

**ICAR STANDARD BIDDING DOUCMENTS
FOR
PURCHASE OF GOODS**

Two Bid System

**Document to be submitted separates for (Technical & Financial Bid as per Schedule
of requirement)**



**ICAR-NATIONAL INSTITUTE OF BIOTIC STRESS MANAGEMENT
BARONDA, RAIPUR(C.G.)- 493225**



भाकृअनुप-राष्ट्रीय जैविक स्ट्रेस प्रबन्धन संस्थान

बरौंडा, रायपुर, छत्तीसगढ़-493 225



ICAR-NATIONAL INSTITUTE OF BIOTIC STRESS MANAGEMENT
BARONDA, RAIPUR, CHHATTISGARH - 493 225

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F.No. 9-46/NIBSM/2019

Date- 01-11-2019

TENDER NOTICE 2019

1. The Director, **NIBSM, Raipur (C.G.)** invites sealed bids from eligible bidders for the procurement and installation/commissioning (where ever required) of Scientific & laboratory equipment-

S.No.	Name of the equipment	Qty.	Bid Security
1	Rotary Vacuum Evaporator	1	4500=00
2	Digital Camera	1	3000=00
3	Hot air oven	2	3000=00
4	Digital Microtome	1	4500=00
5	Deep Freezer -20	1	6000=00
6	Entomology class Room establishments With Audio Visual Accessories	4 sets One in Each item	9000=00
7	Stero Zoom Microscope with accessories	1	15000=00
8	Auto Clave	3	9000=00
9	Soxhlet apparatus	2	1800=00
10	Dissection microscope	20	1200=00
11	BOD Incubator	1	4500=00
12	Incubator Shaker	1	6000=00
13	Digital weighing balance	2	7500=00
14	Distillation unit	1	4500=00
15	Centrifuge	2	6000=00
16	Thermal cyler	1	10500=00
17	Electrophoresis System (Horizontal And Vertical	2	12000=00
18	Micro plate reader	1	30000=00
19	Deep Freezer -80°C	1	15000=00
20	Microcentrifuge	1	9000=00
21	Gel Documentation System	1	24000=00
22	Compound Microscope with Photographic	1	4500=00
23	Distillation Unit	1	4500=00
24	Incubator Shaker	1	12000=00
25	Microtome	2	12000=00
26	Trinocular Stereoscopic Microscope	1	2400=00
27	Autoclave	1	3000=00
28	Autoclave Verticle	1	3000=00

29	Deep Freezer (-20)	1	6000=00
30	Digital Weighing Balance	2	6000=00
31	Class room accessories for PG Lab.		9000=00
	LCD Projector	1	
	Smart Class Projector board	1	
	5 Core Podium - 01	1	
	Computer (Notebook)	1	
	Table top Centrifuge	1	7500=00
32	Spectrophometer	1	7500=00
33	Hot air oven with Voltage stabilizer	2	7500=00
34	BOD incubator with Voltage stabilizer	2	12000=00
35	Laminar Air Flow 4x3x6	1	9000=00
36	Laminar Air Flow 4x2x2	1	
37	Fume Hood	1	6000=00
38	Chlorophyll Meter	1	6000=00
39	Zero till seed drill	1	4500=00
40	Lawn Mower	2	3000=00
41	Power tiller	2	12000=00
42	Thresher	1	6000=00
43	Aqua ferti seed drill	1	4500=00
44	Happy Seeder	1	7500=00
45	Sprayers with Safety Kit	10	6000=00
46	Class room accessories With audio visual Facility projector & Computer etc.	1	9000=00
47	Electronic balance	2	6000=00

2. Interested bonafide and reputed manufacturers/Indian agents (on behalf of their foreign principals) may **download** separate bidding document for each of the above equipment alongwith specification etc., at our website **www.nibsm.res.in**. During any working day between 10.00 A.M to 5.00 PM and submit separate bidding document for each equipment alongwith separate non refundable fee of Rs.1000/- through crossed Bank Draft/Banker's Cheque (non-refundable) drawn on a schedule commercial Bank in India in favour of **"ICAR Unit- NIBSM" Raipur (C.G.)** payable at Raipur (C.G.) along with the Bid Security.

The tender form should be submitted as per following schedule:-


Date/Time of acceptance of bidding document : 22 /11/2019 : up to 10.30 hrs

Date/time of opening of Bid (Technical Bid) : 22/11/2019: at 11.00 hrs

Date/time of opening of Financial Bid : 22/11/2019.: at 15.00 hrs

3. The bidders may send duly completed bidding form as per instruction contained in the bidding documents. Incomplete bid or bid received beyond date/time notified above shall be out rightly rejected. The conditions of tender shall be governed by the details contained in complete bid document. **The Director, ICAR-NIBSM, Baronda, Raipur (C.G.)** reserves the right to accept or reject any or all the bids without assigning any reasons thereof. The bids shall be opened as per schedule in the presence of the bidder's authorized representative who choose to attend at the address given in point no.2 above.

4. In the event of any of the above dates being declared as a holiday/closed day for the purchase, the bids will be sold/received/opened on the next working day at the appointed time.


(A.A. Goswami)
Sr. Administrative Officer

BIDDING DOUCMENTS FOR PURCHASE OF GOODS

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INSTRUCTION TO BIDDERS (ITB)

A. INTRODUCTION

1. Source of funds

1.1 The expenditure to be incurred for this intended purchase will be met from the funds available with the purchaser named in the Schedule of requirements, hereinafter referred to as “the purchaser”.

2. Eligible bidders

2.1 This invitation for bids is open to all suppliers, who fulfill the eligibility criteria as well as the qualification criteria, incorporated in this document.

3. Cost of bidding

3.1 The bidder shall bear all costs associated with the preparation and submission of its bid including samples, drawings, literatures etc., if any. The purchaser will in no case be responsible or liable any such cost, regardless of the conduct or outcome of the bidding process.

B. THE BIDDING DOCUMENTS

4. Content of bidding documents

4.1 The goods required, bidding, procedures and contract terms are prescribed in the bidding documents. In addition to the invitation for Bids, the bidding documents include.

- a. Instruction to Bidders (ITB).
- b. General Conditions of Contract (GCC)
- c. Schedule of Requirements
- d. Technical specification and Quality Control Requirements
- e. Questionnaire
- f. Bid Form and Price Schedules
- g. Bank Guarantee Form for Bid Security.
- h. Manufacturers Authorization Form
- i. Bank Guarantee Form for Performance Security.
- j. Contract Form

4.2 In case of any contradiction between the stipulations made in ITB & GCC and Schedule of Requirements, the stipulations incorporated in the Schedule of Requirements will prevail over the corresponding stipulation contained in the ITB and/or GCC.

4.3 The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidders risk and may result in rejection of its bid.

5. Clarification of bidding documents

5.1 A prospective bidder requiring any clarification in connection with the bidding documents may notify the purchaser in writing or by telex or cable at the purchaser’s mailing address indicated in the **Schedule of Requirements**. The purchaser will respond in writing to any request for clarification of bidding documents which it receives no later than 21 (twenty one) days prior to the deadline for submission of bids prescribed by the purchaser. The purchaser, at its discretion, may send the relevant text of this correspondence (without identifying the source of inquiry) to all the prospective bidders, which have received the bidding documents.

6. Amendment of bidding documents

- 6.1 At any time prior to the deadline for submission of bids, the purchaser may, for reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 6.2 The amendment will be notified in writing or by telex or cable to all prospective bidders, which have received the bidding documents and will be binding on them.
- 6.3 In order to provide the prospective bidders with reasonable time in which to take the amendment into account in preparing their bids, the purchaser may, at its discretion, extend the deadline for the submission of bids and other allied time frame having linkage with that deadline.

C. PREPARATION OF BIDS

7. Language of bid

- 7.1 The bid submitted by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser, shall be written in English Language, Supporting documents and printed literature furnished by the bidder may be written in other languages, provided they are accompanied by an English translation of their relevant passages in which case, for the purpose of interpretation of the bid, the English translation shall govern.
- 7.2 The bid submitted by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser, may also be written in Hindi language, provided that the same is accompanied by an English translation shall govern.

8. Document constituting the bid

- 8.1 The bid submitted by the bidder shall comprise of the following documents.
 - (a) Bid form and a price schedule in accordance with ITB clauses 9, 10 and 11.
 - (b) Documentary evidence established in accordance with ITB clause 13 that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
 - (c) Documentary evidence established in accordance with ITB clause 14 that the goods and ancillary services to be supplied by the bidder conform to the bidding documents
 - (d) Bid security furnished in accordance with ITB clause 15.
 - (e) The questionnaires (attached with the bidding documents) duly filled in.

NOTE: A bid which does not fulfill any of the above requirements and/or gives evasive information/reply against any such requirement shall be liable to be declared in responsive and summarily rejected.

9. Bid Form

- 9.1 The bidder shall complete the bid form and the appropriate price schedule furnished in the bidding documents in section VII/1, indicating, inter alia for the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.

10. Bid prices

- 10.1 The Bidder shall indicate on the Price Schedule the unit price and total bid prices of the goods it proposes to supply under the Contract. To this end, the Bidders are allowed the option to submit the bids for any one or more schedule specified in the 'Schedule of Requirement' and to offer discounts for combined schedules. However, Bidders shall quote for the complete requirement of goods and services specified under each schedule on a single responsibility basis, failing which such bids (for the schedule in question) will not be taken into account for evaluation and will not be considered for award.

- 10.2 Prices indicated on the price schedule shall be entered separately in the following manner.
- I. **for goods offered from within India**
- a) The price of the goods, quoted ex-factory, ex-showroom, ex-warehouse or off-the-shelf, as applicable, including customs, excise and any other duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the goods quoted ex-factory or on the previously imported goods of foreign origin quoted ex-showroom, ex-warehouse or off-the-shelf.
 - b) Any sales or other taxes/duties including excise duty, which will be payable on the goods in India if the contract is awarded.
 - c) Charges for inland transportation, insurance and other local costs incidental to delivery of goods to their final destination. The final destination is specified in the **schedule of requirements**.
 - d) The price of incidental services as and if listed in **Schedule of Requirements**.
 - e) Any element of cost, taxes, duties levies etc. not specifically indicated in the bid, shall not be paid by the purchaser.
- II **for goods offered from abroad-**
- a) The price of goods shall be quoted CIF port of entry in India or CIP named place of destination in India as and if specified in the **Schedule of Requirements**. In quoting the prices, the bidder shall use ocean transportation through Indian flag vessels of Indian origin or through vessels of Shipping Conference Lines in which India is a member country. Similarly, the bidder may obtain insurance services from any nationalized insurance company in India.
 - b) The price of goods shall be quoted FOB port of shipment, as and if specified in the **Schedule of Requirements**.
 - c) Charges for inland transportation, insurance and other local costs incidental to delivery of the goods from the port of entry in India to their final destination, which is specified in the **Schedule of Requirements**.
- And
- d) The price of incidental services as and if listed in the **schedule of Requirements**.
 - e) Any element of cost, taxes, duties, levies etc not specifically indicated in the bid, shall not be paid by the purchaser.
- 10:3 the terms FOB, CIF, CIP etc shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris.
- 10:4 The bidder's separation of the price components in accordance with ITB clause 10.2 above will be solely for the purpose of facilitating the comparison of bids by the purchaser and will not in any way limit the purchase's right to contract on any of the terms offered.
- 10.5 Prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account, unless otherwise specified in the **Schedule of Requirements**. If the requirement is for a fixed price bid, a bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to ITB clause 23.

11 **Bid currencies**

- 11.1 For domestic goods prices shall be quoted in Indian rupees only. Commission for Indian Agent, if payable, shall also be quoted in Indian Rupees only in a manner as specified in ITB Clause No.12.2. For imported goods prices shall be quoted either in Indian rupees or may be quoted in foreign currency (currencies) and the portion of the allied work and services, which are to be undertaken in India (like installation & commissioning of equipment) are to be quoted in Indian currency.

12. Indian Agent

- 12.1 If a foreign bidder has engaged an agent in India in connection with its bid it will be required to give the following information in the bid:
- i) The name and address of the Indian agent with their permanent income tax number.
 - ii) The details of the services the agent will render.
 - iii) The amount remuneration for the agent, included in the FOB component of the bid price.
- 12.2 The agency commission shall be indicated in the space provided for in the price schedule and will be paid to the bidder's agent in Indian rupees using the telegraphic transfer buying rate of exchange ruling on the date of award of contract and shall not be subject to any further exchange variation.

13. Documents establishing bidder's eligibility and qualifications

- 13.1 Pursuant to ITB clause 8, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.
- 13.2 The documentary evidence of the bidder's qualifications to perform the contract if its bid is accepted, shall establish to the purchaser's satisfaction:
- a) That, in the case of bidder offering to supply goods under the contract which the bidder did not manufacture or otherwise produce, the bidder has been duly authorized (as per authorization form in section VII/3) by the good's manufacturer or producer to supply the goods in India. **The Authorization Certificate should be form the "Manufacturer" only and certificate from any other firm/person including OEM arrangements would be not be accepted.**
 - b) That the bidder has financial, technical and production capability necessary to perform the contract and, also, it meets the criteria indicated in the Schedule of Requirements.
 - c) That, in the case of bidder not doing business in India, the bidder is or will be (if successful) represented by an agent in India equipped and able to carry out the supplier's maintenance, repair and spare parts stocking obligations prescribed by the conditions of contract and/or technical specifications.
 - d) That such an agent (w.r.to sub-para c above) is enlisted with **Directorate General of Supplies & Disposals, Jeevan Tara Building, Sansad Marg, New Delhi-110 001**, under the scheme of Ministry of Finance, Govt. of India for compulsory enlistment of Indian Agents.
 - f) If an agent in its bid submits quotations on behalf of more than one manufacturer, it is necessary that each such bid is accompanied by a separate bid form and bid security for each such quotation and authorization from the respective manufacturer (as per authorization form in section VII/3). Otherwise all such quotations will be rejected as non-responsive.

14. Documents establishing good's eligibility and conformity to bidding document.

- 14.1 Pursuant to clause 8, the bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the bidder proposes to supply under the contract.
- 14.2 The documentary evidence for eligibility of the goods and services shall consist of a statement in the price schedule, about the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the time of shipment.
- 14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, data etc. and shall consists of:
- a) A detailed description of the goods, essential technical and performance characteristics.
 - b) A list giving full particulars, including available sources and current prices, of all spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of two years (or more, if specified in the schedule) following commencement of the use of the goods by the purchaser; and
 - c) A clause – by- clause commentary on the purchaser's "Technical Specifications" demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the 'Technical specifications'.
- 14.4 For purposes of the commentary to be furnished to ITB clause 14.3 c above, the bidder shall note that the standards of workmanship, material and equipment and reference to brand names or catalogue numbers, if any designated by the purchaser in its 'Technical Specifications' are intended to be descriptive only and not restrictive. The bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the purchaser's satisfaction that the substitutions are substantially equivalent or superior to those mentioned in the 'Technical Specifications'.

15. Bid Security

- 15.1 Pursuant to clause 8, the bidder shall furnish as part of its bid, a bid security of an amount specified in the Schedule of Requirements.
- 15.2 The bid security is required to protect the purchaser against risk of bidder's conduct, which would warrant the security's forfeiture, pursuant to ITB clause 15.7.
- 15.3 The bid security shall be denominated in the currency of the bid or in Indian Rupees and shall be in one of the following forms:
- a) Demand draft on a scheduled commercial bank in India, drawn in favour of the designated officer of the purchase organization and payable at a place as indicated by the purchaser in the schedule of Requirements.
 - b) A bank guarantee, issued by a scheduled commercial bank in India or a bank abroad, duly confirmed by a scheduled commercial bank in India in the form provided in the bidding documents under section VII/2 and valid for 45 days beyond the validity of the bid.
- 15.4 Any bid from a bidder, not secured in accordance with ITB clauses 15.1 and 15.3 will be summarily rejected by the purchaser, as non-responsive, pursuant to ITB clause 24.
- 15.5 Unsuccessful bidders bid security will be discharged/returned as promptly as possible after the expiration of the period of bid validity prescribed by the purchaser, pursuant to ITB clause 16, but, barring any unforeseen circumstances, not later than 45 days of the award of contract.
- 15.6 The successful bidder's bid security will be discharged/returned upon the bidder, signing and accepting the contract pursuant to ITB clause 33 and furnished the performance security, pursuant to ITB clause 34.

- 15.7 The bid security may be forfeited.
- a. If a bidder:
 - i. Withdraws its bid or impairs or derogates from the bid in any respect during the period of bid validity specified by the bidder on the bid form;

or
 - ii. Does not accept the correction of errors pursuant to ITB clause 24.2
 - b. In the case of successful bidder, if the bidder fails:
 - i to accept and sign the contract in accordance with ITB clause 33.
 - ii to furnish performance security in accordance with ITB clause 34.

16. Period of validity of bids

- 16.1 Bids shall remain valid for acceptance for 120 (one twenty) days after the date of bid submission prescribed by the purchase, pursuant to ITB clause 19. A bid valid for a shorter period shall be rejected by the purchaser as non-responsive.
- 16.2 In exceptional circumstances, the purchaser may solicit the bidder's consent to an extension of the period of bid validity up to a specified period. The request and the response thereto shall be made in writing (or by facsimile or cable or telex, which will be followed by a signed confirmatory copy simultaneously). The bid security provided under ITB clause 15 shall also be suitably extended. A bidder may refuse the request without forfeiting its bid security. However, a bidder agreeing to the request will not be required nor permitted to modify its bid.
- 16.3 If the date up to which the bid is to remain valid happens to be a closed holiday for the purchaser, the bid shall automatically remain valid up to the next working day of that organization.

17. Format and signing of bid

- 17.1 The bidder shall prepare two copies of the bid, clearly making them "Original Bid" and "Duplicate copy of Bid" respectively. In the event of any discrepancy between them, the original shall govern.
- 17.2 The original and the copy of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. All pages of the bid, except for unamended printed literature, shall be uninitiated by the person or persons signing the bid.
- 17.3 Any interlineations, erasures or overwriting in the bid shall be valid only if they are initiated by the persons signing the bid.
- 17.4 The front page of the bidding documents, containing the signature with date of the official (of the purchase organization) selling/ dispatching the documents and the seal of that office must be returned in original by the bidder along with the original copy of the bid, failing which the bid is liable to be ignored.

D. SUBMISSION OF BIDS

- 18 Sealing and marking of bids
- 18.1 The bidder shall seal the original and the duplicate copy of the bid in separate envelopes, duly marking the envelopes as "Original" and "Duplicate" respectively. These envelopes shall then be sealed in an outer envelope. (In case more than two copies are required as per specific stipulation in the **Schedule of Requirements**, the copies of the bids shall be marked accordingly, like "Original", "Duplicate", "Triplicate" and so on. Each copy of the bid shall be sealed in a separate envelope and these envelopes shall then be sealed in an outer envelope)
- 18.2 The inner and outer envelopes shall be:
- a. addressed to the purchaser at the address given in the **Schedule of Requirements**.
 - b. bear the invitation for bids (IFB) number and the words "DO NOT OPEN BEFORE.....(**The time and date of bid opening, as specified in the Bid Data Sheet**).

- 18.3 Each inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" or if the invitation of bids (IFB) is cancelled.
- 18.4 If the outer envelope is not sealed and marked as required by ITB clause 18.2, the purchaser will not assume any responsibility for the bid's misplacement or premature opening.
- 18.5 Bids sent by telegram, Telex, cable or facsimile are not acceptable and will be rejected.
19. **Deadline for submission of bids**
- 19.1 Bids must be received by the purchaser at the address specified under ITB clause 18.2 not later than the time and date specified in the **Schedule of Requirements** and the purchaser will provide a receipt (inter alia containing time and date of receipt) for the same. If that specified date happens to be a closed holiday for the purchaser, the bids will be received up to the appointed time on the next working day. If the **Schedule of Requirements** provides for receipt of bids through "tender box" the bids shall be submitted accordingly as per the instruction given in the **Schedule of Requirements**.
- 19.2 The purchaser may at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB clause 6, in which case all rights and obligations of the purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline will thereafter be subject to the deadline as extended.
20. **Late bids**
- 20.1 Any bid received by the purchaser after the deadline for submission of bids prescribed by the purchaser, pursuant to ITB clause 19 will be rejected and/or returned to the bidder.
21. **Modification and withdrawal of bids**
- 21.1 The bidder may modify or withdraw its bid after submitting the same, provided that written notice of the modification or withdrawal is received by the purchaser prior to the deadline prescribed for submission of bids.
- 21.2 The bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of ITB clause 18, A withdrawal notice may also be sent by telex or cable or facsimile, but the same must be followed by a signed confirmation copy, postmarked no later than the deadline for submission of bids.
- 21.3 No bid may be modified subsequent to the deadline for submission of bids.
- 21.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidder in the bid form. Withdrawal of a bid during this interval may result in forfeiture of the Bidder's bid security pursuant to ITB clause 15.7.

E. BID OPENING AND BID EVALUATION

22. Opening of bids by purchaser

- 22.1 The purchaser will open the bids in the presence of bidders representatives, who choose to attend, at the time, date the place specified in the **Schedule of Requirements**.

If the specified date of bid opening is declared a holiday for the purchaser, the bids shall be opened at the appointed time and location on the next working day.

- 22.2 The representative of a bidder, who intends to attend the bid opening, shall bring with him/her a letter of authority from the bidder on the bidder's letter head, duly authorizing him/her to attend the bid opening. In the absence of such a letter of authority, the representative(s) will not be allowed to enter and attend the bid opening. The bidder's representatives, who attend the bid opening, shall sign a register (which will be provided by the purchaser evidencing their attendance).
- 22.3 The bidder's name, technical specifications of the goods offered, bid prices, discount, the presence or absence of requisite bid security and such other details as the purchaser, at its discretion, may consider appropriate will be announced at the bid opening.
- 22.4 The purchaser will prepare appropriate minutes of the bid opening for its official record.

23 Clarification of bids

23.1 During scrutiny and evaluation of bids, the purchaser may, at its discretion, ask a bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

24. Preliminary examination of bids-unresponsive, substantially responsive & responsive bids

24.1 The purchaser will examine the bids to determine whether they are complete, whether the required bid validity is available, whether any computational error have been made, whether required bid Security has been furnished, whether the documents have been properly signed, and whether the bids are generally in order. While examining the bids, the purchaser will also keep in view the requirements as per ITB Clause 8.

24.2 Arithmetical errors, if any, in a bid will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected accordingly. If there is a discrepancy between the words and figures, the amount in words shall prevail. If the supplier does not accept the correction of such error, its bid will be rejected.

24.3 Prior to the detailed evaluation pursuant to ITB clause 26, the purchaser will determine the substantial responsiveness of each bid to the bidding documents. A substantially responsive bid is one which conforms to all the requirements and terms & conditions of the bidding documents, including the specification and technical parameters of the goods as projected in the bidding document, without material deviations. Deviations from or objections or reservations to the bidding documents critical provisions, such as those concerning bid validity, technical specification, performance security, warranty obligations, Force Majeure, taxes & duties and applicable law (governing the contract) will be deemed to be material deviations. Bids from an agent without proper authorization from the manufacturer as per ITB clause 13.2(a), shall be treated as non-responsive.

The purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

24.4 The purchaser may waive any minor infirmity, non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.

24.5 The conclusion drawn by the purchaser as to the substantial responsiveness or otherwise of a bid or consideration of a minor infirmity or non-conformity or irregularity in a bid is final.

24.6 If a bid is determined as not substantially responsive, it will be rejected by the purchaser and may not subsequently be made responsive by the bidder by correction of the non-conformity.

25. Conversion to single currency

25.1 To facilitate evaluation and comparison of bids, the purchaser will comparison of bids, the purchaser will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable, to Indian rupees at the BC selling market rate of exchange established by the State Bank Of India for similar transactions as on the date of bid opening.

26. **Evaluation and comparison of bids**

- 26.1 The purchaser will evaluate and compare the bids, which have been determined to be substantially responsive, pursuant to ITB clause 24 for each **schedule separately**. The bid for a schedule will not be considered if the complete requirements covered in the schedule is not included in the bid. However, as stated in ITB clause 10, bidders are allowed the option to bid for any one or more schedule and to offer discounts for combined schedules. These discounts will be taken into account in the evaluation of the bids so as to determine the bid or combination of bids offering the lowest evaluated cost for the purchaser in deciding award(s) for each schedule.
- 26.2 The comparison shall be on CIP destination basis, duly delivered and commissioned (as the case may be) at the destination.
- 26.3 The purchaser's evaluation of a bid will include and take into account, in addition to bid price and price of the incidental services:
- a) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, which will be payable on the goods if a contract is awarded to the bidder.
 - b) In case of goods of foreign origin offered from abroad, customs duties and other similar import duties/taxes, which will be payable on the goods if the contract is awarded to the bidder.
- 26.4 The purchaser's evaluation of bid will also take account the following factors in the manner and to the extent specified in the **Schedule of Requirements** and amplified in ITB clause 26.5:
- a. Cost of inland transportation, insurance and other costs within India incidental to delivery of the goods to their final destination as stipulated in the **Schedule of Requirements**.
 - b. Delivery schedule offered in the bid,
 - c. the cost of components, spare parts and service,
 - d. the availability of spare parts and after-sale service in India for the goods offered in the bid.
 - e. The projected operating and maintenance cost during the life of the equipment.
 - f. Specific additional criteria.
- 26.5 Pursuant to clause 26.4, following evaluation methods will be followed:
- a) **Inland transportation, insurance and incidentals:**
Bidder shall quote separately for inland transportation, insurance and other incidentals for delivery of goods to required destination as already indicated in the **Schedule of Requirements**. These Costs, incurred in India, shall be quoted in Indian currency. Such cost will be added by the purchaser to the EXW/CIF/CIP bid price.
 - b) **Delivery Schedule:**
The purchaser requires that the goods mentioned in the 'Schedule of Requirements' shall be delivered at the destination within the time schedule specified therein. As and if necessary, the estimated time of arrival of goods from ex-works/port of entry to the destination will be calculated by the purchaser for each bid after allowing for reasonable transportation time based on the published tariff of Railways, appropriate Road Transport Agencies etc. Bids offering deliveries (as worked out on above lines), which are later than the specified delivery but within the allowable range (as specified in the **Schedule of Requirements**) will be adjusted during the evaluation by adding a factor equal to the percentage specified in the **Schedule of Requirements**, to the EXW/CIF/CIP price per week of variation from the specified delivery schedule.

- c) **Cost of components and spare parts:**
- i) the list of items and quantities of major assemblies, components and selected spare parts, likely to be required during the initial period off operation as specified in the **Schedule of Requirements**, is annexed to the Technical specification. The total cost of these items, at the unit prices quoted in each bid, will be added to the bid price.
OR
- ii) The purchaser will draw up a list of high usage and high value items of components and spare parts, along with the estimated quantities of usage in the initial period of operation as indicated in the Schedule of Requirements. The total cost of these items and quantities will be computed from the corresponding unit prices quoted by the bidder and added to the bid price.
OR
- iii) The purchaser will estimate that cost of spare parts usage in the initial period of operation specified in the Schedule of Requirements, based on the information furnished by each bidder, as well as on the past experience of the purchaser or other purchaser in similar situations. Such costs shall be added in the bid price for evaluation.
- d. Availability of spare parts and after sales service facilities in India:
The cost to the purchaser of establishing the required service facilities and parts inventories, as outlined in the Schedule of Requirements of elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.
- e. The projected operating and maintenance cost during the life of the equipment:
These costs, which form a major portion of the life cycle cost of the equipment, will be evaluated in accordance with the criteria specified in the **Schedule of Requirements** and/or in the Technical Specifications.
- f. Specific additional criteria:
Other specific additional criteria to be considered in the bid evaluation and the corresponding evaluation method shall be incorporated in the **Schedule of Requirements** and/or in the Technical Specifications.

27. Bidder's capability to perform the contract

- 27.1 The purchaser will determine to its satisfaction whether the bidder, which is selected as having submitted the lowest evaluated responsive bid, is qualified and prima facie capable to perform the contract satisfactorily.
- 27.2 The determination will take into account the bidder's financial, technical and production capabilities for fulfilling all the requirements of the purchaser as specified in the bidding documents. This exercise will be based upon the examination of the documentary evidence of the bidder's qualifications submitted by the bidder, pursuant to ITB clause 2 and 13, as well as such other allied information as the purchaser deems necessary and appropriate.
- 27.3 An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder's bid, in which event the purchaser will proceed to the next lowest evaluated bid to make a similar determination of the bidder's capabilities to perform satisfactorily.

28. Purchaser's right to vary quantities at the time of award.

- 28.1** The purchaser reserves the right at the time of awarding the contract to increase or decrease by up to 25%, the quantity of goods and services specified in the schedule of requirements without any change in the unit price or other terms and conditions.

29. Contacting the purchaser

- 29.1 From the time of the bid opening to the time of awarding the contract, if a bidder wishes to contact the purchaser on any matter related to the bid, it should do so in writing.

- 29.2 Any effort by a bidder to influence the purchaser in the purchaser's decision on bid evaluation, bid comparison or contract award shall result in the rejection of the bidder's bid, besides other suitable administrative actions against the bidder, as deemed fit by the purchaser.

F. AWARD OF CONTRACT

30. Award Criteria

- 30.1 Subject to ITB clause 28, the purchaser will award the contract to the successful bidder whose bid has been determined as the lowest evaluated bid, provided further that the bidder is determined to be qualified and prima capable to perform the contract satisfactorily.

31. Purchaser's right to accept any bid and to reject any or all bids

- 31.1 The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without thereby incurring any liability, whatsoever, to the affected bidder or bidders.

32. Notification of award

- 32.1 Before the expiry of the period of bid validity, the purchaser will notify the successful bidder in writing, by registered letter or by cable/fax/telegram/telex, to be confirmed in writing by registered letter that its bid has been accepted. The schedule(s) of requirement and the corresponding quantity of the item(s) ordered, which has been accepted, will, inter-alia, be mentioned in the notification.

- 32.2 The notification of award will constitute the formation of the contract.

- 32.3 Upon the successful bidder's furnishing the performance security, pursuant to ITB clause 34, the purchaser will promptly notify each unsuccessful bidder and will discharge its bid security, pursuant to ITB clause 15.

33. Signing of contract

- 33.1 At the same time as purchaser notifies the successful bidder that its bid has been accepted, the purchaser will send to the bidder by registered post or speed post, the contract form provided in the bidding documents, incorporating all agreements between the parties.
- 33.2 Within twenty-one (21) days of issue of the contract from by the purchaser, the successful bidder shall sign and date the contract and return it to the purchaser by registered post or speed post.

34. Performance security

- 34.1 Within twenty-one (21) days of the issue of notification of award by the purchaser, the successful bidder shall furnish the performance security in accordance with and as per the instructions incorporated in the general conditions of contract with regard to performance security.
- 34.2 Failure of the successful bidder to comply with the requirement of clause 33 or clause 34 shall constitute sufficient grounds for annulment of the award and forfeiture of the bid security, in which even the purchaser may make the award to the next lowest evaluated bidder or call for new bids.

SECTION -III

GENERAL CONDITIONS OF CONTRACT (GCC)

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GENERAL CONDITIONS OF CONTRACT (G.C.C)

1. Definitions

1.1 In this contract the following terms shall be interpreted as indicated.

- a) "IFB" means invitation for bids
- b) "ITB" means Instruction of Bidders.
- c) "GCC" means General Conditions
- d) 'RC' means rate Contract
- e) "Contract" means a legal agreement entered into between the purchaser and the supplier, as recorded in the agreement signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- f) "Contract Price" means the price payable to the supplier under a contract for the full and proper performance of its contractual obligations.
- g) "Goods" means all the items, materials, equipment and/or machinery, which the supplier is required to supply to the purchaser in terms of a contract.
- h) "Services" means the services ancillary to the supply of the goods, such as transportation and insurance and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other such obligations of the supplier covered under contract.
- i) "Purchaser" means the buyer named in a bidding document and in the corresponding contract, purchasing the goods ordered and includes its successor and/or assignees.
- j) "Consignee" means the individual or body to whom the contracted goods are required to be delivered as per the terms and the conditions incorporated in a contract.
- k) "Supplier" means the individual or firm supplying the goods under a contract and includes its successor and/assignees.
- l) "Day" means calendar day of the Gregorian calendar.
- m) "Month" means calendar month of the Gregorian calendar.

2. Application

2.1 These general conditions of contract (as contained in this section) shall apply to the extent they are not superseded by provisions in other parts of the contract:

3. Country of origin

3.1 All goods and services supplied under the contract shall have their origin in India or in the countries, with which the Government of India has trade relations.

3.2 For purposes of this clause, "Origin" means the place where the goods are mined, grown or produced or from which the services are supplied. Goods are produced when through manufacturing, processing and substantial or major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of goods and services is distinct from the nationality of the supplier.

4. Standards

4.1 The goods supplied under this contract shall conform to the standards mentioned in the Technical Specifications and when no applicable to the goods country of origin.

5. Use of contract documents and information

5.1 The supplier shall not, without the purchaser's prior written consent disclose the contract or any provision thereof or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the purchaser in connection therewith to any person other than a person employed by the supplier in the performance of the contract. Also, disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for the purposes of such performance.

- 5.2 The supplier shall not without the purchaser's prior written consent, make use of any document or information enumerated in GCC sub clause 5.1 except for the purpose of performing the contract.
- 5.3 Every document other than the contract itself, mentioned in GCC sub-clause 5.1, shall remain the property of the purchaser and shall be returned (in all copies) to the purchaser on completion of the supplier's performance under the contract, if so required by the purchaser.
6. **Patent rights**
- 6.1 The supplier shall at all times indemnify the purchaser, free of cost, against all third-party claims of infringement of patent, trade mark or industrial design rights arising from use of the goods or any part thereof in India.
7. **Performance Security**
- 7.1 Within 21(twenty one) days after the issue of notification of award by the purchaser the supplier, shall furnish performance security to the purchaser for an amount off 10% (ten per cent) of the contract value, valid up to 60 (sixty) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.
- 7.2 In the event of any correction of defects or a replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of twelve months from the date of the correction/replacement and the Performance Security for the proportionate value (which will be determined by the purchaser in consultation with the supplier) shall be extended by 60 (sixty) days over and above the extended warranty period.
- 7.3 In the event of any contract amendment, the supplier shall, within 21 (twenty one) days of issue of such amendment, furnish the necessary amendment to the performance Security, rendering the same valid in all respects in terms of the contract,as amended.
- 7.4 The proceeds of the Performance Security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract.
- 7.5 The performance security shall be denominated in Indian Rupees or in the currency of the contract and shall be in one of the following forms:
- a) Cash in Indian currency,
 - b) Demand Draft on any scheduled commercial bank in India, to be drawn in favour of the purchaser as indicated in the Schedule of Requirements.
 - c) Bank Guarantee issues by a scheduled commercial bank in India, in the prescribed form as provided in section VII/4 of this bidding document.
- 7.6 Subject to GCC sub-clause 7.4 above, the performance security will be discharged by the purchaser and returned to the supplier on completion of the supplier's contractual obligations including the warranty obligations under the contract.
8. **Inspection and tests**
- 8.1 The purchaser and/or its nominated representative(s) shall have the right to inspect and/or to test the goods to confirm their conformity to the contract specification and other technical details incorporated in the contract at no extra cost to the purchaser. The **Schedule of Requirements** and the Technical Specification incorporated in the bidding document shall specify what inspections and tests, the purchaser requires and where and how they are to be conducted. The purchaser shall notify, in advance, the supplier in writing, of the identify of any representatives) for this purpose.
- 8.2 The inspections and tests may be conducted on the premises of the supplier or its subcontractor(s) at the point of delivery and/or at the goods final destination. If conducted on the premises of the supplier or its subcontractor(s), all details and production data, shall be furnished by the supplier to the inspectors at no charge to the purchaser.
- 8.3 Should any inspected or tested goods fail to conform to the required specifications and standards, the purchaser may reject them and the supplier shall either replace the rejected goods or make all alteration necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser for conducting the inspections and tests again.
- 8.4 Where the contract stipulates pre-despatch inspection by the purchaser's nominated inspecting agency, the supplier shall put up the goods for inspection to the inspecting agency well ahead of time so that the inspecting agency is able to complete

the inspection within the stipulated delivery period. If the goods are tendered for inspection at the last moment without providing reasonable time to the inspection agency for completing the inspection, the inspecting agency may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the items have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.

- 8.5 The purchaser's right to inspect, test and where necessary reject the goods after the goods arrival at the final destination shall in no way be limited or waived by reason of the goods having previously been inspected, tested and passed by purchaser or its representatives prior to the despatch of the goods from the country of origin or from the supplier premises.
- 8.6 Nothing in GCC clause 8 shall in any way, release the supplier from any warranty or other obligations under the contract.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during their transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand without limitation rough handling and exposure to extreme temperatures, humid weather and precipitation during transit and open storage. The sizes and weights of the packing cases shall also take into consideration, where applicable, the available inland mode(s) of transport in India, the remoteness of the goods final destination and the absence of heavy handling facilities at all points in transit Further limitations and / or mandatory instructions, if any, in the weights, volumes and sizes of the packages shall also be taken care of by the supplier.
- 9.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements if any, as shall be expressly provided for in the contract, including additional requirements, if any, specified in the **Schedule of Requirements** and any subsequent instructions given by the purchaser.
- 9.3 Packing instructions:
The supplier will be required to make separate packages for each consignee named in the contract. Each package will be marked by the supplier at its own expense, on three sides with indelible ink/paint, with following details:
- a) Contract no. and date
 - b) Name and address of the consignee
 - c) Name and address of the supplier
 - d) Brief description of goods
 - e) Gross weight and outer dimension of the package
 - f) Country of origin of goods
 - g) Packing list reference no. and
 - h) Any other requirement, relevant to the contract.

10. Delivery of goods

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified by the purchaser in the notification of award and in the contract.
- 10.2 For the purposes of the contract, "FOB", "CIF", "CIP" and other trade terms used to describe the obligations of the parties shall have the meaning assigned to them in the current edition of "Inco terms" which are international commercial shipping terms, published by International Chamber of Commerce, Paris, France.

11. Transportation

- 11.1. Where the supplier is required under the contract to deliver the goods F.O.B. transportation of the goods, up to and including the point of putting the goods on board the vessel at the specified port of loading, shall be arranged and paid for by the supplier and the cost thereof shall be included in the contract price.

- 11.2. Where the supplier is required under the contract to deliver the goods CIF or C.I.P. transportation of the goods to the port of destination or such other specified place of destination in India, shall be mentioned in the contract, shall be arranged and paid for by the supplier and the cost thereof shall be included in the contract price.
- 11.3. Where the supplier is required under the contract to deliver the goods CIF or CIP within India, the supplier shall arrange the shipment by Indian flag vessels or vessels belonging to Conference lines in which India is a member. Where the supplier is required under the contract to deliver the goods F.O.B and also to arrange on behalf and the expense of the purchaser for ocean transportation on Indian flag vessels or Conference line vessels are not available to transport the goods within the time frame specified in the contract. However, before arranging such alternative transportation, the supplier shall obtain prior concurrence of the purchaser for the same.
- 11.4. The supplier shall not arrange part-shipments and/or trans-shipment without the prior written consent of the purchaser.
- 11.5. In case the supplier violates any of the aforementioned instructions, the supplier shall be liable for all consequences (including financial loss) that the purchaser may face due to such violations.

12. Insurance

- 12.1 The goods supplied under the contract, shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery as indicated below in this clause (viz. GCC clause).
- 12.2 Where delivery of the goods is required by the purchaser on CIF or CIP basis, the supplier shall arrange and pay for the cargo insurance, naming the purchaser as the beneficiary. Where delivery is on FOB basis, the insurance shall be the responsibility of the purchaser.
- 12.3 In the case of contract on CIF or CIP basis, the insurance shall be for an amount equal to 110% (one hundred and ten per cent) of the CIF or CIP value of the goods from "warehouse" (final destination) on "all risks" basis including war risks and strikes.

13. Distribution of despatch documents

- 13.1 The shipping and other documents as well as despatch details to be furnished by the supplier to the purchaser and/or to the purchaser's nominated authorities to enable the purchaser and/or its nominated authorities to clear and/or accept the goods will depend on the mode of despatch of the goods and the terms of delivery, as specified in the Schedule of Requirements and in the contract and, subject to the same, the instructions in this regard will be as indicated below:

a) For goods supplied from abroad:

- Within 24 hours of shipment, the supplier shall notify the purchaser and its nominated authorities (as specified in the contract) and the insurance company by cable or telex or fax, the full details of the shipment including contract number, description of goods, quantity, the vessel, the bill of lading number and date/airway bill number and date, port of loading, date of shipment, port of discharge, expected date of arrival at the port of entry etc. Further, the supplier shall also immediately despatch by registered air-mail the specified number of copies of the following documents to the above authorities:
- i) Supplier's invoice showing contract number, description of goods, quantity, unit price and total amount;
 - ii) Original and copies of the negotiable, clean, on-board bill of lading marked freight to pay and copies of non-negotiable bill of lading;
 - iii) Copies of packing list identifying the contents of each package;
 - iv) Insurance certificate;
 - v) Manufacturer's/supplier's warranty certificate;
 - vi) Pre-despatch inspection certificate issued by the purchaser's nominated inspection agency (if so specified) and the supplier's factory inspection report; and

- vii) Certificate of origin.

The above documents shall be received by the purchaser and other authorities mentioned above at least one week before the arrival of goods at the port or place of arrival and, if not received, the supplier will be responsible for any consequent expenses.

b) For goods supplied from within India:

Within 24 hours of despatch of the goods, the supplier shall notify the complete despatch details to the purchaser and/or the purchaser's nominated authorities (as specified in the contract) and the insurance company. The supplier shall also mail the specified number of copies of the following documents to them:

- i) The supplier's invoice showing contract number, description of goods, quantity, unit price and the total amount;
- ii) Railway receipt or Delivery note;
- iii) Packing list identifying contents of each package;
- iv) Insurance certificate;
- v) Manufacturer's/Supplier's warranty certificate;
- vi) Pre-despatch inspection certificate issued by the purchaser's nominated inspection agency (is so specified) and the supplier's factory inspection report; and
- vii) Certificate of origin.

The purchaser shall receive the documents at least one week before the arrival of the goods (except where it is handed over to the consignee with all the documents) and if not received, the supplier will be responsible for any consequent expenses.

The documents to be provided by the supplier for claiming payment are specified in GCC clause 17 ("Payment").

14. Incidental Services

14.1 The purchaser may include in the contract any or all following services and/or some additional services, if specified in the **Schedule of Requirements** and the supplier are required to provide the same:

- a) Performance or supervision of onsite assembly and/or start-up of the supplied goods,
- b) Furnishing of tools required for assembly and/or maintenance of the supplied goods,
- c) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods,
- d) Performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed to by the parties, provided that this service shall not relieve the supplier of any warranty obligations under the contract, and
- e) Training the purchaser's personnel, at the supplier's plant and/or on site, in assembly, start-up, operation, maintenance and/or repair of the supplied goods.

14.2 Prices charged by the supplier for the above mentioned incidental services, if not included in the quoted price for the goods, shall be quoted separately in the bid itself and shall not exceed the prevailing rates, charged to other parties by the supplier for similar services.

15. Spare parts

15.1 As specified in the **Schedule of Requirements**,

- a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this will not relieve the supplier of any warranty obligations under the contract; and
- b) in the event of termination of production of the spare parts:
 - i) Advance notice to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements and
 - ii) Immediately following such termination, furnishing at no cost to the purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

- 15.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods. Other spare parts and components shall be supplied as promptly as possible but in any case within three months of placement of order and opening the letter of credit.

16. Warranty

- 16.1 The supplier warrants that the goods supplied under the contract is new unused of the most recent models and incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and/or the material used are as per the purchaser's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.
- 16.2 This warranty shall remain valid for 12 (twelve) months after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser in terms of the contract or for 18 (eighteen) months from the date of despatch from the supplier's works for domestic goods or for 21 (twenty-one) months after the date of shipment from the port or place of loading in the source country for imported goods, whichever is earlier, unless specified otherwise in the Schedule of Requirements.
- 16.3 The purchaser shall promptly notify the supplier in writing of any claim arising under this warranty.
- 16.4 Upon receipt of such notice, the supplier shall with all reasonable (or within the period), if specified in the Schedule of Requirements and the contract), repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the purchaser for the replaced parts/goods thereafter.
- 16.5 In the event of any correction of a defect or replacement of any defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12(twelve) months from the date, such corrected/replaced material starts functioning to the satisfaction of the purchaser.
- 16.6 If the supplier, having been notified, fails to remedy the defect(s) within a reasonable period, if specified in the Schedule of Requirements and the contract), the purchaser may proceed to take such remedial action as may be necessary at the supplier's risk and expense and without prejudice to any other rights, which the purchaser may have against the supplier, under the contract.

17. Payment

- 17.1 The payment shall be made in the currency/currencies specified in the contract. The supplier shall send its claim (with relevant documents, as required) to the appropriate paying authority as specified in the Schedule of Requirements and the contract. Before claiming any payment, the supplier shall ensure that all the contractual obligations for claiming that payment have been duly fulfilled.
- 17.2 The payment shall be made in the following manner and on production of the following documents.
- A) Payment for goods supplied from abroad:
- i) On shipment:
90% of the contract price shall be paid through irrevocable letter of credit established in favour of the foreign supplier in a scheduled commercial bank in the supplier's country acceptable to the purchaser, upon submission of the following documents:
- a) Certified copy of the fax sent by the supplier to the purchaser and others as per GCC sub-clause 10.3(a).
- b) Supplier's signed commercial invoice showing contract number, description of the supplier goods, corresponding quantity, unit price and the total value and name(s) of the consignee(s) for the supplied goods.
- c) Original clean on board bill of lading marked freight pre-paid consigned to the interim/ port consignee evidencing description of these goods, quantities, relevant details about the contract number etc.
- d) Packing list, identifying contents of each package.

- e) Insurance policy or certificate in duplicate endorsed in blank with claims payable in India in the currency of the letter of Credit.
- f) Manufacturer's/supplier's warranty certificate and supplier's factory inspection report.
- g) Pre-despatch inspection certificate issued by the purchaser's nominated inspection agency, if so specified.
- h) Certificate of origin.
- i) Supplier's certificate confirming that the required documents have been sent to all concerned in terms of GCC sub-clause 10.3(a).
- j) Supplier's certificate confirming that the amounts shown in the invoice are correct in terms of the contract and that all the terms and conditions of the contract have been complied with for claiming this payment.
- k) Any other document(s) and/or modification of above documents specified in the **schedule of Requirements** and the contract.
- ii) On final acceptance
10% the contract price of goods received shall be paid within 30(thirty) days of receipt of goods on submission of the claim supported by the acceptance certificate issued by the purchaser or the purchaser's nominated representative in the proforma given in section.....of the bidding documents.
- iii) Payment of agency commission:
Payment shall be made in Indian rupees within 30 (thirty) days of presentation of claim supported by a certificate from the purchaser confirming that the goods have been delivered, full 100% payment has been made to the foreign supplier and all other contractual obligations, have been performed by the supplier and its agent for claiming this payment.

This payment (towards agency commission) will be made by the purchaser's paying authority specified in the contract and not through letter of credit.

- B) Payment for goods supplied from India:
Payment shall be made in Indian rupees by the purchaser's paying authority, as specified in the contract (and not through letter of credit), in the following manner:
 - i) On delivery 90% of the contract price shall be paid on receipt of the goods by the consignee and upon submission of following documents to the paying authority.
 - a) The supplier's invoice showing contract number description of goods, quantity, unit price and the total amount.
 - b) Railway receipt or Delivery note.
 - c) Packing list identifying contents of each package.
 - d) Insurance certificate;
 - e) Manufacturer's/Supplier's warranty certificate.
 - f) Pre-despatch inspection certificate issued by the purchaser's nominated inspection agency, if so specified and the supplier's factory inspection report.
 - g) Certificate of origin
 - h) Provisional receipt certificate for the corresponding delivery, issued by the consignee and
 - i) Any other document(s) and/or modification of above documents specified in the Schedule of Requirements and the contract.
 - ii) On final acceptance
the remaining 10% of the contract price shall be paid to the supplier within 30 (thirty) days of receipt of its claim, duly supported by the final acceptance certificate for the corresponding delivery issued by the purchaser's representative in the Proforma given in section.....of the bidding documents.

C) Payment of incidental services and supervision:

The incidental services and supervision, if required separately, will be specified in the Schedule of Requirements and in the contract. The payment terms applicable for such services and supervision will also be specified therein.

17.3 Operation of the letter of credit:

- i) The payments effected through letter of credit, shall be subject to the latest Uniform Customs and Practice for Documentary Credit of the International Chamber of Commerce.
- ii) If requested specifically by the supplier, the letter of credit will be confirmed but the cost for the same shall be charged to the suppliers account.
- iii) If the letter of credit is required to be extended/reinstated for reasons not attributable to the purchaser, the charges thereof shall be to the supplier's account.

18. Prices

- 18.1 Prices charged by the supplier for the goods supplied and the services performed under the contract shall not vary from the prices quoted by the supplier in its bid with the exception of any price adjustment authorized in the Schedule of Requirements.

19. Modification of contract.

- 19.1 The purchaser may at any time, by a written order given to the supplier pursuant to GCC clause 31, make changes and modifications within the general scope of contract in any one or more of the following:
 - a) drawings, designs or specifications, where goods to be supplied under the contract are to be specifically manufactured for the purchaser,
 - b) the mode of packing
 - c) the mode of despatch
 - d) the place of delivery
 - e) the services to be provided by the supplier, and/or
 - f) Any other area(s) of the contract, depending on the merits of the case.
- 19.2 If any change causes an increase or decrease in the cost of or in the time required for the supplier's performance of any provision under the contract, a both and the contract shall be amended accordingly. Any claim by the supplier for adjustment under this clause must be asserted within 21(twenty-one) days from the date of the supplier's receipt of the purchaser's amendment/modification of the contract.
- 19.3 Subject to GCC sub-clauses 19.1 and 19.2 no variation in or modification of the terms of the contract shall be made except by written amendment signed by both the parties.

20. Assignment

- 20.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

21. Sub Contracts

- 21.1 The supplier shall notify the purchaser in writing of all sub-contracts awarded under the contract, if not already specified in its bid. Such notifications, in its original bid or later, shall not relieve the supplier from any liability or obligation, whatsoever under the contract.
- 21.2 Subcontract shall be only for bought-out items and sub-assemblies.
- 21.3 Subcontracts must comply with the provisions of GCC clause 3.

22. Delays in the Supplier's performance

- 22.1 Delivery of the goods and performance of the services shall be made by the supplier in accordance with the time schedule specified by the purchaser in the **"Schedule of Requirements"**.
- 22.2 Except as provided under GCC clause 25, any unexcused delay by the supplier in maintaining its contractual delivery obligations shall render the supplier liable to any or all of the following sanctions:
 - Imposition of liquidated damages,
 - For feature of its performance security and/or
 - Termination of the contract for default.
- 22.3 If at any time during the performance of the contract, the supplier or its sub-contractor(s) should encounter conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, it's likely duration and its cause(s). After the receipt of the

supplier's notice, the purchaser as soon as practicable, shall evaluate the situation and may at its discretion extend the supplier's time for performance, in which case the extension of the delivery period shall be ratified by issuing an amendment to the contract.

22.4 The supplier shall not despatch the goods after expiry of the delivery period. The supplier is required to apply to the purchaser for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and/or any other expense related to such supply shall lie against the purchaser.

23. Liquidated damages

23.1 Subject to GCC clause 25, if the supplier fails to deliver any or all of the goods or perform the services within the time period(s) specified in the contract, the purchaser shall without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half percent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual delivery or performance, up to a maximum deduction of 10% (ten percent) of the delayed goods or services contract price. Once the maximum is reached, the purchaser may consider

23.2 Termination of the contract, if the same have not been terminated already. Further, during the above mentioned delayed period of supply and/or performance, the supplier, notwithstanding any stipulation in the contract for increase in price for any ground, shall not be entitled to any increase in price and cost, whatsoever, which take place during the period of delay. But, nevertheless, the purchaser shall be entitled to the benefit any decrease in price and cost on any ground during the period of delay.

24. Termination for default

24.1 The purchaser, without prejudice to any other remedy for breach of contract may by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC clause 22.

24.2 In the event the purchaser terminates the contract in whole or in part pursuant to GCC sub-clause 24.1, the purchaser may procure, upon such terms and conditions and in such manner as it deems appropriate, goods and/or services similar to those undelivered and the supplier shall be liable to the purchaser for any excess cost for such similar goods and/or services. However, the supplier shall continue to perform the contract to the extent not terminated.

25. Force Majeure

25.1 Notwithstanding the provisions of GCC clauses 22,23 and 24, the supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

25.2 For purposes of this clause, "Force Majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

25.3 If a Force Majeure situation arises, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26. Termination for insolvency

26.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser may terminate the contract by giving written notice to the supplier, without any compassion to the supplier, provided, that such termination will not prejudice or affect any right of action or remedy which has accrued and/or will accrue thereafter to the purchaser.

27. Termination for convenience

- 27.1 The purchaser, by written notice sent to the supplier, may terminate the contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the purchaser's convenience, the extent to which performance of the supplier under the contract is terminated, and the date with effect from which such termination becomes effective.
- 27.2 The goods that are complete and ready for shipment within 30 (thirty) days after the supplier's receipt of notice of termination shall be accepted by the purchaser at the contract terms and prices. For the remaining goods, the purchaser may elect:
- a) To have any portion completed and delivered at the contract terms and prices and or
 - b) to cancel the remainder and pay to the supplier an agreed amount for partially completed goods and services and for materials and parts already procured by the supplier for fulfilling the contractual obligations.

28. Resolution of disputes

- 28.1 If any dispute or difference of any kind shall arise between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 28.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.
- 28.3 Any dispute or difference, in respect of which a notice of intention to commence arbitration has been given in accordance with GCC sub-clause 28.2, shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the goods under the contract.
- 28.4. The dispute resolution mechanism to be applied pursuant to GCC sub-clause 28 shall be as follows:-
- a) In the case of a dispute or difference arising between the purchaser and the supplier relating to any matter arising out of or connected with the contract, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of three arbitrators, one each to be appointed by the purchaser and the supplier. The third arbitrator shall be chosen by the two arbitrators so appointed by the parties and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of thirty days from the appointment of the arbitrator appointed subsequently, the presiding arbitrator shall be appointed by the Indian Council of Arbitration or President of the Institution of Engineers (India).
 - b) The decision of majority of arbitrators shall be final and binding upon both the parties.
 - c) The cost and expenses of the arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with preparation, presentation etc. of its proceedings as also fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself.
- 28.5. However, where the value of the contract is Rs.15 (Rupees one and half million) and below, the disputes of differences arising in it shall be referred to a sole arbitrator. The sole arbitrator shall be appointed by mutual agreement between the parties. If the parties fail to agree on arbitrator within 30 (thirty) days from the days from the receipt of a request by one party from the other party to so agree, the appointment shall be made upon request of a party, by the Indian Council of Arbitration or the President of the Institution of Engineers (India).
- 28.6 The venue of arbitration shall be the place from where the contract is issued.

29. Governing language

- 29.1 The contract shall be written in English language. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written in English.

30. Applicable law

- 30.1 The contract shall be interpreted in accordance with the laws of India.

31. Notice

31.1 Any notice given by one party to the other pursuant to the contract shall be sent in writing or by cable, telex or facsimile and confirmed in writing to the addresses specified in the Schedule in the **Schedule of Requirements**.

32. Taxes and duties

32.1 A foreign supplier shall be entirely responsible for all taxes, stamps duties, license fees and other such levies imposed outside India.

32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees etc. incurred until delivery of the contracted goods to the purchaser.

32.3 Further instruction if any shall be as provided in the **Schedule of Requirements**.

SECTION-IV

SCHEDULE OF REQUIREMENTS
Part-1: Schedule of Requirement

Schedule -1

S. No.	Brief description of goods	Accounting Unit/Quantity	Delivery Schedule
1.	(Description and Detailed Specification is given in Section V page 30)		With one month after issue of Supply Order

Amount of Bid Security:

Schedule -2

- i) Cost of Installation of equipments/items at the Laboratory of **ICAR-NIBSM, Baronda, Raipur** :
Rupees in Figure:
Rupees in Words:
- ii) Cost of Training:
Rupees in Figures
Rupees in Words:
- iii) Cost of Commissioning and Demonstration:
Rupees in Figures
Rupees in Words

Part – 2 of Schedule of requirements (Section-IV)

Preparation of Bids

1. The Price quoted shall be destination **NIBSM, Baronda, Raipur**
2. The price shall be inclusive of all costs, charges and incidents which shall be the responsibility of the bidder alone.
3. The bidder should have successfully manufactured and supplied at least 50% (fifty percent) of the required quantity of goods under this invitation for bids during the last two years counted from the date of bid opening. The bidder shall also furnish certificate documentary evidence to the effect including all relevant details. The bidder should specify the details of past supplies along with the name of the purchasers for the same or similar items.
4. The bidder has to deposit prescribed Bid Security either in Bank Guarantee or through Demand Draft/S.D.R/F.D.R issued by any Nationalized Bank in favour of **ICAR Unit NIBSM, Raipur (C.G.) payable at UCO Bank, Krishak Nagar Branch, Raipur (C.G.) along with Technical Bid.** Tenders received without prescribed Bid Security will be not be considered/entertained.
5. The Successful bidder shall have to deposit an amount equivalent to 10 percent of the total cost involved as Performance Security either in Bank Guarantee or in the shape of DD/S.D.R/F.D.R before placing supply order with them.
6. The Institute has adopted two bid systems therefore **“Technical Bid” & financial bid” should be kept separately in two different sealed envelopes**, superscripted thereon **TECHNICAL BID AND FINANCIAL BID** within a larger sealed packet/envelop. The larger outer cover should indicate Tender Number, Name of the equipment and opening date on the top of the right hand corner.

Submission of Bids

7. Address for submission of bids, to be given on the envelope is : **Sr. Administrative Office, Director ICAR-NIBSM, Baronda, Raipur (C.G.)- 492012**
8. Deadline for submission of bid is = 22/11/2019 upto 10.30 hrs (10.30 AM)
10. Time and date of bid opening is
 - a. Technical bid = 22/11/2019 at 11.00 hrs (11.00 AM)
 - b. Financial Bid. = 22/11/2019 at 15.00 hrs (3.00PM).
10. Place of Bid opening: = **ICAR-NIBSM
Baronad, Raipur (C.G)-493225**

Detailed Specifications

Section – V

Schedule of Quantities, Technical Specification and Quality Control Requirement

1. Rotary Vacuum Evaporator

Distillation water capacity (ltr/hr)	4l tr/hr
pH value	6.9-7.0
Conductivity (µS/ cm)	<1.0
Numbers of Built in Quartz heaters (nos.)	2
Distillation unit Type	horizontal
Distillate Temperature (0C)	66.01
Biological Activity	Pyrogen free
Built in Quartz heater capacity (KW)	3.5
Cooling Water consumption (ltr/hr)	140 ltr/hr

2. Digital Camera

Classification of Camera	Video
Type of Camera	DSLR APS Format
Image Sensor	CCD
Sensor Size for Fixed Lens Camera (inch)	1/ 2.3
Sensor Size for Interchangeable Lens Camera (mm x mm)	22.3 x 14.9
Effective pixels (Mega Pixels)	24
ISO (Sensitivity of the image sensor)Max	25600
Supported Picture or image format	JPED, RAW
Lens mounting	Detachable
Mount type	F
Type of Lens	Telephoto Lens
Maximum Focal Length	300 millimeter
Minimum Lens Aperture (f/number)	4.5
Maximum Lens Aperture (f/number)	5.6
Optical Zoom	6x to 10x
Digital Zoom (x)	0
Maximum Field of View	180 degree
Focus Mode	Auto, Manual
Video Recording	Yes
Maximum Recording Resolution (Pixels)	FULL HD (1920 X 1080)
Frame Rate	24,25,30,48,50,60,80,90,100,120,NA
Video Compression Format	H.264, H.265, H.265+MJPEG, MPEG4, H 422, NA
Video Output Port	Mini HDMI, HDMI, AV, SDI, BNC, NA
Video file format	MOV, AVI, AVC, XAVC, AVCHD, MP4, XAVC/4K, NA

AUDIO

Audio Recording Type	Built in, External, NA
Number of Audio Input Port	1
Type of Audio Input Port	3.5 mm (stereo mini jack), XLR, RCA/AV, NA
Number of Audio Output Port	1
Type of Audio output Port	3.5 mm (Stereo mini jack), XLR, RCA/ AV, NA

DISPLAY

Display Type	LED
Display Size (inch)	2.6-3
Connectivity Interface	Wi-Fi , Bluetooth, NFC, USB, NA

3. Hot air oven

Performance Parameters

Capacity in litres	50-1200
Power rating in watts	1500
Should provide 3 Heating element on 3 sides of equipment to ensure uniform temperature on all selves	Yes
Ambient temperature range in degree C	Ambient to 250 degree C
Temperature Accuracy in degree C	+2 degree C
Insulation	Glass wool
Controller	Microprocessor based PID control
Type of Display	LED
Parameters displayed	Time, Temperature setting and temperature reading
Type of Temperature sensor	PT 100
Power supply	220 V, 50Hz Single Phase
Type of Shelves	Removable
Number of Shelves	4
Air Circulation	Motorized Blower for forced air circulation
Blower Motor Power in HP	0.5
Weight in kgs	40
Length of power cord fitted with compatible Indian plug in meters	3
Operating temperature and humidity	10 to 40 degree C and 15- 90 % humidity
Warranty in Years	1

4. Digital microtome

Section Thickness Setting Range	0.5~100 μm
Trimming Thickness Setting Range	1~600 μm
Setting values	0.5~2 μm increment step 0.5 μm 2~10 μm increment step 1 μm 10~20 μm increment step 2 μm 20~100 μm increment step 5 μm
Minimum setting value	0.5 μm
Vertical specimen stroke	60 mm

5. Deep Freezer-20 degree C

No of Door	Single
Position of Door	Front Opening
Door Type	Hinged
No of shelves	6
Type of Insulation	Manually Deforested
Type of cooling Direct	
Lock	Yes
Material of chamber interior	Pre-coated mild steel
Material of Chamber exterior	Pre painted Sheet
Door Material	Single PUF insulated Door
Cooling coil Material	Copper

CAPACITY AND DIMENSION

Storage Volume (Net Capacity) (Liters)	350
Over all length (mm)	500
Overall width (mm)	500
Over all Height (mm)	1000
Insulation Thickness (in mm)	60
Holdover Time (minute)	15
Minimum achievable Temperature at 32 degree centigrade	-10degree Celsius
Type of Refrigerants	R134a
Voltage	220-240, single Phase, 50Hz
Power consumption(kw/Day)	10
Warranty of Compressor (Years)	2
Warranty of complete unit (years)	1

6- Classroom accessories

(i) LCD Projector: One

3300 ANSI Lumens Brightness

150001 Contrast Ratio

Resolution 800 x 600,

Aspect Ratio 43 SVGA

10000 Hour(s) lamp life in Eco mode

Create the big screen experience From box sets to business presentations, capture everyone's attention

Bright even with ambient light Equally high White and Colour Light Output of 3,300 lumens

Affordable, high-tech equipment Enjoy this SVGA projector

(ii) Smart class projector board

Specification

Color	White
Usage/Application	School
Included Accessories	USB Connector, LED Interactive PEN, Software CD, Mounting
Frequency	50 Hz
Lens	Short Throat Projector

(iii)5 core Podium-01

Portable Lectern Microphone Stand with 3 Inbuilt Speakers, USB, 2 Wireless Microphones

(iv)Computer (Notebook)

Internal Memory (ROM): 1TB

Memory Size (RAM): 8GB

Processor type: Intel Core i7-7700HQ Processor

7- Stereo zoom microscope

- Apochromatic, Greenough optical system.
- Vertical tube, built-in C-mount 0.55x magnification lens
- Fixed Eyepiece trinocular tube with inclination 35 ° or better
- Interpupillary distance adjustment 52-75 mm
- Eyepieces (with diopter adjustment) 10X Field No. 22 or more
- Zoom range 0.63-5x
- Zoom ratio 8: 1
- Standard Magnification (1X Objective, 10X eyepieces) ó 6.7X to 50X
- Total magnification 3.35-300x (depending on eyepiece and auxiliary objective used)
- Working distance 75 mm or better
- Transmitted LED light illumination
- ESD protection feature: Antistatic surface, grounding socket
- Dust cover
- Camera adapter
- Eyepiece eyecup

Digital color camera having:

- Chip size 1/1.18 ð or better
- Pixel size: 2.2 µm x 2.2 µm or better
- Resolution 6 mega pixel
- USB 3 data transfer
- Plug and play camera
- Basic imaging software

OPTIONAL

- Incident light illumination ó Bifurcated fiber optic with LED illumination.

8- AUTO CLAVE

Type of Steriliser	HORIZONTAL CYLINDRICAL steam steriliser Pressure type for Hospital and Pharmaceutical use, Steriliser Chamber size: 400 mm(Diameter) x 600mm (Length), Conforming to IS: 3829 (part1)/1999, fitted with silicon door gasket(expansion type). Electric load of the unit shall be 6 KW. Direct Steam Operation from an external
Steam supply to Steriliser source	
Material: Steriliser parts; Chamber, jacket, Door, Door Ring and shall be made of	SS 316 or SS316L
Type of control Automatic:	MICROPROCESSOR CONTROLLED, WITH PRESELECTED STERILISATION PROGRAMS (variable programs customisable as per Buyers requirement to deal with sterilisation and drying of wrapped / unwrapped loads at 121 & 134 degree C)
Type of Door	Radial Type
Display facility for Sterilisation Cycle parameter	Chamber Temperature, Cycle number Batch Number, Time and date
Warranty Period	3 Year
No of Doors in Steriliser	1
Material: Shredder parts;	SS 316 or 316L
Power of Motor used for Shredding	Must be of ≥ 2 HP, ≥ 1000 RPM, 220 V, 50HZ motor, and able to deal with shredding of bio medical waste land as per Steriliser capacity
Number of Rails:	2
Long Handle	1
Sterilisation Carriages	1
Pull out Trays/Tanks	2
Floor loading carts	2
Transfer carriages	2

9- Soxhlet apparatus

Fume Hood	Available
Heater	Mantle Type (2 Sets, One for Digestion and one for distillation)
Unit supplied	With glass parts
Construction	MS Powder coated
Heating capacity of the heater (Watt)	500
Units of test	6
Each heating unit fitted with individual energy regulator	Yes
Supplied complete with condenser rack, connecting tubes and clamps	Yes

Power	230 V plus minus 10 percent, 50 Hz
Flask capacities (ml)	300
Weight of the complete unit (grams)	1800
Details of other accessories to be supplied along with the unit	glass parts

Test Report Details

Availability of Type test report from Central Govt. /NABL/ILAC Accredited lab. To prove conformity to the specification	Yes
Type Tests report to be furnished to the buyer on demand	Yes
Name of Lab	Accumax India
Type Test report No.	AI 1267
Address of lab	Accumax India New Delhi Jankpuri
TTC report date	25/6/2018

10- Dissection Microscope

Eye piece Type	Huygenian
Eye Piece with magnification	monocular 10 x
Objective Type	achromatic
Objective Magnification	40 x
Numerical Aperture of Objective	1.25
Type of lamp for Illumination	led
Stage	Rectangular
Size of stage	120 x 120
Extra eyepieces (inclusive in the scope of supply)	Set of two 10 x
Carrying case (inclusive in the scope of supply)	Yes
Warranty	1 Years

11- BOD Incubator

1. Internal Size cms. : 55 X 85 X 55 (LxWxH)
2. Shelves : 2
3. Temperature Range : + 5 degree C to 70 degree C
4. Controller Accuracy : +/-0.5 degree C of set value for Temp.
5. Uniformity : +/-1 degree throughout chamber
6. Air Heater Element : Special Type S.S.Tubular Air Heaters with fins.
7. Heat up Time : 30 min. up to 60 degree C without load.
8. Cool Down time : 40 min. upto + 5 degree C without load
9. Cooler: Plate Fin Cooler
10. Compressor : EMMERSON Hermetically Sealed Brand
11. Controller: Digital Display Electronic Controller.
12. Sensor : Pt-100
13. Internal Chamber: Stainless Steel 304 grade.
14. External : Mild Steel Powder Coated
15. Inner Acrylic Door: Inner Full Size See through Acrylic 8 mm thick
16. Air Circulation : Motorized Blower from back and forced air circulation for temperature homogeneity
17. Safety Device: Adjustable hydraulic over-temperature limiter protector
18. PID Control: Microprocessor based PID Controller
19. Computer Interface: RS 485 / RS232 interface for multiple & single communication port

20. Cyclic Timer: 0 to 24 hrs X 7 days cyclic ON/OFF timer for illuminating port
21. Should have self supported transparent doors inside and magnetic gasket outer doors.
22. Should have PUF Insulation
23. Should have door operated illumination lamp to work on 220/230 VAC.
24. Should have Circular chart recorder for recording test conditions.
25. Should be supplied with Stabilizer of sufficient capacity.

12- Incubator Shaker

Construction of Body	Double walled with inner and outer walls
Material of Inner wall	SS
Material of Outer wall	MS with powder coated for anti
rusting and duly painted with best finishing	
Insulation	Proper insulation between inner and outer
wall	
Insulation material	PUF
Door	Insulated double walled door with glass
window	
Internal length of Equipment in mm	750
Internal width of equipment in mm	600
Internal Height of equipment in mm	660
Outer length of equipment in mm	750
Internal width of equipment in mm	1100
Outer Height of equipment in mm	1250
Warranty in years	1

Temperature Parameters

Range of Temperature	5 degree centigrade to 60 degree
centigrade	
Temperature accuracy	plus minus 0.5 degree centigrade
Temperature controller	Microprocessor based Digital Temperature
	controller and indicator
Type of sensor	PT- 100
Type of Display	LCD

Shaking Features

Type of Motor	Brushless Motor
Shaking mechanism controller	Microprocessor controller
Orbital shaking speed in RPM	Up to 250
Increment of Step variation	25
Orbital shaking amplitude in mm	25 mm
timer adjustment in hours	99
Size of platform in mm x mm	450 x 450
Interior illumination	LED Bulbs

13- Digital Weighing Balance

Type of Laboratory Balance	Analytical
Sensitivity (mg)	0.2 mg
Type of Calibration	Internal
Maximum Capacity of weighing (grams)	220 g
Response Time in seconds	3 second
Shape of PAN	Circular

Power Supply
 Warranty (year)
 Material for Case
 Minimum overall Diameter of pan (mm)

Single Phase
 1
 Transparent glass
 90 millimeter

14- Distilled Water Plant

Heater

Mantle Type (2 sets, one for Digestion and one for distillation)

Unit supplied

With glass parts

Construction

MS Powder coated

Heating capacity of the heater (Watt)

500

Unit of test

6

Flask capacities (ml)

300

Weight of the complete unit (grams)

1750

15- Centrifuge

Type of Drive Motor

Brushless DC Motor

Display option/ Output Read out option

Digital

Material of Mixing Head/ Vortex cup

Plastic

Type of Vortex Mixer

Standard Vortex Mixer

Type of Controller

Microprocessor Controlled

Timer Setting (Increment step)

5 minute

Base material

Stainless Steel

Number of Sample tubes Testable simultaneously

multi-tube

Weight(kg)

40 kilogram

User Interface

Digital Front Panel Without Glove mode

Largest Volume of the tube testable

200 milliliter

Finish of Body material

Powder coated

Body material

Die cast Aluminium

Noise Level (maximum)(db)

55

Maximum Load capacity

0.45 kilogram

Speed increment step, if variable speed (RPM)

50

IP rating or ingress protection rating

21

Activation mode

Press Activated

Speed Mode

Variable Speed

Type of Data Logging option

RS 232

Maximum Speed (RPM)

6000

Minimum Speed (RPM)

45000

Input Current (Amp)

240

Speed Control Accuracy (+/-) (RPM)

50

Orbital Diameter

4 millimeter

External Dimension: Height

45 centimeter

External Dimension: Width

16 centimeter

External Dimension: Depth

59 centimeter

POWER

Power Consumption(W)

50 Watt

Input Voltage(V) with number of phases

240

16- Thermal cycler

- Sample capacity -96 x 0.2 ml individual PCR tube, or 96 well PCR plates.
- Gradient sample block made up of metal or metallic alloy except aluminum.
- Uniform distribution of temperature across the block.
- Temperature range: 4- 99°C.
- Temperature accuracy: $\pm 0.2-0.3$ °C or better.
- Temperature uniformity: ± 0.4 °C.
- Should have a gradient range of 30-99 °C and range of gradient span should be 10°C ó 24 °C or better
- High Ramp rate of 4.5-6°C /sec.
- Peltier based Heating and cooling.
- Should have heated lid (37-110°C) and auto restart.
- Should be capable of storing up to >100 programs.
- Provision for large graphical display of PCR program.
- Power/voltage: 220-240V, 50/60 Hz.
- At least two years or more warranty with proper/original document evidence
- Must be licensed for Research and authorized for PCR.
- Should be supplied with 1 KVA online Branded UPS (with at least 2hr backup) for smooth operation.
- The brand should be the manufacturer of the equipment.
- All the necessary optimized reagents and plastic wares for standard and fast thermalcycling should be provided for installation.

17- Electrophoresis system (Horizontal & Vertical)

Electrophoresis System with Power Pack (horizontal):-

Mini horizontal electrophoresis system:

- System should have UV- transparent tray of 7-8 x 7-10 cm, casting gates two each of 8 and 15-well combs.
- Should have a buffer tank with single molding casted, a safety lid with cables, and a leveling bubble.
- Can put minimum two combs and should be able to run 8-30 samples in a single run and provided with both fixed and preparative two numbers of 8 well and 15 well combs can run upto 30 samples.

Midi/maxi Electrophoresis System:

- Main Unit with buffer tank with single molding casted and Gel caster which accommodate different gel trays for tape-free casting.
- The gel trays should be UV transparent with fluorescent ruler for tracking migration with approx. size 15 X 25 cm.
- It could accommodate other gel tray of approx. size 15 x 10 cm and 15 x 20 cm and same should be supplied with the system.
- Should be able to run 30-120 samples in a single run.
- Colored loading strips-for well detection when loading
- Sample preparatory combs for nucleic acid recovery and multichannel compatible combs for rapid screening of nucleic acid from 96 well plates.
- Combs to fit every need (multichannel pipetócompatible combs, fixed-height drop-in combs, adjustable-height combs, and preparative combs)
- System should be supplied with the 2 number of 1.5 mm thick, fixed-height comb 24-27 well comb.

- 3 number of 15 well combs of 1.5 mm thick

Power supply/pack:

- Power supply suitable for vertical and horizontal gel electrophoresis.
- Constant voltage and constant current modes with automatic cross- over
- Should have a programmable output range of 10V-500 Volt, adjustable in 1V steps, 0.01-2.5 A and adjustable in 1mA steps with a maximum of 1- 500 Watts or better.
- Should have four pair recessed output terminals in parallel.
- Should come with a digital large LED/LCD display
- Should have safety features such as No load detection, over load/ sudden change in load detection, power failure indication and over voltage protection.
- Should come with a timer ranging from 1min-99 hrs 59 min or better.
- Should be provided with EN-61010, CE regulatory compliance.
- The whole system should have comprehensive warranty with spares for 2 years from the date of installation of the instrument.

Electrophoresis System with Power Pack (Vertical):-

Mini vertical gel electrophoresis system:

- Approx. 7.5-10 x 7-10 cm gel size with capacity to run 1-4 gel simultaneously.
- The system should have compatibility to run both hand cast and precast gels.
- Should be compatible with Trans blot electrophoresis cell for western blotting.
- System should be supplied with casting strand for leak proof simultaneously casting of all four gels, 5 numbers of 10-well combs of 1.0 mm thickness, 5 sets of glass plates (both short and spacer plates) four gel releaser and spacers of different size.
- Sample loading guide for easy sample loading, electrode assembly with power cable, companion running module (dummy plate).
- System should be supplied with Transfer blot unit for mini vertical electrophoresis including all accessories needed to make the fully functional unit.

Power supply/pack:

- Power supply suitable for vertical and horizontal gel electrophoresis.
- Constant voltage and constant current modes with automatic cross- over
- Should have a programmable output range of 10V-500 Volt, adjustable in 1V steps, 0.01-2.5 A and adjustable in 1mA steps with a maximum of 1- 500 Watts or better
- Should have four pair recessed output terminals in parallel.
- Should come with a digital large LED/LCD display
- Should have safety features such as No load detection, over load/ sudden change in load detection, power failure indication and over voltage protection.
- Should come with a timer ranging from 1min-99 hr 59 min or better
- Should be provided with EN-61010, CE regulatory compliance.
- The whole system should have comprehensive warranty with spares for 2 years from the date of installation of the instrument.

18- Micro plate reader

Micro plate reader fully programmable, monochromator based system for UV-Visible Absorbance which supports end point, kinetic and spectral scanning assays with capability to read samples in microplates, as well as, in cuvette for DNA/RNA/Protein quantification, Colorimetric assays, Immunoassay, ELISA, enzyme kinetics, etc.

- **Wavelength range:** Monochromator based selection of desired wavelength in the range: 200 nm to 1000 nm, with 1nm increments.

- **Plate and Cuvette types:** For reading samples in 96 and 384 well plates and standard cuvettes. As optional feature it should also have micro-drop plates reading capability.
- **Light source:** Should be Xenon flash lamp /High Powered LED lamp.
- **Feature:** well scanning feature and automated path length correction.
- **Photometric range:** 0-4.0 Abs or better.
- **Photometric precision:** 0.003OD or better.
- **Resolution:** 0.0001 OD or better.
- **Wavelength Accuracy:** ± 2 nm or better.
- **Wavelength Repeatability:** ± 0.2 nm or better.
- **Band Width:** ≤ 2.0 nm.
- **Reading speed:** less than 15 seconds for 96 well plate.
- Spectral scanning speed of ≤ 15 seconds for scanning the entire spectrum of sample in the range 200 to 1000nm with increment of 1nm.
- **Temperature:** from ambient + 2 to 45°C, variation ± 0.2 °C at 37 °C.
- **Shaking:** Linear/ orbital Shaking with user-de~~L~~nable time and speed for microplate platform.
- **Warm-up time:** ≤ 3 minutes.
- **Software:** supplied with suitable software having built-in calculations, including blank subtraction, standard curve, classification, quality control, kinetic and spectral analysis facility for data analysis and sharing of data on PC. Result data can be exported to Excel, pdf, html, txt and other file format with a single mouse click. The analysis software must be compatible with Windows 7 or above and XP.
- **Accessories:** should be essentially supplied with accessories like standard cuvettes, micro-cuvettes and ultra-micro cuvette. As optional micro-drop plate designed to measure 16 low-volume (2 μ l) samples should also be supplied and quoted separately.
- **Operation:** Standalone operation should be feasible with internal machine software on-board with keypad and color display screen or touch screen.
- **Internal user interface:** USB memory for data export, USB for external PC control, USB port for external printer, Bluetooth, and Wi-Fi facility.
- **Data Processor:** Suitable data processor complete branded computer with i7 or higher processor, 4GB RAM, 1TB hard disk drive, 64-bit operating system, 21" or more LED/LCD Monitor, DVD R/W, USB ports, Key board, Optical mouse, Bluetooth, Wi-Fi facility, having at least one year warranty, supplied with latest and licensed version of Compatible Window 8 or above, Microsoft office 2010 or above and antivirus with three years validity.
- **UPS:** Online UPS system of 2 kVa (branded) with at least 1 hr battery backup should be provided with the instrument.
- **Printer:** compatible colour Laser printer (Branded) with at least one year warranty.
- **Warranty:** Instrument should have at least two years warranty from the date of installation.
- **Catalogue:** Authentic original company coloured catalogue of the quoted equipment.

19- Deep Freezer (-80 °C)

- Freezer type: Upright model with more than 400 liters capacity.
- Temperature range: -80 °C.
- Fully programmable microprocessor controlled with membrane keypad and eye level control panel and digital temperature display.
- Should have minimum five compartments and insulated inner door to minimize cold air loss.
- Freezers should have heated air vent and front panel air filter.
- Heavy duty lockable castors and lockable outer doors and lids are required.
- Should have rollers to rear for easy movement.
- Freezer must use CFC-FREE, HCFC-FREE non- flammable refrigerants, and refrigeration system must be energy efficient and hermetically sealed cascade refrigeration system and compressor should be capable to run any voltage between 190 - 270V.
- Should have alarms for temperature, power failure, system failure, battery low etc.
- It should come with 3 years comprehensive warranty and on-site repair services as and when required.
- Freezer must have ISO 9001 standard quality test requirements and IEC61010 Electrical safety CE & UL certified.
- Freezer should be supplied with suitable servo voltage stabilizer.
- Technical specifications mentioned above should be supported by original company catalog/literature.

20- Micro centrifuge

- Temperature range: - 9 to + 40°C or better and should maintain 4°C at maximum speed.
- Fast acceleration and braking shortens run time (aprox. 16 seconds or better) for faster throughput.
- Microprocessor controlled digital display for temperature, rpm/ rcf and time (display in sec.)
- Speed range 14000-15000 rpm or more.
- RCF at least 21,000 x g.
- Noise level at maximum speed should be < 62dB.
- Brushless induction drive, Pre cooling and CFC free refrigeration.
- System should have features like automatic rotor recognition and indication for completion of run.
- Light weight and autoclavable rotor and system should support multiple rotor choice for wider application.
- System should be supplied with following rotors:
 - Should have minimum 24 x 1.5/2.0 ml rotor for micro tubes and adaptors for 0.2, 0.5 ml tubes
 - Rotor for 4 or 6 x 8 well PCR strips
- Technical features should be supported by original literature list of user must be supplied.
- Minimum two year warranty period

21- Gel Documentation System

- Imaging: by scientific grade 12-16 bit CCD camera with image resolution not less than 4 Megapixel and pixel size 4.65 x 4.65 µm,
- Should have fire wire / USB connection to the PC.
- Pixel density should be at least 4,096 grey scale.
- Lens: Should have motorized zoom lens, f/1.2, 12-75mm
- Image acquisition with automatic focus and iris adjustments for all compatible applications.
- Dynamic range: >3 orders of magnitude.

- **Emission filters:** Suitable filters for ethidium bromide, SybrGreen, Comassie Blue, Silver stain etc.
- **Dark Room:** Universal dark room with sliding as well as open door facility.
- UV Trans-illuminator should have at least 254/302/365nm wavelength and white light.
- Imaging area / sample size should be at least 28 x 36 cm
- Illumination mode: Trans-UV, White, Epi-White
- Should have UV to white light converter plate.
- Safety: UV safety interlock
- **Software:** Acquisition and Analysis Software for gels and colony counting. Software should support wide range of applications like imaging and analyzing, 2-D, 1-D electrophoresis gels, Dot blotting, Densitometry, Molecular weight, pl & RF analysis, 3D viewer for critical and closely spaced band, Differential display analysis, Gel Scoring, & performing phylogenetic analysis of the banding pattern data from RFLP, RAPD and any other fingerprinting methods across multiple gels, Different methods of cluster analysis and dendrogram construction, similarity matrix etc. provision of direct export of data to excel, word or text files.
- **Desktop Computer:** Should be supplied with latest compatible Branded computer with configuration of Intel core i7 processor, 3GHz, 1 TB HDD, 8MB Cache and 4 GB DDR RAM, 21 inch or more TFT LED monitor, DVD-CD R/w Combo Drive, Multimedia, keyboard, WIFI and Bluetooth device support, optical mouse, with licensed version of Window 7 or latest, 64 bit professional operating system compatible with gel doc software, and licensed antivirus with three 3 years validity.
- Suitable 1 KVA UPS with atleast one hour battery backup (Branded) and the whole system should have two year warranty.
- Multipurpose laser printer.
- Original company literature from principal company, manufacturer must be supplied; clearly verifying all specifications and user list must be supplied.

22- Compound microscope with photographic attachment

- Trinocular Upright Compound Microscope with ergo design body and with High quality digital imaging capability attached with the system capable of capturing live video and still image at different resolutions simultaneously.
- **Frame:** Rigid and vibration free frame
- **Optical system:** Universal infinity corrected optical system or equivalent having anti-mold/anti-fungal treated optics (Special anti-mold tablets preferred).
- **Illumination:** Microscope with echo friendly LED transmitted light illumination with long working life at least 20000 hours. At least one spare LED bulbs should be provided.
- **Eyepieces tube:** Should have trinocular Siedentopf type eyepiece tube inclined at 30 degree with F.O.V. 25mm or better, with analyser slot.
- **Eyepiece lens:** 10X (2 pieces) magnifications with both side diopter adjustment facility on both eyes with field of view of 25mm or better.
- **Coarse/Fine focusing:** built-in adjustable coaxial coarse and fine focusing knobs on both sides of microscope. Vertical stage movement; 25mm stage stroke with coaxial coarse adjustment stopper. Torque adjustment for coarse adjustment knobs; Stage mounting position variable, high sensitive fine focusing knob with minimum adjustment graduation should be 1 m.
- **Stage:** X and Y rectangular mechanical coaxial stage with ceramic coating; double slide holding capacity at a time; movable (up/down and longitudinal Y-direction); right handed

low drive control with rotating mechanism; torque adjustment mechanism; and with vernier calibrations.

- **Objectives:** Plan Achromat 4X, 10X, 20X, 40X and 100X (oil) for phase contrast. Objectives should be anti-mold and should be suitable for working in hot and humid environments.
- **Condenser:** High quality universal turret condenser for Bright Field, Phase Contrast & Dark Field microscopy.
- **Nosepiece:** Quintuple revolving Nosepiece with minimum 5 position
- Auto Switch Off if microscope remains untouched
- **Camera:** High definition camera with mini HDMI connection for providing 16 megapixel or more resolution captured images on an SD card or with a PC and 1080i live image resolution directly to an HD monitor. To be supplied with USB cable, HDMI Cable, SD card.
- **Image Analysis Software:** for arranging and capturing images, live preview, dynamic image analysis
- UPS: Compatible online UPS of 1 kVa (branded) to provide at least one hour power backup with at least two years warranty.
- CE certification: The microscope should be CE certified and CE certificate should be submitted along with the technical bid.
- Electrical operation: Single phase 220-240 volts/ 50-60 Hz
- Compatibility: Microscope, camera and software should be strictly from same manufacturer for better upgradability and compatibility.
- Warranty: should have at least three years warranty on all part including lamp from the date of installation and satisfactory demonstration.

23- All Quartz Double Distillation Unit, Vertical

Water Distillation Unit (Vertical Model), with quartz condenser and a safety cutoff device with Output capacity- 2.5 Liters/ Hr. or more. Must include

Features:

Lower Boiler with inbuilt heater enclosed in a quartz boiler with a cup on top.

Demountable upper boiler with built in quartz coil and condensing unit mounted on the boiler with the help of ball and socket joint.

Double walled condenser to ensure separate condensation of vapors coming from two boilers using a single cooling circuit.

Unit can be mounted on a specially designed metal stand provided by the supplier and must come with an automatic safety control unit.

24- Incubator Shaker

- The Instrument should have platform size- 400 x 400 mm
- The Inner chamber size should be size- 550 x 470 x 460 mm (WxDXH) approx.
- The Instrument should accommodate 25 flask of 250 ml or 16 flask of 500 ml or 9 flask of 1000 ml. Instrument should be provided with 25 holders for 250 ml flask, 16 holder of 500 ml flask and 9 holder of 1000 ml flask. Holder should be made of stainless steel.
- Temperature range: 5°C to 60°C or better
- Temperature Accuracy: $\pm 0.5^\circ\text{C}$ or better
- Instrument should have CFC and HCFC refrigeration by heavy duty hermetically sealed compressor.
- No. of Blowers- 02 nos.
- Platform and Inner Chamber should be made of stainless steel.

- Instrument should have 20- 300 RPM or better
- Instrument Speed Accuracy ± 5 RPM or better.
- Instrument should have user defined acceleration and deceleration from 20 second to 500 seconds or better.
- The outer body should made of mild steel with epoxy powder coating.
- Instrument should have Micro- Controller based graphic LCD display.
- Instrument should have audio and visual alarm facility for temperature variation, sensor failure, door kept open etc.
- Instrument should have LED light which should illuminate automatically when the door opens.
- Instrument should be fitted with PT-100 sensor to have accurate temperature feedback of inner chamber.
- Instrument bower fan should shut off automatically when the door opens to avoid any major temperature variation.
- Instrument should be provided with a stainless steel shelve.
- Instrument should be calibrated and certificate for the same should be provided having traceability to ERTL.
- 5 KVA servo Stabilizer should be provided with the instrument.

25- Rotary Microtome

- Instrument should have section thickness setting from 1 to 50 microns.
- Instrument should have section thickness setting in 1 micron step.
- Instrument should have knife length 120 mm minimum
- Instrument should have Specimen Block holder- set of three.
- Instrument should have vertical specimen stroke of 55 mm or better
- Instrument should be able to accommodate specimen section of 32 mm or better
- Instrument should have facility of specimen orientation of 360°C.
- Instrument should provide adjustment with locks.
- Instrument should have manual thickness control through micrometer.
- Instrument should have knife angle from 0to 10°

26- Technical Specifications for Stereoscopic Microscope

- 1. Zoom range 0.8x to 3.5x**
- 2. Zoom ratio 4.4:1 or better**
- 3. Eyepieces 10x**
- 4. Working distance 100mm or better**
- 5. LED stand with built-in transmitted light and reflected light illumination**

27- Vertical Autoclave

- Capacity- 35 liters or more.
- Inside and outside of the autoclave should be of stainless steel.
- Autoclave should have hydraulically die pressure lid.
- Autoclave should have all internal joints argon welded, ground and polished to give crevice free internals.
- Lid of the autoclave should be fitted with pressure gauge, safety Valve, manual exhaust valve, Vacuum breaker cum purge valve.
- Autoclave should have drain valve facility for easy cleaning.
- Autoclave should have moulded silicon gasket.
- Autoclave should have fully stainless steel lid, flange, fly screw, cross pin.
- Autoclave should be supplied with stainless steel carrier along with heated cover stand.
- Autoclave should have Microprocessor based controller with timer and temperature programmable by the user.
- Autoclave should have backlit alphanumeric two line 32 characters LCD display showing all set values including process at a glance.
- Autoclave should be fitted with PT100 sensor for precise monitoring of the temperature.
- Operating temperature upto 122°C with resolution of 0.1°C.
- Autoclave should have low water level alarm and cut off.
- Autoclave should have sensor open alarm.
- Autoclave should have facility for end of cycle buzzer and auto reset.
- Autoclave should have circuit breaker for ON/OFF plus safety.
- Autoclave should have solenoid valve for automatic purging and exhaust.
- Autoclave should have high grade industrial heaters to consume less electricity.
- Autoclave should be supplied with test certificates and calibrations reports along with traceabilities for temperature controller and pressure gauge.

28- -20° C deep freezer:-

- Freezer type: Upright/ Vertical.
- Capacity: minimum 300 ltrs.
- Temperature range: -20 °C or better.
- Micro-processor based temperature controller with digital temperature display.
- Combination of pull out drawers / shelves and must have minimum four compartments and insulated inner door to minimize cold air loss.
- Should have rollers to rear for easy movement.
- Freezer must use CFC-FREE, HCFC-FREE non- flammable refrigerants, and refrigeration system must be energy efficient.
- Heavy duty Air-cooled compressor with low noise level (<60dB) and minimal vibration.
- Audio-visual high & low temperature alarm.
- System should be supplied with suitable electronic automatic voltage Stabilizer (1 KV Guard stabilizer) with high/low voltage cut off and time delay with stand.

29- Digital weighing balance

- The balance should have a weighing capacity from 1.0 mg to 250 g (0.001-250 grams).
- It should have Built-in function for balance levelling. The built-in Level Control function should be able to issue a warning when the balance is not level and provides on screen guidance to help the user level the balance correctly within seconds.
- The balance should have large color touch screen for comfortable operation and should have warning functions for valid and invalid weighing results.
- The balance should have Pass-codes to protect balance settings.
- It should have password protected access.
- Chemical resistant finish of the housing.
- It should have movable walled fibre or glass protection for minimizing the external errors during weighing. Easy door mechanism with dust free operation.
- It should have tare function for reducing the time for weighing separate samples
- Should have weigh mode switch function for selection of preferred weighing unit (mg/g).
- Weighing pan-size of approx. 90 mm.
- Warranty should be 2 years w.e.f. date of installation.

30- Classroom accessories (for PG Lab, Pathology)

(v) LCD Projector :

3300 ANSI Lumens Brightness

150001 Contrast Ratio

Resolution 800 x 600,

Aspect Ratio 43 SVGA

10000 Hour(s) lamp life in Eco mode

Create the big screen experience From box sets to business presentations, capture everyone's attention

Bright even with ambient light Equally high White and Colour Light Output of 3,300 lumens

(vi) Smart class projector board

Specification

Color - White

Usage/Application School

Accessories - USB Connector, LED, Interactive PEN, Software CD, Mounting type

Frequency 50 Hz, Lens Short Throat Projector

(vii) 5 core Podium

Portable Lectern Microphone Stand with 3 Inbuilt Speakers, USB, 2 Wireless Microphones

(viii) Computer (Notebook)

Internal Memory (ROM): 1TB

Memory Size (RAM): 8GB

Processor type: Intel Core i7-7700HQ Processor

31- Table top centrifuge:

- Table top micro-centrifuge
- Minimum vibrations while running the samples
- Rotors for Micro centrifuge tube, Culture plate, accommodate tubes such as 15 ml tubes 24 × spin columns, 18 × cryo Vial.
- Acceleration time to max. Speed < 20 s.
- Aerosol tight Rotor with 14000 rpm or better, and 20, 817 × g or more. Rotor should be PTFE-coated for increased chemical resistant and easy cleaning.
- Plate swing bucket rotor for PCR plates, combi slide adaptor, wind shield design for whisper quite operation.
- Timer- 30 s to 99:59h, with continuous mode.
Two year warranty

32-Spectrophotometer:-

- Spectrophotometer for micro volume sample size quantification ranging from 0.5 -2 µl.
- A single platform for micro volume quantitation of DNA, RNA and Protein.
- Should covers entire wavelength range should be 200-800 nm or better
- Path length should be 1 mm.
- Light source should be Xenon flash lamp.
- Detector type should be CCD array.
- Measurement time should be 20 sec or less
- Detection limit should be 2 ng/µl (ds DNA).
- Should have pedestal for sample loading with latest sample retention technology.
- Maximum concentration limit should be 15000 ng/µl (ds DNA) or better.
- Absorbance precision should be at least 0.002 at (1 mm path)
- Pre-configured methods for DNA, RNA and Protein A280, Protein and Bradford, BCA, and Lowry etc.
- Online UPS system of 1 KVa (branded) with atleast 1 hr battery backup should be provided with the instrument.
- Should have warranty of 2 years from the date of installation

33- Hot air oven with voltage stabilizer

- Triple walled construction, Volume ó Approx. 300 litres.
- Chamber should be made of stainless steel with 03 removable stainless steel perforated trays.
- Temperature controlled by digital Indicator cum controller PID based with safety alarm.
- Temperature from 50°C to 250°C with a sensitivity of +/- 1°C or better. Should have over-temperature protection. High temperature stability over time.
- Should provide 3 heating elements on 3 sides of equipment to have uniform temperature on all the shelves.
- Should have adjustable temperature range and should have automatic cut-off at calibrated temperature and time.
- Air exhaust vent to be provided.
- Should have proper air circulating fan.
- Door shall be properly insulated, shall be fitted with heavy hinges and should have locking facility. It must have thick insulation for low heat dissipation so that it should not become hot from outside.
- Provision for Glass window to view of inner chamber.
- Good quality voltage stabilizer.
- Instruction manual should be provided.
- Warranty: Minimum 2 Years.

34- BOD Incubators with voltage stabilizer

- Capacity : 250-300 L
- Temperature Range : 5°C to 60°C
- Temperature Accuracy : + / - 0.1°C
- Temperature sensor and digital microprocessor temp indicator which displays values of set temperature and attained temperature inside the chamber
- Digital PID controller
- No of Shelves : Three adjustable, perforated Stainless Steel tray shelves for better air flow.
- Fluorescent lamp for chamber visibility for experiments which require light exposure, fluorescent tube arrangement with 0 to 24 hrs cycle with ON / OFF timer.
- Audible & Visual Alarm for temperature deviation
- Suitable for operating temperature 5 to 50°C and RH (0 to 90%)
- Double Door with Magnetic packing, High Temp safety inner glass door
- Viewing window for easy visibility of inner chamber (optional)
- Temperature uniformity inside the chamber through forced air - circulation
- CFC free compressor.
- Good quality voltage stabilizer
- Warranty: Minimum 2 Years.

35- Horizontal Laminar Air Flow

- External size - approx. 4 x 3 x 6 (W*D*H) feet
- Working surface area - Stainless steel with mirror finish, seamless, clean washable/chemical resistant/corrosive free.
- Polypropylene/ steel construction. Interior surface and outer surface with powder coating for longer life.
- Antimicrobial, double layered HEPA Filters having high efficiency rating (>99%), retaining all air-borne particles of size 0.3 microns and larger.
- Antimicrobial, washable, high efficiency pre-filter
- Transparent Side panel and Front door of Anti-UV toughened glass, Safety glass panelling,
- High intensity fluorescent light - low wattage, U. V. Germicidal tube in work area, Auto switch on/off for U.V. Germicidal tube & fluorescent light.
- Two water-proof sockets for using small devices inside the cabinet.
- Air flow velocity - approx. 100 ft / min \pm 20%
- Low noise level (\leq 65 dB) having branded parts like heavy duty motor assembly and blower (centrifugal type with lubricated bearings) etc.
- Microprocessor based LED Control panel, Digital display for air flow rate.
- Power supply - 220-230 V, 50 Hz.
- Comfortable and ergonomically proper front slope.
- Unit with wheels for easy movability
- Vinyl stripe curtain for front closure for protection against UV light
- Warranty: Minimum 2 Years.

36- Horizontal Laminar Air Flow

- Working Dimension - **4 x 2 x 2 feet**
- Working surface area - Stainless steel with mirror finish, seamless, clean washable/chemical resistant/corrosive free.
- Polypropylene/ steel construction. Interior surface and outer surface with powder coating for longer life.
- Antimicrobial, double layered HEPA Filters having high efficiency rating (>99%), retaining all air-borne particles of size 0.3 microns and larger.
- Antimicrobial, washable, high efficiency pre-filter.
- Transparent Side panel and Front door, Safety glass panelling, High intensity fluorescent light - low wattage, U. V. Germicidal tube in work area, Auto switch on/off for U.V. Germicidal tube & fluorescent light.
- 5/15 amps electrical points on the panel
- High air flow speed approx. 100 ft / min \pm 20%
- Low noise level having branded parts like heavy duty motor assembly and blower (centrifugal type with lubricated bearings) etc.
- Microprocessor based LCD Control panel, Digital display for air flow rate.
- Power supply - 220-230 V, 50 Hz.
- Unit with wheels for easy movability
- Vinyl stripe curtain for front closure for protection against UV light
- Warranty: Minimum 2 Years.

37- Fume Hood

- Approx size: 5ft /1.5 m
- The system should run on 220-240V AC, 50 Hz, single phase.
- Standard vertical rising fail safe counter balance sash constructed of safety glass should be employed to maximize operator safety.
- Maximum sash opening should be around 550 mm, however, it should automatically and gently fall back to the safe level. Sash should be clearly labelled with operating instructions and illustrations.
- Should be fabricated of Industrial-grade support dual wall structure constructed of electro- galvanized with zinc coated steel and aluminium with a corrosion and abrasion resistant oven-baked powder-coated finish.
- All the painted surfaces should be coated with an anti abrasion and weathering resistance coating to minimize wear and tear.
- One remote controlled gas fixture and 1 remote control water fixture should be provided with the hood.
- Hood lighting system should be pre-wired, energy efficient, working light intensity should be 1050-1080 lux.
- Working table should be Dished provides spill retention and is constructed of phenolicresin, a highly corrosion-resistant material.
- Two electrical outlets should be provided having a rating of 5/8 amp
- It should have automated supervision with LCD display
- Exhaust ducting work, connection accessories and installation should also be quoted.
- A 3KV online UPS with 60 min. Backup
- Fume Hood should be ASHRAE 110-2016 tested and certified
- Warranty: Three years after installation.
- Base cabinet should be partitioned into four vertical cabinets

- Attach original technical literature/ catalogue in support of the mentioned specifications

38- Chlorophyll Meter

Type	Chlorophyll Meter	
Measurement subject	Crop leaves	
Measurement method	Optical density difference at 2 wavelength	
Measurement area	2 mm x 3 mm	
Subject thickness	1.2 mm maximum	
Subject insertion depth	12 mm (with stopper having position adjustable from 0 to 6 mm)	
Light source	2 LED elements	
Receptor	1 SPD (silicon photodiode)	
Display	LCD panel showing 4-digit measurement value (values shown to first decimal place) and 2- digit number of measurement; Trend graph of values in memory can also be shown.	
Display range	-9.9 to 199.9 SPAD units	
Memory function	Memory capacity for up to 30 values; Calculation/display of average of data in memory also possible	
Power source	2 AA- size alkaline batteries	
Battery life	More than 20,000 measurements (when using new alkaline batteries under Konica Minolta test conditions)	
Minimum interval between measurements	Approx. 2 seconds	
Accuracy	Within ± 1.0 SPAD units (for SPAD value between 0.0 and 50.0 under normal temperature /humidity) ± 0.5 added to display when measurement exceeds 50.0 SPAD units	
Repeatability	Within ± 0.3 SPAD units	For SPAD value between 0.0 and 50.0 (with no change in sample position)
Reproducibility	Within ± 0.5 SPAD units	
Temperature drift	Within ± 0.04 SPAD units/ C	
Operating temperature/humidity range	0 to 50 C; Relative humidity of 85% or less (at 35 C) with no condensation	
Storage temperature/humidity range	-20 to 50 C; Relative humidity of 85% or less (at 35 C) with no condensation	
Size; Weight	78 (W) x 164 (H) x 49 (D) mm, 200 g (excluding batteries)	
Other	Warning buzzer; User compensation factor	
Standard accessories	Depth stop; Strap; 2 AA-size alkaline batteries; Soft case; Reading checker	

39- Zero till seed drill

Type	Zero till seed drill
Overall dimensions	Length- 2000 mm, Width- 1600 mm Height- 1200 mm
Working width	2000 mm
Seed and fertilizer metering	Fluted roller 8 grooves made by CI & Brass
Type of furrow opener	Inverted ó T type
Power transmission	Sprocket and Chain drive
Seed and fertilizer box	16 G Sheet
Ground drive wheel diameter	450 mm
Weight of machine	350 kg
Field capacity	1 ha/h

40- LAWN MOWER

Type	LAWN MOWER
Weight (Kg)	31 Kg
Type of product	Petrol lawn mower
Cutting width	19 Inch
Displacement	160 CC

41- POWER TILLER

Type	POWER TILLER
Power	8.5 HP
Type	Single Cylinder, Air Cooled and Diesel Engine
Bore X Stroke	86 x 62 mm
Displacement	418 CC

42- THRESHER

Type	THRESHER
Power required	35 HP tractor or above
Capacity	1000-1500 Kg per hour
Usage/Application	Multi crop threshing
Material	Steel/Iron
Function	Multi-crop
Automation grade	Automatic
Threshing capacity	3000 ó 5000 Kg/hr

43- Aqua Ferti Seed Drill

Type	Aqua Ferti Seed Drill
Usage/Application	Agriculture
Power	15-60 HP
Automation Grade	Semi-Automatic
Material	Mild Steel
Working Width	3 ó 10 Feet

44- HAPPY SEEDER

Type	HAPPY SEEDER
Number of rows	9
Row to row distance	20-23.5 cm
Number of blades	36
Rotor diameter	140 mm
Fertilizer mechanism aluminum	Nylon type fluted roller
Seed mechanism aluminum	Nylon type fluted roller
Working width	220-235 cm
Overall width	225-255 cm
Number of depth wheel	2 Nos. with adjustable depth
Type of furrow openers	Inverted - T type
Frame structure having corrosion resistance and robust design	
Set of type completer	9 number

45- Sprayers

Battery :- 12V, 12AH With speed control switch
Motor Heavy duty
Lance steel with Indian nozzle fitting
Plastic material high quality
Tigger type : on-off brass lock
heavy nozzel 5 type
Connector for Indian nozzle using purpose
Tank Capacity 16 lt (litre)

46- Classroom accessories

(i) LCD Projector: One

3300 ANSI Lumens Brightness

150001 Contrast Ratio

Resolution 800 x 600,

Aspect Ratio 43 SVGA

10000 Hour(s) lamp life in Eco mode

Create the big screen experience From box sets to business presentations, capture everyone's attention

Bright even with ambient light Equally high White and Colour Light Output of 3,300 lumens

Affordable, high-tech equipment Enjoy this SVGA projector

(ii) Smart class projector board

Specification

Color White

Usage/Application School

Included USB Connector, LED

Accessories Interactive PEN, Software
CD, Mounting

Frequency 50 Hz

Lens Short Throat Projector

(iii)5 core Podium-01

Portable Lectern Microphone Stand with 3 Inbuilt Speakers, USB, 2 Wireless Microphones

(iv)Computer (Notebook)

Internal Memory (ROM): 1TB

Memory Size (RAM): 8GB

Processor type: Intel Core i7-7700HQ Processor

47- ELECTRONIC BALANCE

SPECIFICATIONS: Maximum weighing capacity 250-300 g and minimum, readability 0.0001g Repeatability (std deviation) and linearity should be + 0.1 mg and + 0.2 mg respectively. Display update should be 0.1-0.4 seconds, Operating temperature should be +10°C to + 45°C, High contrast, LCD display with bright vacuum fluorescent, Fully automated internal calibration with built in weight, Dimensions of weighing pan 90+ 5 mm. Power source 120 VAC AC adapter, Built in standard RS-232 C interface Warranty 24 months, FOR ICAR-NIBSM, Raipur.

Part -3 of Schedule of Requirements (Section -IV)

1. Inspection and tests: As per Clause No.8 of General Condition of Contract.
2. Packing: As per Clause No.9 of General Condition of Contract.
3. Insurance: As per Clause No.12 of General Condition of Contract.
4. Distribution of dispatch Documents: as per clause No.13 of General Condition of Contract.
5. Incidental Charges: As per Clause No.14 of General Condition of Contract.
6. Warranty: As per Clause No.16 of General Condition of Contract.
7. Payment: The designation and address of paying authority is: **Sr. Administrative Officer, Director, ICAR-NIBSM, Baronda, Raipur (C.G.)**
8. Prices: The Institute is entitled to avail the concessional rate of Custom and Excise duty; therefore rate should be quoted accordingly.
9. Resolution of Disputes: As per Clause No.28 of General Condition of Contract.
10. Notices:

The address of the Purchaser for the purpose is:
Sr. Administrative Officer, Director, ICAR-NIBSM, Baronda, Raipur (C.G.)
11. Taxes and duties: No Form "D", "C" and Road permit will be issued by this Institute. Rest terms as per Clause No.32 of General Condition of Contract.

Section-VI
QUESTIONNAIRE

BIDDERS SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW. IN CASE A QUESTION DOES NOT APPLY TO A BIDDER, THE SAME SHOULD BE ANSWERED WITH THE REMARK "NOT APPLICABLE". BIDDERS MAY PLEASE NOTE THAT IF THE ANSWERS SO FURNISHED ARE NOT CLEAR AND/OR ARE EEVASIVE THE BID WILL BE LAIBLE TO BE IGNORED.

1. Bid No..... Date for bid opening on.....
2. Offer is open for acceptance
3. Brand of goods offered :
4. Name & address of manufacturer :
5. Station of Manufacturer. :
6. What is your permanent Income?
Tax A/C No.
7. Confirm whether you have attached your latest/current ITCC or certified photocopy thereof.
8. Status :
- (a) Are you currently registered with the Directorate General of Supplies & Disposals (DGS&D) for the item(s) quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.
- (b) Are you a small scale unit currently registered with the National Small Industries Corporation (NSIC) under Single Point Registration Scheme for the items(s) quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.
- (c) If you are not registered either with NSIC or DGS&D, please state whether you are currently registered with Directorate of Industries of the State Government concerned. If so indicate the date up to which you are registered and whether there is any monetary limit on your registration.
- (d) Are you registered under the Indian Companies Act, 1956 or any other Act?
Please attach certified copy (copies) of the relevant registration certificate(s) in confirmation to you above answer(s).
9. Please indicate
Name & Full address of your Banker(s):
10. Whether you are :
 - i) Manufacturer of the goods quoted or
 - ii) Manufacturer's authorized agent for those goods.
11. State whether business dealings with you have been currently banned by any Ministry/Deptt. Of Central Govt. or any State Govt.

Signature of Witness

Name & address of Witness

Signature of Bidder

Full name, designation & address of the person signing above for and on behalf of Messrs.

.....
Name & address of bidding firm)

SECTION VII/1

BID FORM AND PRICE SCHEDULES

To

Date.....

**The Director,
ICAR-National Institute of Biotic Stress Management,
Baronda,
Raipur (C.G.)**

Ref: - Your bidding documents NO..... dated.....

Having examined the above mentioned bidding documents, including agenda Nos..... (if any), the receipt of which is hereby duly acknowledged, we the undersigned, offer to supply and deliver equipments/items mentioned in Part-1 of Schedule of requirements in conformity with the said bidding documents for the sum as shown in the price schedules, attached herewith and made part of this bid.

We undertake if our bid is accepted, to deliver the goods and complete the services in accordance with the delivery schedule specified in the **Schedule of requirements** after fulfilling all the applicable requirements incorporated in the above referred bidding documents.

If our bid is accepted, we will provide you with performance security as per the instructions specified in GCC clause 7 and in a form accept bit to you in terms of GCC clause 7.5 for a sum equivalent to 10% (ten percent) of the contract price for the due performance of the contract.

We agree to abide by this bid for the bid validity period specified in the ITB clause 15(read with modification, if any, in the Bid Data Sheet) or for the subsequently extended period, if any, agreed to by us and it shall remain binding up on us and may be accepted at any time before the expiration of that period.

Until a format contract is prepared and executed this bid together with your written acceptance thereof and your notification of award, shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this..... day of.....2011.....

Signature
(In the capacity of)
Duly authorized to sign bid for and on behalf of)

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

S.No.	Particulars	
1.	Schedule No.	
2.	Item description	
3.	Country of Origin	
4.	Accounting Unit and Quantity	
5.	Price per Unit	
	(a) Ex-factory/Ex-Warehouse/ Ex-Showroom off the shelf	
	(b) Excuse Duty, if any	
	(c) Packing and forwarding	
	(d) In-land transportation	
	(e) Insurance other duties and taxes, If any (other than sales tax) and incidental costs	
	(f) Incidental service (including supervision)	
6.	Overall Unit Price (a+b+c+d+e+f)	
7.	Total Price (4x6)	
8.	Sales Tax payable, if contract is awarded	

Total bid price in Rupees (in figures)
(in words)

Place:

Date:

Signature of bidder

Name

Business address

Note:

- i. In case of discrepancy between unit price and total price, the unit price shall prevail.
- ii) If nothing to the contrary to this effect is mentioned under Section V (Technical Specification and Quality Control Requirements), the bidder shall give list of spare parts for two years operation separately indicating description, quantity, unit price and total price in the above format for those items whose scope of supply includes spare parts as per 'Technical Specifications' give in Section V.

PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

S.No.	Particulars	
1.	Schedule No.	
2.	Item description	
3.	Country of Origin	
4.	Accounting Unit and Quantity	
5.	Price per Unit	
	(a) Unit Price FOB Port of loading	
	(b) Inland transportation charges, Insurance and other local costs incidental to delivery, if specified.	
	(c) Incidental services including supervision	
6.	Overall Unit Price (a + b+c)	
7.	Total Price (4 x6)	
8.	Indian Agent's name	
9.	Indian Agent/s Commission as a percentage of FOB price included in the Quoted price.	
10.	Shipment weight and volume	

Total bid price in Rupees (in figures)
(in words).....

Place :
Date :

Signature of bidder
Name :
Business address:

Note:

- i) In case of discrepancy between unit price and total price, the unit price shall prevail.
- ii) If nothing to the contrary to this effect is mentioned under Section V (Technical Specification and Quality Control Requirements), the bidder shall give list of spare parts for two years operation separately indicating description, quantity, unit price and total price in the above format for those items whose scope of supply includes spare parts as per 'Technical Specifications' give in Section V.
- iii) Indian Agent's commission shall be paid in Indian Rupees only. No charge due to exchange variation shall be allowed.

Section VII/2
BANK GUARANTEE FORM FOR BID SECURITY

Whereas..... (Name of bidder) (hereinafter called “the bidder”) has submitted his bid dated(date) for the supply of(brief description of the relevant goods and services) (hereinafter called “the bid”). Against the purchaser’s tender enquiry No.....

KNOW ALL PEOPLE by these presents that We(name of the bank) having registered office at(full address) (hereinafter called “the bank”) are bound into(name of the purchaser) (hereinafter called the purchaser”) in the sum of(amount in figures and in words) for which payment well and truly to be made to the said purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this.....Day of20.....

THE CONDITIONS OF THIS OBLIGATION ARE:

1. If the tenderer Withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
2. If the tenderer having been notified of the acceptance of its tender by the Purchaser during the period of bid validity:-
 - a) If the tenderer fails to furnish the Performance Security for the due performance of the contract.
 - b) Fails or refuses to accept/execute the contract.

We undertake to pay to the purchaser up to the above amount upon receipt of its first written demand without the purchaser having to substantiate its demand, provided that in its demand the purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the above mentioned two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including 45 (forty five) days after the period of tender validity and any demand in respect thereof should reach the bank not later than the above date.

.....
Signature of the Bank Seal of the Bank
.....

Name and designation of the officer
.....

Seal, name & address of the Bank and address of the Branch

Date :

Place :

SECTION VII/3

MANUFACTURER'S AUTHORISATION FORM

To

**The Director,
ICAR-National Institute of Biotic Stress Management,
Baronda,
Raipur (C.G.)**

Ref: **your Bidding Documents No.....dated.....**

Dear Sir,

We....., who are established and reputable manufacturers of(name and description of the goods offered in the bid) having factories athereby authorize Messrs.....(name and address of the agent) to submit a bid, negotiate (as and if necessary) and conclude the contract with you against your above mentioned Bidding Documents for the above goods manufactured by us.

No company or firm or individual other than Messrs.....(name and address of the above agent) is authorized to bid, negotiate and conclude the contract against this specific Bidding Documents for the above mentioned goods manufactured by us.

We hereby extend our full guarantee and warranty as per clause 15 of the General Conditions of Contract, read with modification, if any in the Special Conditions of contract for the goods and services offered for supply against this Bidding Document by the above firm.

Yours faithfully,

(Signature name and designation)

for and behalf of Messrs.....

[Name & address of the manufacturers]

Note: This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. The authorization Certificate should be from the "Manufacturer" only and certificate from any other firm/person including OEM arrangements would not be accepted.

SECTION VII/4

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

To

**The Director,
ICAR-National Institute of Biotic Stress Management,
Baronda,
Raipur (C.G.)**

Whereas.....(name and address of the supplier) herein after called “the supplier”) has taken, in pursuance of contract No..... dated.....to supply.....(description of goods and services) (hereinafter called “the contract)

And whereas it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a recognized bank acceptable to you, for the sum specified therein as security for compliance with its (supplier’s) obligations in accordance with the contract.

AND WHEREAS we have agreed to give the supplier such a bank guarantee:

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of (amount of the guarantee in words and figures), such sum being payable in the types and proportions of currencies in which the contract price is payable, and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We further undertake to pay you the sum so demanded notwithstanding any dispute or disputes raised by the supplier in any suit or proceedings pending before any court or tribunal relating liability under this present being absolute and univocal.

We also hereby waive the necessity of your demanding the said amount from the supplier before presenting us with the demand.

We further agree that you shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the contract or to extend the time of performance by the supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by you against the supplier and to forbear or enforce any of the terms and conditions relating to the contract and we shall not be relieved from our liability under this guarantee.

This guarantee shall be valid and shall remain in force until.....day of20.....

Dated the.....day of.....20
For
(Name of the Bank)

Signature.....
Name of the officer.....
(In Block letters)
Designation of the officer.....
Code No.....
Name of the Bank and full address