom flask	Single
87.	Micro tube box	Polycarbonate/ LDPE to hold 81 nos. of 0.5ml and 64 nos. of 1.5ml microcentiuage tubes	Pack of 4
88.	Microscope Cover slips a) Circular b) Square c) Rectangular	a) Diam. -19 mm , No. 1(0.13 to 0.16 mm thickness) b) Size-18mmx18mm,Number and thickness same as above c) Size-22mm X 30mm, Number and thickness same as above	10 gm each
89.	Microscope Glass slides	Length X width X thickness 76 mm X 26 mm X 1.3 mm, optically clear, distortion free surface, low iron content	50 slides/ pack
90.	Microscope slide box	Made up of polystyrene base slotted to hold 50 (76 X 22mm) slides with close fitting lid and index	Single
91.	Microscope (Binocular)	Binocular inclined pathological 4x,5x,10x,40x,45x,100x with ISI marked	Single
92.	Mortar & Pestle (porcelain)	Mortar- porcelain, non- glazed with sprout, external diameter 70mm & 100mm,Pestle to suit mortar volume with oval nonglazed porcelain head	Single
93.	Muffle furnace	Electrically operated, 3 kW, 220- 230 V AC, max. temp. 900°C with thermostat, chamber size- 12" X 5" X 5"	Single

	Name of the item	Specification	Unit
94.	Mug	Stainless steel, 500 ml	Single
95.	Needle (Hypodermic)	Reusable stainless steel standard 12 ⁰ bevel point luermount type, gauge-16,18,20 , length-1.0" & 1.5"	Pack of 12 nos.
96.	Needle holder	6" Stainless steel	Single
97.	Para film / sealing film	Thermoplastic, colourless, semitransparent, water proof, flexible, mouldable, roll size 4" X 125' on 3" diameter core	One roll
98.	Petridishes (sterile)	Polystyrene, 90mm & 140mm in dia in sleeve pack	144per case
99.	Petridishes with lid	Borosilicate glass, approx. OD X height of bottom dish = 51 X 17mm, 80 X 17mm, 149 X 20 mm, lid (ID X height) = 54 X 15mm, 83 X 15mm, 153 X 17 mm	50,100 per case
100.	Pipette bulb(rubber teat)	Rubber / PVC bulb to fit most pipette, 5ml,10ml,20ml each	Pack of 6 or 12
101.	Pipette can(pipette box)	stainless steel, cylindrical, diameter X length =2.0"-2.5" X 15"-18"	Single
102.	Pipette rack (horizontal)	Polypropylene, to hold 12 pipettes	Single
103.	Pipette stand	Material PMMA (Polymethyl methacrylate) to hold 5 micropipettes	Single
104.	Pipette stand (vertical)	With Polypropylene trays and base and rod, holds 28 pipettes, the upper tray having holes 11-16 mm dia and the bottom having small pilot holes for drainage & the base acting as a tray	Single
105.	Pipettes (serological)	Polystyrene, disposable, sterile, individually packed in plastic sleeves with plug, 'o' mark at outlet, graduation interval 0.1ml	2,5,10,25ml each
106.	Pipettes(graduated)	Borosilicate glass, graduated to tip zero mark at top or outlet, permanent amber markings, graduation interval 0.1ml	1,2,5,10ml each
107.	Plastic goblet (French) large and small	Outer diam. x Length=65 x 122mm(large) and 35 x 122mm(small)	Single

	Name of the item	Specification	Unit
10 8.	Post-mortem set for large animal	Consisting of 1) Amputation saw, stainless steel 2) Wire saw with handle, stainless steel (Gigli wire saw) 3) one spare wire for wire saw 4) Post-mortem knife 5) Full hand gloves, size- 6 & 7 6) Post-mortem gloves, latex, size- 6 & 7 7) Bone hammer 8) Bone chisel 9) Post-mortem scissors, stainless steel 10) Scalpel, stainless steel 11) Allis tissue forceps, stainless steel 15" 12) Sharpening stone 13) Probe, stainless steel 14) Scissors, Dressing, stainless steel 15) Bowel scissors, stainless steel 16) Retractor four prong sharp 17) Retractor four prong blunt 18) Dissecting forceps, toothed, stainless steel 19) Bone holding forceps, stainless steel 20) Abscess knife, stainless steel 21) Pharmacy scissors, stainless steel 22) Bone file 23) Measuring tape 24) Vice with two adjustable jaws made of iron for cutting heads of animals	Single
10 9.	Probang for Cattle	All metal	Single
11 0.	Reagent bottle	Borosilicate glass, (a) Wide mouth clear with dust proof glass stopper (b) Narrow mouth clear with dust proof glass stopper	250, 500, 1000ml each
11 1.	Reagent bottle	Polypropylene, (a) Narrow mouth with leak proof screw cap (b) Wide mouth with leak proof screw cap (c) Amber colour narrow mouth leak proof screw cap	125,250,500 ml each

	Name of the item	Specification	Unit
11 2.	Refrigerator	Different size	Single
11 3.	Scalpel	Stainless steel blade and handle, Blade length - 35 mm & 40 mm	Single
11 4.	Scintillation vial	PP / HDPE, capacity 8ml & 20ml with flat screw cap, dimension (d X h) = 25 X58 - 60mm (20ml), 15 X 55mm (8 ml)	Pack of 100
11 5.	Scissors	a) Stainless steel, straight, 6" long b) Stainless steel, curved, 6" long	Single
11 6.	Scissors clipping	6" Stainless steel (Straight / curved)	Single
11 7.	Scissors (myo)	a)Stainless steel, straight, 6" long b)Stainless steel, curved, 6" long	Single
11 8.	Semen filling needle (0.25ml- IMV)	Semen filling needle (0.25ml- IMV)	Single
11 9.	Semen collection tube	Borosilicate glass, conical with rim, extra heavy wall, graduated, 10 ml in 0.1 ml. intervals with permanent amber colour markings or white filled graduation, capacity -15 ml, Dimensions (d X h) = 17 -20mm X 110 -120mm	30/50 per case
12 0.	Soxhlet extraction apparatus a) Extractor, Soxhlet b) Condenser, Allihn c) Boiling flask	Borosilicate glass, capacity 200 ml and 400ml, socket size (top) 50/ 42 , cone size bottom 24/29 Borosilicate glass, large globular type, bottom joint size 50/42 Borosilicate glass, flat bottom, short neck with 24/ 29 interchangeable joints, capacity 500ml and 1000ml	Single
12 1.	Soxhlet extraction heaters	To accept wide range of flasks (250-100ml) in groups of three separate solid state heating control in adjoining recesses, easy to replace heater cartridge with a flexible heating element, stainless steel earth or ground screen fitted above the heating element to provide additional user safety units to operate to a maxm. of 450° C & supplied with brackets & 12.7 mm diam. support rods, support rod clamps are built into each unit for operation on 220-230V, 50Hz	Single

	Name of the item	Specification	Unit
12 2.	Spirit lamp	Stainless steel with screw caps and metal wick holder fitted with wick, capacity -100ml	Single
12 3.	Stabilizer	1 KV & 2 KV, input- 90-300 volts, output- 220-240V (Automatic)	Single
12 4.	Stove (Brass)	Pressure kerosene stove, single brass burner, ISI mark	Single
12 5.	Suction needle (0.25ml-IMV)	Suction needle (0.25ml-IMV)	Single/ pack
12 6.	Suture (Nylon)	Coarse, hank of 100 threads, each 35 cm	Single
12 7.	Suture (Silk)	Black braided, 25m reel	Single
12 8.	Suturing needle	Stainless steel, straight, cutting Stainless steel, curved , cutting & non-cutting "S" shaped with eye for prolapsed	Pack of 6
12 9.	Syringe (Tuberculin)	Borosilicate glass, central nozzle, heat and corrosion resistant, graduated, graduations at 0.01ml intervals	Single
13 0.	Syringe, nylon	Central nozzle, graduated, graduation at 0.2ml intervals, leak proof, reusable	5ml, 10ml, 20ml, 50ml each.
13 1.	Trocar Canola	Stainless steel 10 "	Single
13 2.	Towel clip (Backhauns)	Stainless steel 6"	Single

	Name of the item	Specification	Unit
13 3.	Rumentomy outfit set for cattle	<ol style="list-style-type: none"> 1. Weingart pattern fixation frame for rumen made of non magnetic anti rust material having length : 27 cms and breadth 18 cms. 1 Pc 2. Weingart pattern fixation hook with 7 cm long made of anti rust material 6 Pc. 3. Weignart pattern vulsellum forcpses 24 cms made of stainless steel material 2 Pc. 4. Mayo Pattern Scissor both end blunt straight blades made of stainless steel material screw joint having total length 16 cms with comfort finger loops. 1 Pc. 5.do.....curved blades made of stainless steel material screw joint having total length 16 cms with comfort finger loops. 1 Pc. 6. B.P. Handle Commercial No.3 made of stainless steel material and should take Blade No.11 firmly without any play. 1 Pc. 7.do.....4 made of stainless steel material and should take Blade No. 23 firmly without any play 1 Pc. 8. BP Blades No. 11 and 23 ISI Marked 100 Pc.Each Sterilised and Disposable 9. Tissue forcep jointless with 2x1 teeth ,stainless steel having total length 15 cms. 1 Pc. 10. Allis Tissu Forceps screw joint 4x5 teeth stainless steel having total length 15 cms 2 Pc. 11. Backhaus Towel Clamp screw joint 14 cms length made of SS 4 Pc. 12. Halstead Mosquito Forcep with screw joints jaws having antiskid serrations straight , made of stainless steel total length : 13 cms 4 Pc. 13. Spencerwell's Artery Forcep Screw Joint straight jaws with antiskid serrations 15 cms length stainless steel. 2Pc. 14.do.....curved blades 2 Pc. 15. Mathew Pattern Needle Holder made of stainless steel, having total length 17 cm and screw jointed. 1 Pc. 16. GroveDirector stainless steel winged 14 cms length 1 Pc. 17. Suture Needle Traumatic reverse cutting triangular straight made of Stainless steel material having length of 93 mm and diameter 1.6mm 12 Pc. 18. Suture Needle Traumatic reverse cutting triangular ½ circle made of stainless steel material having length of 102 mm and diameter 1.6mm 12 Pc. 19. Suture Needle Atraumatic straight made of stainless steel material having length 93mm and diameter 1.6mm 12 Pc. 20. Suture Needle Atraumatic curved ½ circle made of stainless steel material having length 102mm and diameter 1.6 mm 12 Pc. 	Single

	Name of the item	Specification	Unit
13 4.	Teat surgery set	Teat surgery set containing all following items in dust proof cover with zipper :- Furstenberg's teat siphon with round head and side openings ,9 cms length Nickel plated of diameter 2mm along with stillet. 2 Pc. Do.....2.5mm dia 2 Pc. Do.....3.0 mm dia 1 Pc. 2. Hug's Teat Tumor extractor stainless steel 12.5 cms length x 4mm dia 2 Pc. 3. Teat Dilator with screw action 17 cms 1 Pc 4. Teat Slitter with screw and 2 blades Danish Pattern 19cms length ,3mm dia nickel plated 1 Pc. 5. Teat slitter Swiss Model 9.5cms length ,4 mm dia . 1 Pc. 6. Lichty Teat Knife with sharp point made of stainless steel to cut the extra growth in teat canal. Total length with handle 18 cm. Made of stainless steel material 1 Pc.	Single
13 5.	Teat Siphon	Stainless steel, self retreating, adjustable, 2mm outer diam.	Single
13 6.	Test tube holder	Brass/ Stainless steel with wooden handle	One/ ten per case
13 7.	Test tube stand	Aluminium, three tier, 12holes of dia 18-20 mm in two rows Stainless steel, three tier, 24 holes of 13 mm in 3 rows and 12 or 18 holes of 18 - 20 mm in two rows	5/10 per case
13 8.	Test tube with rim	Borosilicate glass, medium wall(extra strong), size (O.D. X length) in mm = 12 X 75, 12 X 100, 15 X 150, 18 X 150	100/200 per case
13 9.	Test tube with screw cap	Extra strong borosilicate glass, with bakelite caps with liner, size (O. D. X length)= 15-16 X 150mm, screw cap size -18mm	100/200 per case
14 0.	Thermometer(Clinical, Vet)	With lense front, dual scale (35° to 40° C and 94° to 108° F), in plastic case	Single

	Name of the item	Specification	Unit
14 1.	Thermosflask with dial thermomeyer	Thermos flask made of stainless steel inside and outside and having capacity of 500 +/- 10ml. The mouth dia should be 70+/-2mm and inside height 130 +/-5mm suitable to keep French Mini Straws for thawing... The thermos should be provided with screw cap. The thermos should also be provided along with Thaw monitor having stainless steel stem , for temp. Of water inside flasks. The dial should not exceed 25 mm and stem of 4mm dia X 130 mm length and should have temp. Range covering 0-110 degree C with color marking for THWAING TEMP in range of 35 to 38 degree C Sample should be submitted along with tender.	Single
14 2.	Thermostatic monobath (organ bath)	Consisting of water bath or outer jacket made up of perspex, inner organ bath, heating rod, stirrer, condenser, oxygen delivery tube, miniature aerator for organ bath, electrically operated(230 volt, 50Hz)	Single
14 3.	Tissue culture / cell culture flask	Polystyrene, disposable, sterile, canted neck with screw cap 25 sq.cm and 75 sq.cm, culture area optically clear, flat, distortion free surfaces, with moulded volume graduations	Individually blister packed
14 4.	Tissue culture plates with cover	Polystyrene, disposable, sterile, 6, 24 and 96 wells, optically clear distortion free flat bottom wells	-Do-
14 5.	Tray	a) Stainless steel, 12" X 18 " without cover, 6" X 8" with cover, 10"X12 "without cover b) E.I. tray 6.5" X 4.5" and 8" X 6" with cover	Single
14 6.	U.V. Tube	3 feet long, 30watt, Phillips Holland	Single
14 7.	U.V. tube with fittings	<i>Tube</i> - 3 feet long, 30 watt, Phillips Holland <i>U.V. Fittings</i> - Indian make consisting of 40 watt, 250 volt fluorescent choke, 40 watt, 250 volt starter, metallic stand to hold the tube with reflector	Single
14 8.	Vacutainer a) Tube with anticoagulant b) Tube without anticoagulant c) Blood collection needle	Sterile, Borosilicate/PP glass, evacuated (vacuum) tube with rubber stoppers, EDTA / Heparin as anticoagulant, capacity- 10 ml Same as above except the anticoagulant Disposable, sterile, double ended stainless steel 20 gauge, 1.5 inch long with threaded hub that fit into the holder	Pack of 100
14 9.	Wash bottle	Low density polyethylene (LDPE), leak proof, outlet tube moulded into the bottle, polypropylene screw cap	500ml

	Name of the item	Specification	Unit
15 0.	Washing brush a) for test tube b) for bottle / flask	White nylon bristles on galvanized wire for use with 12-16 ml tube and 18-25 ml tube, approx. length of wire 24- 25 cm with size of head (Bristle portion)75-100mm long X 25-30 mm diam. nylon bristles, loop form on galvanized wire, size of head 125mm X 60mm diam., overall length 300 - 400mm	Pack of 10
15 1.	Water bath (shaking)	Stainless steel chamber (LxBxH in inches=24x18x18), shaking speed range 40 -140 cycle/ min, shaking tray can either hold tubes or flasks, temp. range 20 ⁰ -120 ⁰ C	Single
15 2.	Water bottle for animal cage	Polypropylene with straight stainless steel nozzle having a stainless steel bulb for controlled water flow, capacity - 125ml	Pack of 12
15 3.	Oscillating saw for bone cutting with electrical orthopedic drill.	Oscillating saw for bone cutting with electrical orthopedic drill. 316 LMV Steel	Single
15 4.	Calf puller	Calf Puller consist of Precision threaded shaft of 76" long in two parts with breech spanner for pelvic bones .Friction Jack fitted with leg and traction belts for smooth calf delivery.	Single
15 5.	Plate bender	Plate bender 316 LMV Steel	Single
15 6.	Bone nibbler	Bone nibbler 316 LMV Steel	Single
15 7.	Bone clamp (LOWMAN's)	Bone clamp (LOWMAN's) 316 LMV Steel	Single
15 8.	Hexagonal scew driver 3.5 mm / 4.5 mm	Hexagonal scew driver 3.5 mm / 4.5 mm 316 LMV Steel	Single
15 9.	Circlage wire plier	Circlage wire plier 316 LMV Steel	Single
16 0.	Rimmer	Rimmer 316 LMV Steel 4mm, 5mm, 6mm, 8 mm, 11 mm, 12 mm	Single
16 1.	Bone tap	Bone tap 316 LMV Steel – 2,5 mm, 3.5 mm, 4.5 mm	Single

	Name of the item	Specification	Unit
16 2.	Plaster cutting saw	Plaster cutting saw 316 LMV Steel	Single
16 3.	T handle for intramedullary pin insertion	T handle for intramedullary pin insertion 316 LMV Steel	Single
16 4.	Gigli wire saw	Gigli wire saw 316 LMV Steel	Single
16 5.	Orthopaedic manual drill with jackob choke and key.	Orthopaedic manual drill with jackob choke and key. 316 LMV Steel	Single
16 6.	Awl.	Awl. 316 LMV Steel	Single
16 7.	Multihole interlocking nail	Multihole interlocking nail 316 LMV Steel	Single
16 8.	Krishner Elheimer Nail Jig	Krishner Elheimer Nail Jig 316 LMV Steel	Single
16 9.	Drill Bit	Drill Bit ,2.5/3.2/3.8/4.2mm	Single
17 0.	C- Arm (Image Intensifier Television System)with table	C- Arm (Image Intensifier Television System)with table	Single
17 1.	Operating table (Hydraulic (2.5' X 4')	Operating table (Hydraulic (2.5' X 4')	Single
17 2.	Shadowless light (top / ceiling mounted- four pointed, dual focus)	Shadowless light (top / ceiling mounted- four pointed, dual focus)	Single
17 3.	Examination table	Examination table	Single
17 4.	Saline stand	Saline stand	Single

	Name of the item	Specification	Unit
17 5.	Instrument Trolley	Instrument Trolley/ Glass topped	Single
17 6.	Ophthalmoscope / Retinoscope manual / battery operated 15 Dfocal system	Ophthalmoscope / Retinoscope manual / battery operated 15 Dfocal system	Single
17 7.	Instrument casing with rubber for sterilization and handing of ophthalmic instruments	Instrument casing with rubber for sterilization and handing of ophthalmic instruments	Single
17 8.	Corneal Scissors Lt / Rt	Corneal Scissors Lt -1 Rt-1	Single
17 9.	Needle holder (Castroviejo) Lt/ Rt.	Needle holder (Castroviejo) Lt/ Rt.	Single
18 0.	Corneal Forceps (different angulations)	Corneal Forceps (different angulations)	Single
18 1.	Lense loop	Lense loop	Single
18 2.	Irish hook	Irish hook	Single
18 3.	Castroviejo dilator	Castroviejo dilator	Single
18 4.	Simco canula	Simco canula	Single
18 5.	General eye forceps	General eye forceps	Single
18 6.	Beavers handle	Beavers handle	Single

	Name of the item	Specification	Unit
18 7.	Applanation tonometer –	Applanation tonometer	Single
18 8.	Binocular loop head mounted lamp 3X, 5 X, 6 X, 10 X	Binocular loop head mounted lamp 3X, 5 X, 6 X, 10 X	Single
18 9.	Operating microscope	Operating microscope	Single
19 0.	Slit lamp, ophthalmic biomicroscope.	Slit lamp, ophthalmic biomicroscope.	Single
19 1.	Endoscope with accessories	Endoscope with accessories	Single
19 2.	Vim tru-cut biopsy needle	Vim tru-cut biopsy needle	Single
19 3.	Ambu bag	Ambu bag – 3 ltr. To 5 ltr. Capacity.	Single
19 4.	Oxygen concentrator	Oxygen concentrator	Single
19 5.	Vaporizer and accessories	Vaporizer and accessories	Single
19 6.	Mouthgag set of 3 for different sized animals	Mouthgag set of 3 for different sized animals	Single
19 7.	Dental station	Dental station (Piezo electric scaler facility with multiple fine tipped trepmic bits.)	Single
19 8.	Ventilator	Ventilator	Single
19 9.	Spiral needle	Spiral needle	Single

	Name of the item	Specification	Unit
20 0.	Bipolar Thermocautery	Bipolar Thermocautery	Single
20 1.	Andhra Model funnel	Andhra Model funnel	Single
20 2.	Balance (Single pan analytical)	Full digital calibration, sharp, easy to read fluorescent/ LCD display, sealed key pad protect against dusts and spills, round pan, calibration weight accurately to 05 decimal places with balance housing having door opening/ closing configuration to suit both right and left handed operators, built-in level and leveling feet, touch bottom operation, tare facility, capacity upto 180gm, operating temp. 0 ^o -50 ^o C, optional RS 232C interface, measurement data can be sent to a printer or to a computer, power supply 220-240V AC, 50 Hz, stabilization time approximately 2-5sec.	Single
20 3.	Balance (Top loading)	Portable, compact built with built in level and leveling feet, full digital calibration upto 3-4 decimal point, fluorescent/ LCD display, sealed key pad, tare facility, touch bottom, rectangular top pan(15-17cmX 19-20cm), capacity upto 5 kg, operating temperature 0 ^o -50 ^o C, power supply 220-240 volt AC, 50 Hz.	Single
20 4.	Bio freezer IMV	Designed for freezing animal semen, capacity 5300 litres with one control box and programmer and freezing chamber with electric pressure pump with 220 V, LN ₂ pressurize vessel of LN ₂ pressurize vessel of LN ₂ 200 litres capacity.	Single
20 5.	Centrifuge (Clinical / bench)	One non-removable swing out rotor complete with 8 tube carriers and rubber cushion, tube carriers to accommodate 15ml plain tubes, built in 4/5 step speed regulator, electrically operated.	Single
20 6.	Automatic Straw counting machine, IMV make	Enclosed	
20 7.	Soft ware Management of Integrated Laboratory Environments, IMV MAKE	Enclosed	
20 8.	Cryo Centrifuge (Table top, cooling high speed)	Refrigeration by means of hermetically sealed compressor, CFC free refrigerant, temperature controlled by solid state digital indicator-cum-controller, self illuminated start stop switches, dynamic break, digital speed regulator with 'o' start , switch and digital timer, fixed angle rotor, maximum speed upto 20000 rpm, lowest temp.-8^o to 10^o C, electrically operated.	Single

	Name of the item	Specification	Unit
20 9.	Freezer cum cooler	Dual Chamber Unit Made of CRC sheet and coated paint. The unit is mounted on wheels. The chamber is provided with lock and key. The unit should meet following specifications:- CAPACITY: Not less than 100 Lt. For Freezing Chamber and Cooling Chamber. TEMP.RANGE -18 degree C (+/- 1 degree C) for Freezing Chamber and up to +10degree C for Cooling Chamber, DEFROST : Manual WATTAGE : 135 WATT NO. OF DOORS : 2 The unit should work on 220V AC and supplied along with voltage stabilizer. Printed Catalogue should be submitted along with tender. Firm should be able to demonstrate the unit to technical committee if required.	Single
21 0.	Hot air oven	Electrically operated, temperature range 40°C to 250°C, mechanical temperature controller with safety cut-out and digital display or with a dial type thermometer, stainless steel interior with removable / adjustable shelves, with air circulating fan, inner size DXWXH 1.5'X1.5'X2.0' and 3'X 4'X7" approximately.	Single
21 1.	Incubator (Bacteriological)	Electrically operated, temperature range 5° – 60° C corrosion resistant contoured stainless steel internal chamber, digital display of actual running temperature, electronic temperature control with adjustable safety thermostat, fan circulation, adjustable perforated stainless steel shelves, glass/ plexiglass innerdoor, dimension-H X W X D – 2.5'X 2.0'X 2.0' , and 5.0'X 2.5'X 2.5'approximately.	Single
21 2.	Laminar flow	a)Prefilter –95% efficient at 5 microns b)HEPA filter –99.9% efficient at 0.3 microns c)Air velocity-90 ft./ minute (0.45m/ sec + 20% at rated pressure drop) d)Operating filter resistance – maximum 32 mm WG e)Fan-double inlet, centrifugal, super silent f)Manometer and pressure gauge indicator g)Lighting –800 lux minimum at work surface h)Stainless steel work tops with gas taps/ vacuum points i)U.V. light facility j)Structure – Steel Body, clear Perspex side screens with front sliding panel, overall length-1200 to 1900 mm	Single
21 3.	Micropipettes	Single channel – adjustable volume single channel air displacement pipette with soft touch tip ejector, extremely smooth piston movement, rotating plungersets volume within range, volume range-(a)0.5-10µl with 0.1µl increment (b) 10-100µl with 1µl increment(c) 100-1000µl with 1 µl increment Multichannel :- adjustable volume , 8 channel air displacement pipette with plunger and convenient tip ejector, rotating plunger sets volume, volume range 25-250µl increment.	Single
21 4.	PH meter electrode	Measurement range 0-14 pH at 0-100°C, glass + standard (reference) combination electrode.	Single
21 5.	PH meter bench top	Digital pH meter with LED / LCD display, range 0-14 pH with 0.01 resolution, auto/ manual calibration, temperature range 0° –100° C electrically operated with electrode and electrode holder.	Single

	Name of the item	Specification	Unit
21 6.	Incenerator	Capacity –15 to 20 kg / hr Type- Dual combustion chamber Operation- Contineous Fuel- LDO/ HSD Power supply- 440 volt, 50Hz, 3 phase Operating Temperature-1050+ 50° C Insulation (Refractory) – Fire bricks + insulation bricks Type of waste- Animal Waste- Rabbit, mouse, sheep, Guinea pig etc. , lab waste Chimney should be provide with monitoring nozzles, ladder and landing platforms. Conditions- complete installation and demonstration at the site of use.	Single
21 7.	Fermentor	1000 lit. capacity in-situ steam sterilizable with online cross flow system. Conditions- it should be supplied with perfectly compatible Harvesting vessel, Air compressor, water chiller system Optimal item: - bending vessels (specification enclosed)	Single
21 8.	Automatic Semen freezer	Automatic computerized semen freezing with PC & tank of 200 litres with flexible house.	Single
21 9.	Cold handling cabinet	Detail specification enclosed separately	Single
22 0.	Ear tag with steel applicator	Brass ear tag with stainless steel applicator	Single
22 1.	Electronic air cleaner	Clean air inside the laboratory by electrostatic precipitation.	Single
22 2.	Vacuum cleaner	1000-1100 W capacity suction motor with attachments of combination brush, Service nozzle, radiator brush demothing vapouriser, spray jar, top cleaning adapter	Single
22 3.	ETO Steriliser	Fully automatic, Ethylene oxide Gas sterilizer small & large size.	Single
22 4.	Anoerobic Jar	5-20 PC Co ₂ tension	Single
22 5.	Air curtains	Horizontal, length 4 feet	Single
22 6.	Water purification system (RO system) / ultrafiltration	Enclosed	Single

	Name of the item	Specification	Unit
22 7.	Air conditioner	1.5 Ton / 2 Ton	Single
22 8.	Diesel Generator	20 KV,7.5KV,10KV,15KV	Single
22 9.	Digital Slide calipers	Digital Slide calipers	Single
23 0.	Rotary Microtone	Spencer type	Single
23 1.	Needle disposable	18 G X 1 ½ " (1.20 X 38 mm) 19G X 1 ½ " (1.20 X 38 mm) 20G X 1" 24G X 1"	Single
23 2.	Pipette filler / Handy pette	Polypropylene, accepts all standard pipette(1ml to 25ml) with a soft plastic pipette holding socket and released valve for rapid pipetting.	Single
23 3.	Syringe disposable	5ml , 10ml , 20 ml (leur lock)fitted with 18 gz needle	Single
23 4.	Vaccine carrier	Moulded polythene construction with lid & strong carrying handle, double walled with PUF insulation, unbreakable, lightweight, sponge piece to fit internally with 8-10 rectangular plastic ice packs, dimension(LX W X H) in feet= 2.0 X 1.0 X 15	Single

	Name of the item	Specification	Unit
23 5.	Vaccination kit	Field Vaccination Kit consists of:- Autoclavable graduated Plastic syringe with metallic luer lock nozzle 5ml 1 Pc. Luer Lock Repeater syringe with adjustable Dose in 1.0ml. interval Capacity: 5ml. with tube connector And Ascending Tube 1 Pc. Poultry Vaccinator capacity 1 ml. with tube connector and Ascending Tube...1 Pc. Reusable Hypodermic Needles ISI Marked with brass hub sizes : 16Gx 3/4", 16Gx1.1/2" 18G x 3/4" and 18G x 1.1/2" and 22 G x 3/4" 10 Pc. Each size Container with lid for used needles and syringes 1 Pc Cheatel's forcep for syringe /Needle 1 Pc. Non electric Syringe /Needle Autoclave 1 Pc. All items should be packed in suitable shoulder carrying bag .	Single
23 6.	Vessel sealing +Electro surgical unit	Enclosed	Single
23 7.	Operating Microscope	Enclosed	Single
23 8.	Vaccinator	Automatic	Single
23 9.	Fumigation Machine	5 ltr capacity, Hand sprayer for disinfection for OT	Single

	Name of the item	Specification	Unit
24 0.	Portable X-ray	<p>The x ray machine should have High frequency and microprocessor controlled. and ceiling mounted tube support for quick and easy positioning for pet animals. It should have following features.</p> <p>A. Generator Generator should be of latest technology with high frequency/inverter technology for constant output with inverter frequency not less than 30 KHZ. Output 50kW or more KVP range 40KV -150KV Output should be 500mA at 100KV, 630mA at 80 KV It should have 800mAs It should have automatic exposure control device for whole body. It should have digital display or KVP & mAs Anatomical programming more than 350 programs radiography should be possible It should have over loading protection.</p> <p>B. X-Ray Tube and Collimator</p> <ol style="list-style-type: none"> The X-Ray tube should be rotating anode high speed, compatible with the generator and must have dual focus. of 0.6 and 1.2 mm Short term rating 37 KW & 85 KW Tube with anode heat storage capacity 200KHU. Multi leaf collimator having halogen lamp/bright light source and auto shut provision for the light. Tube and generator should be same manufacture. <p>C. Ceiling suspended 3D Column stand: It should be ceiling suspended. It should have movements in all directions i.e. 3D transverse 200cm or more, longitudinal 250cm or more (up and downwards i.e. vertical 125cm or more). It should have electromagnetic brakes with fully counter balanced mechanism. It should have facility to display FFD/SID. It should have provision of auto centering table bucky centering. Tube rotation at vertical axis and horizontal axis +180 degree. It should have CE approved.</p> <p>D. X Ray table Horizontal bucky table 4 way floating table top with electromagnetic locks. Longitudinal slide of table top – Not less than 1100 mm Lateral slide of table top – Not less than 250 mm Bucky tray with automatic sensing of cassette size Grid – 12:1, 40 lines/cm at f=100 cm Cassette size – Max 14” x 17” Table movement controls to be integrated flush with the table without any projection</p>	Single

	Name of the item	Specification	Unit
24 1.	Ultrasound with trolley	<ol style="list-style-type: none"> 1. It should have more than 10" Screen. 2. Should be capable of storing more than 50 images. 3 It should have inbuilt battery backup of mimmmum 2 hrs. 4. It should have computer connectivity. 5. All probes should be multifrequency for different applications. Microconvex (3.5,5.0,7.0) Liner(5.0,7.5,10.0) Rectal(5.0,7.5,10.0) 6. It should have cineloop facility with USB port for direct computer connectivity. 7. Mode of operation B,B/B,B/M,+4B. 8. Depth - 6.24 cm. 9. Machine should be portable and lightweight and not more than 4 kg wt.,so as. 10. Unit must be CE marked for Quality Certifications. 	Single
24 2.	ECG 12 lead	ECG 12 lead	Single
24 3.	Electrical dehorner	Electric Dehorning Instrument set for claves in age group 4-6 weeks with 1 tip of 17mm dia ,4 meter cable 24/170 watt transformer 230 V for secure fast and bloodless dehorning in 10-15 seconds.	Single
24 4.	Multipara monitor	Multipara monitor	Single
24 5.	Bio chemistry Analyzer	Bio chemistry Analyzer (Detail specification enclosed)	Single
24 6.	Hematology Analyzer (Auto read)	Hematology Analyzer (Auto read) (Detail specification enclosed)	Single
24 7.	Urine Analyzer	Urine Analyzer (Detail specification enclosed)	Single
24 8.	Lyophiliser	Automatic Freeze Dryer 12-15 ltr. Capacity	Single

	Name of the item	Specification	Unit
24 9.	V TOP HEATER SURGERY TABLE FOR SMALL ANIMALS	<i>V- Top Surgery for small animals with adjustable electric column heated top for maintaining Thermal support to prevent hypothermia. Should have centre drain system which slides out for easy cleaning. Table should be electrically powered and should silently raise and lowers. Should have adjustable tilt angle with one hand Squeeze and release The length of table should be more than 45 inches The height of table should be between 35 to 38 inches The width should be between 18 to 22 inches Should have adjustable feet compensate for uneven floors Should be made of good quality Stainless</i>	Single
25 0.	Mastitis kit	For field Use :_ containing Mastitis Solution, Mastitis Paddle, Dispenser and instruction manual. FOR ON THE SPOT Mastitis diagnosis.	Single
25 1.	Modular OT	ENCLOSED	Single
25 2.	Polypropylene Vaccine bottle (Round Body)	ENCLOSED	Single
25 3.	Infusion Set	ENCLOSED	Single
25 4.	Scalp Vein set	ENCLOSED	Single
25 5.	Suction Machine	ENCLOSED	Single
25 6.	ELISA Plate washer	ENCLOSED	Single

	Name of the item	Specification	Unit
25 7.	ELISA reader	ENCLOSED	Single
25 8.	Bio safety cabinet	ENCLOSED	Single
25 9.	Thawing machine	ENCLOSED	Single

Sample/Literature means to produce sample or literature as mentioned against each item

For Dairy Development

	Name of the item	Specification	Unit
260.	Brush for Butyrometer	Brush for Butyrometer	For 100 No.
261.	Brush for pipette	Brush for pipette	For 100 No.
262.	Butyrometer	ISI Mark, graduated for reading 0-10%, for 10.75ml milk	Each
263.	Butyrometer shaking stand	Aluminium, for 24 samples	Each
264.	Butyrometer stopper(lockstopper)	Rubber stopper with brass rim	Each
265.	Cattle tying chain	6mm diam., iron, 2 meter length	Each
266.	Dipper	Stainless steel with hook handle, 100ml capacity	Each
267.	Electronic milk tester(for fat test)	Range for 0-13% fat & 120-150 samples/hr., electrically operated (220-240V AC) along with battery operation facilities with built- in battery charger, operating at 10 ^o -50 ^o C	Each
268.	Floating dairy thermometer	Graduated, range 0 ^o -110 ^o C	Each
269.	Gerber's centrifuge machine	Capacity for 24 tubes, manually operated	Each
270.	Glass Pipette	Borosilicate glass, 10.75ml	Each
271.	Herd Recorder	Dial type spring balance, capacity upto 25kg	Each
272.	Key for Butyrometer	Aluminium	Each
273.	Kits for detection of adulterant in milk(complete set)	for urea, ammonia, fertilizer, starch, sugar, glucose, neutraliser, hydrogen peroxide, formalin, salt	Each
274.	Lactometer, Zeal type	ISI Mark, range 1.000-1.004 specific gr. & equivalent milk scale	Each
275.	Milk Can (Aluminium Alloy)	Aluminium alloy, capacity 40 litres (ISI Mark)	Each
276.	Milk measure	Aluminium, capacity 200ml, 500ml & 1000ml	Each
277.	Milk plunger	Stainless steel with handle	Each
278.	Milk sample bottle	Plastic, 100ml with cap	Each
279.	Milk strainer	Stainless steel, for 40 liters milk can	Each
280.	Tilt measure	1 ml, 10 ml Borosilicate glass fitted with cork	Each

	Name of the item	Specification	Unit
281.	Tripod stand	Cast iron	Each

Sample/Literature means to produce sample or literature as mentioned against each item

For Fodder development

	Name of the item	Specification	Unit
282.	Air screen seed grade	Capacity 50kg/hr (fodder seeds) with 1HP single phase motor and screens	Each
283.	Chaff cutter	Chaff cutter - Manually operated, two gear Chaff cutter- Power driven, separate wheels for chaffing & driving i. Single phase- 2 HP Motor ii. Three phase- 3 HP Motor	Each
284.	Irrigation pump	Monoblock a. Single phase - 1 HP, 2HP b. Three phase - 3 HP, 5 HP, 10 HP , 15 HP.	Each
285.	Polythene sheet	Virgin material, not recycled, 500 gauge, 2.4m & 3.0m in length	Per running meter
286.	Self propelled harvester	For harvesting grass/green fodder	Each
287.	Specific gravity separator	Capacity 50kg/hr(fodder seeds) with 1.5 H.P. single phase motor with separate decks for fine and superfine seeds	Each
288.	Sprinkler	Unit with 75 OD, HDP pipes & accessories to run 10 sprinkler heads and 110&125mm OD HDP pipes for underground distribution(2.5kg & 4.5kg/sq.cm)	Accessories each per piece
289.	Submersible pump for tube well	Three phase - 2 HP, 3 HP, 5HP & 10 HP	Each
290.	Urea	20kg packet, commercial grade	Per packet
291.	Bio-fertiliser & Bio-pesticides for soil applications and seed treatment	P.S.M., Azotabactor, Rizebium culture, Trichoderma	Kg

Sample/Literature means to produce sample or literature as mentioned against each item

Poultry equipments / Chemicals for the Hatchery / Poultry & Duck Breeding farms for the year 2010-11

SL. NO.	CATEGORY/NAME OF THE ITEMS	SPECIFICATION/ COMPOSITION	UNIT
2 9 2.	Chemical Rack cum Table White laminated	Chemical Rack cum Table White laminated	Single
2 9 3.	Dissecting Table	Dissecting Table -4' X 2' X 2.5'	Single
2 9 4.	LPG Gas Stove with Cylinder	LPG Gas Stove with Cylinder	Single
2 9 5.	Laboratory stool	Laboratory stool	Single
2 9 6.	Laboratory Table	Laboratory Table, Lamination Top size-6' X 3' X 2.5'	Single
2 9 7.	Aqua Guard	Aqua Guard	Single
2 9 8.	Autoclave (Table Model)	Autoclave (Table Model) 12" X 12"	Single
2 9 9.	Bacteriological loop (Hi-Media)	Bacteriological loop (Hi-Media)	Single
3 0 0.	Beaker 50 ml, 100 ml 250 ml	Beaker 50 ml, 100 ml 250 ml	Single
3 0 1.	Desiccators (110 X 185 X 50)	Desiccators (110 X 185 X 50)	Single
3 0 2.	Durham's Tube	Durham's Tube	Single
3 0 3.	Filtration Unit	Filtration Unit	Single
3 0 4.	Forceps dressing (Size 6")	Forceps dressing (Size 6")	Single
3 0 5.	Funnel Glass-50 m dia	Funnel Glass-50 m dia	Single

SL. NO.	CATEGORY/NAME OF THE ITEMS	SPECIFICATION/ COMPOSITION	UNIT
3 0 6.	Glass rod (Stirrer)	Glass rod (Stirrer)	Single
3 0 7.	Heater Electrical -1500 watt	Heater Electrical -1500 watt	Single
3 0 8.	Hot Plate Rectangular Size 12 X 20" (Elect Heater)	Hot Plate Rectangular Size 12 X 20" with energy regulator and rotary switch (Elect Heater)	Single
3 0 9.	Lab Mill (Kitchen Grinder o grind feed sample)	Lab Mill (Kitchen Grinder o grind feed sample)	Single
3 1 0.	Measuring Cylinder 50 ml	Measuring Cylinder 50 ml	Single
3 1 1.	Moisture cap	Moisture cap	Single
3 1 2.	OIL flask 150 ml	OIL flask 150 ml	Single
3 1 3.	Parnas & wagner apparatus (Standard type) Vensil make condenser with inner silver tube	Parnas & wagner apparatus (Standard type) Vensil make condenser with inner silver tube	Single
3 1 4.	Spatula	Spatula SS 5" blade	Single
3 1 5.	Stabilizer (0.5 K.W)	Stabilizer (0.5 K.W) PHX – 90 -240 ml	Single
3 1 6.	Volumetric flask 50 ml, 100 ml , 250 ml	Volumetric flask 50 ml, 100 ml , 250 ml	Single
3 1 7.	Wash Bottle	Wash Bottle	Single
3 1 8.	Water bath (Shaking)	Water bath (Shaking) with German Thermostat Temp ambient to 100 0C size 175 X 75 mm	Single
3 1 9.	Basic Fuschin Solution	Basic Fuschin Solution	Single

SL. NO.	CATEGORY/NAME OF THE ITEMS	SPECIFICATION/ COMPOSITION	UNIT
3 2 0.	Boric Acid	Boric Acid	Single
3 2 1.	C3 OPEK Dox Agar (M-075)	C3 OPEK Dox Agar (M-075)	Single
3 2 2.	Curpic Sulphate	Curpic Sulphate	Single
3 2 3.	Ethanol (Bengal Chemical)	Ethanol (Bengal Chemical)	Single
3 2 4.	Mac Con Key Broth (Double Strength M-539)	Mac Con Key Broth (Double Strength M-539)	Single
3 2 5.	Methyl Orange indicator Powder	Methyl Orange indicator Powder	Single
3 2 6.	Methyl Red Indicator	Methyl Red Indicator	Single
3 2 7.	MMB (Lanine) – M-22	MMB (Lanine) – M-22	Single
3 2 8.	Nitric Acid (Conc.)	Nitric Acid (Conc.)	Single
3 2 9.	Salmonellagar M-1078 (100 gm)	Salmonellagar M-1078 (100 gm)	Single
3 3 0.	Selenite Broth (M-052A)	Selenite Broth (M-052A)	Single
3 3 1.	Silica gel blue self indicator	Silica gel blue self indicator	Single
3 3 2.	Sodicum sulphate	Sodicum sulphate	Single
3 3 3.	Solution Chloride Crystal	Solution Chloride Crystal	Single

SL. NO.	CATEGORY/NAME OF THE ITEMS	SPECIFICATION/ COMPOSITION	UNIT
3 3 4.	Sulphuric Acid (Conc.)	Sulphuric Acid (Conc.)	Single
3 3 5.	Tissue paper	Tissue paper	Single
3 3 6.	XLD Agar (M 031A)	XLD Agar (M 031A)	Single
3 3 7.	Xylene	Xylene	Single
3 3 8.	Feed Grinder (Hammer Mill of 3 HP single phase	Feed Grinder (Hammer Mill of 3 HP single phase	Single
3 3 9.	Premixer (Single Phase) 500 Kg.	Premixer (Single Phase) 500 Kg.	Single
3 4 0.	3 Wheeler trolley- rickshaw for egg transportation	3 Wheeler trolley- rickshaw for egg transportation	Single
3 4 1.	Box Type double wheel Barrow, 3 Cft. Capacity.	Box Type double wheel Barrow, 3 Cft. Capacity.	Single
3 4 2.	Egg Candiling System (Table with Elect bulb fitted)	Egg Candiling System (Table with Elect bulb fitted)	Single
3 4 3.	Individual egg candler (box type fitted with bulb)	Individual egg candler (box type fitted with bulb)	Single
3 4 4.	Plastic Regular Drinker Automatic with all fittings for chicks	Plastic Regular Drinker Automatic with all fittings for chicks	Single
3 4 5.	Plastic Regular Drinker Automatic with all fittings for Grower	Plastic Regular Drinker Automatic with all fittings for Grower	Single
3 4 6.	Plastic Regular Drinker Automatic with all fittings for layer	Plastic Regular Drinker Automatic with all fittings for layer	Single
3 4 7.	Plastic Chick Feeder (One Feeder for 50 chicks)	Plastic Chick Feeder (One Feeder for 50 chicks)	Single

SL. NO.	CATEGORY/NAME OF THE ITEMS	SPECIFICATION/ COMPOSITION	UNIT
3 4 8.	Plastic Grower Feeder (One Feeder for 40 -50 Birds)	Plastic Grower Feeder (One Feeder for 40 -50 Birds)	Single
3 4 9.	Egg Tray Plastic (30 eggs capacity)	Egg Tray Plastic (30 eggs capacity)	Single
3 5 0.	Fogger Brass Cap	Fogger Brass Cap	Single
3 5 1.	Flame Gun LPG 4 burner	Flame Gun LPG 4 burner	Single
3 5 2.	Debeaker (Electrical)	Debeaker (Electrical)	Single
3 5 3.	Sprayer 10 Ltr. Capacity (Brass)	Sprayer 10 Ltr. Capacity (Brass)	Single
3 5 4.	Laying Nest of G.P. Sheet Size 12'' X 14'' X 16'' (1.5)	Laying Nest of G.P. Sheet Size 12'' X 14'' X 16'' (1.5)	Single
3 5 5.	Sprinkler	Sprinkler	Single
3 5 6.	Feed Storage Bin 100-150 kg capacity	Feed Storage Bin 100-150 kg capacity	Single
3 5 7.	Spade	Spade	Single
3 5 8.	Hand Balance (With Weight)	Hand Balance (With Weight)	Single
3 5 9.	Hooking Hoe	Hooking Hoe	Single

Sample/Literature means to produce sample or literature as mentioned against each item

AI Equipments

	Name of the item	Specification	Unit
360.	AI Gun Container	PVC with 2 caps for one AI Gun universal Container	Single
361.	Alcoholic Breeders' Thermometer	Alcoholic Breeders' Thermometer 0°C to 110° C	Single
362.	Kit Bag	Kit Bag 1 ser (2pc.) , canvass raxin 2'X1' with keeping arrangement of AI kits and 3 ltr. cryocan	Single
363.	Fibre measuring Stick for LN2	Fibre measuring Stick for LN2 made of fibre, 3' size	Single
364.	Kidney shape SS Tray for thawing	Kidney shape SS Tray 10'' for thawing of straw	Single
365.	Twiser SS	Twiser SS 10'' for lifting of straw	Single

Sample/Literature means to produce sample or literature as mentioned against each item

**Sd/-PC, ADRI,
Phulnakhara**

**Sd/-Deputy Director,
Disease Control**

**Sd/-Deputy Director,
Poultry Development**

**Sd/- VAS, Buxibazar
Cuttack**