



QUOTATION CALL NOTICE NO: 21/NKZP/Quotation/2021-22

DATED: 08.03.2022

**NANDANKANAN ZOOLOGICAL PARK, BHUBANESWAR
FOREST, ENVIRONMENT & CLIMATE CHANGE DEPARTMENT
GOVT. OF ODISHA**

**QUOTATION CALL
FOR**

**SUPPLY OF DIAGNOSTIC, THERAPEUTIC, POST-MORTEM, LABORATORY,
MONITORING & OTHER INSTRUMENTS**

FOR

NANDANKANAN ZOOLOGICAL PARK

DATE OF ISSUE OF QUOTATION CALL WITH DOCUMENT: 08.03.2022

DATE & TIME FOR SUBMISSION OF SEALEED QUOTATION

WITH DOCUMENTS: 14.03.2022 3.00 PM

DATE & TIME FOR OPENING OF QUOTATION DOCUMENT: 14.03.2022 03.30 PM

2

NANDANKANAN ZOOLOGICAL PARK, BHUBANESWAR
FOREST, ENVIRONMENT & CLIMATE CHANGE DEPARTMENT
GOVT. OF ODISHA

**" QUOTATION CALL
FOR**

**SUPPLY OF DIAGNOSTIC, THERAPEUTIC, POST-MORTEM, LABORATORY,
MONITORING & OTHER INSTRUMENTS**
for Nandankanan Zoological Park, Bhubaneswar, Odisha"

Nandankanan Zoological Park invites sealed quotation from reputed, experienced and financially sound Companies/Firms/Agencies/Authorized dealer/trader/distributor for supply of various Diagnostic, Therapeutic, Post-Mortem, Laboratory, Monitoring & Other Instruments. Those who are in the similar business for the last two years and providing the similar equipments and service to Central/State Govt./Reputed Private Hospital /laboratories or other related organization may send their bids both for Technical and Financial in sealed envelopes.

2. Complete quotation Document can be downloaded from the website of Nandankanan www.nandankanan.org from 08.03.2022 to 14.03.2022.

3. The interested Companies/ Firms/ Agencies/ Authorized dealer/trader/distributor may send their quotation complete in all respect along with Earnest Money Deposit (EMD) as per schedule of requirement in the form of Demand Draft made in favour of Deputy Director, Nandankanan Zoological Park drawn on any scheduled bank, payable at Bhubaneswar and other requisite documents to the undersigned duly superscripted "Bid for quotation No.21 NKZP" up to 03.00 PM of 14.03.2022. The bids received after this deadline shall not be entertained under any circumstances whatsoever. In case of postal delay, the Nandankanan authority will not be responsible.

Note: The EMD draft should be put in the envelope containing Technical Bid failing which the tender shall be rejected forthwith.

4. The sealed envelopes are to be deposited in the Quotation box placed at the Deputy Director's Office, Nandankanan Zoological Park, Bhubaneswar or may be



sent through registered/speed post/courier addressed to the Deputy Director, Nandankanan Zoological Park, Barang, Khordha, Bhubaneswar Pin-754005.

5. Bids will be opened on 14.03.2022 at 3.30 PM at Conference Hall of Nandankanan in the presence of bidders or their authorized representative who wish to participate in the bidding process. If the opening date happens to be a closed day/holiday, the tender will be opened on the next working day.

6. Any future clarification(s) and/or corrigendum(s) shall be communicated by the Deputy Director, Nandankanan Zoological Park through the website www.nandankanan.org

7. Nandankanan Zoological Park reserves right to amend or withdrawn any of the terms and conditions contained in the QUOTATION Call Document including quantity/quantity/number of items to be supplied or to reject any or all tenders without giving any notice or assigning any reason. The decision of the Deputy Director, Nandankanan Zoological Park in this regard shall be final.



TECHNICAL BID

QUOTATION NO: _____

Dear Sir,

1. I/We hereby submit our sealed quotation for the

2. I/We are enclosing herewith the Demand Draft No. Dated
..... for Rs. drawn in favour of Deputy Director,
Nandankanan Zoological Park (payable at Bhubaneswar **EMD/Bid Security
respectively.**

**(QUOTATION NOT ACCOMPANIED WITH EMD/BID SECURITY ALONG
WITH THE TECHNICAL BID SHALL BE SUMMARILY REJECTED)**

3. I/We have gone through all term and conditions of the quotation call documents before submitting the same.
4. I/We hereby agree to abide by all the terms and conditions stipulated by the Deputy Director, Nandankanan Zoological Park in connection with delivery, warranty, penalty etc.
5. I/We have noted that overwritten entries shall be duly cut and rewritten and initiated.
6. Quotations are duly signed and stamped (No thumb impression should be affixed)
7. I/We undertake to sign the contract/agreement, if required, within 7 (seven) days from the date of issue of the letter of acceptance, failing which our/my security money deposited may be forfeited and our/my name may be removed from the list of suppliers.

Yours faithfully,

(Signature of Bidder with full name and address)



(CHECK LIST FOR TERMS AND CONDITIONS)

A. To be filled by the bidder and submitted along with the Technical Bid.

Sl. No.	Terms & Conditions as per Bidding Documents	Attached (Yes/No)	Page No.	Remarks
1.	Status of Bidder: <ul style="list-style-type: none">• Manufacturer or Authorized Agent• Whether Public Undertaking, Public Ltd, Private Ltd, Company or Proprietary Firm• Distributor /Trader			
2.	Power of Attorney as per Annexure in favour of person to sign, submit and negotiate the bid.			
3.	User List (List of Govt. / Semi Govt. Reputed Pvt. Hospital/institution) where quoted model of the items has been supplied and installed with List of equipments for which bid has been submitted)			
4.	Enclose an affidavit/undertaking that the bidder has never been black listed or punished by any court of any criminal offence/breach of contract and that no police/vigilance enquiry/ criminal case is pending against either bidder legal entity or against individual Directors of the company or partners etc. of the firm etc.			
5.	Bid Security amount deposited is enclosed or not. If yes, please mention the details of product for which bid security submitted.			
6.	Original Technical Catalogue of the quoted model			
7.	Certificate, to the effect that bidder will maintain the particular quoted item(s) during Warranty period of including all spares, accessories, consumables etc. (Please mention the name of the item/ items with price, which are not supplied by the bidder free of cost with frequency of			

2

	replacement)			
8.	Certificate to the effect that bidder have quoted their rates for comprehensive Annual Maintenance Contract inclusive of labour, spares, consumables, accessories etc. on per year basis for a further period of 3 (three) years after expiry of warranty period in the price bid . (Please mention the name of the item/items with price which are not supplied by the bidder free of cost with frequency of replacement during Annual Maintenance Contract period in the price bid).			
9.	PAN and copies of Income Tax Returns for the last year.			
10.	Duly attested copy of GST registration certificate.			
11.	Any valid ID & Address proof			

B: To be filled by the Bidder and submitted along with Price Bid.

Sl. No.	Terms & Conditions as per Bidding Document	Page No.	Remarks
01.	Item wise price for the item(s) as mentioned in the Bidding Document and as per format attached as Annexure-1		
02.	Rate for Annual Maintenance Contract as per terms & conditions mentioned in the Bidding Document and as per format attached as Annexure-II		

Note: If the above-mentioned details are not mentioned and required documents are not attached at appropriate places, the offer of the bidder(s) shall be summarily rejected. Hence, bidder(s) are advised to go through the bidding document carefully and be prepared with all the required documents to avoid rejection of offer.

(Signature of the Bidder with signature & seal)

ELIGIBILITY CRITERIA

01. Manufacturers or their authorized dealers/distributors/trader/Indian subsidiaries/direct importers having a place of business in any of the State of India are eligible to participate in this Quotation call.
02. The bidder/manufacturer of the equipment offered should be in the business of the supply and installation of same/similar equipment for the last two calendar years.
03. The **manufacturer/authorized representative/firm/trader** should have completed at least 1 no supply & installations of the quoted items in Govt. / Pvt. Institutions / Hospital /institution in India. The installations mentioned by the manufacturer in their offer must be functional and performance certificate for the same issued by the user concerned also be attached with the offer.
04. The firm should be registered with under GST Tax.
05. Bidders who have the capability to attend repairs of the equipments within the time mentioned in this bidding document within 05 days of reporting of the fault will be preferred.
06. Bids of the firm/company that has been blacklisted by any of the institution or blacklisted / debarred by any other State / Central Government's organization shall not be entertained.
07. Firm/company who has withdrawn after participating in any of the previous tenders are not eligible to participate in this tender.

Note:

- Notwithstanding anything stated above, the Deputy Director, Nandankanan Zoological Park reserves all right to assess the Bidder's capability and capacity to perform the contract satisfactorily before deciding on award of contract, should circumstances warrant such an assessment in the overall interest of the purchaser.
- Samples/Equipment of product offered may be submitted at the time of opening of technical bid before the technical bid evaluation committee. Financial bids of only those products will be opened whose samples quality as



per technical specification by the technical evaluation committee. However, the committee may call for the samples at any point of time.

GENERAL INSTRUCTIONS TO BIDDERS (GIB)

1. PREAMBLE:

- i) Eligibility of Bidders:-** This invitation of Bids is open to reputed foreign/ Indian manufacturers or their authorized dealers/selling agents / Stockiest authorized by the manufacturer to quote on their behalf for this tender/DGS&D approved registered firms. Before formulating the tender and submitting the same to the purchaser, the bidder should read and examine all the terms, conditions, instructions, checklist etc. contained in the Tender documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these tender documents may result in rejection of its tender.

- ii) Amendments to quotation call Documents:-** At any time prior to the deadline for submission of quotation , the purchaser may, for any reason deemed fit by it, modify the quotation documents by issuing suitable amendment(s) to it. Such an amendment will be notified on the website of Nandankanan www.nandankanan.org.

- iii) Clarification of quotation Documents: -** A bidder requiring any clarification or elucidation on any issue of the quotation documents may take up the same with the purchaser on any working day (Monday to Friday) between 3.00 to 5.00 PM in the office of the DD Nandankanan /through mobile number 09437022023/through e-mail **deputydirector.kanan@gmail.com**.

2 Quotation System

The quotation/Bids are to be submitted in two Parts i.e., **Part - I & Part II**.

PART - I titled as TECHNICAL BID shall contain the complete technical specifications and details on the competency of the bidder and also the commercial bid package with terms and conditions of supply, warranty, after sales service etc. (Except Price Bid Form). Apart from the documents and signed copy of the purchased tender document, the necessary enclosures should be submitted in this technical bid. In short, the technical bid should contain all the necessary documents to prove the technical competency and capability of the bidders for supplying and installing a trouble-free equipment meeting the quality standards and



technical specification and the ability of the bidders for providing efficient after sales service to the satisfaction of the Tender Inviting Authority and the Tender Committee.

PART - II titled as FINANCIAL BID shall contain only the 'Price Bid Form' duly filled in the prescribed Performa (Annexure -I) and Annual Maintenance Contract offer in prescribed format (Annexure – II). Price Bid not submitted in the prescribed proforma will not be considered for evaluation and may be rejected.

3. The quotation offers, duly filled, shall be submitted in two separate sealed covers separately for **technical and financial bids** respectively. Such covers shall be superscribed as **“TECHNICAL BID for quotation call No..... for supply of”** and **“TECHNICAL BID for Tender No.for supply of”** as the case may be. Both the sealed covers shall be enclosed in another sealed (third) bigger cover which should also be super scribed as **“BID for Tender No.....Nandankanan.....for supply of”**
4. Quantity of items may increase or decrease. The Deputy Director, Nandankanan Zoological Park reserves the rights to purchase different sub items/ components of items from different bidders.
5. The Bidding Documents along with terms and conditions, technical specification can be obtained from the office of the Deputy Director, Nandankanan Zoological Park.
6. The **“Bidding Document”** can also be downloaded from Nandankanan website www.nandankanan.org.
7. Last date for submission of bidding document 14/03/2022 up to 03.00 pm. Bidders may send their bid by registered post / speed post/courier or may drop in quotation box placed in the Office of the Deputy Director, Nandankanan Zoological Park. Bidder(s) are requested to send the bid well in advance so as to ensure that bid reaches in time. Nandankanan will not be responsible for any postal delay. **Bids received after due date and time shall be summarily rejected.**
8. **Earnest Money Deposit (EMD):**
 - a) **Earnest Money** of as per schedule of requirement is required to be submitted along with tender by D.D. from any scheduled Indian Bank along with the tender favoring Deputy Director, Nandankanan Zoological Park, Bhubaneswar (payable at Bhubaneswar). No interest is payable on EMD / Bid security.
 - b) EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of final bid validity and latest on or before the 30th day after the award of the contract without any interest.
 - c) EMD must be submitted in separate sealed envelope and endorsement of the same with DD number, date be made with

technical bids

- d) **Non-submission of prescribed EMD** along with the Technical Bid shall be rejected outright.
- e) Cheque, Cash payment, Money Order, Fixed deposit etc will not be accepted as EMD.
- f) The successful Bidder's EMD will be discharged upon the Bidders signing the contract and furnishing the performance security. The EMD of the successful Bidder can be adjusted towards the security deposit payable.

9. For Imported Goods, Indian Agency Commission must be declared in financial bid.

10. **Quotation currencies:** - The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees.

11. **quotation Prices:** - The Bidder shall indicate on the Price Schedule provided under Annexure I all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required.

i) For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:

a) The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all applicable taxes and duties like GST, Custom Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly origin quoted ex-showroom etc.

b) Any taxes and any duties which will be payable on the goods in India if contract is awarded.

c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier.

ii) **Additional information and instruction on duties and Taxes:-** If the Bidder desires to ask for any tax to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

iii) **Goods & Service Tax (GST):-** If a bidder asks for GST to be paid extra, the rate and nature of GST applicable should be shown separately like CGST, SGST. The GST will be paid as per the rate at

which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to GST and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forthwith to the purchaser.

12. quotation validity: - The quotation shall remain valid for acceptance for a period of 90 days (Ninety days) after the date of quotation opening prescribed in the quotation document. Any quotation valid for a shorter period shall be treated as unresponsive and rejected.

13. Late quotation: - A quotation, which is received after the specified date and time for receipt of quotation will be treated as "late" quotation and will be ignored.

14. Scrutiny and Evaluation of quotation: -

Quotation will be evaluated on the basis of the terms & conditions already incorporated in the quotation call document, based on which quotation have been received and the terms, conditions etc. mentioned by the bidders in their quotation.

15. Non-responsive quotation :-The following are some of the important aspects, for which a quotation shall be declared non – responsive during the evaluation and will be ignored:

- I. bids are unsigned.
- II. bid validity is shorter than the required period.
- III. Required EMD (Amount, validity etc.)/ Exemption documents have not been provided.
- IV. Bidder has not agreed to give the required performance security of required amount in an acceptable form for due performance of the contract.
- V. Bidder has not agreed to other essential condition(s) specially incorporated in the bid enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
- VI. Poor/ unsatisfactory past performance.
- VII. Bidders who stand deregistered/banned/blacklisted by any Govt. Authorities
- VIII. Bidder is not eligible as per eligibility criteria.
 - i). Bidder has not agreed for the delivery terms and delivery schedule.

16. Comparison of quotation: The comparison of the responsive quotation shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted turnkey prices and AMC prices will also be added for



comparison/ranking purpose for evaluation.

Bidder submitting the AMC price will be preferred over the bidders quoting the price without AMC. The bid price upto 5% higher submitted by the bidder with AMC will be ranked higher than the bidder without AMC.

17. Purchaser's Right to accept any quotation and to reject any or all quotation

The purchaser reserves the right to accept in part or in full any quotation call or reject any or more quotation (s) without assigning any reason or to cancel the quotation call process and reject all the quotation at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidders.

18. Notification of Award/Letter of Intent (LOI)/purchase order

- I. Before expiry of the quotation validity period, the Nandankanan will notify the successful Bidder(s) in writing, by registered / speed post or by email (to be confirmed by registered / speed post immediately afterwards) that its quotation for equipment(s), which have been selected by the Nandankanan, has been accepted, also briefly indicating there in the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. This notification is undertaken by issuing a Letter of Intent (LOI) /purchase order by the Nandankanan.
- II. The successful bidder, upon receipt of the LOI, shall furnish the required performance security, if any and submit an agreement in the prescribed format within seven days, failing which the EMD will forfeited and the award will be cancelled.
- III. In the case of item covered under AMC separate agreement will be made as after the letter of award.

19. Non-receipt of Performance Security and Contract by the Purchaser/Consignee: Failure of the successful bidder in providing performance security and / or returning contract copy not duly signed shall make the bidder liable for forfeiture of its EMD.

20. Return of E M D: The earnest money of the successful bidder and the unsuccessful bidders will be returned to them without any interest.



Annual Maintenance Contract:

- a) The decision to enter into AMC will be determined on the basis of cost and complexity of the equipment by the quotation call Inviting Authority, at its discretion, prior to the expiration of warranty period. In case if it is decided by Nandankanan to enter into AMC contract, the vendor will have to submit AMC agreement (format placed at Annexure-VIII) at the time of supply of items. The AMC amount in the PBG will be 10% of the AMC cost.
- b) The Annual Maintenance Contract (AMC) is otherwise an extended warranty. All the terms and conditions agreed by the successful Bidder for executing the comprehensive warranty of the equipment shall be extended during the period of AMC, only difference being the payment of AMC charges is absent during the period of comprehensive warranty.
- c) The cost of AMC, accessories and spares, reagents and consumables as in case may be quoted along with taxes applicable, if any. The taxes to be paid extra, to be specifically indicated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- d) Failure/refusal on the part of the successful tender supplying/installing the equipments to enter into AMC with the Tender Inviting Authority, at the end of the Comprehensive Warranty Period, if the Nandankanan, as the case may be, desires so, shall lead to forfeiture of performance security and may also result in the blacklisting/debarring of the Bidder.
- e) The successful Bidder shall also indicate the rates for the AMC in price bid form and such rates are binding on the successful tenders after the expiration of the warranty period. The yearly rates for AMC shall remain the one and the same as quoted in the price bid form for the extended years.
- f) Cost of AMC (excluding taxes, if any) will be considered for Ranking/Evaluation purpose.
- g) The payment of the agreed AMC charges will be made as per frequency for payment after satisfactory completion of said period, on receipt of service report/ break down report from the user.
- h) The Bidder shall also have to submit whether periodic replacements of consumable items are required for proper functioning of their quoted machine/Equipment? If yes they should submit the list of such consumables along with price list and frequency of replacement per year if the same is not included in quoted Annual Maintenance Contract charges per year.



1. Time Limits prescribed

Sl. No	Activity	Time Limit
a.	Installation & Delivery period	2 weeks from date of issuance of Supply Order
b.	Comprehensive warranty period	As per nature of equipment
c.	AMC period	3 years after expiry of the warranty/ as mentioned in the schedule of requirement
d.	Frequency of visits to all User Institution concerned during Warranty/AMC	One visit every three months (4 visits in a year) for periodic/preventive maintenance and any time for attending repairs/break down calls.
e.	Frequency of payment of AMC charges	Every six months after completion of the Period.
f.	Submission of Performance Security and entering into contract	7 days from the date of issuance of Letter of Intent
g.	Maximum time to attend any Repair call	Within 24 hours.
h.	Uptime in a year during warranty as well as during AMC period.	95% of 365 days.

2. In order to fully and optimally utilize the equipment, training to zoo staffs should be provided. In continuation to this training, separate maintenance training for the machine and the sub systems should also be given to the “Equipment Maintenance Engineer” and “Equipment Maintenance Technicians”. All the financial commitments in this regard shall be met by the bidder(s).

3. Warranty Period:

- a) The “**Complete System**” shall remain under warranty period as per equipments and model specification from the date of satisfactory installation. The Complete System should include the basic unit and allied supporting components to be supplied by the bidder along with basic unit.
- b) During warranty period, bidder shall provide at least **four maintenance visits per year** at regular interval for usual maintenance and supervision. If bidder fails to provide these maintenance visits at regular interval, a proportionate deduction in

the form of penalty on pro-rata basis will be recovered from the bidder from the Bank Guarantee/EMD amount. In case the Bank Guarantee is not adequate, Nandankanan shall have right to recover the losses / penalty from other sources as well.

- c) Bidder shall also attend all breakdown calls within 24 hours of the receipt of the information from Nandankanan through e-mail/mobile/sms /whatsapp message etc.

4. Performance Security (in the case of items with Warranty/AMC)

- a) There will be a performance security deposit amounting to 10 % of the total value of the equipment including taxes, which shall be submitted by the successful bidder within 7 days from the date of issuance of "Letter of Intent". The performance security amount may be adjusted from EMD amount of the bidder if bidder wishes. In case of performance security account more than EMD then balance amount to be given by the bidder.
- b) Failure of the successful bidder in providing performance security as mentioned above and / or in returning contract copy duly signed in time shall make the bidder liable for forfeiture of its EMD.
- c) It shall be in any one of the forms namely Account Payee Demand Draft or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in this document endorsed in favour of Nandankanan. The Deputy Director, Nandankanan will release the Performance Security without any interest to the successful bidder on completion of the successful bidder's all contractual obligations including the warranty obligations & after receipt of certificates confirming that all the contractual obligations have been successfully complied with.

- 5. Delivery period:** - Delivery period for supply of items would be two weeks from the effective date of contract/ purchase order. Please note that Contract can be cancelled unilaterally by the Buyer in case items are not received within the contracted delivery period. Extension of contracted delivery period will be at the sole discretion of the Buyer, with applicability of LD clause.

6. Payment: -

- i) Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms and conditions of contract in the following manner.

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

a) On delivery:-

- i) 90% payment of the contract price shall be paid on receipt of goods in good condition and after installation.



- ii) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- iii) Consignee Receipt Certificate in original issued by the authorized representative of the consignee;
- iv) Two copies of packing list identifying contents of each package;
- v) Inspection certificate issued by the nominated person/committee/agency, if any.

b) On Acceptance:-

Balance 10% payment would be made against 'Final Acceptance Certificate' of goods to be issued by the consignee subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

Or

100% after acceptance of goods along with the documents quoted above.

- c) Payment will be released within 15 days subject to fulfillment of conditions in clause (a) and (b) above.

7. Validity of Price:- Minimum up to one year from date of tender submission and it should be extendable.

8. Part Supply: No part supply/ wrong supply or short supply will be accepted by the Nandankanan. The Deputy Director, Nandankanan Zoological Park, Bhubaneswar will be the final authority and will have the right to reject full or any part of supply, which is contradictory to the terms and conditions agreed at the time of placement of order. In case of rejection of any supplied items due to nonconformity in quantity and/or quality, Nandankanan will have right to charge liquidated damages, as it deems fit.

9. Spares :- The spare parts as selected by the Purchaser to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations.

10. Incidental Services :- The supplier shall be required to perform following services:-

- i) Installation & commissioning, Supervision and Demonstration of the goods.
- ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- iii) Training of Purchaser's zoo staffs etc. for operating and maintaining the goods.
- iv) Supplying required number of operations and maintenance manual for



the goods.

11. Supplier may have to provide required manpower for running the equipments at mutually agreed remuneration (Which shall not be more than remuneration payable for the particular category of staff) at the sole discretion of the Nandankanan, till Nandankanan is able to arrange its own staff for the purpose.

12. Installation & site plan: Requirement regarding site/location for installation of equipment, if any, should be mentioned in the tender. Time required for installation of system after delivery must be mentioned. In case of delay in installation Nandankanan will have right to charge liquidated damage.

13. The bidder should also quote for any other accessories which are must for the operation and backup of the equipments.

14. Notices:-Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.

The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

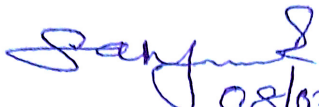
15. Penalties for non-performance

The penalties to be imposed, at any stage, under this tender are;

- a) imposition of liquidated damages,
- b) forfeiture of EMD/performance security,
- c) termination of the contract,
- d) Blacklisting/debarring of the bidder

16. Applicable Law & Jurisdiction of Courts

- a) The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.
- b) All disputes arising out of this tender will be subject to the jurisdiction of courts of law in Bhubaneswar, Odisha.


08/03/22

Deputy Director
Nandankanan Zoological Park



SCHEDULE OF REQUIREMENTS

Sl No	Name of the establishment	Name of the equipment (As per technical specification in Annexure VII)	Qty.	EMD	AMC (optional)
1.	Nandankanan Zoological Park	Supply & Installation of Mortuary Refrigerator of 2 Body Capacity	1	Rs 5,000/-	3 years
2	Nandankanan Zoological Park	Supply & Installation of Downdraft Autopsy Table with integrated sink with head rest	1	Rs 5,000/-	
3	Nandankanan Zoological Park	Supply & Installation Shadow less lamp for OT	1	NIL	3 years
4	Nandankanan Zoological Park	Supply & Installation of Overhead light for PM Hall	1	NIL	3 years
5	Nandankanan Zoological Park	Supply & Installation of Full HD IR PTZ Camera	4	Rs 2,000/-	3 years
6	Nandankanan Zoological Park	Supply of GSM transmitter for tracking gharials	5	NIL	
7	Nandankanan Zoological Park	Supply & Installation of Weighing balance	2	Rs 1,000/-	3 years
8	Nandankanan Zoological Park	Supply & Installation of Digital reptile incubator	1	NIL	
9	Nandankanan Zoological Park	Supply & Installation of Digital Bird brooder	1	NIL	
10	Nandankanan Zoological Park	Supply & Installation of Digital automatic Bird incubator	1	NIL	
11	Nandankanan Zoological Park	Supply of Variable Volume 8 Channel, Manual, Pipette, 1-20 μ L and 10 - 100 μ L (Eppendorf/ Thermo /Bio-rad brand)	1 each	NIL	
12	Nandankanan Zoological Park	Supply of 1-channel, variable microliter pipette set of 4 (0.1 - 2.5 μ L, 0.5 -10 μ L, 10 - 100 μ L and 100 - 1,000 μ L) (Eppendorf /Thermo /Bio-rad brand)	1 set	NIL	
13	Nandankanan Zoological Park	Supply of Inflatable life jacket	10	NIL	
14	Nandankanan Zoological Park	Supply of Touch screen Laptop (Hp/Dell brand)	1	Rs 2,000/-	3 years
15	Nandankanan Zoological Park	Supply of Touch screen mobile phone (Samsung brand)	20	NIL	
16	Nandankanan Zoological Park	Supply of GPS (Garmin brand)	1	NIL	

17	Nandankanan Zoological Park	Supply of Binocular 10-22X50 (Nikon/Olympus brand)	3	NIL	
18	Nandankanan Zoological Park	Supply of Compass (SUUNTO brand)	1	NIL	
19	Nandankanan Zoological Park	Supply of Amirah with glass door	2	NIL	
20	Nandankanan Zoological Park	Supply & Installation of 6 Shelf Multipurpose Slotted Angle Rack	2	NIL	
21	Nandankanan Zoological Park	Supply of Office table	1	NIL	
22	Nandankanan Zoological Park	Supply of Office chair	4	NIL	
23	Nandankanan Zoological Park	Supply of Range Finder	1	NIL	
24	Nandankanan Zoological Park	Supply of 32 GB SDHC memory card	6	NIL	
25	Nandankanan Zoological Park	Supply of Portable platform ladder	1	NIL	
26	Nandankanan Zoological Park	Wide mini sub-cell GT system with 15X10cm tray with mini-gel caster with combs (Bio-rad)	1	NIL	

Note: Bidder to apply for single or multiple items from the list

FINANCIAL BID

ANNEXURE – “I”

**PRICE SCHEDULED FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN
LOCATED WITHIN INDIA.**

1	2	3	4	5							6	
				Price per unit (Rs.)								
Sl. No. as per schedule of Requirements	Brief description of goods Make: Model:	Country of origin	Qty. nos.	Ex- factory /ex- wareho use /ex- showroo m/o ff- the shelf (A)	GST [IGST OR CGST & SGST] (if any % and value) (B)	Other Taxes (if any % and value). (C)	Pack ing and forw ardi ng char ge (D)	Inland transportation, , loading/ unloading and incidental cost till consignee site. (E)	Incidental services (including installation & commissioning , supervision demonstration and training) at consignee site. (F)	Unit price (at consignee site basis(G) G=A+B+ C+D+E+F	Total unit price (At Consignee Site) Basis Col. No. 4 X Col. No. 5(G)	
1												
2												
3												
4												

Note: Bidder to apply for single or multiple items from the schedule of requirement list and quote the details in additional rows

- 1.
2. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
3. The charges for AMC after warrantee shall be quoted separately as per price scheduled.

Place:-
Date:-

Name:
Business Address
Signature of Bidder
Seal of the Bidder



FINANCIAL BID

ANNEXURE – “II”

ANNUAL MAINTENANCE CONTRACT PRICES SCHEDULE

S. No.	Item Description	1 st Yr.	2 nd Yr.	3 rd Yr.	Total Annual Maintenance Contract over a period of three years after expiry of warranty period from the date of successful installation. (F = C+D+E) Excluding GST
A	B	C	D	E	F
1.	Name of the Equipment: Make: Model: Qty.:				
2.	Name of the Equipment: Make: Model: Qty.:				
3					
4					

Note: Bidder to apply for single or multiple items from the schedule of requirement list and quote the details in additional rows



ANNEXURE – “III”

MANUFACTURER’S AUTHORISATION FORM
(To be submitted by authorized
dealers/representatives/importers)

No.

Dated:

To

The Deputy Director,
Nandankanan Zoological Park

Quotation call

No.

Equipment Name:

1. We (name of the OEM) are the original manufacturers of the above equipment having registered office at (full address with telephone number/fax number & email ID and website), having factories at and _____, do hereby authorize M/s. _____ (Name and address of bidder) to submit tenders, and subsequently negotiate and sign the contract with you against the above tender No.
2. No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.
3. We also hereby undertake to provide full guarantee/warranty / Annual Maintenance Contract as agreed by the bidder in the event the bidder is changed as the dealers or the bidder fails to provide satisfactory after sales and service during such period of Comprehensive Warranty / Annual Maintenance Contract and to supply all the spares/ accessories / consumables etc. during the said period.
4. We also hereby declare that we have the capacity to manufacture and supply, install and commission the quantity of the equipments tendered within the stipulated time.

(Name)

For and on behalf of M/s. _____

Date:

(Name of manufacturers)

Place:

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.



ANNEXURE – “IV”

POWER OF ATTORNEY

I/ We.....(name and address of the registered office) do hereby constitute, appoint and authorize Sri/Smt (Name and address) who is presently employed with us and holding the position of as our attorney, to act and sign on my/our behalf to participate in the quotation call No. for (Equipment name).

I/ We hereby also undertake that I/we will be responsible for all action of Sri/Smt undertaken by him/her during the quotation call process and thereafter on award of the contract. His / her signature is attested below

Dated this the _____ day of 2022_ For _____

(Name, Designation and Address)

Accepted

(Signature)

(Name, Title and Address of the Attorney)

Date: _____



ANNEXURE – “V”

Format of Experience certificate

Contract No./Supply order No	Name of the purchaser	Description of work	Qty supplied	Value of Contract in (Rs. lakhs)	Date of issue of purchase order	Stipulated period of completion	Actual of completion

*** Attach certificate(s) of payments.**



ANNEXURE – “VI”

AFFIDAVIT/UNDERTAKING

I, _____ Son / Daughter / Wife of
Shri _____ resident of _____ Proprietor/Director authorized
signatory of the agency/Firm (M/s _____), do hereby solemnly affirm
and declare as follows:

01. I am authorized signatory of the agency/firm and is competent to sign this affidavit and execute this quotation call document;
02. I have carefully read and understood entire quotation call document including all the terms and conditions of the tender and undertake to abide by them;
03. The information / documents furnished along with the above application are true and authentic to the best of my knowledge and belief. I / we, am / are well aware of the fact that furnishing of any false information / fabricated document would lead to rejection of my tender at any stage besides liabilities towards prosecution under appropriate law.
04. I/We further undertake that no case/enquiry/investigation is pending with the police/court/vigilance or any government body against the Proprietor/Partner/Director etc. as individual or against legal entity of the Company /Firm/Agency.
05. I/We further undertake that none of the Proprietor/Partners/Directors of the Agency/agency was or is Proprietor or Partner or Director of the Agency with whom the Government have banned /suspended/blacklisted business dealings. I/We further undertake to report to the Deputy Director, Nandankanan, Bhubaneswar immediately after we are informed but in any case not later 15 days, if any Agency in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such an Agency which is banned/suspended in future during the currency of the Contract with you.



06. I/We further undertake that our firm/company is fulfilling all the terms and conditions/eligibility criteria obvious/explicit or implied/implicit recorded anywhere in the tender document. If at any time including the currency of the Contract, any discrepancy is found relating to our eligibility or the process of award of the contract criteria, this may lead to termination of contract and/or any other action deemed fit by the Nandankanan.

(Signature of the Bidder)

Date: Name:

Place: Designation

Seal of the Agency Address:

I/We do hereby solemnly declare and affirm that the above declaration is true and correct to the best of my knowledge and belief. No part of it is false and nothing has been concealed therein.

Deponent



ANNEXURE- VII**SPECIFICATIONS OF EQUIPMENTS MENTIONED IN SCHEDULE OF REQUIREMENTS**

Sl No.	Name of items
1.	Mortuary Refrigerator (2 Body Capacity)
2.	Downdraft Autopsy Table with integrated sink with head rest
3.	Shadow less lamp for OT
4.	Overhead light for PM Hall
5.	Full HD IR PTZ Camera
6.	GSM transmitter for tracking gharials
7.	Weighing balance
8.	Digital reptile incubator
9.	Digital Bird brooder
10.	Digital automatic Bird incubator
11.	Variable Volume 8 Channel, Manual, Pipette, 10 - 100 uL (Eppendorf brand)
12.	1-channel, variable microliter pipette set (Eppendorf brand)
13.	Inflatable life jacket
14.	Touch screen Laptop (Hp/Dell brand)
15.	Touch screen mobile phone (Samsung brand)
16.	GPS (Garmin brand)
17.	Binocular 10-22X50 (Nikon/Olympus brand)
18.	Compass (SUUNTO brand)
19.	Amirah with glass door
20.	6 Shelf Multipurpose Slotted Angle Rack
21.	Office table
22.	Office chair
23.	Range Finder
24.	32 GB SDHC memory card
25.	Portable platform ladder
26.	Wide mini sub-cell GT system with 15X10cm tray with mini-gel caster with combs (Bio-rad)

TECHNICAL SPECIFICATIONS

Name of item:

1. Mortuary Refrigerator (2 Body Capacity)

General

- a. Designed for long storage of cadavers.
- b. Proper design ensuring best hygiene.
- c. Energy Efficient.
- d. Sturdy Construction
- e. Light Weight
- f. Low Maintenance.

Body of the Mortuary Chamber

- a. Mobile with brakes for castor wheels.
- b. Corrosion free exterior and interior.
- c. Double walled cooling units.
- d. Outer shell constructed of thick steel sheets of type 304- SS grade
- e. The inner chamber to be of heavy gauge stainless steel sheet of SS-304 grade.
- f. The 100 mm gap between the walls to be filled with high grade polyurethane insulation, ensuring maximum thermal efficiency. Puff density should be 40kg/cu m.
- g. The doors to be made of stainless steel for extra protection and long life.
- h. The doors should be connected by sturdy heavy duty chrome plate hinges and fitted with hard chrome plated lubricated latches for opening the door. Individual standard key lock for each chamber.
- i. All the doors to be fitted with high quality triple point neoprene rubber gaskets for air tight fittings and magnetic closure fittings and lock.
- j. Washable interiors with channel for water outlet that can be plugged with rodent resistant material.
- k. Vapour proof lamp inside

Body Trays

Sturdy, proper loading body trays, with telescopic sturdy castors and castor locks to prevent rolling out of the tray.

Dimensions

Width - 1194 mm \pm 10 mm.

Depth - 2362 mm \pm 10 mm.

Height - 1745 mm \pm 10 mm.

Height with cooling unit - 2215 mm \pm 20 mm.

Temperature & Controls:

- a. Microprocessor based temperature control.
- b. Temp range +2 to +8°C
- c. Digital LED display. Touchpad data entry for adjustable temperature and alarm settings.



- d. Audio visual alarm for high and low temperature
- e. PUF insulation
- f. ISI certified high end ultra mute CFC-free hermetically sealed compressors, conforming to latest international standards and guidelines.
- g. Efficient condenser with automatic evaporating system (condensate).
- h. Forced air circulation system
- i. Automatic defrosting system.

Noise levels- less than 60 Db

Environmental factors:

- Shall meet IEC-60601-1-2:2001 (Or Equivalent BIS) General Requirements of safety for Electromagnetic Compatibility or should comply with 89/366/ECC; EMC-Directive.
- The unit shall be capable of operating continuously in ambient temperature of 30-40 deg C and relative humidity of 15- 90 %
- The unit shall be capable of being stored continuously in ambient temperature of 10-50 deg C and relative humidity of 15 – 90 %

Power Supply:

- Power input to be 220 – 240 VAC, 50 Hz and suitable stabilizer (4kVA or higher).
- Battery back-up on display for 0 to 4 hrs. in case of power failure.
- Fitted with Indian plug.
- Should be FDA, CE, UL or BIS approved product.

Standards, Safety and Training:

- Should be FDA, CE, UL or BIS approved product.
- Manufacturer should have ISO certification for quality standards.
- Comprehensive training for lab staff and support services till familiarity with the system.
- Electrical safety conforms to standards for electrical safety IEC 60601- 1 (Or equivalent International / National standard) general requirement for Electrical safety of Medical equipment.

Documentation:

- User / Technical / Maintenance manuals to be supplied in English.
- Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
- List of important spare parts and accessories with their part number and costing.
- List of equipment's available for providing calibration and routine Preventive Maintenance Support as per manufacturer documentation in service / technical manual.



- Compliance report to be submitted in a tabulated and point wise manner clearly mentioning the page / Para number of original catalogue / data sheet. Any point, if not substantiated with authenticated catalogue / manual, will not be considered.
- Certificate of inspection and quality control indicating the S / N for all non-consumable items with date.

Warranty and Maintenance:

As description in schedule of requirement in the GCC.

Repairs & Service:

Office / service centre of authorized service provider of the company should be located at Bhubaneswar and technicians must provide technical assistance and repair services for 24X7X365, in case of any problem noticed in functioning of installed cold cabinets.

2. **Downdraft Autopsy Table with integrated sink with head rest**

- Should be a height adjustable pedestal downdraft ventilated autopsy table
- Complete type 304 stainless steel construction with a polished no 4 finish with large radius inside corners
- for easy clean up
- Should have Helirac-welded seams and joints ground and polished to match adjoining surfaces
- Should have the facility of height adjustment via electrohydraulic mechanism. The minimum height should be between 750 mm – 820 mm and should be adjustable by minimum of 140 mm
- Should have full length stainless steel body supports
- Should have removable access panel
- Should have GFCI duplex receptacle with water-proof cover
- Plumbing and electrical line should be factory installed and require only single point connections at the project locations
- Should have back flow protection for all plumbing fixtures to prevent backflow of contaminated water
- Should have Deluxe hydro-aspirator with reverse flow, cold water control valve and 10 feet/3 metre hose
- Should have a spray hose assembly with cold water control valve nozzle, 10 feet/3 metre of flexible hose
- Should have mixing faucet with gooseneck spout and wrist blade handles
- Should have 1/2 HP heavy duty commercial waste disposal system with switch
- Should have large single compartment sink basin, 14 inch/35 cm X 12 inch/30 cm X 8 inch/20 cm depth
- Should have rapid and positive drainage
- Should have engraved/SS removable cm and inch ruler

- Should have table end rinse with cold water control valve
- Should have regulated sprinkler system for table surface ensuring continuous self-cleaning
- Should have 3/4 piece perforated body support grid plates
- Should be supplied with polyurethane head rest to support neck while dissection with following features – Molded from chemical resistant plastic
- Adjustable up to six positions
- Reusable and easily cleaned with soap and water
- Should be manufactured without rivets, bolts or other devices on the work surface so that it remains smooth and prevents accumulation of bacteria
- Should have hot and cold water mixing faucet with on/off control and wrist blade handles
- Table length should be minimum 2640 - 3040 mm [including sink] and width should be minimum 810 – 850 mm
- Should have separate switch for elevation control and 1/2 HP disposal on/off
- Should have post-mortem scale with scale pole and bracket fabricated from type 04 polished stainless steel with locking knob which allows the pole to be secured anywhere along its 360 degree tuning ability
- All electrical outlets should be splash proof
- Should be supplied with three [3] raised body boards with following design features:
 - Dimensions: Width – 3 – 5 inch/7.5 – 12.5 cm, Length – 21 - 25 inch/52.5 – 62.5 cm, Thickness – 1.5 – 2.5 inch/3.75 – 6.25 cm
 - Boards should raise the body above the work surface allowing added fluid drainage Non-skid rubber feet are placed where contact is made with the work surface
 - Machined from a solid piece of high density polyethylene
 - Should have removable ruler 73 - 83 inch/182.5 - 207 cm
 - Should have European CE or USA FDA or ISO certificate
 - For quality purpose if necessary the firm has to give actual demonstration of the quoted item to TEC committee members either in AIIMS Patna campus or anywhere in India where the item is installed. In case of out station demonstration, the firm will bear all the travel and lodging expenses of at least one doctor from the concerned committee

3. Shadow less lamp for OT

Technical Specifications:

- 1) Double dome
- 2) Intensity Control in 9 steps for individual domes
- 3) Height Adjustment :600mm
- 4) Action Radius :1850mm
- 5) Possible Movements :Radial, Angular & Axial
- 6) Colour Temperature :4500K and above
- 7) LED technology: minimum 40,000 hours lamp life
- 8) Intensity, brightness, contrast and power switch to be made available on handle/wall-check.
- 9) Focal distance(d_1+d_2)=0.8 to 1.2 m
- 10) Temperature rise on the keep of surgeries to be less than 10°
- 11) CR \pm approx. 95 or more
- 12) 360° rotation for both arms
- 13) Heat dissipation- Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism
- 14) Mobility, portability - Handheld device
- 15) Power Requirements - Recharging unit: Input voltage- 220V-240V AC, 50Hz
- 16) Protection - Should have over-charging cut-off with visual symbol.
- 17) Should be FDA/CE/BIS and ISO 13485 approved product.
- 18) Electrical safety conforms to the standards for electrical safety IEC 60601-1 General requirements (or equivalent BIS Standard)
- 19) Shall meet internationally recognised for Electromagnetic Compatibility (EMC) and Electromagnetic Interference (EMI) for electromedical equipment: IEC 60601-1-2
- 20) Certified to be compliant with IEC 60601-2-4 for usability.
- 21) Manufacturer / supplier should have ISO 13485 certificate for quality standard.



4. Overhead light for PM Hall

- 1) LED light
- 2) Illumination(lx) should be LED
- 3) Minimum 40,000 Lux
- 4) Height Adjustment (mm): ≤ 440
- 5) Radial and axial movement of the lamp
- 6) User's interface – Manual
- 7) Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism
- 8) Mobility, portability – Portable
- 9) Power Requirements - Recharging unit: Input voltage- 220V-240V AC, 50Hz
- 10) Protection- Should have over-charging cut-off with visual symbol.
- 11) Should be FDA/CE/BIS and ISO 13485 approved product.
- 12) Electrical safety conforms to the standards for electrical safety IEC 60601-1 General requirements (or equivalent BIS Standard)
- 13) Shall meet internationally recognised for Electromagnetic Compatibility(EMC)and Electromagnetic Interference(EMI) for electromedical equipment:IEC 60601-1-2
- 14) Certified to be compliant with IEC 60601-2-4 for usability.
- 15) Manufacturer / supplier should have ISO certificate for quality standard.

5. Full HD IR PTZ Camera

The PTZ camera should have the following specifications

- 1/2.8" 2MP CMOS Image sensor (0.9071 centimetres)
- Max. 25/30fps@1080P
- Powerful 25x Optical and 16x Digital zoom
- WDR(120dB), 3D-DNR, Day/Night (ICR), ROI, Defog, AWB, BLC, HLC
- Support Starlight Function
- Up to 300 presets, auto scan, 8 tour, 5 pattern, auto pan
- IR Range of 100 Mtr.
- Max 240° /s pan speed, 360° endless pan rotation



- Built-in 2/1 alarm in/out, IP66, Support PoE+
- Mobile Software: iCMOB, gCMOB
- CMS Software: KVMS Pro

6. GSM transmitter for tracking gharials

- The GSM transmitter should have a weight less than 50g integrated with solar panel to tickle change the rechargeable battery of 200mAh V or more battery capacity, with onboard storage of 5000 fixes or more, free 4G LET data access for transmitter and one year warranty.

7. Weighing balance

- 1 tone load capacity of 6.5'X6.5'/7'X7'/7.5'X7.5' size
- Should give government weight measurement annual certification

8. Digital reptile incubator

- Should have LCD display showing incubation information, with Automatic temperature, humidity and time setting and control, high-low alarm system, optimum air circulation technique, Incubation data memory function, Degree/Faranite convertibility function and Manual setting modes.
- Should have Water supplement system and alarm system, incubation tray, double glazed viewing window
- The supplier should be a Manufacturer/ authorized dealer in a similar business for more than 3 years

9. Digital Bird brooder

- Should have automatic temperature/ humidity setting and control, indoor lighting with dimmer function, air ventilation and humidification fan, brooding tray for easy cleaning, water pump/ air filter and transparent door
- Should be supply with instrumentation for nebulizer and oxygen therapy

10. Digital automatic Bird incubator

- Should have LCD display showing incubation information, automatic temperature, humidity and time setting and control, high-low alarm system, optimum air circulation technique, Incubation data memory function,

Degree/Faranite convertibility, automatic turning/egg rotation with water supplement system and alarm system With incubation tray, Double glazed viewing window and Manual setting mode.

- The supplier should be a Manufacturer/ authorized dealer in a similar business for more than 3 years

11. Variable Volume 8 Channel Pipette, 1-20 uL and 10 - 100 uL (Eppendorf/Thermo brand)

- Should have a volume display,
- Should be supplied with calibration certificate
- Should be made up of premium material ensures a high UV compatible, autoclave and chemical resistance

12. 1-channel, variable microliter pipette set (Eppendorf/Thermo brand)

Pack of 4 pipettes with variable volume range of 0.1 - 2.5 μ L, 0.5 -10 μ L yellow, 10 - 100 μ L and 100 - 1,000 μ L respectively

- Should have provision of 4 digits Volume display, Quick connection clip, spring loaded tip cone, tight fit to the tip, minimum tip attachment and detachment force
- Should have provide Calibration certificate included
- Should be made up of premium material ensures a high UV compatible, autoclave and chemical resistance

13. Inflatable life jacket

- It should automatically inflate upon immersion in water, or when the wearer pulls the inflation handle.
- Should be Light weight, adjustable size, durable, and comfortable to wear, reusable and provided with mesh storage/carry bag.
- Should have Safety certification, high visibility fabric, into a nylon red valise with Velcro and Retro reflective tape and whistle.
- Should have an universal size fit suitable for adult having chest size 70 to 150 cm (28" to 56")



14. Touch screen Laptop (Hp/Dell brand)

- With Pre-loaded MS Office 2019 with lifetime Validity
- With Pre-loaded Windows 11 Home or higher version with lifetime validity
- Should have Intel Graphics Video Card, Hard Drive 512 GB, 14.0-inch touch screen display,
- Core i5 processor 11 gen, 16GB RAM, 512 GB SSD storage
- Should be provided with stylus pen and carry bag

15. Touch screen mobile phone (Samsung brand)

It should have 48 MP back camera, 8 MP front camera, 1080p@30fps video, Android 11 OS, Dual SIM, Octa-core CPU, Wi-Fi, Bluetooth 5.0, GSM, LET and HSPA network, 6000 mAh battery, fast charging, supplied with charger, screen guard and back cover.

16. GPS (Garmin brand)

- Waterproof GPS with resolution with 240 x 320 display pixels, sunlight-readable display.
- Navigator NT map data for turn-by-turn routing on roads
- Supplied with microSD™ card slot and expanded 3.7 GB of internal memory,
- Provision to download satellite images to device and integrate them with your maps



17. Binocular 10-22X50 (Nikon/Olympus brand)

- Should have wide 10-22x zoom magnification and large 50mm objective lenses
- Should have high refractive index BAK4 prisms deliver a round exit pupil and a crisp and clear image with limited edge distortion
- Should have anti-reflection multi-coated optics
- Should have 199-foot field of view at 1000 yards, on 10x power, 56-72mm interpupillary adjustment range and 8.6mm eye relief at 10x power

18. Compass (SUUNTO brand)

- Optical Sighting Compass with Reversed Degrees scales, with 1 Degree graduation, Adjustable Ocular Optic Style 0.5 Degree Accuracy

19. Amirah with glass door

- Should be made of 0.8 mm thick (22 Gauge) Powder coated CRCA Sheet, four shelves provided making 5 equal compartments for storage, back & shelves made of 0.6 mm thick (24 Gauge) Powder coated CRCA Sheet with Solid Welded Legs

20. 6 Shelf Multipurpose Slotted Angle Rack

- 6 Shelf Multipurpose Slotted Angle (Dagrey) Rack of 2mX0.8m dimensions

21. Office table

- Should be made of 15mm thick MDF with melamine finish.
- Should have one full height storage (with shelf) lock and key on the left, 3 pull out drawers with lock and key on the right and one drawer in the centre with lock and key

22. Office chair

- Should have PVC upholstered seat and back with PU foam for complete comfort
- Wooden arm rest and Weight Bearing Capacity of 150 Kg



23. Range Finder

- Should have rechargeable battery, USD cable, water resistance, laser rangefinder measurement tape measuring length
- Should have area/volume/distance/pythagoras range 0.16 to 131 ft/0.05 to 40 m.
- Should have measuring time: 0.1-3 second, measuring accuracy: ± 1.5 mm.
- Should have measuring units: M/foot/inch, measuring modes: Area/volume/ pythagorean theorem/ continuous measurement.
- Should have laser class 2, laser type 635nm & display backlight.
- Should be easy to hold & carry.
- Should have historical data record.
- Should have backlit LCD display.

24. 32 GB SDHC memory card

- 32 GB memory card with speed of 90 MB/sec compatible with SDHC Enabled Devices

25. Portable platform ladder

- The platform ladder should have highest platform height 31feet
- Made up of aluminum ladder, iron platform, and iron base
- It should have folding at height of 18 feet

26. Wide mini sub-cell GT system, with 15X10cm tray, with mini-gel caster, with fixed height combs (Bio-rad)

The Sub-Cell GT cell offers the widest choice of gel lengths, comb types, and lane configurations of any Sub-Cell model. Separate 30 samples over a distance of up to 25 cm, or use four combs and analyze as many as 120 sample.

Gel sizes, cm (W x L) : 15 x 10, 15 x 15, 15 x 20, 15 x 25

Sample throughput: 1-120**

Base buffer volume, L : ~ 1.0

Cell size, cm (W x L x H) : 18 x 40.5 x 9.4

Distance to electrode, cm : 29.5

Bromo phenol blue dye migration rates: ~ 3.0 cm/hr (at 75 V)

