



NANDANKANAN ZOOLOGICAL PARK

(PROJECT MANAGEMENT UNIT)

NOTICE No. 35/PMU/NKZP/2024 Date: 16/11/2024

QUOTATION CALL NOTICE

Procurement of equipment for zoo laboratory and zoo hospital, Nandankanan Zoological Park

Nandankanan Zoological Park, a premier zoological park located in Bhubaneswar, Odisha, invites sealed quotation from reputed, qualified, and experienced suppliers for the procurement of zoo laboratory equipment's for Zoo laboratory, Nandankanan Zoological Park, Bhubaneswar. The procurement is to be conducted as per the detailed specifications, terms, and conditions.

The quotation documents and detailed terms and conditions will be available in the website of Nandankanan Zoological Park i.e. www.nandankanan.org from 16th November, 2024 and last date of the receiving bid is 23rd November, 2024 12 Noon.

**Deputy Director
Nandankanan Zoological Park**



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(PROJECT MANAGEMENT UNIT)

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QUOTATION CALL NOTICE

Nandankanan Zoological Park, Bhubaneswar invites sealed quotation from OEM, authorized registered dealers, reputed and experienced suppliers/manufacturers for the procurement of equipment for zoo laboratory and zoo hospital.

The details and specifications of the equipment are as follows:

1. Specifications and Requirements:

I. All in one Desktop

Specifications:

- All-in-One PC 13th Gen Intel Core i5 27" (68.6cm) FHD 16GB RAM, 1TB SSD, Intel UMA Graphics, 710 White Wireless Keyboard and Mouse Combo (Windows 11 Home, MSO 21, Shell White, 6.72 Kg)

Quantity – 2 units

II. Dynamic pass box

Specification:

- Made up of SS-304 20 Gauge (1mm) thickness, WALL MOUNTED, SS Hanges, SS handle,
- PRE FILTER: YES
- FILTER: HEPA 0.3 micron & above particle retention
- Fully protected and glass cased LED and UV lights
- Door Interlocking System, Door Opening with Solid State Electronic
- Puff Insulated door with glass view
- FRONT & BACK SIDE SINGLE DOOR
- Pass box to be provided timer-controlled door opening
- SUPPLY BOX TYPE Mini pleat HEPA filter, efficiency 99.99%, 0.3mic
- UV & FL LIGHTS
- RETURN -Box type PRE FILTER - 10 mic Fresh air filter 5 micron

- CONTROL SYSTEM SINGLE PHASE - 230vac front & back side led display
- Certification: ISO 9001: 2015, ISO CLASS 5, CLASS 100
- Warranty: One year

Quantity – 2 units

III. Positive Pressure Module

Specification:

- Material of construction: Epoxy antimicrobial coated
- External Dimensions: 676L x 510B x 900H MM or larger
- Finish: Matt
- Rated flow in CFM:500
- Design & Classification: Both Side Loading Pre filters
- /Back Loading HEPA filters As per IEST – RP –CC002.2
- Cleanliness Class: ISO Standard 14644 – 1 - Class 5
- Noise Level: 60 Db at 1 Meter from the face of the filter
- Stages of filtration:
 - 1)Pre-Filters = 10 μ with an efficiency of 90% (Washable HDPE media in FRP PU Coated Frame)
 - 2) Mini pleat HEPA Filter Encased in Aluminium Frame Final \approx 0.3 μ with an efficiency of 99.995% (Microbial treated media) (HEPA Media: Ahlstrom Fabriano Srl. Italy) Power
- Supply &Service: Single phase 230V, 50Hz power supply
- Consumption: 180 Watts all services from Front, Back & Top.

Warranty: one year

Quantity – 1 units

IV. Automatic Shoe Cover Dispenser

Specification:

- Shoe cover capacity:100Pcs PE Shoe Cover
- Power supply: AC 220V 60HZ
- Size: L36W31H75CM/set
- Weight: 18KG /set, Color - WHITE
- Packing: 1 Pc per carton

Should supplied with 10 boxes (100 piece) sensor based disposable shoe cover packs compatible with Automatic shoe cover dispenser.

Warranty: one year

Quantity -3 units

V. AIR SHOWER

Specification:

- Material of construction: Stainless Steel 304 Mirror
- Finish 1mm Thickness
- Internal Dimensions: 800L x 930B x 1910H MM
- External Dimensions: 1300Lx1000Bx2180H MM)
- Finish: Mirror / Matt
- Wind Speed: >22m/s
- Noise: 70 db
- HEPA Filter: 99.99% efficiency at 0.3 Micron H-13
- Pre Filter: EU3 75%@2um
- Fan: 2 sets (0.75W 380V/50HZ)
- Nozzle: 16 pcs
- Door: SUS frame with half glass door
- Control Panel: 1 pcs
- Air Shower control System:
 - 1: Three side with air blow.
 - 2: Touchable screen display control board, Emergency stop button for all emergencies.
 - 3: Omron Infrared sensors and Schneider electric relay.
 - 4: Two side with big air volume fan, mini pleats
- HEPA Air filter for air purification,
- 5: Human invoice reminds each step, CE remark With air shower
- Power 380V/50HZ
- Air Shower Time: 0-99 Min (Adjustable)
- Lighting: 20W-1 nos.
- Consumption: 1000 Watt
- Power Supply & Service: Three phase 380V, 50Hz power supply
- All services from Front and Back
- Warranty: one year

Quantity -1 unit

VI. IVF workstation

Specification:

- Complete Body of Vertical Laminar Air Flow should be made of SS 304 food grade quality.
with mat finish Table Top base (18 guage Only) & Any SS Covers on back or table top should be of 20 - 21 guage.
- Temp Controlled Area : Surrounding Area of Stereo zoom and Inverted Microscope should be evenly heated and the heating area created by fixing flexible silicon heater of the required wattage beneath 6 mm Aluminium Plate of desired Size to Cover required Area and provide 37@ Temp at the SS Table Top.
- Pressure Gauge :
*** All the operations should be done with the help of Touch Digital Display of 7"
Screen having all the settings of Temperature and Blower Speed Control .
- Side Panels: 8 -10 mm Polycarbonate Hard Solid Clea or tampered glass on 2 sides
- Speed Controller: EC Blower of desired CFM & Static pressure having speed control or regulation with support of Remote Control .
- UV LAMP: 3 feet length 30 Watt
- Provision for mounting of one stereo zoom microscope and one inverted microscope. beneath stereo zoom microscope 6"*6", square glass heating stage with independent controls with Digital Display and Touch Operations .
- Provided with monitor 19" compatible with microscope cameras and softwares.
- Air Velocity: 250 CFM at 6" from face of the filter +/- 20 Feet Per Minute.
- Noise Level: Less than 60 Db at 1 Meter from the face of the filter
- Internal Dimensions (mm) (L x B x H):1220 x610 x572
- External Dimensions (mm):1320 x 1015 x 1450
- Size: 4 x2
- Combination filter of VOC & Pre-Filter : Top Loading Pre-filter Pre = 10μ each with efficiency of 90%
(washable HDPE media with FRP PU / Aluminium Flange .)
- Supply Filter: Mini Pleat HEPA Filter Efficiency 99.999% @ 0.3μm (H-14) High Efficiency Particulate Air.
- Motor Blower Assembly: Variable speed motor
 - Warranty: one year

Quantity – 1 Unit

VII. Horizontal Laminar Air Flow

Specification:

- SIZE OF THE WORKING TABLE: 4 X 2 X 2 FT.
- Horizontal Laminar Air Flow
- Microprocessor based switches and speed control.
- CONSTRUCTION: Anti-microbial powder coated (60 to 80 μ) galvanized iron sheet with epoxy polyester thermosetting sheet.
- SIDE GLASS: 6 mm float glass encased in stainless steel channels
- TABLE TOP: 1.2mm stainless steel 304 sheet.
- FRONT DOOR: Frameless gas spring loaded swinging type made of polycarbonate 6mm thickness.
- MOTOR BLOWER ASSEMBLY: variable speed motor mounted on PU coated FRP blower with aluminum powder coated impellers.
- CLEANLESS CLASS: ISO Standard 14644.1 Class 5 (class 100)
- VELOCITY: 100 FPM at 6" from face of the filter.
- NOISE LEVEL: 60 db at 1 meter from face of the equipment along with anti vibrator.
- PRESSURE GAUGE: Minihelic gauge for monitoring the condition of all HEPA filters as well as work space with audio visual alarm.
- WHEELS AND LEVELLING LUGS: PU solid wheels with S.S. 304 brackets and 304 S.S. lugs.
- DESIGN CLASSIFICATION: Angle front slope of 10° to reduce operator fatigue while working, as per IEST RP CC002.2.
- STAGE FILTRATION:
 - I) Pre-filter-10 μ m with efficiency of 90% washable HDPE media PU coated with 304 S.S. frame.
 - II) Mini Pleat HEPA filter of 0.3 micron with an efficiency of 99.995% (anti microbial treated media)
- Fluorescence Light: 36 watt 2 nos.
- UV Light: 3 feet length 30 watt 1 no
- Work Area Dimension: 1180 x 610 x 572 mm
- External dimension: 1315 x 780 x 1440 mm
- Power supply: 230 Volt, 50 Hz, single phase
- Gas cock
- Warranty: one year

Quantity -1 Unit

VIII. Slide Warming Table

Specification:

- Temperature range ambient temp. to 70° C i.e. below the melting point of wax.
- The temperature is thermostatically controlled.
- The body is made out of thick mild steel duly finished in white stoving enamel/powder coated paint with mat finished color combinations and top is made of highly polished aluminium sheet.
- To work on 220V AC 50 Hz single phase.
- Top plate size: 30 x 25 cm
- Warranty: one year

Quantity: 1

IX. Manual cryovial filling and sealing machine

- Equipment Sealer should be designed for use in clean room and under laminar flow to thermally seal all High Security straws & tubes
- It should Seals all types of High Security straws and tubes
- Automatic detection system: Place the straw or tube on the holder and gently push forward
- SEALING Method: As soon as the sensor detects the straw or tube in the sealing position, the sealing process starts automatically
- It should have User-friendly touch screen with Interactive, intuitive, laboratory glove compatible
- It should be Easy to install, use, clean and maintain
- It should have Compact size allows for use anywhere on the lab bench, under laminar flow or in field operations
- It should come with High Security straw and High Security tube holders
- Sealer should have Medical Device Class IIa
- Dimensions: L335 x W250 x H105 mm (L13.2 x W9.8 x H4.1")
- Weight: 3 kg (6.6 lb)
- Pre-set specific combination of seal temperature, time and jaw position for each CBS device
- Working temperature range: from 5 to 30°C (from 41 to 86°F)
- Relative humidity: 80%
- Maximum elevation: 2000 m (6,562 ft)
- Designed for use in indoor laboratories
- P3 laboratory compatible

International standards compliance:

- Low voltage N°73/23 CEE
- CEM 89/336 CEE
- EN 61010-1 / 61326-1 / 61326/A1
- CAN/CSA C22.2 No. 1010.1-92
- Warranty: one year

Quantity: 1

X. Vitrification unit

The vitrification unit is designed for vitrification, packaging and opening of CBS High Security straws in the following applications:

- Reproductive Biology Laboratories
- Gamete banks & Bio banking lab
- Width: 283 mm - Length: 487 mm - Height: 265 mm with lid, 222 mm without lid
- Chamber volume: 5L
- Weight: 5 kg.
- Hand sealer
- It should have Vitrification, Vertical sealing, Storage area, Waiting area, Opening area
- Warranty: one year

Quantity: 1

XI. Refrigerator

- 215 Litres or higher
- Reciprocating Compressor
- Moisture Retention Technology
- toughened glass shelves
- Microblock Technology: With its anti-microbial additive prevents up to 99% bacterial growth
- No. of Doors: 3
- Ideal for 3 Family Size
- Zeolite Technology, Micro Block Technology, Stabilizer Free Operation
- 1 Year Warranty on Product, 10 Years Compressor Warranty
- Stabiliser-Free Operation
- Warranty: one year

Quantity: 3

XII. 25 kVA Genset

Specification:

Compact size with Manual/ Automatic starting system.

- Soundproof, Weatherproof enclosure.
- Low vibration, best in class fuel consumption
- Class G3 Governing in its range, which gives better accuracy in decreasing the speed drop in transient and lowering the recovery time of the speed.

The diesel engine comprises of following:

- Radiator with Fan
- Electric starter motor with soft starting system
- G3 as per ISO 8528 Part V class governor
- Battery charging alternator
- Dry type Air cleaner with service indicator • CRDI System
- Lube Oil & Fuel filter • DOC • First fill of lube oil & coolant
- 1 X 12V DC battery

ALTERNATOR: Leroy Somer / Crompton Greaves / Mahindra approved make 25 KVA/ 20 KW alternator, 3 phase, 415V, 0.8 PF, type, screen protected, revolving field, self-excited, self-regulated through an AVR. The alternator conforms to IS:4722, BS EN 60034-1 & will be suitable for tropical condition. The alternator has the following features:

- "H" class insulation
- $\pm 1.0\%$ voltage regulation (max.) in static conditions
- IP: 23 protections with insulation class H
- Permissible overload of 10% for one hour in 12 hours of operation.

CONTROL PANEL(AMF):

The Control Panel is manufactured with 16/18-gauge CRCA sheet and is powder coated for a weather-proof and long-lasting finish. The Control Panel consists of MCCB of suitable rating, Key Switch, Push Button (starter), LED: Battery Charging alternator fail indication, Current Transformer, Instrument fuses.

- Confirms to statutory Govt. CPCBIV+ emission & noise level norms.
- The Enclosure is of modular construction with the provision to assemble and dismantle easily.
- The sheet metal components are 9 tanks pre-treated and is Polyester based powder coated (inside as well as outside) for long life.
- All Nuts-bolts, hardware is of Stainless Steel for longer life.
- Battery is provided in a tray inside the enclosure.
- Doors are gasketed with high quality EPDM gaskets to avoid leakage of sound.
- A special Residential silencer is provided to control exhaust noise.

- To make the system vibration free, engine and alternator are mounted on specially designed anti-vibration pads mounted on base frame.
- The silent DG set comes with following safety features: High water temperature Low lube oil pressure, Emergency stop push button outside the enclosure. Specially designed Standard Control Panel is mounted inside enclosure itself.
- In-built draw in type fuel tank of suitable capacity. • With UV resistant powder coating, can withstand extreme environments

The agency should carryout installation, commissioning and demonstration of the equipment.

- Warranty: 2 years

Quantity: 1

General Terms and Conditions:

1. The bidder must be a reputed manufacturer/authorized dealer with a proven track record in supplying similar equipment. Relevant certifications and proof of past supplies must be enclosed. The supplier/manufacturer shall have a valid company registration certificate or authorised dealer certificate to participate in the quotation.
2. The supplier/manufacturer shall have a valid GST registration to participate in the quotation.
3. The supplier/manufacturer shall have a valid PAN to participate in the quotation.
4. Sealed quotation must be submitted to the undersigned on or before **dt.23.11.2024** during office hours.
5. Quotations must remain valid for a minimum period of 90 days from the last date of submission.
6. The price quoted should be inclusive of all taxes and transportation charges up to Nandankanan Zoological Park, Bhubaneswar.
7. The equipment should carry a minimum warranty period of 1 years from the date of installation. (The warranty should cover all parts)
8. The equipment should be delivered within 15 days from the date of the purchase order.
9. Payment will be made within 30 days of successful delivery and installation of the equipment, subject to inspection and acceptance.
10. The equipment will be subject to inspection upon delivery. Any defects found must be rectified at the supplier's expense. A final acceptance test will be conducted before the final payment.
11. The supplier must provide comprehensive training to the park's operators and maintenance staff at no additional cost.
12. Delay in delivery will attract a penalty of 1% of the total contract value per week, subject to a maximum of 10%.
13. The last date for submission of quotation is **Dt.23.11.2024 by 12.00 P.M**
14. Opening of the bid is **Dt.25.11.2024 03.00 P.M**. Late submissions will not be considered.
15. Price should be quoted in Indian Rupees (INR).

16. Any delay in delivery may result in penalties as per the terms agreed upon in the purchase order.
17. In case of non-compliance with the specifications, delayed delivery, or failure to deliver the required quantity, penalties will be imposed as per the terms agreed upon in the purchase order.
18. The quotation should be valid for a minimum period of 90 days from the last date of submission.
19. In case of any unforeseen circumstances beyond the control of either party, such as natural disasters, strikes, or other acts of God, affecting the execution of the contract, both parties will mutually discuss and agree upon the next course of action.
20. The undersigned reserves the right to accept or reject any or all quotation without assigning any reason thereof and incomplete or conditional quotation will be summarily rejected.

Submission Address:

Deputy Director,
O/o the Deputy Director,
Nandankanan Zoological Park,
Baranga, Odisha.

For any queries or further clarification, please contact:

Sanjeeb Kumar Mallick, Project Manager
Phone: 9861168768
Email: pmunandankanan@gmail.com


Deputy Director
Nandankanan Zoological Park