

2. Technical Specifications

**I. Specifications for Gonadotrophin Releasing Hormone
(GnRH) –1323 nos (10ml 5 Doss vial - 6615 doses)**

S. No.	Required Specifications	Bidders Specifications	
		Yes / No	If "No" Indicate Your offer
1	Approximately 0.1 mg/ml Gonadorelin, 10ml vials. (5 doses vial) Aqueous form		
2	Suitable for synchronization and infertility treatment in cattle and buffalo		
3	The shelf life of the item supplied should be more than 18 months at the time of delivery		
4	Literature and the details of the products should be provided in English medium along with each pack		
5	Should be a registered product in VDCA		
6	Brand		
7	Country of Origin		
8	Unit price of a vial with vat		
9	Unit price of a vial without vat		
10	Total price with VAT		
11	Total price without VAT		

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Bidder's Signature

2 . Specifications for Prostaglandin F_{2a} 1323 nos
(10ml 5 Doss - 6630 doses)

S. No.	Required Specifications	Bidders Specifications	
		Yes / No	If "No" Indicate Your offer
1	Prostaglandin Hormone (PGF _{2a}) or its analogue Suitable for synchronization of heat and treatment of infertility in cattle and Buffaloes. Packed in 5 doses vials (10ml)		
2	Should be in an aqueous injectable solution.		
3	The item should be supplied in the manufacturer's sealed packs.		
4	The shelf life of the item supplied should be more than 18 months at the time of delivery.		
5	Literature and the details of the products should be provided in English medium along with each pack.		
6	Should be a registered product in VDCA		
7	Brand		
8	Country of Origin		
9	Unit price of a vial with vat		
10	Unit price of a vial without vat		
11	Total price with VAT		
12	Total price without VAT		
13	Deliver should		

**3. Specifications for Pregnant Mare Serum Gonadotrophin (PMSG) - 1086 nos
(1000 IU)**

S. No.	Required Specifications	Bidders Specifications	
		Yes / No	If "No" Indicate Your offer
1	Freeze-dried form with the diluents. 1000 IU vials.		
2	The shelf life of the item supplied should be more than 18 months at the time of delivery		
3	Literature and the details of the products should be provided in English medium along with each pack.		
4	Brand		
5	Country of Origin		
6	Unit price of a vial with vat		
7	Unit price of a vial without vat		
8	Total price with VAT		
9	Total price without VAT		

4. Specifications for Non-Return Teat Dip Cup (5000 No.s)

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Type	Non-Return (Non-Reflow) Teat Dip Cup		
2	Capacity	*Bottle Capacity: 300 ml – 500 ml (A single fill provides sufficient volume for approximately 15–20 cows). * Upper Cup Capacity: 30 ml – 40 ml (Must be deep enough to allow full immersion of the teat).		
3	Mechanism	Squeezing the main bottle pumps the chemical up the feed tube into the upper cup. Once released, the liquid remains in the cup and does not siphon back		
4	Chemical Resistance	Must be highly resistant and non-reactive to Iodine, Chlorhexidine, Lactic Acid, and Chlorine-based teat dip formulations		
5	Shatter Resistance	Clear, viscous yellow or pale green liquid		
6	Heat Resistance	Formulated to maintain its structural shape without softening under high tropical ambient temperatures (30°C – 35°C) in Sri Lanka.		
7	Color Scheme	Upper cup should be clear/white for visual inspection of liquid purity and level, while the lower reservoir bottle can be blue, green, or orange		
8	Cleaning	Detach the upper cup and internal feed tube after use and wash thoroughly with warm water or standard detergent/Teepol.		
9	Storage	Invert upside down to dry after washing, and store in a shaded area away from direct sunlight.		

Deliver to Provincial Director office, Animal Production and Health, of each province

Specifications for Mastitis Prevention vaccine (4 Dosses per 20 ml bottle, 4750 no. of bottles)

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Target species	Dairy cattle, buffalo		
2	Target Disease	Both bovine clinical mastitis and bovine subclinical mastitis, not a single type.		
3	Vaccine Type	Inactivated/killed, non-replicating vaccine.		
4	Registration	Must be a registered product under the Veterinary Drug Control Authority (VDCA), Department of Animal Production and Health (DAPH), Sri Lanka		
5	Target Pathogen	Shall include one or more major mastitis pathogens relevant to the claimed indication. Polyvalent vaccines are highly recommended. Preferably pathogens relevant to bovine mastitis epidemiology, particularly <i>Staphylococcus aureus</i> and coliform organisms where efficacy is demonstrated.		
6	Shelf Life	Minimum remaining shelf life of 24 months at the time of delivery.		
7	Immunity	Product shall have documented evidence of immune response and clinical protection/reduction of mastitis in peer-reviewed veterinary microbiology journals. Detailed information on immunity trials must be submitted in the dossier.		
8	Antigenic Composition	Must be clearly declared by the manufacturer. The manufacturer must identify the relevant strain, antigen, or antigenic component where applicable. An appropriate, safe, and approved adjuvant may be used to enhance the immune response.		
9	Sterility	Must comply with applicable requirements for veterinary biological products under VDCA, DAPH. The product should not contain any bacterial composition other than the vaccine strain used.		
10	Vaccine Efficacy	Vaccination efficacy should be proven to be a minimum of 70%, with relevant literature published in peer-reviewed veterinary microbiology journals. Low-efficacy vaccines are not recommended, and efficacy higher than 80% is highly recommended. Demonstrated efficacy/effectiveness against stated mastitis indications through appropriate laboratory and/or controlled field studies is required.		
11	Dossier Submission	A complete dossier including efficacy trials, potency tests, safety tests, field efficacy trials, withdrawal periods, side effects, other harmful effects, and public health impact must be submitted for evaluation.		
12	Vaccination Schedule	An appropriate vaccination schedule must be submitted, along with demonstrated safety in cattle under the recommended schedule		
13	Quality Control	Each batch must undergo documented quality-control testing, such as potency, safety, and purity testing.		
14	Storage and Transport	As specified by the manufacturer; normally a controlled refrigerated cold chain. The vaccine shall be transported and delivered under validated temperature-controlled conditions.		
15	Withdrawal Period	Milk and meat withdrawal periods must be clearly specified.		
16	Packaging	Original, unopened manufacturer packaging, with an English-language label and/or a label accepted by the relevant national authority.		
17	Adverse Event Reporting	The manufacturer/importer shall have an appropriate adverse-event reporting system in place.		
18	Supplier Experience and Qualifications	The supplier must have a minimum of five years of experience in producing veterinary vaccines for the international market. Specific veterinary product registration in the EU, North America, Japan, or Singapore is preferred. The supplier should submit the following documents for evaluation: Certificate of Analysis (CoA), GMP certificate, factory registration with the relevant national authority, and quality management certificate for the manufacturing process.		
19	GMP Compliance	The vaccine shall be manufactured in a facility operating under applicable Good Manufacturing Practice (GMP) requirements		
20	Labeling	Must be clearly stated on the product label and supported by approved product documentation in English. Specifically including manufacturing date, expiry date, dose, route of administration (injectables are highly preferred), target species, composition, precautions, contraindications, withdrawal period, and manufacturer information.		
21	Sterility and GMP System	The product must be sterile and manufactured under appropriate Good Manufacturing Practice (GMP) requirements. The manufacturer should operate under an internationally or nationally recognized GMP system.		

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Specifications for Dry Cow Therapy (26,000 Infusions) (Udder infusions)

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Target Species and Application	Intramammary preparation intended for dry-cow therapy		
2	Registration	Product registered at the Veterinary Drug Control Authority (VDCA), Department of Animal Production and Health (DAPH), Sri Lanka.		
3	Formulation	Sterile intramammary suspension or ointment suitable for administration into individual quarters of dairy cows at drying-off.		
4	Approval	Veterinary antimicrobial substance approved for dry-cow therapy by the Veterinary Drug Control Authority (VDCA), DAPH. Banned antimicrobials by DAPH must not be included (in accordance with all DAPH regulations, including gazette notifications).		
5	Restricted Antimicrobials	Carbapenems, 3rd and 4th generation cephalosporins, colistin, streptomycin, chloramphenicol, gentamicin, quinolones, other antimicrobials used in human medicine, and last-resort antimicrobials in veterinary medicine must be avoided. A special clearance certificate from the VDCA is mandatory if any of these are used.		
6	Shelf Life	Minimum remaining shelf life of 12 months at the time of delivery, unless otherwise specified in the procurement document.		
7	Antimicrobial Classification	Antimicrobial classes must be clearly stated by the manufacturer; products should be selected in accordance with veterinary antimicrobial stewardship principles.		
8	Imported Products	Imported products must include an approved inert bismuth-based or other nationally registered teat-sealing formulation.		
9	Efficacy and Technical Documentation	If the product is not manufactured by DAPH, efficacy and safety details (efficacy trials, potency tests, and safety trials) published in peer-reviewed journals must be submitted. These details must be attached in dossier as a compulsory part of the and submitted to the procurement committee for evaluation.		
10	Language and Labeling	Must be clearly stated on the product label and supported by approved product documentation in English.		
11	Spectrum of Activity	The product must provide activity against major Gram-positive mastitis pathogens and where supported by the approved indications, relevant Gram-negative organisms, such as Cloxacillin or Ampicillin-Cloxacillin combination or equivalent antibiotic specifically approved for Dry Cow Therapy. Cloxacillin As Benzathine cloxacillin."		
12	Sterility and GMP	The product must be sterile and manufactured under appropriate Good Manufacturing Practice (GMP) requirements. The manufacturer must operate under an internationally or nationally recognized GMP system		
13	Packaging	Individually sealed, sterile, single-use intramammary syringe/tube		
14	Primary Packaging	Primary packaging must protect the product from contamination, moisture, and physical damage.		
15	Label Requirements	The label must include the product name, active ingredient(s), strength, target species, indications, dosage, route of administration, contraindications, storage conditions, batch/lot number, manufacturing date, expiry date, and withdrawal periods.		
16	Withdrawal Period	Milk and meat withdrawal periods must be clearly stated and comply with periods approved by the VDCA.		
17	Certificate of Analysis (CoA)	The supplier must provide a Certificate of Analysis (CoA) or equivalent quality documentation for supplied batches upon request		
18	Storage	For storage according to manufacturer-approved requirements; temperature and storage conditions must be clearly stated.		
19	Duration of Activity	The formulation must provide appropriate antimicrobial activity throughout the recommended dry period according to the manufacturer's approved product information.		
20	Traceability	Each supplied unit or carton must be traceable to the specific manufacturing batch/lot.		
21	Withdrawal Period Specification	Milk and meat withdrawal periods must be clearly and specifically defined.		

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7. Specifications for CMT Paddle and CMT Bottle with Pump(4000 No.s)

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Design & Structural type	4 compartment (marked as A, B, C, D or distinctly labeled to correspond to each of the cow's 4 teats).		
2	Compartment Capacity	Each compartment should have a capacity of 15 – 20 ml.		
3	Markings	2 ml or 3 ml level markings inside or outside the cups to accurately and conveniently add 2 ml each of milk and CMT Reagent.		
4	Handle	Long, non-slip, easy-to-grip center handle		
5	Material	High-Density Polyethylene (HDPE) or Food-Grade Polypropylene (PP) plastic.		
6	Color	White or semi-transparent		
7	Surface Finish	Must have a smooth, non-porous finish that is easy to wash (to prevent milk or bacterial retention).		
8	Chemical Resistance	Resistant and non-reactive/insoluble to CMT Reagent, detergents, and disinfectants		
9	Easy Excess Milk Removal	Designed, when the paddle is tilted at approximately 45°, excess milk drains equally from all 4 cups, leaving exactly the required 2 ml sample for testing.		
10	Durability/ Shatter Resistance	Made of strong plastic that will not shatter or break even if dropped on the farm floor		
11	Cleaning	Wash immediately after use with clean drinking water. Warm water and mild detergent can be used		
12	Drying	After washing, dry upside down in a shaded area out of direct sunlight (excessive sunlight exposure can cause the plastic to weather or become brittle quickly).		
13	CMT Bottle / Capacity	500 ml – 1,000 ml (Ideal for small to medium-scale dairy farms in Sri Lanka).		
14	CMT Bottle /Pump Mechanism	Must feature a calibrated dispenser pump designed to discharge exactly 2 ml per stroke (CMT testing requires 2 ml of reagent mixed with 2 ml of milk). Must allow quick, easy squirting into all 4 cups of the paddle with a single push/squeeze per cup.		
15	CMT Bottle/Graduation Marks	Must feature clear external volume level markings at 50 ml / 100 ml increments to easily check remaining reagent levels.		
16	CMT Bottle/Material	High-Density Polyethylene (HDPE) or Polypropylene (PP) plastic		
17	CMT Bottle/Heat Resistance	Made of heat-resistant plastic (up to 60°C) that maintains structural integrity without warping under high ambient temperatures (30°C – 35°C) in Sri Lanka.		

8. Specifications for Formic Acid (2.5L container 320 nos)

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Chemical Name	Formic Acid		
2	Chemical Formula	HCOOH		
3	Purity / Concentration	85% Minimum		
4	Physical State	Clear, colorless liquid with a pungent, strong odor		
5	Volume	Net Volume 2.5 Liters		
6	Container Material	High-Density Polyethylene (HDPE) – Grade 2 (Acid-resistant, heavy-duty plastic).		
7	Container	2 lids		
8	Product Details	Batch Number (Batch No), Date of Manufacture (DOM), Date of Expiry (DOE),		
9	Thermal Stability	Made of heat-resistant HDPE to maintain structural container integrity without warping under high ambient temperatures (30°C – 35°C) in Sri Lanka		
10	Storage	As a hazardous chemical, store in a well-ventilated, dry, and shaded area away from direct sunlight and out of reach of children.		
11	Personal Protective Equipment	Always wear acid-resistant gloves, safety goggles, and a protective mask during handling.		

g. Specifications for Pregnancy diagnosis test kit -15000 Nos

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Indication	Bovine		
2	Form	Rapid test kit		
3	Method	Test is done Using whole milk or blood/Plasma or serum of the animal		
4	Facility	Pregnancy diagnosis test kit can be used 28 days after the insemination and through out the rest of the pregnancy period. Test devices should be consisted with Buffer, disposable droppers and test device. Test time 15 minute		
5	storage	Store under room temperature		
6	Accuracy rate	Over 98 %		
7	Shelf life	2 years		
8	Presentation	as single pack		
9	leaflet	Should be enclosed		

10. Specifications for Distilled Water (22,500L)

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Purity Grade	Laboratory / Medical Grade (Double Distilled / Pure Distilled Water).		
2	Total Dissolved Solids (TDS)	1–2 ppm (Essentially mineral-free).		
3	pH Value	5.5–7.0 (Slightly acidic due to absorption of atmospheric carbon dioxide)		
4	Physical Appearance	Pure, clear, colorless liquid free from odor, color, or particulate matter.		
5	Volume	Net Volume 5 Liters		
6	Container Material	Heavy-duty High-Density Polyethylene (HDPE) or food-grade PET plastic can.		
7	Chemical Leaching Prevention (BPA-Free)	Must be made of BPA-free, medical-grade plastic that does not leach chemicals into the water even under high temperatures (30°C–35°C).		
8	Storage	Store tightly closed in a dry, cool, and shaded area away from direct sunlight (exposure to sunlight may promote algae growth inside).		
9	After Opening	Consume within a short period after opening to minimize the risk of environmental contamination.		

11. Specifications for Laboratory Grade Teepol (450I)

S. No.	Description	Required Specifications	Bidders Specifications	
			Yes / No	If "No" Indicate Your offer
1	Grade	Laboratory / Analytical / Industrial Cleaning Grade		
2	Active Ingredients	Sodium Lauryl Ether Sulfate (SLES) and Non-ionic Surfactants (Phosphate-Free).		
3	Active Matter	12%–15% Minimum.		
4	pH Value	6.5–7.5 (pH Neutral – prevents scratching, etching, or degradation of glass or plastic apparatus)		
5	Physical Appearance	Clear, viscous yellow or pale green liquid		
6	Residue-Free Rinsing	After washing and rinsing with purified water (Distilled / Deionized Water), no film or chemical residue must remain on the glassware (<i>to prevent interference with analytical and experimental results</i>).		
7	Phosphate-Free	Must feature a phosphate-free formulation to prevent sample contamination in microbiological and water testing laboratories		
8	Solubility	Must be 100% instantly soluble in distilled water		
9	Packaging Capacity	1 Liter, 2.5 Liters, and 5 Liters heavy-duty HDPE plastic containers.		
10	Cap	Leak-proof Screw Cap		
11	Storage	Store at room temperature between 15°C–30°C in a shaded area away from direct sunlight.		
12	Shelf Life	24 months (2 years) from the date of manufacture when stored properly		