



**ROYAL GOVERNMENT OF BHUTAN
MINISTRY OF AGRICULTURE
DEPARTMENT OF LIVESTOCK**

NATIONAL HIGHLAND RESEARCH & DEVELOPMENT CENTER, BUMTHANG

OPEN TENDER DOCUMENT FOR SUPPLY OF:

Package I: List of Equipment/Items/ Consumables required for establishment of yak semen processing lab at Haa Yak Farm, Chanaphu

Package II: Beekeeping Equipment

Package III: Yak Wool Shearing Shear

FOR ONE YEAR (FY 2022-2023)

CHECK LIST

1. Terms and conditions
2. Valid license/Tax Clearance Certificate
3. Earnest Money
4. Quotation rate column should be checked before submission.
5. Original documents and copies properly marked in each envelop with sealed
6. Attached leaflet/pamphlet of the items. Should be properly marked with label/no. against each individual item.

Note: The Tender documents will not be excepted if any of the above documents are missing.

Terms and Conditions:



1. The NHRDC, Jakar tender committee (TC) shall not be bound to accept the lowest or any particular tender. It shall have the right to reject in part or in whole if any or all tender without assigning any reasons.
2. The Tender documents can be obtained from the Administration section at Nu. 300/- with effect from August 17. 2022 or can download from MoAF website.
3. Sealed quotation should be filled with the firms quotation form and addressed to the Program Director, NHRDC, Jakar, Bumthang.
4. Please quote the rate of materials which could be supplied by your firm only, quality/genuineness of the materials will be the primary criteria for award of the supply order.
5. The sealed quotation should reach **on or before August 31, 2022 at 10.30am**, and shall be opened on the same date at 2.30PM at NHRDC's meeting hall.
6. Earnest Money deposit (EMD) of Nu. 30,000.00 should be submitted in draft drawn in favour of Program Director NHRDC, Jakar, should accompany the bid.
7. The quotation without earnest money deposit will not be entertained.
8. The rate should be inclusive of all Taxes and delivered at NHRDC, Jakar, Bumthang
9. The rate should be valid for the period of one year
10. Any materials not conforming to the specification shall be rejected by the Tender Committee and will be returned at the supplier's cost.
11. Supply of materials shall be completed on or before 45 days from the date of issue of supply order, failing to supply the materials within the stipulated date, the liquidated damage/penalty shall be imposed as per the procurement norms.
12. Your bill/invoice for the full/port quality may be submitted to this office in favour of Program Director. The payment shall be made accordingly as per rule.
13. EMD will be forfeited, in case the bidder cannot supply the materials at the quoted rate.
14. Sealed quotation should have enclosed the BIC code No. copy of Valid Trade license and Tax Clearance Certificate as per tender procedure.
15. The purchaser reserves the right in all respects,
16. In the event of dispute over the issues not covered by the above terms and Conditions, the Procurement Rules and Regulations 2019 shall be referred to and its content with regards to the situation will be considered final and binding.
17. The decision of the tender committee is final and binding.
18. In each and every page there should be seal and signature.
19. Follow check list mention in first page



Package I: List of Equipment/Items/ Consumables required for establishment of yak semen processing lab at Haa Yak Farm, Chanaphu

Sl #	Particulars	Specification	Unit	Price/Pcs/set /nos./kg	Remarks
1	Water Distiller Set	Water Distiller AC - L8, Distillation Capacity 8 Litres per hour, Tank and heating element made from stainless steel, External case made from Epoxy covered steel, Easily dismantled for cleaning and service, All seals made from Silicon, In case of over temperature or low water supply, a safety thermostat cuts power to the heater, Water supply tube 3/4" mm, Distillation water tube connection 012 mm, Voltage 230 V / 50/60 Hz, Control Panel Illuminated power switch, Safety switch thermostat with rearm system			
2	Specto Photometer for determining sperm concentration	Photometer SDM 6 with integrated printer and touch screen display, Used to determine semen concentration for bovine incl. dose calculation. Program for display of extinction. Serial interface for data transfer. Digital display: result in billion of sperm/ml. Print out includes the following data: sperm quality and quantity, volume of diluent required and sperm per dose. 110 - 230 V/ 50 - 60 Hz.			
3	Semen Diluter	Microlab 500 Diluter/Dispenser System for accurate dilution of bovine semen Consist of Reagent/Diluent Syringe: 25 mL to 25 mL (TLL- or TLLX-type), Reagent/Diluent Volume Range: 1 mL–25,000 mL, Sample Syringe: 25 mL to 1 mL (DX-type), Sample Volume Range: 1 mL–1,000 mL, Accuracy and Precision: ³ 99% within 1% at 10% of syringe stroke, Resolution: .1% of syringe drive, Volume Increments: .1% of total syringe volume; adjustable, Speed: 1 to 250 seconds per full syringe stroke; adjustable			

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4		Cuvette for SDMS photometer 4 ml (100/pkt)			
5	Spare parts for Specto Photometer & Semen Diluter	Pipette for dilutor, micropipette tip, 40 µl (1000/pkt)			
6		Paper roll for SDMS 5, 6 rolls/pkt, Spectrophotometer Printer Paper rolls for Printing paper used with Spectrophotometer SDMS 5			
7	BioXCell, animal protein free Semen extender	Freezing Media for Bovine semen, 100 ml, Animal protein free Bovine Semen Extender, contains an antibiotic mix of Lincomycin, Spectinomycin, Gentamycin and Tylosin.			
8	OptiXcell, animal protein free Semen extender	Freezing Media for Bovine semen, 250 ml, Animal protein free Bovine Semen Extender, contains an antibiotic mix of Lincomycin, Spectinomycin, Gentamycin and Tylosin.			
9	ANDROMED, animal protein free medium for bull semen	Egg yolk free medium for bull semen containing phospholipids, TRIS, citric acid, sugars, antioxidants, buffers, glycerol and purest water. Standard version contains antibiotics according to the EC Directive 88/407 (Tylosin, Gentamicin, Spectinomycin, Lincomycin)			
10	Oxyfree (Antibiotic) II	Compatible & recommended for use with Bioxcell semen extender, 50 gm vial			
11	Hand sanitizer	Liquid type, 500 ml			
12	Ezee	For washing lab appliances			
13	Surf	Surf, Kg			
14	Soap	Life bouy soap			
15	Liquid soap	Liquid Soap Life bouy			
16	Tissue Paper (roll)	Thick and good quality			
17	Napkin Paper (pkt)	Napkin Paper, pkt			
18	Multi Plug with power indicator	Multi Plug with power indicator, 16 amp			



19	Extension Code	Heavy duty, 16 Ampers, 230 V, Cable length 8- 10 meters for LN2 Plant			
20	Lab Coat	Offers fuller length protection, suitable for laboratory works, Features d-piece neck, three practical pockets with concealed stud front for a professional look. Durable polyester/cotton construction, long sleeve, Kelly green colour			
21	Disposable lab coat	Made up of non-woven fabric, polythene plastic with elastic rib on sleeves and velcro for closure, white colour, excellent quality fabric			
22	Disposable Lab Cap	For biosecurity at the Laboratory			
23	Face Mask	Surgical / medical face mask			
24	Lab Disinfectant	Anti-Microbial laboratory disinfectant With Scent, 5 Litres Jerry can			
25	Laboratory Scissors	4 cm Stainless Steel Medical Surgical Straight Scissors			
26	Surgical gloves	Quality Latex Examination Disposable Medical Hand Gloves, Pack of 100 Pieces, White, Medium size			
27	Bull Nose ring	Bull Nose ring, 2.5 inches steel			
28	Sodium Chloride	Common salt, Anhydrous, free flowing, ACS reagent >99%			
29	Glycerol	For Molecular Biology / Bovine Semen processing, >98% purity			
30	Potassium Permanganate Powder	20 gm powder in one packet			
31	Eosin water soluble Powder	To stain and differentiate between dead and living spermatozoa			
32	Nigrosin water soluble powder	To stain and differentiate between dead and living spermatozoa			
33	Emmersion oil	For Microscopy			
34	Citric Acid Powder	Anhydrous, suitable for cell culture			

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35	Ponderosa chair	Rolling chair with 5-point base style. Steel, hardwood, nylon & foam with pneumatic height adjustment lever			
36	Lab stool	Metal lab stool with thick seat and welded foot ring.			
37	Water Boiler	Electric 5 ltrs.			
38	Portable Solar- Powered Phone Charger	-25000mAh power bank that can be charged with alternating current (AC) or solar power. It should be able to fully recharge most cell phone batteries about eight times -Waterproof, dustproof and shockproof solar charger -Build-in battery bank -Power: 20.0 watts-60 watts, weight: 100g to 1000g, Ports: Two USB (type A and C) ports for both android and IOS and one carabiner			

Package II: Beekeeping Equipment					
Sl. No.	Particulars	Specification	Unit	Rate (Nu)	Remarks
1	Safety work gloves	Brand: Gemisky, Mateail : cotton, Size: Medium, Color white			
2	Safety work gloves	Brand: Gemisky, Mateail : cotton, Size: Large, Color white			
3	Safety work gloves	Brand: Gemisky, Mateail : cotton, Size: Extra large, Color white,			
4	Top Grade vetus original lash extension Tweezers	Stainless steel 302, Tip type: curved, Specificatio: 115mm, Style: curved, Brand: Gemisky			
5	Household Rubber latex gloves	Size: Medium, Color yellow, Outer material : Rubber, Thickness: Medium, Brand: Handa, Material: Smooth Lining Latex			
6	Household Rubber latex gloves	Size: Large Color yellow, Oute material : Rubber, Thickness: Medium, Brand: Handa, Material: Smooth Lining Latex,			

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7	Household Rubber latex gloves	Size: Extra large, Color yellow, Outer material : Rubber, Thickness: Medium, Brand: Handa, Material: Smooth Lining Latex			
8	Nitrile Glove	Model No: DSDJ-1001-2, Type; Powder free, Color: Blue, Disposable, Size: Medium			
9	Nitrile Glove	Model No: DSDJ-1001-2, Type; Powder free, Color: Blue, Disposable, Size: Large,			
10	Torch Lighter	Brand name : Oceantorch, Model Number: WS-512C, Shape : Shape of Gun, Style; Flame, Size Medium			
11	No graft Queen rearing Kit for Apis mellifera	4 pcs larvae rearing frame, 2 pcs frame cage, 4 pcs royal jelly frames, 60 pcs royal jelly cup sheets, 120 pcs larva rearing cell sheets. Size 485mm*23mm, Brand name: Benefit bee			
12	Auto retractable knife	Blade material: Steel, Brand name: ZHUOMUNIAO, Model Number: X8224 Y2, Handle material: Plastic, Plastic ABS, Blade size: 83*9*0.4mm			
13	Digital Weather station clock	Brand: AcuRite 75077A3M, Dimension: 1 x 7.9 x 6.2 inches, Display type: LCD			
14	Bee feeder	Brand: dingdapeng, Material: plastic, Type: duckbilled feeding system suitable for most beverage bottles.			
15	Nicot queen rearing kit	Brand: China Apiculture, A kit includes: 1 * Queen Rearing Box 115 * Queen Cell Cup 1, 115 * Queen Cell Cup 2 50 * Queen Cell Holder 1, 50 * Queen Cell Holder 1 20 * Queen Cage			
16	Empty round small plastic cream cosmetic skincare packaging jar	Material: Plastic, Base material: PP, Brand Name: JINQUE, Model number: JQ001, Color: White and opaque. Cap material: PP			

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17	Disposable plastic box with cap for comb honey packaging	Size 150*140*60mm, Brand: RENHAO, Model: RH15 series			
18	Stainless steel honey comb square cutter	Brand: Greenviv, Dimension: 14 cm length* 12 cm breath 6cm height.			
19	Royal Jelly Pen	Food grade Plastic made Royal Jelly Pen. Model no. 04030.			
20	Portable cold vaccine carrier box	Food grade portable cold vaccine carrier box that is Water proof, insulated and thermal. Capacity 18 liters.			
21	Honey Jar	500ml capacity, hexagonal in shape, Iron cover, Model YOC-003			
22	Honey Jar	280ml capacity, hexagonal in shape, Iron cover, Model YOC-003			
23	Bee pollen	Mixed rape bee pollen			
24	Bee breed	Packed ready to feed the bees			
25	Bee feeder	2 liters plastic bowl			
26	Royal jelly cup strip,	made of food grade silicon/plastic			
27	Honey storage Barrel	Made of food grade rigid plastic with top lid lock system with rubber washer (50 Lt).			
28	Beekeeping protective veil	for Apis mellifera (European honey bees), European made / sample to provide if local made			
29	Bee smoker	Content Height :19cm Content Diameter: 10.4cm-made of stainless steel			
30	Hive tool	10 inch long-J hook style-made of spring steel			
31	Queen excluder	For Apis mellifera- Food grade plastic made			
32	Pure organic bee wax comb foundation sheet	Size: Full deapth- 422 mm x 212 mm, Thickness : 1-1.5mm. For comb honey production.			



33	Pure organic bee wax comb foundation sheet	Size: Full depth- 422 mm x 212 mm, Thickness : 5mm for liquid honey production			
34	Full-fledged Apis mellifera colony	New marked queen, Minimum 6 frame brood, Four frame feed store (pollen and honey) one build in super, bottom board, top cover			
35	Apis mellifera nucleus colony	Three frame brood, two frames feed (pollen and honey) store with new marked queen, top cover, bottom board			
36	Australian type flow hive auto plastic frame set	Langstroth size 7 plastic matrix frame , one unlocking key, seven flow tubes			
37	Semi-Automatic Honey Bottle Filler Machine	Appropriate to fill all types of jars, portable, electrical operated, made in German.			
38	Locally made Langstroth size flow hive wooden body	Samples will be provided by NHRDC, Bumthang			
39	Locally made Apis mellifera shallow super frame	Without wire. With 5mm groove on top and bottom bar to insert the foundation sheet. Sample will be provided by NHRDC			
40	Stainless steel kitchen knife set	12 pieces kitchen knife with block set			
41	Bee hive frame plastic feeder	Brand: Benefitbee, Size: Length: 483mm, Height: 230mm, thickness: 80mm, Volume: 6 litre, Material: Food grade Plastic,			
42	Chopping board	Shape: Rectangle, Size: 450mm*610mm*200mm. 100% ecofriendly nontoxic antimicrobial material made from food grade plastic.			

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Package III: Yak Wool Shearing Shear, Sustainable Unit

Sl. No.	Particular	Specification	Unit	Cost (Nu.)	Remarks
1	Yak Wool Shearing Shear	Right handed hand shear. Color: any type Blade Length: 14cm Total Length: 29 cm			
2	Yak Wool Shearing Shear	Right handed hand shear Color: any type Blade length: 16 cm Total length: 34 cm			

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