



The Lebanese Organization
for Studies and Training
الجمعية اللبنانية
للدراستات والتدريب

Provisional BOQ

Artificial Insemination and VET materials

#	Item	Specification	Unit	Quantity
1	A.I. gun	<ol style="list-style-type: none">1. Artificial insemination gun for cattle use2. High-quality stainless steel3. Smooth, polished finish to prevent injury to the animal.4. Sheaths: Disposable or reusable sheaths to cover the gun and maintain sterility.5. Semen Straw Holder: Compatible with the majority of semen straws type for easy loading.6. Plunger: Smooth-operating plunger to ensure controlled semen release.7. Length: Typically around 45-50 cm to reach the cervix comfortably.8. Easy to disassemble for cleaning and sterilization.9. Autoclavable or suitable for chemical sterilization10. Ensures precise delivery of semen into the reproductive tract of the female animal	Pc	4
2	Thermos	Thermos of 300 to 500 ml water capacity to thaw the AI straws without risks It is preferable to be equipped with a water heater powered by the car battery	Pc	4
3	Thermometer	Thermometer to to check the water temperature of the straws during the thawing	Pc	4

4	straw cutter	special cutter to cut the semen straw	Pc	4
5	tweezer	stainless steel tweezer to catch the semen straw from from the semen tank	Pc	4
6	Plastic sleeves (Box of 100 pieces)	Disposable Soft Plastic Film Gloves, Vet Gloves Palpation Sleeve Artificial Insemination Gloves Full Arm Gloves Livestock Gloves for Field Dressing	Box	400
7	Semen and liquid nitrogen tank 3 L	<ol style="list-style-type: none"> 1. Designed for the safe storage and transport of bovine semen for artificial insemination. 2. can store up to 3 L of Liquid Nitrogen 3. Semen tank comes with 6 stainless-steel canisters for straws storage inside the container and a protective cover with straps 4. Depth of canisters 127 mm 5. Diameter of canisters 38 mm 6. Utilizes Dewar technology for insulation 7. Neck diameters, 50 mm to facilitate easy access to semen straws 8. Equipped with a numbered ring to help organize your inventory and keep track of where everything is in the tank 	Pc	4

8	Semen and liquid nitrogen tank 47 L	<ol style="list-style-type: none"> 1. Designed for the safe storage and transport of bovine semen for artificial insemination. 2. can store up to 47 L of Liquid Nitrogen 3. Semen tank comes with 6 to 10 stainless-steel canisters for straws storage inside the container and a protective cover with straps 4. Diameter of canisters 71 - 101 mm 5. Utilizes Dewar technology for insulation 6. Neck diameters, 127 mm to facilitate easy access to semen straws 7. Equipped with a numbered ring to help organize your inventory and keep track of where everything is in the tank 8. Number of Straws not less than 3900 	Pc	1
9	dipstick measurer	Liquid nitrogen dipstick not less than 60cm it is a ruler made of a special material for dipping it into liquid nitrogen in order to read the level of nitrogen in the semen tank. It is black and turns white as it freezes in the nitrogen, make it easy to read the level	Pc	5
10	Semen (for 2 years, Progressively) with the original tank for storing+ 400 Liters of Nitrogen liquid to be filled several times over two years	Friesian Holstein bull semen for dairy cows, characterized by high genetic value, aimed at improving genetic traits that lead to increased milk yield and quality, as well as enhancing resistance to mastitis. The specifications of these bulls will be studied in detail for each submitted offer, and the best will be selected. Origine EU, Canada or USA	Semen	4000
11	Plastic straw (box of 50)	Plastic straw special for the artificial insemination process	Box	80

12	Hoof trimming set	<p>The set include: hoof knife (left and right) Compact angle grinder Hoof check Set of different type of hoof trimming disc 115 mm Stone for sharpening hoof knife Hoof brush Hoof rasp clamp</p>	Set	4
13	Hydraulic Hoof Trimming Chute	<p>Hydraulic Hoof Trimming Chute This machine is only intended for trimming hooves of cows and young cattle older than 1 year. This machine ensures that the claws are lifted and fixed in a stable way before they are trimmed manually High strength and suitable weight Suitable for towing by a car and equipped with special tires for this purpose Safe mechanism to prevent injury to livestock and workers Vertical entrance door equipped with a lifting mechanism for quick opening and closing, ensuring easy entry of livestock into the chute Suitable for various sizes of cattle Easy fixation of arms and legs with a rope and clip in place One-centimeter-thick ribbed mat</p>	Pc	1
14	livestock portable ultrasound machine	<p>Veterinary Ultrasound Scanner with wireless probe designed specifically for cows and another probe for the goats and sheep. Fully sealed and waterproof, meeting high biosecurity standards for on-farm use.</p>	Pc	1

15	Stethoscope	<p>Dual-sided, stainless steel with a tunable diaphragm on both the adult and pediatric sides.</p> <p>Diaphragm: Tunable technology allows for easy adjustment of frequency by varying pressure.</p> <p>Tubing: High-quality, latex-free, and resistant to skin oils and alcohol for longer tubing life.</p>	Pc	2
16	Cattle vaginal speculum	<p>Typically made from stainless steel for durability and ease of sterilization. Length: Common lengths are 40 cm and 60 cm. Diameter: Approximately 4 cm.</p>	Pc	2
17	Binocular microscope	<p>Eyepieces: Widefield 10x/20mm eyepieces with diopter adjustment.</p> <p>Objectives: Plan-Achromat objectives with magnifications of 4x, 10x, 40x (retractable), and 100x (oil immersion, retractable).</p> <p>Magnification Range: 40x to 1000x (or higher, depending on the model).</p> <p>LED illumination with adjustable intensity.</p>	Pc	1
18	Cautery machine bipolar 80	<p>Type: High-frequency electrosurgical device.</p> <p>Modes: Monopolar and bipolar.</p> <p>Applications: Suitable for light and medium surgeries, including pure cut, cut-coagulation blend, superficial coagulation, forced coagulation, deep coagulation without necrosis, and soft coagulation.</p>	Pc	1

19	Otoscope +ophthalmoscope	illumination. Technology: DuraShock technology for durability and reliability. Compatibility: Compatible with all Welch Allyn 3.5 V power handles and wall transformers. otoscope:Viewing Area: Approximately 27% greater magnification and 35% greater field of view compared to traditional otoscopes. Illumination: Long-lasting LED lamps for bright and consistent illumination. Focus: Adjustable focus for different ear canal lengths and to correct for farsighted eyes. Throat Illuminator: Built-in throat illuminator for additional examination capabilities	Pc	2
20	Vaccination Injectors	Type: Automatic syringe. Capacity: Available in 0.5ml, 1ml, 2ml, and 5ml versions. Material: High-quality stainless steel. Ergonomic design for ease of use. Adjustable dosage settings. Easy to disassemble and clean. Suitable for various livestock including cattle, sheep, and goats.	Pc	4
21	Injection gun	gun for dispensing fluid and medicines from 5 cc to 40 cc	Pc	4

22	large surgery kit	Retractors: Gelpi Retractor: 7 inches. Weitlaner Retractor: 6.5 inches, 3x4 prongs. Towel Clamps: Backhaus Towel Clamps: 3.5 inches. Miscellaneous Instruments: Spay Hook: 5 inches. Grooved Director: 6 inches. Needle Pack: Assorted sizes and types. Suture Material: Various types and sizes. Instrument Tray: Material: Stainless steel. Dimensions: Typically 10 x 6 x 2 inches. Features: Perforated for sterilization.	Kit	2
23	Thermobox	Material: Double jacket with polyurethane insulation.Exterior: High-quality, durable plastic, Insulation: Polyurethane foam for excellent thermal insulation. capacity: 20l-30l	Pc	4
24	refrigerator	Temperature Range: Operating Temperature: 2°C to 8°C (36°F to 46°F). Temperature Stability: Maintains consistent temperature with minimal fluctuations.	Pc	1