GOVERNMENT OF THE DEMOCRATIC SOCIALIST

REPUBLIC OF SRI LANKA

BID DOCUMENT FOR SUPPLY OF CATTLE & BUFFALO EMBRYOS

BID REFERENCE NUMBER: NLDB/06/01/EMBRYOS/2024
Date : 22/07/2024

NATIONAL LIVESTOCK DEVELOMENT BOARD
NO. 40, NAWALA ROAD, NARAHENPITA,
COLOMBO 5

BID DOCUMENT FOR SUPPLY OF CATTLE & BUFFALO EMBRYOS FOR THE NATIONAL LIVESTOCK DEVELOMENT BOARDFOR 2024

BID REFERENCE NUMBER: NLDB/06/01/EMBRYOS- 2024

GENERAL CONDITIONS FOR SUPPLY OF CATTLE & BUFFALO EMBRYOS

The National Livestock Development Board (NLDB), Sri Lanka which is the largest government owned livestock organization of Sri Lanka established in 1973. It maintains 32 livestock farms for different livestock types for breeding purposes at present and 04 of them are maintained as large scale European breed Dairy Cattle farms supplying the demand of breeding materials of local farmers.

Sealed Bids are hereby invited form **international suppliers** by the General Manager, National Livestock Development Board, No. 40, Nawala Road, Narahenpita, Colombo 5, Sri Lanka, from cattle & Buffalo Embryos suppliers for supply of following quantities of embryos for the National Livestock Development Board's Farms.

Type of Embryos	Quantity
Cattle	
Jersey	100
Friesian	100
Sahiwal	100
Gir	100
Buffalo	
Murrah	100
Nili Ravi	100

- Port of Disembarking: Bandaranayake International Airport, Colombo, Sri Lanka
- Freight Terms : CPT(AIR) USD ($) / EURO
- Terms of Payment : Letter of Credit

(a) Specifications : Jersey Embryos - As per the schedule 'A'
Friesian Embryos - As per the schedule 'B'
Sahiwal Embryos - As per the schedule 'C'
Gir Embryos - As per the schedule 'D'
Murrah Embryos - As per the schedule 'E'
Nili Ravi Embryos - As per the schedule 'F'

(B) Annexures : 01 – Price Schedule

1. VALIDITY PERIOD OF BIDS

Prices offered by the suppliers should be valid minimum period of 90days after the opening date of Bids for acceptance.

2. CLOSING OF BIDS

Envelopes containing sealed quotations shall be *marked* ***"Bids for the supply of Cattle & Buffalo Embryos for the NLDB"*** addressed to the "**Chairman – Procurement Committee, National Livestock Development Board, No. 40, Nawala Road, Narahenpita, Colombo 5, Sri Lanka"** or should be sent to the e-mail address **supplies@nldb.lk** on or before 2.30 p.m.(Sri Lankan Time) on 02nd September 2024. Bids shall be closed at 2.30 p.m. Sri Lankan Time) on 02nd September 2024 and opened immediately after the closing time at the National Livestock Development Board, No. 40, Nawala Road, Narahenpita, Colombo 5. The Bidder or his accredited agent will be permitted to be present at the time of the opening of the Bids.

3. LATE QUOTATIONS

Late Bids will not be accepted and returned back unopened.

4. MODE OF PAYMENT

Payment terms will be by confirmed irrevocable Letter of Credit at sight, unless otherwise agreed. Suppliers should strictly conform to their terms and condition of our indents and Letter of Credit and should not request amendments. If confirmed L/C required, confirmation charges should be on bidder's accounts.

Orders may have to be cancelled and performance bond (if applicable) forfeited if suppliers request amendments / extensions to Letter of Credit.

5. METHOD OF PRICING AND SUBMISSION OF DOCUMENTS

All the documents including general conditions should be forwarded duly perfected before closing date and time as per the Condition No. 03

6. RIGHT OF THE PROCUREMENT COMMITTEE

a) The Procurement Committee of the NLDB reserves the right to reject any or part of quotation and right to accept any part of the quotation and to order only such quantity as per the requirement.

b) The Board is not responsible for re-imbursement of any payment for additional expenses or a loss which may be incurred by any supplier on supplying of Semen.

c) Decision of the National Livestock Development Board would be final and conclusive.

Dr.K.G.J.S.Disnaka
GENERAL MANAGER
NATIONAL LIVESTOCK DEVELOPMENT BOARD

Date :.....

Name and Address of the Supplier :.....

Signature& seal of the Supplier :.....

Annexure 01

The Chairman,
Procurement Committee,
National Livestock Development Board,
No:40, Nawala Road,
Narahenpita
Colombo - 05

Price schedule

Fill the below table & necessary fields in this document

Item No	Description	Qty (Nos)	Unit Price excluding taxes (USD/Euro)	Unit price with taxes (USD/Euro)	Total Value with taxes (USD/Euro)
	Cattle				
01	Jersey	100			
02	Friesian	100			
03	Sahiwal	100			
04	Gir	100			
	Buffalo				
05	Murrah	100			
06	Nili Ravi	100			
	Freight Chargers				
	Insurance				
	Semen Container Chargers				
	Other Chargers				
	Total Cost				

1) The total price of the Bid **after Taxes,** any discounts offered and other chargers is:
In words:
.....
.....

In figures: .....

2) We undertake to supply the above items on terms stated overleaf.
3) We agree to complete for the supply within ..... Days from the offer.
4) We agree to all the conditions in the document.

....

Name of the Company **Date** **Signature of the Bidder**

Schedule - A

Specification for Jersy Embryos

Embryos required -

	Requirement	Please mention agreed/not agreed	Evident Document/ details are attached (Yes/No)	Remarks
1	**Embryo Quality Standards**			
	Grading: Excellent (or A Grade) (According to the guidelines of international embryo transfer society) - Embryos will exhibit exceptional morphology with consistent cell size distribution and a well-defined blastocoel cavity			
	Developmental Stage: Blastocyst stage embryos are preferred for their demonstrated superior viability following cryopreservation.			
	Age: 7 Days Old			
2	**Donor Dam Specifications**			
	Production Performance: Dams must possess Estimated Breeding Values (EBVs) with high reliability that significantly exceed breed averages. Specific EBV thresholds should be tailored to individual breeding objectives (e.g., Milk yield ≥ +350 kg, Fat yield ≥ +30 kg, Protein yield ≥ +25 kg).			
	Health Certification: Dams and donor herds must be certified free of diseases relevant to the importing country and maintain strict biosecurity and herd healthprotocols.			
	Conformation: Dams must possess excellent udder and feet & leg conformation, substantiated by: -Superior linear type scores within keyudder, feet, and leg composite traits. -Favorable classification reports, if available.			

	Reproductive History: Preference for dams with a proven track record of successful pregnancies and trouble-free calvings.			
3	**Sire Specifications**			
	Genetic Merit: Sires must exhibit EBVs (with high reliability) that meet or exceed breeding objectives for production and conformation traits.			
	Type Improvement: Emphasis on sires with a demonstrated ability to transmit superior udder, feet, and leg conformation.			
	Health Certification: Sires must be certified free of known deleterious genetic defects, including but not limited to BLAD, DUMPS, Citrullinemia, and Factor XI. Screening for additional genetic conditions are strongly recommended.			
4	**Pedigree and Documentation**			
	Lineage: Embryos must derive from pedigrees demonstrating a minimum of four generations without common ancestors for both the dam and sire.			
	Comprehensive Documentation (dam, sire, grandparents):			
	-Names and official herd registration numbers. -Production records (lactation yields, components) and corresponding EBVs with reliability values. -Linear type scores, classification reports, or relevant type evaluations. -Health certifications and genetic testing results.			

5	**Cryopreservation Specifications:**			
	Type of Preservation: Deep Frozen			
	Freezing Medium: Ethylene Glycol - A well-established cryoprotectant proven effective for long-term storage of bovine embryos.			
	Straw Size: 0.25 ml Mini Straw - Standard industry format for efficient embryostorage and handling.			
	Storage and Transport: Liquid Nitrogen (-196°C) - Essential for maintaining embryo viability during storage and transportation.			
6	**Additional Considerations**			
	Disease-Free Status: All embryos will be accompanied by a comprehensive health certificate from a reputable veterinary laboratory. This certificate will verify freedom from major infectious diseases and genetic abnormalities and will ensure compliance with all disease-free requirements outlined in the healthprotocol established by the country's Veterinary Regulatory Division.			
	Herd Registration: Donors must originate from officially registered herds. Suppliers must provide Certificates of Registration, pedigrees, and production records.			
	Language: All documentation must be provided in English.			

Schedule - B

Specifications for Friesian Embryos

Embryos required -

	Requirement	Please mention agreed/not agreed	Evident Document/ details are attached (Yes/No)	Remarks
1	**Embryo Quality Standards**			
	Grading: Excellent (or A Grade) (According to the guidelines of international embryo transfer society) - Embryos will exhibit exceptional morphology with consistent cell size distribution and a well-defined blastocoel cavity			
	Developmental Stage: Blastocyst stage embryos are preferred for their demonstrated superior viability following cryopreservation.			
	Age: 7 Days Old			
2	**Donor Dam Specifications**			
	Production Performance: Dams must possess Estimated Breeding Values (EBVs) with high reliability that significantly exceed breed averages. Specific EBV thresholds should be tailored to individual breeding objectives (e.g., Milk yield ≥ +500 kg, Fat yield ≥ +25 kg, Protein yield ≥ +20 kg).			
	Health Certification: Dams and donor herds must be certified free of diseases relevant to the importing country and maintain strict biosecurity and herd healthprotocols.			

	Conformation: Dams must possess excellent udder and feet & leg conformation, substantiated by: -Superior linear type scores within keyudder, feet, and leg composite traits. -Favorable classification reports, if available.			
	Reproductive History: Preference for dams with a proven track record of successful pregnancies and trouble-free calvings.			
3	**Sire Specifications**			
	Genetic Merit: Sires must exhibit EBVs (with high reliability) aligning with breeding objectives for production traits, especially milk yield.			
	Type Improvement: Emphasis on sires with a demonstrated ability to transmit superior udder, feet, and leg conformation.			
	Health Certification: Certified free of known deleterious genetic defects, including but not limited to BLAD, DUMPS, Citrullinemia, Factor XI, CVM, and Brachyspina. Additional screening is strongly recommended.			
4	**Pedigree and Documentation**			
	Lineage: Embryos must derive from pedigrees demonstrating a minimum of four generations without common ancestors for both the dam and sire.			
	Comprehensive Documentation (dam, sire, grandparents):			

	-Names and official herd registration numbers. -Production records (lactation yields, components) and corresponding EBVs with reliability values. -Linear type scores, classification reports, or relevant type evaluations. -Health certifications and genetic testing results.			
5	**Cryopreservation Specifications:**			
	Type of Preservation: Deep Frozen			
	Freezing Medium: Ethylene Glycol - A well-established cryoprotectant proven effective for long-term storage of bovine embryos.			
	Straw Size: 0.25 ml Mini Straw - Standard industry format for efficient embryostorage and handling.			
	Storage and Transport: Liquid Nitrogen (-196°C) - Essential for maintaining embryo viability during storage and transportation.			
6	**Additional Considerations**			
	Disease-Free Status: All embryos will be accompanied by a comprehensive health certificate from a reputable veterinary laboratory. This certificate will verify freedom from major infectious diseases and genetic abnormalities and will ensure compliance with all disease-free requirements outlined in the healthprotocol established by the country's Veterinary Regulatory Division.			
	Herd Registration: Donors must originate from officially registered herds. Suppliers must provide Certificates of Registration, pedigrees, and production records.			
	Language: All documentation must be provided in English			

Schedule - C

Specifications for Sahiwal Embryos

Embryos required -

	Requirement	Please mention agreed/not agreed	Evident Document/ details are attached (Yes/No)	Remarks
1	**Embryo Quality Standards**			
	Grading: Excellent (or A Grade) (According to the guidelines of international embryo transfer society) - Embryos will exhibit exceptional morphology with consistent cell size distribution and a well-defined blastocoel cavity			
	Developmental Stage: Blastocyst stage embryos are preferred for their demonstrated superior viability following cryopreservation.			
	Age: 7 Days Old			
2	**Donor Dam Specifications**			
	Production Performance: Dams must possess Estimated Breeding Values (EBVs) with high reliability that significantly exceed breed averages. Specific EBV thresholds should be tailored to individual breeding objectives (e.g., Milk yield ≥ +500 kg, Fat yield ≥ +25 kg, Protein yield ≥ +20 kg).			
	Health Certification: Dams and donor herds must be certified free of diseases relevant to the importing country and maintain strict biosecurity and herd healthprotocols.			

	Conformation: Dams must possess excellent udder and feet & leg conformation, substantiated by: -Superior linear type scores within keyudder, feet, and leg composite traits. -Favorable classification reports, if available.			
	Heat Tolerance: Emphasize dams with a demonstrated ability to produce and thrive under high heat-stress conditions. This may be evidenced by: Production records are maintained in hot climates. EBVs or indices specifically addressing heat tolerance, if available.			
	Parasite Resistance: If available, prioritize dams with favorable EBVs or indices for parasite resistance, capitalizing on Sahiwal's known resilience.			
	Reproductive History: Preference for dams with a proven track record of successful pregnancies and trouble-free calvings.			
3	**Sire Specifications**			
	Genetic Merit: Sires must exhibit EBVs (with high reliability) aligning with breeding objectives for production traits, especially milk yield.			
	Type Improvement: Emphasis on sires with a demonstrated ability to transmit superior udder, feet, and leg conformation.			
	Health Certification: Certified free of known deleterious genetic defects,			

	including but not limited to BLAD, DUMPS, Citrullinemia, Factor XI, CVM, and Brachyspina. Additional screening is strongly recommended.			
4	**Pedigree and Documentation**			
	Lineage: Embryos must derive from pedigrees demonstrating a minimum of four generations without common ancestors for both the dam and sire.			
	Comprehensive Documentation (dam, sire, grandparents): -Names and official herd registration numbers. -Production records (lactation yields, components) and corresponding EBVs with reliability values. -Linear type scores, classification reports, or relevant type evaluations. -Health certifications and genetic testing results.			
5	**Cryopreservation Specifications:**			
	Type of Preservation: Deep Frozen			
	Freezing Medium: Ethylene Glycol - A well-established cryoprotectant proven effective for long-term storage of bovine embryos.			
	Straw Size: 0.25 ml Mini Straw - Standard industry format for efficient embryostorage and handling.			
	Storage and Transport: Liquid Nitrogen (-196°C) - Essential for maintaining embryo viability during storage and transportation.			

6	**Additional Considerations**			
	Disease-Free Status: All embryos will be accompanied by a comprehensive health certificate from a reputable veterinary laboratory. This certificate will verify freedom from major infectious diseases and genetic abnormalities and will ensure compliance with all disease-free requirements outlined in the healthprotocol established by the country's Veterinary Regulatory Division.			
	Herd Registration: Donors must originate from officially registered herds. Suppliers must provide Certificates of Registration, pedigrees, and production records.			
	Language: All documentation must be provided in English.			

Schedule - D

Specifications for Gir Embryos

Embryos required -

	Requirement	Please mention agreed/not agreed	Evident Document/ details are attached (Yes/No)	Remarks
1	**Embryo Quality Standards**			
	Grading: Excellent (or A Grade) (According to the guidelines of international embryo transfer society) - Embryos will exhibit exceptional morphology with consistent cell size distribution and a well-defined blastocoel cavity			
	Developmental Stage: Blastocyst stage embryos are preferred for their demonstrated superior viability following cryopreservation.			
	Age: 7 Days Old			
2	**Donor Dam Specifications**			
	Production Performance: Dams must possess Estimated Breeding Values (EBVs) with high reliability that significantly exceed breed averages. Specific EBV thresholds should be tailored to individual breeding objectives (e.g., Milk yield ≥ +500 kg, Fat yield ≥ +25 kg, Protein yield ≥ +20 kg).			
	Health Certification: Dams and donor herds must be certified free of diseases relevant to the importing country and maintain strict biosecurity and herd healthprotocols.			

	Conformation: Dams must possess excellent udder and feet & leg conformation, substantiated by: -Superior linear type scores within keyudder, feet, and leg composite traits. -Favorable classification reports, if available.			
	Heat Tolerance: Emphasize dams with a demonstrated ability to produce and thrive under high heat-stress conditions. This may be evidenced by: Production records are maintained in hot climates. EBVs or indices specifically addressing heat tolerance, if available.			
	Parasite Resistance: If available, prioritize dams with favorable EBVs or indices for parasite resistance, capitalizing on Sahiwal's known resilience.			
	Reproductive History: Preference for dams with a proven track record of successful pregnancies and trouble-free calvings.			
3	**Sire Specifications**			
	Genetic Merit: Sires must exhibit EBVs (with high reliability) aligning with breeding objectives for production traits, especially milk yield.			
	Type Improvement: Emphasis on sires with a demonstrated ability to transmit superior udder, feet, and leg conformation.			
	Health Certification: Certified free of known deleterious genetic defects, including but not limited to BLAD, DUMPS, Citrullinemia, Factor XI, CVM, and Brachyspina. Additional screening is strongly recommended.			

4	**Pedigree and Documentation**			
	Lineage: Embryos must derive from pedigrees demonstrating a minimum of four generations without common ancestors for both the dam and sire.			
	Comprehensive Documentation (dam, sire, grandparents): -Names and official herd registration numbers. -Production records (lactation yields, components) and corresponding EBVs with reliability values. -Linear type scores, classification reports, or relevant type evaluations. -Health certifications and genetic testing results.			
5	**Cryopreservation Specifications:**			
	Type of Preservation: Deep Frozen			
	Freezing Medium: Ethylene Glycol - A well-established cryoprotectant proven effective for long-term storage of bovine embryos.			
	Straw Size: 0.25 ml Mini Straw - Standard industry format for efficient embryostorage and handling.			
	Storage and Transport: Liquid Nitrogen (-196°C) - Essential for maintaining embryo viability during storage and transportation.			
6	**Additional Considerations**			
	Disease-Free Status: All embryos will be accompanied by a comprehensive health certificate from a reputable veterinary laboratory. This certificate will verify freedom from major infectious diseases and genetic abnormalities and will ensure compliance with all disease-free requirements outlined in the healthprotocol established by the country's Veterinary Regulatory Division.			

	Herd Registration: Donors must originate from officially registered herds. Suppliers must provide Certificates of Registration, pedigrees, and production records.			
	Language: All documentation must be provided in English.			

Schedule - E

Specification for Murrah Embryos

Embryos required -

	Requirement	Please mention agreed/not agreed	Evident Document/ details are attached (Yes/No)	Remarks
1	**Embryo Quality Standards**			
	Grading: Excellent (or A Grade) - Embryos will exhibit exceptional morphology with consistent cell size distribution and a well-defined blastocoel cavity			
	Developmental Stage: Blastocyst stage embryos are preferred for their demonstrated superior viability following cryopreservation.			
	Age: 7 Days Old			
2	**Donor Dam Specifications**			
	Production Performance: Dams must possess Estimated Breeding Values (EBVs) with high reliability that significantly exceed breed averages. Specific EBV thresholds should be tailored to individual breeding objectives			
	Health Certification: Dams and donor herds must be certified free of diseases relevant to the importing country and maintain strict biosecurity and herd health protocols.			
	Conformation: Dams must possess excellent udder and feet & leg conformation, substantiated by:			
	-Superior linear type scores within key udder, feet, and leg composite traits. -Favorable classification reports, if available.			

	Reproductive History: Preference for dams with a proven track record of successful pregnancies and trouble-free calvings.			
3	**Sire Specifications**			
	Genetic Merit: Sires must exhibit EBVs (with high reliability) that meet or exceed breeding objectives for production and conformation traits.			
	Type Improvement: Emphasis on sires with a demonstrated ability to transmit superior udder, feet, and leg conformation.			
	Health Certification: Sires must be certified free of known deleterious genetic defects, including but not limited to BLAD, DUMPS, Citrullinemia, and Factor XI. Screening for additional genetic conditions is strongly recommended.			
4	**Pedigree and Documentation**			
	Lineage: Embryos must derive from pedigrees demonstrating a minimum of four generations without common ancestors for both the dam and sire.			
	Comprehensive Documentation (dam, sire, grandparents): -Names and official herd registration numbers. -Production records (lactation yields, components) and corresponding EBVs with reliability values. -Linear type scores, classification reports, or relevant type evaluations. -Health certifications and genetic testing results.			
5	**Cryopreservation Specifications:**			
	Type of Preservation: Deep Frozen			

	Freezing Medium: Ethylene Glycol - A well-established cryoprotectant proven effective for long-term storage of bovine embryos.			
	Straw Size: 0.25 ml Mini Straw - Standard industry format for efficient embryo storage and handling.			
	Storage and Transport: Liquid Nitrogen (-196°C) - Essential for maintaining embryo viability during storage and transportation.			
6	**Additional Considerations**			
	Disease-Free Status: All embryos will be accompanied by a comprehensive health certificate from a reputable veterinary laboratory. This certificate will verify freedom from major infectious diseases and genetic abnormalities and will ensure compliance with all disease-free requirements outlined in the health protocol established by the country's Veterinary Regulatory Division.			
	Herd Registration: Donors must originate from officially registered herds.			
	Suppliers must provide Certificates of Registration, pedigrees, and production records.			
	Language: All documentation must be provided in English.			

Specifications for Nill Ravi Embryos

Embryos required -

	Requirement	Please mention agreed/not agreed	Evident Document/ details are attached (Yes/No)	Remarks
1	**Embryo Quality Standards**			
	Grading: Excellent (or A Grade) - Embryos will exhibit exceptional morphology with consistent cell size distribution and a well-defined blastocoel cavity			
	Developmental Stage: Blastocyst stage embryos are preferred for their demonstrated superior viability following cryopreservation.			
	Age: 7 Days Old			
2	**Donor Dam Specifications**			
	Production Performance: Dams must possess Estimated Breeding Values (EBVs) with high reliability that significantly exceed breed averages. Specific EBV thresholds should be tailored to individual breeding objectives			
	Health Certification: Dams and donor herds must be certified free of diseases relevant to the importing country and maintain strict biosecurity and herd health protocols.			
	Conformation: Dams must possess excellent udder and feet & leg conformation, substantiated by:			
	-Superior linear type scores within key udder, feet, and leg composite traits. -Favorable classification reports, if available.			

	Reproductive History: Preference for dams with a proven track record of successful pregnancies and trouble-free calvings.			
3	**Sire Specifications**			
	Genetic Merit: Sires must exhibit EBVs (with high reliability) aligning with breeding objectives for production traits, especially milk yield.			
	Type Improvement: Emphasis on sires with a demonstrated ability to transmit superior udder, feet, and leg conformation.			
	Health Certification: Certified free of known deleterious genetic defects, including but not limited to BLAD, DUMPS, Citrullinemia, Factor XI, CVM, and Brachyspina. Additional screening isstrongly recommended.			
4	**Pedigree and Documentation**			
	Lineage: Embryos must derive from pedigrees demonstrating a minimum of four generations without common ancestors for both the dam and sire.			
	Comprehensive Documentation (dam, sire, grandparents): -Names and official herd registration numbers. -Production records (lactation yields, components) and corresponding EBVs with reliability values. -Linear type scores, classification reports, or relevant type evaluations. -Health certifications and genetic testing results.			
5	**Cryopreservation Specifications:**			
	Type of Preservation: Deep Frozen			

	Freezing Medium: Ethylene Glycol - A well-established cryoprotectant proven effective for long-term storage of bovine embryos.			
	Straw Size: 0.25 ml Mini Straw - Standard industry format for efficient embryo storage and handling.			
	Storage and Transport: Liquid Nitrogen (-196°C) - Essential for maintaining embryo viability during storage and transportation.			
6	**Additional Considerations**			
	Disease-Free Status: All embryos will be accompanied by a comprehensive health certificate from a reputable veterinary laboratory. This certificate will verify freedom from major infectious diseases and genetic abnormalities and will ensure compliance with all disease-free requirements outlined in the health protocol established by the country's Veterinary Regulatory Division.			
	Herd Registration: Donors must originate from officially registered herds.			
	Suppliers must provide Certificates of Registration, pedigrees, and production records.			
	Language: All documentation must be provided in English.			