

ICAR - CENTRAL INSTITUTE OF FISHERIES EDUCATION

(Deemed University), Indian Council of Agricultural Research
Panch Marg, Off Yari Road, Versova, Andheri (West), Mumbai-400061

Tel. No. 022-26361446/7/8

Fax No. 022-26361573 Web Site: www.cife.edu.in



BIDDING DOCUMENT



BIDDING FOR EQUIPMENTS



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INVITATION FOR BIDS

F.No. 36-08/16-17/XIIthPlan Equip./P/

Dated: 20.07.2016

1. The Director, Central Institute of Fisheries Education (Deemed University) (Indian Council of Agricultural Research), Ministry of Agriculture, Government of India invites SEALED TENDERS from the reputed Indian/Foreign manufacturers or their accredited/sole authorized distributors/dealers for supply of the following equipment's under single bid system.

Sr. No.	Particulars	Qty.	Sr. No.	Particulars	Qty.
Aquaculture Division			FNBP Division		
1.	Colour Analyzer (EFC)	1	18	Fluorescence Spectrophotometer	1
2	Muffle Furnace (EFC)	1	19	Bomb Calorimeter (Replacement)	1
3	Flame Photometer (EFC)	1	Powarkheda Centre		
FGB Division			20	DO Meter	1
4	CO ₂ Incubator (Replacement)	1	21	Electronic Balance (EFC)	1
5	Microvol. spectrophotometer (Proj)	1	22	Water Bath (EFC)	1
FRM Division			23	Autoclave (EFC)	1
6.	Incubator (EFC)	1	24	Refrigerated centrifuge (EFC)	1
PHT Division - Project			Kolkata Centre		
7	Muffle Furnace (EFC)	1	25	Refrigerated Centrifuge (EFC)	1
8	Microvol. Spectrophotometer (EFC)	1	26	Colour Measurement system (EFC)	1
AEHM Division			27	Deep Freezer (-20°C) (EFC)	1
9	Bio- Safety Cabinet (EFC)	1	28	UV visible Spectrophotometer (Rep)	1
10	Gel Documentation System (EFC)	1	29	Water Purification System (Rep)	1
11	Deep Freezer -20°C (EFC)	1	30	pH Meter (Replacement)	1
12	Electronic balance	1	Kakinada Centre		
13	High Speed Cooling Centrifuge (P)	1	31	Fully Automatic Orbital Shaker (EFC)	1
14	Microvol. Spectrophotometer (P)	1	32	Deep Freezer (EFC)	1
15	-80C Deep freezer (P)	1	33	Microplate Reader (EFC)	1
16	-20C freezer (P)	1	Rohtak Centre		
17	Homogeniser (P)	1	34	Paddle Wheel Aerators (2 HP) (EFC)	1
			TSP Project		
			35	Field Oxygen & pH Meter (EFC)	1

2. **The Director, Central Institute of Fisheries Education (Deemed University)(Indian Council of Agricultural Research), Ministry of Agriculture, Government of India** invites **SEALED TENDERS** from the reputed Indian/Foreign manufacturers or their accredited/sole authorized distributors/dealers for supply of the following equipment's.
3. Tender must be submitted in the original prescribed form separately for each equipment with rates for delivery at this office including all levies, taxes, installation etc, complete, if applicable duly addressed to the Director, CIFE, Mumbai-400 061 in a sealed cover superscribing as **TENDER FOR EQUIPMENT FOR THE YEAR 2016-2017** with the **Name of Equipments and Item No.**
4. The Tender documents containing terms & conditions may be obtained from the Purchase Section of CIFE, Mumbai- 400 061 on any working day between **11.00 hrs to 16.00 hrs.** up to the last date of sale of Tender, on payment of **Rs.1000/- for equipments Rs.5.00 lakhs & above Rs.500/- for equipments below Rs.5.00lakhs (Non-Refundable).**
5. **For single bid equipments** enclose **Earnest Money Deposit @ 2.5%** of the tendered amount in the shape of Demand Draft/Pay Order drawn in favour of **"ICAR Unit CIFE,"** payable at, Mumbai. **For Double bid equipments** enclose **Earnest Money Deposit** of fixed amount Rs. 15000/- (Fifteen thousand rupees only) in the shape of Demand Draft/Pay Order drawn in favour of **"ICAR Unit CIFE,"** payable at, Mumbai. Tender documents complete in all respect should be submitted along with requisite EMD failing which tender is liable to be rejected. NSIC certificate will not be entertained for imported items. NSIC certificates of only manufacturers will be considered.
6. The Tender documents containing Terms & Conditions is also available on our web site: www.cife.edu.in which can be downloaded and submitted along with the cost of Tender documents of **Rs.1000/- for equipments Rs.5.00 lakhs & above; Rs.500/- for equipments below Rs.5.00 lakhs (Non-Refundable)** separately for each equipment in form of D.D/Pay Order drawn in favour of **"ICAR Unit CIFE" Payable at Mumbai** along with **EMD as mentioned in Para 5** failing which tender shall be rejected.
7. For item cost exceeding **>5.00 Lakhs** tender should be submitted in **two bid system i.e. Technical Bid & Commercial Bid** which should be sealed in separate envelope and both the bids should again be sealed in a big envelope failing which it will be rejected. The Technical bid shall be opened on the date of opening of Tender. The date of opening of commercial bid of successful Technical bidder/bidder's shall be communicated separately. Details of 3 previous purchase orders to be provided.
7. Both FOB and CIF rates to be quoted in foreign currency for imported items.
8. Tenders received after the **DUE DATE and TIME** will not be accepted in any circumstances.
9. In no case request for blank Tender documents by post shall be entertained. The duly filled in tender form send by post received after due date and time shall not be accepted.
10. In case the date of issue/receipt of opening of Tender is declared as Holiday for unexpected reasons the tender will be issued/received/opened on the next working day at the same time. The tender documents are non-transferable. Director of the institute reserves the right to accept / reject any or all the tenders without assigning any reason thereof.
11. Amendments if any shall be published only on CIFE web site upto 7 days before the last date of submitting tender which may be watched by the perspective bidders for downloading and incorporating in the tender.

Assistant Administrative Officer (P)



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F.No. 36-08/16-17/XIIthPlan Equip./P/

Dated: 20.07.2016

1. Issue of tender document on	20.07.2016
2. Last date for issue of tender document on	10.08.2016
3. Date of Pre-bid Meeting	03.08.2016
4. Acceptance of sealed tenders 13.00 hrs on	10.08.2016
5. Opening of tender at 16.00 hrs on	10.08.2016

N.B.: For item cost exceeding >5.00 Lakh tender should be submitted in two bid system in the manner prescribed in the IFB Para No. 05.

Name of the equipment: _____

Item No. : _____

TENDER FORM SHALL HAS TO BE PURCHASED AND SUBMITTED SEPERATELY IN SEALED ENVELOPES.

To,

M/s.
.....

Sub: Supply of Tender Form - reg.

Dear Sir,

With reference to your application dated _____, please find enclosed herewith tender form along with the detailed specifications receipt _____ Dated _____ for ` _____ for the supply of following equipment.

Kindly acknowledge the receipt of the same.

Yours faithfully,

Assistant Administrative Officer (P)



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Invitation to Tender and instructions to Tenders

Also See Annexure

I, II, III, IV, V, VI

Tender No. _____

F.No. 36-08/16-17/XIIthPlan Equip./P/

Dated: 20.07.2016

Note: The envelope containing the tender as well as all subsequent Communication should be addressed and delivered to :-

Director,
ICAR - Central Institute of Fisheries Education
(ICAR - Deemed University)
Panch Marg, Off Yari Road,
Versova, Andheri (W), Mumbai - 400 061

All communications must be addressed to the Officer named above by Title only and not by name

To,

M/s. _____

Dear Sirs,

On behalf of the purchaser (Named in the schedule attached to tender form enclosed), I invite you to tender for the supply of the stores detailed in the said schedule. The conditions of contract, which will govern any contract made, are those contained in the general conditions of contract applicable to the contracts placed by Indian council of Agricultural Research and the Research Institute under it and the special conditions detailed in the Tender Form (and those attached herewith).If you are in a position to quote for supply in accordance with the requirements stated in the attached schedule, please submit your quotations to this office on the prescribed tender form attached.

2. EARNEST MONEY :

EMD of Rs. _____ (which is 2.5% of Bid Amount) should be enclosed along with the bid in the form of demand draft or cash may be remitted at the cash counter.

In no circumstances Government Promissory Notes, State Bank Pass Book or Cheque will be received with Tender as Earnest Money.

THE TENDER MAY NOT BE CONSIDERED IF THE EARNEST MONEY RECEIPT IS NOT SENT WITH THE TENDER. No request for transfer of any previous deposit of Earnest Money will be entertained.

It is understood that the tender document has been issued to the tender and the tender is being permitted to tender in consideration of the stipulation on his part that after submitting his tender, he will not resale from his offer or modify the terms and condition thereof. Should the tender fail to observe and comply with the foregoing stipulation the aforesaid amount will be forfeited to the Central Institute of Fisheries Education. In the event of the offer made by the tendered not being accepted, the amount of Earnest Money deposited by the tendered will be refunded to him after he has applied for the same in manner prescribed by Indian Council of Agricultural Research/Central Institute of Fisheries Education.

The Earnest Money Deposit of the successful Bidders is likely to be forfeited in case he fails to supply the Equipment/Stores or fails to submit Security Deposit as per Supply Order.

The Earnest Money should not on any account fall short of the amount actually required.

NSIC certificate will not be considered for imported items and only NSIC certificates of manufacturers will be considered.

3. SECURITY DEPOSIT:

The successful bidder will have to submit 10% of the amount of supply order excluding of Taxes etc. as Security Deposit in form of Bank Guarantee or Demand Draft before supplying the material.

The Security Deposit shall be released/refunded only after successful completion of Guarantee/Warranty period.

4. PREPARATION OF TENDER:

- (a) The Schedule to the tender form should be submitted in prescribe format only..
- (b) The Schedule to the tender from should be returned intact whether you are quoting for any item or not. Pages should not be detached but when items are not being tendered for the corresponding space should be defaced by some such words as "Not quoting"
- (c) In the event of space on the schedule from being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bear the tender Number & be fully signed by the tenderer. In such cases reference to the additional pages must be made in the tender from.
- (d) If any modification of the schedule is considered necessary, tenderer should communicate the same by means of a separate letter sent with the Tender.

5. SIGNING OF TENDER:

- (e) The Tender is liable to be ignored if complete information is not given there in or if the particulars and date (if any)/asked for in the schedule to the Tender are not fully filled in. Specific attention must be paid to delivery dates and also to the General Conditions of the Contract, as the Contract would be governed by them.
- (f) Individual signing the tender or other documents connected with a contract must specify whether he signs as: -
 - (I) A sole proprietor of the firm or constituted attorney of such sole proprietor.
 - (II) A partner of the firm if it be a partnership, in which case he must have authority to refer to arbitration disputes concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney.
 - (III) Constituted attorney of the firm if it is a company.

N B. (A) In case of (ii) a copy of the partnership agreement or general power of attorney in either case attested by a notary public should be furnished unless the same has been previously furnished to Indian Council of Agricultural Research/Central Institute of Fisheries Education, or affidavit on stamped paper of all the partners admitting execution of the general power of attorney should be furnished.

(B) In the case of partnership firms where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.

(C) A person signing the Tender Form or any documents forming part of the contract on behalf of another shall be deemed to warrant that he has authority to bind each other and if on enquiry it appears that the person so signing has no authority to be so the purchaser may without prejudice to other civil and criminal remedies cancel the contract and hold the signatory liable for all cost and damages.

(d) Each page of the tender, schedule to tender and annexure, schedule to tender and annexure, if any should be signed by the tenderer.

6. DELIVERY OF TENDER:

The original copy of the Tender is to be enclosed in a double cover. The inner cover should be sealed. **The outer cover should be superscribed in bold letters" Tender for the supply of** **Right is reserved, to ignore any tender which fails to comply with the above instructions.** All outstation tenders should be sent by registered post. Only one tender should be included in one cover. Where more than one tender is included in a cover, all tenders so enclosed in one cover will be liable to be ignored.

7. LATEST HOUR FOR RECEIPT OF TENDER:

Unless otherwise specified in the schedule to tender, your tender must reach this office not later than 13.00 hrs. on the date of opening of the tender; Tenders sent by hand delivery should be put in the Tender box at this office located at New Campus in the Administrative Wing not later than 13.00 hrs. on the due date unless otherwise stipulated in the schedule to tender.

8. PERIOD FOR WHICH OFFER WILL REMAIN OPEN:

- (I) Firms tendering should note that it is desired that their offers should remain open for acceptance for 90 days from the date of opening of tender, If the firms are unable to keep their offers open for the specified period their tenders are likely to be rejected.
- (II) Quotations qualified by such vague and indefinite expressions such as "SUBJECT TO IMMEDIATE ACCEPTANCE, 'SUBJECT TO PRIOR SALE" WILL NOT BE CONSIDERED.

9. OPENING OF TENDER:

You are at liberty to be present or authorize a representative to be present at the time of opening of the tender at the time and date as specified in the schedule. The name and address of the representative who would be attending the opening of the tender on your behalf should be indicated in your tender please also state the name and address of your permanent representative, if any.

10. PRICES:

- I. (i) The prices quoted MUST BE PER UNIT SHOWN in the schedule and must specify separately all packing and delivery charges. Refunds on account of returnable packages (if any) are to be separately specified. Prices and refund must be clearly shown in figures and words in Indian currency or in foreign currency, if it is an imported equipment. Please quote the Indian agents commission if the equipment is imported, which will be paid in Indian Rupees after installation of the equipment.. All bank charges outside India will be borne by the tenderer. L.C. amendment charges will be borne by the tenderer.
- (ii) The price must be stated for each item separately. The percentage of reduction, in the total price for the entire demand should also be quoted, and order to that extent be placed with you.
- II. (i) If it is decided to ask excise duty, Octroi, sales tax or any other charges as extra, the same must be specifically stated in the absence of any such stipulation it will be presumed that the prices include all such charges and no claim for the same will be entertained.
- (ii) The price quoted by the tenderer should exclusive of sales tax (and should be clearly stated to be so), which will be paid by the purchaser, if legally liable at the rate ruling on the date of supply as specified in the Acceptance of Tender.

Please note CIFE is eligible for payment of custom only at concessional rates and fully exempted from payment of Central Excise Duty as per Govt. Notification No. 51/96-Customs dated 23 July 1996 and No. 10/97-Central Excise dated 01 March 1997 as amended from time to time respectively.

11. TERMS OF DELIVERY:

The delivery of stores is required by date (s) specified in the schedule to Tender. If however, it is not possible for tender to affect delivery by the date (s) you should specify the date by which you can guarantee delivery in prescribed schedule to the tender.

12. SAMPLES:

Tender samples are not required unless specifically called for
QUOTATIONS WITHOUT SAMPLES WHERE SAMPLES ARE SPECIFICALLY CALLED FOR
ARE LIABLE TO BE IGNORED.

Samples of what you offer to supply should not be less than the quantity necessary for test as per specification, if any, or in the schedule to tender. In case the quantity of sample required for test is given either in specification or in the schedule to tender, this should be adhered to. Each sample should deal either in specification or in the schedule to tender:-

- (a) Your name and address.
- (b) Tender No.
- (c) Date of opening of tender.
- (d) Item No. against which tender submitted.
- (e) Any other description if necessary, written clearly on it.

The samples should be sent to the Officer to reach him by the date specified in the schedule. The cost & freight of sending the sample shall be borne by the tender & there will be no obligation on the part of the receiving officer for their safe custody. Tenders who do not submit the sample by the time specified in the schedule will run the risk of their tenders being ignored.

SAMPLES SENT 'FREIGHT TO PAY' WILL NOT BE ACCEPTED. The packages & the Railway Receipt should be addressed to the Inspecting officer or other officer concerned & nods to 'self'.

If the samples are sent by Railway parcel, the Railway Receipt should not be enclosed with the tender documents but should be posted separately to the office to Whom the samples are sent (under a covering letter giving the necessary particulars to enable him to connect the Railway receipt easily with the parcel), Samples submitted by Tenders whose offers are not accepted (provided they have not been destroyed during testing) will be delivered to their representatives if they call for the same or can be returned to them at their cost provided the application for return is made to the officer to whom the samples are sent, within one month after the contract is placed on the successful tender, or after notification of cancellation of demand. If no application is received within the due date, the samples will be disposed of by public auction and the sale proceeds credited to council /CIFE (ICAR) Mumbai, India.

13. EXAMINATION OF PATTERNS OF CERTIFIED SAMPLE:

When sealed patterns of stores are mentioned in the schedule to the tender form, specification in these or certified samples thereof may be seen at the place stated in the schedule to tender and should be examined by a competent person on your behalf (who should take this invitation with him) before the tender is submitted.

14. PACKING: Unless a method of packing is medicated in the specification or on the Schedule to the tender form the method of packing which the contractor proposes to employ must be described in the schedule to Tender Form. Contractors are at liberty to quote for additional alternative sizes and description of packs and these must be described in the schedule to tender.

15. RIGHT OF ACCEPTANCE:

This office does not pledge itself to accept the lowest or any tender and reserves to itself the right of accepting the whole or any part of the tender or portion of the quantity offered and tender shall supply the same at the rate quoted. Tender is at liberty to tender for the whole or any portion or to state in the tender that the rate quoted shall apply only if the entire quantity is taken from the tender.

16. COMMUNICATION OF ACCEPTANCE:

Acceptance by the purchaser will be communicated by telegram, Fax, express letter of acceptance or formal "Acceptance of tender. In case where acceptance is communicated by telegram or express letter, the formal Acceptance of Tender, will be forwarded to tender, by registered post as soon as possible but the instructions contained in the telegram or express letter should be acted upon immediately.

17. RESERVATION OF RIGHT TO ORDER ADDITIONAL QUANTITY:

The purchaser reserves the right to place order on the successful tender for additional quantity (upto 25%) of the quantity offered by them at the rate quoted. Tenders are bound to accept if placed on them within six months from the date of issue of acceptance of Tender.

18. PRE-INSPECTION OF STORES BY THE SUPPLIER:

In case a contract is placed on you as a result of this tender, you should satisfy yourself that the stores are in accordance with the terms of the contracts and fully confirm to the required specifications by carrying out thorough pre-inspection, such precaution on your part should minimize the chance of rejection in inspection and the consequences thereof.

For and on behalf of

ICAR - Central Institute of Fisheries Education
Indian Council of Agricultural Research
(Deemed University)
Panch Marg, Off Yari Road,
Versova, Andheri (W), Mumbai- 61

(Signature)



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GENERAL CONDITIONS OF CONTRACT APPLICABLE TO CONTRACTS PLACED BY THE INDIAN COUNCIL OF AGRICULTURAL RESEARCH OR THE INSTITUTES UNDER IT

GENERAL CONDITIONS OF CONTRACT

1. DEFINITIONS and interpretations:

- (1) In the contract the general and special condition governing it, unless the context Otherwise requires: -
 - (a) "Acceptance of tender" means the letter of memorandum communication to the contractor the acceptance of his tender and includes an advance acceptance of his tender.
 - (b) "Consignee" mean the persons to whom the stores are required by the acceptance of tender to be delivered in the manner therein specified.
 - (c) "Contractor" means the invitation to tender; instructions tenders, tenders tender acceptance of tender, particulars and the general and special conditions specified in the acceptance of tender and includes a repeat order which has been accepted or acted upon by the contractor.
 - (d) "Contractor" means the person with whom the contract is made and includes his heirs. Executors administrators or successors and permitted assignees, as the case may be.
 - (e) "Drawing" means the drawing or drawing or drawings specified in or annexed to the Schedule or Specification.
 - (f) "Council" means the Indian Council of Agricultural Research or the Institute etc. under its administrative control.
 - (g) "Inspector" means the person specified in the contract for the purpose of inspection of stores of work under the contract and includes his authorized representative.
 - (h) "Material" means anything used in the manufacture or fabrication of the stores.
 - (i) Particulars include :-
 - (i) Specification

- (ii) Drawing
- (iii) Pattern bearing the seal and signature of the inspector (hereinafter called the sealed pattern) which shall include also a certified copy thereof sealed by the purchaser for the guidance of the inspector.
- (iv) Sample sealed by the purchaser for the guidance of the inspector (hereinafter called the certified sample) which shall include a certified copy thereof sealed by the purchaser for the guidance of the guidance of the inspector;
- (v) Trade pattern, that is to say a pattern, stores conforming to which are obtainable in the open market & which denoted a standard of the Indian Standards Institute or other standardizing authority or a general standard of the industry;
- (vi) Proprietary mark or brand means the mark or brand of a product which is owned by an industrial firm;
- (vii) Any other details governing the construction, manufacture or supply of stores as may be prescribed by contract;
- (j) "Purchase officer" means the officer signing the acceptance of tender & includes any officer who has authority to execute the relevant contract on behalf of the Purchaser ;
- (k) "Purchaser" means the purchaser named in the Schedule of acceptance to the tender & includes his successor or assignees;
- (l) (a) "Secretary" means the Secretary of Indian Council of Agricultural Research & includes any other officer of the Council or of any other body, Institution or Organization under the Administrative Control, of the Council, who has been authorized for the time being to execute relevant contracts relating to purchase of stores on behalf of the purchaser.

(b) Director means the Director of Central Institute of Fisheries Education, (ICAR), Versova, Mumbai, India.
- (m) "Schedule" means the Schedule annexed to the acceptance of tender.
- (n) "Signed" includes stamped, except in the case of an acceptance of tender or any amendment thereof.
- (o) "Site" means the place specified in the Schedule at which any work is required to be executed by the contractor under the contract or another place approved by the Secretary/ Director for the purpose.
- (p) "Stores" means the goods specified in the schedule which the contractor has agreed to supply under the Contract.
- (q) "Supply order" means an order for supply of stores & includes an order for performance or service.
- (r) "Test" means such test as is prescribed by the particulars or confided necessary by the Inspector, whether performed or made by the Inspector or any agency acting under the direction of the Inspector.

- (s) "Unit" & "quantity" means the unit & quantity specified in the schedule;
- (t) "Writing" includes matter either in whole or in part, in manuscript, typewritten lithographed, cyclostyled, or printed, or under or over signature or seal as the case may be;
- (u) The delivery of stores shall be deemed to take place on delivery of the stores in accordance with the terms of the contract, after approval of the Inspector to :-
 - (i) The consignee his premises or.
 - (ii) The consignee at the destination station in case of contracts stipulating for delivery of stores at destination station.
- (v) Words in the singular include the plural & Vice-Versa.
- (w) Words importing the masculine gender shall be taken to include the feminine gender & word Importing persons shall include any company or association or body of individuals, whether incorporated or not.
- (x) The heading of these conditions shall not affect the interpretation or construction thereof.
- (y) Terms & expression not herein defined shall have the meaning assigned to them in the sale of
Good Act, 1930 or the Indian Contract Act. 1872 or the General clause Act 1897, as the case may be.

2. (a) PARTIES:

The parties to the contract are the contractor and the purchaser, named in the schedule.

(b) AUTHORITY OF PERSON SIGNING THE CONTRACT ON BEHALF OF THE CONTRACTOR:

A person signing the tender or any other documents in respect of the contract on behalf of the contractor without disclosing his authority to do so shall be deemed to warrant that he has authority to bind the contractor. If it is discovered at any time that person so signing has no authority to do so. The Secretary may without prejudice to any other right on remedy of the purchaser cancel the contract and make or authorize the making or purchase of the stores at the risk and cost of such person and hold such person liable to purchaser of all costs and damages arising from the cancellation of the contract including any loss which the purchaser may sustain on account of such purchase. The provisions of clause 14 shall apply to every such purchase as far as applicable.

(c) ADDRESS OF THE CONTRACTOR AND NOTICES AND COMMUNICATION ON BEHALF OF THE PURCHASER:

(I) For all purposes of the contract, including arbitration there under, the address of the contractor mentioned in the tender shall be the address to which all communications addressed to the contractor shall be sent, unless the contractor has notified a change by a separate letter containing no other communication and sent by registered post acknowledgment due to the Director, CIFE. The contractor shall be solely responsible for the consequence of an omission to notify a change of address in the manner aforesaid.

(II) Any communication or notice on behalf of the purchaser in relaxation to the contract may be issued to the contractor by purchase officer and all such communications and notices may be served on the contractor either by registered post or under certificate if posting or by ordinary post or by hand delivery at the option of such officer.

3. AUTHORITY OF THE SECRETARY/DIRECTOR:

For all-purpose of the contract including arbitration proceedings there under, the Secretary / Director shall be entitled to exercise all rights and powers to the purchaser.

4. RESPONSIBILITY OF THE CONTRACTOR FOR EXECUTING THE CONTRACT:

(1) Risk in the stores: - The contractor shall perform the contract in all respects in accordance with the terms and condition thereof. The stores and every constituent part thereof, whether in the possession or control of the contractor, his agents or servants and the purchaser his agents or servants shall remain in every respect at the risk of the contractor until their actual delivery to the consignee/person specified in the schedule at stipulated place or destination. The contractor shall be responsive for all loss, destruction damage or deterioration of or the stores from any cause whatsoever while the stores after approval by the Inspector are awaiting dispatch or delivery or are in the course of transit from the contractor to the consignee/person named in the Schedule. The contractor shall alone be entitled and responsible to make claims against a railway administration or other carrier in respect or non-delivery, mis-delivery, destruction, damage or deterioration of the goods entrusted to such carrier by the contractor for transmission to the consignee.

(2) Consignee's right of rejection :- Notwithstanding any approval which the inspector may have given in respect of the store or any materials or the contract (whether with or without any test carried out by the contractor or Inspector or under the direction of the Inspector) it shall be lawful for consignee, to reject the stores or any art, portion or Consignment thereof within a reasonable time acute; devour thereof to him at the place or destination specified in the contract if such stores or part, portion or consignment thereof is any less, deterioration or damage before dispatch or delivery or during transit or/otherwise howsoever,

The provision contained in clause 17 relating to the removal of stores rejected by the purchaser's Representative shall MUTATIS MUTANDIS; apply to stores rejected by the consignee as herein provided.

(3) (a) SUBLETTING AND ASSIGNMENT:

The contractor shall not, save with the previous consent in writing of the Secretary /Director, Sublet, transfer of assign the contractor or any part there of or interest therein or benefit or advantage thereof in any manner whatsoever, provided, nevertheless that any such consent shall not relieve the contractor any obligation, duty or responsibility under the contract.

(b) CHANGE IN A FIRM:

(i) Where the contractor is a partnership firm, a new partner shall not be introduced in the firm except with the previous consent in writing of the Secretary/Director which may be granted only upon acceptance of a written undertaking by the new partner to perform the contract & accept all liabilities incurred by the firm under the contract prior to the date of such undertaking.

(ii) On the date of retirement of any partner of the contractor firm before complete performance of contract the Secretary/Director may at his option cancel the contract and in such case the contractor shall have no claim whatsoever to compensation against the purchaser.

(iii) If the contract is not determined as provided in sub clause (ii) above not with standing the retirement of a partner from the firm he shall continue to be liable under the contract for acts of the firm until a copy of the public notice given by him under section 32 of the partnership Act has been sent by him to the Director High Security Central Institute of Fisheries Education.

(c) CONSEQUENCE OF BREACH:

Should the contractor or a partner in the contractor's firm commit breach of either of the conditions (a) or (b) (I) of this sub-clause, it shall be lawful for the Secretary/Director to cancel to contract & purchase or authorize the purchase of the stores at the risk & cost the contractor & in that event the provisions of clause 14 shall as for as applicable, apply.

(d) THE DECISION OF THE SECRETARY ICAR:

Director, CIFE to any matter or thing concerning or arising out of this sub-clause or on and any question whether the contractor or any partner or the contractor firm has committed a breach of any of the conditions in this sub-clause contained shall be final and binding on the Contractor.

(4) USE OF RAW MATERIALS SECURED WITH COUNCIL'S ASSISTANCE:

(1) Where any raw material for the execution of the contract is procured with the assistance of the Council by purchase or under arrangement made or permit, license, quote certificate or release order issued by or on behalf or under authority from the Council or by any officer empowered in that behalf by law or is issued from Council's stock and where advance payment are made to the contract to enable him to purchase such raw materials for the execution of the contract, the contractor:-

(i) Shall hold such materials as trustee for the Council.

(ii) Shall use such material economically and solely for the purpose of contract.

(iii) Shall not dispose of the same without the previous permission in writing of the Secretary/Director; and

(iv) Shall tender due account of such material and return to the Council at such place as the Secretary may direct all surplus or unserviceable material that may be left after the completion of the contract or its termination for any reason whatsoever.

(5) Where the contract is terminated due to any default on the part of the contractor the contractor shall pay all transport charges incurred for returning any material up to such destination as may be determined by the Secretary/Director and the decision of the Secretary/Director in that behalf shall be final and binding on the contractor.

(6) If the contractor commits breach of any of the conditions in this clause specified he shall without prejudice to any other liability; penal or otherwise be liable to account to the Council/ CIFE for all moneys advantages or profits accruing from or which in the usual course would have accrued to him by reason of such breach.

(7) Where the stores manufactured or fabricated by the Contractor out of the materials arranged or procured by or on behalf of the Council / CIFE, pay to the Council / CIFE, on demand the cost price or market value of such materials whichever is greater.

(8) QUOTATIONS OR RATES BY CONTRACTORS:

(I) The price quoted by the contractor shall not be higher than the controlled price fixed by law for the stores or where there is no controlled price, save for special reasons stated in the tender, be higher than the price usually charged by the contractor for stores of the same nature, class or description to a private purchaser.

(II) In the price quoted higher than the controlled price or where there is no controlled price, the price usually charged by the contractor for private purchase for the stores of the same of the same nature class or description, the contractor will specially mention this fact in his tender given reason for quoting higher price (s). If he fail, to do or make any misstatement, it shall be lawful for the Secretary/Director: - (i) to revise the price at any stage so as to bring it in conformity with sub clause (I) above, or (ii) to terminate the contract and purchase stores at risk and the cost of the contractor and in that event the provision of clause 14 shall apply as for as applicable it the contractor has failed to deliver the stores within the period fixed.

(9) CORRUPT PRACTICES:

(i) The contractors shall not offer or give or agree to give to any person in the employment of the purchaser or working under the order of the Secretary/Director any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or airborne to do any act in relation to the obtaining or execution of the contract or another contract with the Council/CIFE (ICARI) Mumbai or for showing or for beating to show favour or disfavor to any person in relation to the contract or any other contract with Council/CIFE (ICAR) Mumbai. Any breach of the aforesaid condition by the contractor, or any one employed by him or acting on his behalf (whether with or without knowledge of the contractor) or the Commission of any offence by the contractor or by any one employed him or acting on his behalf under Chapter IX of the India Penal Code. 1860 or the Prevention of Corruption Act, 1974 or any other Act enacted for the prevention of corruption by public servants shall entitle the Secretary/Director to cancel the contract and all or any loss arising from such cancellation in accordance with the provisions of Clause 14.

(ii) Any dispute of deference in respect of either the interpretation effect or application of the above condition or of the amount recoverable there under by the purchaser from contractor shall be decided by the Director General, Indian Council of Agricultural Research or his nominee whose decision thereon shall be final & binding on the contractor.

10. INSOLVENCY AND BRAECH OF CONTRACT:

The Secretary/Director may at any time, by notice in writing, summarily terminate the contract without compensation to the contractor in any of the following events that is to say: -

(i) If the contractor benign individual or if a firm any partner thereof, shall at any time be adjusted in-solvency or shall have a receiving order or order or order for administration of his estimate made against him or shall take any proceeding for composition under any Insolvency Act for the time being in force or make any conveyance or assignment of his effect or enter into any arrangement of his effect or enter into any arrangement or composition with his credits or suspend payment or, if the may be dissolved under the partnership Act, or

(ii) It the contractor being a company is wound up voluntarily or by the order of a court or a Receiver, liquidator or Manager on behalf of the Debenture holders in appointed or circumstances shall have arisen which entitled the court or Debenture holders to appoint a Receiver, liquidator or Manager, or

(iii) If the contractor commits any breach of the contract not herein specifically provided for: - Provided always that such determination shall not prejudice any right action or remedy which shall have accrued or shall accrue thereafter to the purchaser for any extra expenditure is thereby put to, the contractor shall under no circumstances be entitled to any again on repurchase.

11. ARBITRATION :

In the event of any question, dispute to deference arising under these conditions or any special conditions of contract, or in connection with this contract, (except as to any matters the decision of which is specially provided for by these or special conditions) the same shall be referred to the sole arbitration of an officer appointed to be the arbitrator by the Director General, Indian Council of Agricultural Research. It will be no objection that the arbitrator is a Govt. Servant/Council's Servant that had to deal with the matters to which the contract relates or that in the course of this duties as a Govt. Servant/Council's Servant he has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final & binding on the parties to this contract.

In the event of the arbitrator dying, neglecting or refusing to act, or resigning being unable to act for any reason, or his award being set aside by the Court for any reason, it shall be lawful for the Director General Indian Council of Agricultural Research to appoint another in place of the out-going arbitrator the manner aforesaid.

It is the further a term of this contract that no person other than the person appointed by the Director General India Council of Agricultural Research as aforesaid should act as arbitrator and that, if for any reason that is not possible, the matter is not to be referred to arbitrator at all.

The arbitrator may from time with the consent of all the parties to the contract enlarge the time for making the award.

Upon every and any such reference, the assessment of the costs incidental to the reference and award respectively shall be in the discretion of the arbitrator.

Subject as aforesaid, the Arbitration Act. 1940 and the rules there under and any statutory modification thereof for time being in force shall be deemed to apply to the arbitrator proceedings under the clause.

Work under to contract shall, if reasonably possible, continue during the arbitration proceedings and in payment due to or payable by the purchaser shall be withheld on account of such proceedings.

The venue of arbitration shall be the place from which the acceptance note is issued or such other place as the arbitrator at his desecration may determine. In this clause the expression the "Director General, Indian Council of Agricultural Research" means the Director General, Indian Council of Agricultural Research for the time being & includes, if there be no Director General, Indian Council of Agricultural Research, the officer who is for the time being the administrative head of the Indian Council of Agricultural Research whether in addition to other functions or otherwise.

SPECIAL INSTRUCTIONS:

- (1) Purchaser: Central Institute of Fisheries Education, Versova, Mumbai India.
- (2) The stores are required by (time indicated in supply order). Please quote earliest possible guaranteed date by which you can offer supply.
- (3) Consignee : The Director, (CIFE) Mumbai
- (4) The tender must quote clear delivery terms indicating F.O.B. (Free on Board) F.A.S. (Free at ship port of export for imported stores & CIP destination/delivery at site/F.O.R. destination for indigenous as applicable. Incomplete tender is liable to be ignored.

- (5) Conditions of contract as contained in Special/General conditions of contract & Schedule and annexure to the tender attached herewith.
- (6) Tenders are bound to accept order for additional quantity (up to 25%) at the rate quoted only if order is placed on them within six months from the date of issue of Acceptance of Tender.
- (7) In case the tender wants to furnish in separate covering letter any additional information particulars or quote conditions (e. g. those relating to allowance discount, rebate etc) which cannot be accommodated in the tender form an indication to that effect should be given in the tender form by means of note. In the absence of such indication in the tender form, the contents of the covering letter will be ignored in consideration of tender.
- (8) Firms tendering should note that it is desired that their offers should remain open for acceptance for 90 days from the date of opening of tender, If the firms are unable to keep their offers open for the specified period their tenders are likely to be rejected
- (9) Unattested amended figures overwritten figure will not be considered.
- (10) (a) Where there is provision for payment of Sales tax, it will only be paid if registration number both under State and Central Sales Tax Rules/Act are specifically mentioned on the bill/invoice.
- (b) Photostat Copy, duly attested a correct, of the Sale-tax declaration to the effect that firm is registered under the Sales-tax department, and
- (c) 3-GA (5)' or 3/ga (2) Form, as the case may be, should be attached along with each bill or supply; otherwise the purchase tax as may be applicable, will be deducted from each bill of supply.

If the above requirement are not fulfilled and Photostat copy of registration certificate issued by the sales- tax Deptt is not attached with the tender form may not be accepted even though the rates may be the lowest.

MANUFACTURES NAME THEIR TRADE MARK AND BRAND, IF ANY, SHOULD INVARIABLY BE MENTIONED IN THE TENDER ILLUSTRATED LEAFLETS GIVING TECHNICAL PARTICULARS, OPERATION MANUFAL ETC, SHOULD BESENT ALONGWITH THE TENDER TO FACILITATE CONSIDERATION OF OFFER.

Dated _____

(Signature of the Tenderer)



ICAR - CENTRAL INSTITUTE OF FISHERIES EDUCATION

(Deemed University), Indian Council of Agricultural Research

PanchMarg, Off Yari Road, Versova, Andheri (West), Mumbai-400061

Tel. No. 022-26361446/7/8, Fax No. 022-26361573 Web Site : www.cife.edu.in



TENDER NO.

Full name & address of the Tender, in addition to post Box No. if any, should be Quoted in all communications To this office.

1. Contractor's Telegraphic Address_____
2. Telephone No._____
3. Fax No._____

To,
THE DIRECTOR
ICAR - CENTRAL INSTITUTE OF FISHERIES
EDUCATION (I.C.A.R.) DEEMED UNIVERSITY, PANCH
MARG,
OFF YARI ROAD, VERSOVA, ANDHERI (W), MUMBAI – 400 061

Dear Sir,

I/ We hereby offer to supply the stores detailed in the schedule here to or such portion thereof as you may specify in the acceptance of Tender at the price given in the said schedule and agree to hold this offer open till _____ I/We shall be bound by a communication of acceptance dispatched within the prescribed time.

2. I/We understood the instruction to Tenders & Conditions of Contract included in General Conditions of Contract covering contracts placed by the Indian Council of Agricultural Research & research Institutes under if & in the Special Conditions of contract & have thoroughly examined the specification drawing & /or pattern quoted in the schedule thereof & /are fully aware of the nature of the stores of the stores required & my/our offer is to supply stores strictly in accordance with the requirements.

3. The following pages have been added to & form part of this tender_____

Yours faithfully,

(SIGNATURE OF TENDERER)

Address_____

Signature of witness:

Dated_____

Address_____



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ANNEXURE - II

ANNEXURE TO SCHEDULE TO TENDER

(to be returned by Bidders along with the Tender duly signed)

1. GENERAL

Tenders should furnish a clear declaration as follows:

I/We declare that I am/we are:-

- (I) Manufactures
- (II) Manufacture's authorized agents.
- (III) Holders in stock of the stores tendered for.

(Strike out what is not applicable)

2. CONDITIONS OF CONTRACT.

Printed on cyclostyled or such terms & conditions of the tendering firms not appearing in the body of the tender, will not be considered as forming part of their tender. Tendering firms should, quote on the basis of the conditions of contract applicable to the Invitation to Tender are not acceptable to the tendering firms they should specifically state deviation there from the body of their tender.

3. PRICES :

- a) Prices must be in terms of new coinage system, via Rupees and Paise.
- b) The unit prices should be for the same units indicated in the schedule to tender inquiry and not any other unit.
- c) Prices quoted should be invariable for delivery Station of Destination in India & exclusive of charge as packing forwarding, freight insurance, excise custom, duty, Octroi etc. where ever applicable, which should be indicated separately in clear terms as mentioned in item 9 of invitation to tender & instructions to tenders.
- d) Quantity discount, if any, should be indicated prominently.
- e) The F.O.R. Station of Dispatch Prices shall be deemed to include free delivery to the consignee situated within Municipal Corporation limits/radius of 10 kilometres from the firm's premises in case of local delivery.
- f) **Offers on firm price will only be accepted and multi quotation shall be rejected.**

5. CUSTOMS DUTY:

I. For imported stores offered against forward delivery, the tenders shall quote price thereto exclusive of custom duty. **The quotation shall specify separately the F.O.B. Price, C.I.F. Price & the custom Duty payable.** They will also indicate correctly the rate of customs duty applicable along with Indian Customers Tariff number.

II. In cases where all the tenders have quoted only for imported stores against forward delivery the tenders will be on prices exclusive of customers duty. In such cases, the amount of Customs duty as legally liable calculated with reference to the tariff value of the stores declared by the tenders in their tender, but not exceeding the actually paid, will be reimbursed to the successful tender.

III. Customs Duty actually paid, not exceeding the amount legally liable, will be provisionally reimbursed to the successful tender to the extent of 90% on production of relevant document (bill of entry etc.) along with advance payment of 90% that may be stipulated in contract provided that the said imported stores are delivered in full or before the date quoted in the contract and accepted by the Council/CIFE MUMBAI in case of delay in the delivery thereof, only 90% of the Customs duty as defined above will be subject to final adjustment on satisfactory completion of the supply stipulated in the contract, If is a specific condition of this Tender Inquiry that any increase in customs duty payable or paid by the successful tender due to the delivery of the said imported stores or part thereof alter the date of delivery stipulated in the contract shall not be reimbursed.

IV. If the purchaser is of the opinion that the Custom Duty has been wrongly assessed either because of wrong classification or any reason whatsoever, the supplier shall be bound at the request of the purchaser to pursue all legal reediest to challenge that assessment at the suppliers cost. If, as a result of such proceedings a refund is obtained, it shall be deposited forthwith by the supplier with the Director, CIFE Mumbai, India.

6. TRANSIT INSURANCE.

The purchaser will pay separately for transit insurance, in case of imported equipments only. The supplier will ensure that the entire stores contracted for arrive in good condition at destination.

The consignee will, as soon as possible, but not letter than 30 days of the date of arrival of stores at destination, notify the supplier of any loss or damage to the stores that may have incurred during transit,

7. PRICE PREFERENCE FOREARLIER DELIVERY :

It should be noted that if a contract is placed on a higher tender as a result of this invitation to tender in preference to the lowest acceptable offer in consideration offer earlier delivery the supplier will be liable to pay to the Council / CIFE Versova Mumbai the difference between the contract rate & that of the lowest acceptable tender on the basis of F.O.R., destination including all elements of freight, Sales tax local taxes, duties, & other incidentals in case of failure to complete supplies in terms of such contract within the date of delivery specified in the tender and incorporated in the contract. This is in addition to & without prejudice to other right under the terms of the contract.

8. PAYMENT TERMS:

(I) For Domestic/ Indigenous goods /stores not requiring, installation & Commissioning, 100% payment shall be released on receipt and acceptance of goods and for goods requiring, installation & commissioning by the supplier 90% payment shall be released on receipt and acceptance of goods by the institute and balance 10% shall be released after successful installation, commissioning and demonstration by the supplier.

(II) For Imported Goods where installation, erection and commission are not the responsibility of the supplier 100% net FOB/FAS price shall be released against invoice, shipping documentations, inspection certificate (Where applicable), manufacturer test certificate etc. Cases where installation, erection and commissioning are the responsibility of the supplier 90% net FOB/FAS Price will be released against invoice inspection certificate (Where applicable), shipping documents etc. and balance after 21-30 days of successful installation and commissioning at the site and accepted by CIFE/ICAR.

(III) If payment is desired to be made to the Suppliers Bankers or other parties, the endorsement must be completed in the bill form & signed separately. & the word self-scored out in addition a power of attorney or transfer deed will be necessary in such cases conferring authority on the Bankers or the party concerned to receive payment on behalf of the contractor.

(IV) Payment shall be released by Cheque/ Demand draft by speed post within 30 days after acceptance of goods, installation, commissioning, Demonstration as the case may be to the Domestic / Indigenous supplier.

(V) For goods which are imported payment will be made by establishing irrevocable letter of credit (L/C) through S.B.I.Trade Finance CPC, TFCPC, Hallmark Business Plaza, 2nd Floor, Sant Dnyaneshwar Marg, Bandra (E) Mumbai. Or by Wire Transfer, after receiving material or proof of dispatching the consignment (i.e. Bill of lading/Airways bill, Packaging list, etc). In no case payment in advance will be made.

9. ADDITIONAL PARTICULARS TO BE FURNISHED BY THE TENDEREER:

Tenders shall submit along with their tenders:-

- (i) Permanent Account Number along with photo state copy of PAN Card.
- (ii) Name & full address of their Banker.
- (iii) The equipment they possess for the manufacture of stores & for quality Control.

10. GUARANTEE/ WARRANTY:

The tenders shall furnish along with their quotations the under noted guarantee/ warranty.

(i) Guarantee that they will supply spare parts if & when required on the agreed basis of or an agreed price. The agreed basis could be an agreed discount on the published catalogues or on agreed percentage of profit on the landed cost.

(ii) Warranty to the effect that before going out of production for the spare parts they will give adequate advance notice to the purchaser of the equipment so that the latter may undertake the balance of the life requirements.

(iii) The warranty to the effect that they will make available operation manual (s), the blueprints or drawings of the equipment/spares, if any, when required in connection with the main equipment.

(iv) The contractor shall furnish the following warranty in case contract is placed on him :-

The contractor/seller hereby declares that the good/store, articles sold to the buyer under this contract shall be of the best quality & workmanship & shall be strictly in accordance with the specification & particulars contained/mentioned in the clause 8 of general conditions of contract applicable to contracts placed by the ICAR or Research Instt. Under it & sub-clause here & the contractor/seller hereby guarantees that the said goods/stores/articles would continue to confirm to the description & quality aforesaid for a period of one year from the date of delivery of the said goods/stores/articles to the purchaser & that notwithstanding the facts that the Purchaser(Inspector may have inspected and/or approved the said good/stores/articles, if during the aforesaid period of one year the said good/stores/articles be discovered not to confirm to the description quality. On such rejection the good/articles/store will be at the seller's risk & all the provision herein contained relating to rejections of goods etc. shall apply the contractors seller shall if so be called upon to replace within a period as may be extended from time to time by the purchaser in his discretion on an application made thereof by the purchaser & in such an event the above mentioned warranty period shall apply to goods/stores/articles replaced from the date of replacement thereof otherwise the contractor/seller shall pay to the purchaser such damages such damages as may arise by reason of the breach of the condition herein contained. Nothing herein contain prejudice any other right of the purchaser in that behalf this contract or otherwise.

11. JURISDICTION:

All questions disputes or difference under, out of or in connection with the contract if concluded shall be subject to the exclusive jurisdiction of the Court within the local limits of whose jurisdiction the place which the Acceptance of Tender is issued, is situated i.e. Mumbai.

Dated_____

(Signature of Tenderer)



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ANNEXURE TO SCHEDULE TO TENDER

(to be returned by Bidders along with the Tender duly signed)

TENDERERS MUST GIVE SPECIFIC ANSWERS AGAINST EACH OF THE FOLLOWING QUESTIONS. TENDERS CONTAINING EQUIVICAL OR EVASIVE REPLIES WILL BE IGNORED

1. Whether stores offered conform to particulars quoted in the schedule: if not, details of deviations must be stated here.
2. (I) Brand
(II) Name & Address of manufacture:
(III) Station of manufacturer
3. Guaranteed date by which delivery can be completed.
4. PACKING THAT IS PROPOSED TO BE EMPLOYED.
Whether specification packing will be adhered to:
5. Whether sample submitted.
(1) Stock in hand at the Present time consist of
(a) (Held by us _____)
(b) Held by M/S _____ over which we have Secured an option
(2) Stock enrouted to India.
(3) If the stores offered are manufactured in India whether all the raw materials, components etc., used in their manufacture are also produced in India. If not give details of materials components, etc. that are imported and their countries of origin. A clear up of the indigenous and imported components together with their value and the proportion it bears to the total value of the stores should also be given.
6. Raw materials are held in stock sufficient for the manufacture of
7. (I) State specifically whether the price tendered by you is to the best of your knowledge and belief , not more than the price usually charged by your for the stores of the same nature, class or description to any private purchaser domestic or foreign, as well as purchaser Government, Autonomous Organization etc. If not, state the reason thereof and also indicates the margin difference.
(II) In respect indigenous stores for which there is controlled price fixed by law, the price quoted shall not be higher than the controlled price. If the price quoted exceeds the control price the reason thereof shall be specifically stated.
8. Business name constitution of tendering firm registered under :-
 - (i) The Indian companies Act 1956
 - (ii) The Indian Partnership Act 1932 (Please give the names of parties).
 - (iii) Any Act, if not, who are the owners (Please give full names).

9. Do you agree to the arbitration clause stipulated? (Your acceptance or not acceptance on this clause will not influence the decision of the tender. It should however, be noted that an omission to answer the above question will be deemed as an acceptance of the clause).

(FOR PARTNERSHIP FIRMS WHETHER REGISTERED OR NOT REGISTERED UNDER INDIAN PARTNERSHIP ACT 1932)

Should the answer to this question by a partnership firm be in the affirmative, please state further

- (a) Whether by the partnership agreement authority to refer disputes concerning the business of the partnership to arbitration has been conferred on the partner who has signed the tender.
- (b) If the answer to (a) is in the negative, whether is any general power of attorney executed by all the partners of the firm authorizing the partner who has signed the tender to refer dispute concerning business of the partnership to arbitration.
- (c) If the answer to either (a) or (b) is in the affirmative, have you already furnished a copy of either the partnership agreement or the general power of attorneys the case may be to CIFE (ICAR) Mumbai. Please quote the reference to the communication by which this was done.

N.B.: If of neither the partnership agreement nor the general power of attorney has previously been furnished to the CIFE (ICAR) Mumbai, please attach to the tendered copy of other documents on which reliance is placed for authority of partner or the partner or the partners signing the tender to refer disputes to arbitration. The copy should be attested by a notary public or its execution should be admitted by affidavit on a properly stamped paper by all the partners. If-Where authority to arbitration has not been given to the partner signing, the tender must be signed by every partner of the firm.

10. (FOR MANUFACTURING FIRMS)

- i) What is your installed capacity?
- ii) What is your working capacity?
- iii) What is the existing load?
- iv) What portion of your capacity are you prepared to reserve and allocate to this Rate Contract?

(FOR SOLE AGENTS/STOCKIST)

- i) What is your present stock?
- ii) What is the column of order (including Government and others) pending with you at present?
- iii) What is the rate of issue?
- iv) What is the rate of issue?
11. i) What stock you will maintain at each importance centre in India.
ii) What is the time and rate required for replenishment of the stocks at these rates?
12. Whether earnest money has been deposited? If so, the receipt No. Date & Amount deposited quoted.

Date _____

(Signature of Tenderer)



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ANNEXURE TO SCHEDULE TO TENDER

(To be returned by Bidders along with the Tender duly completed and signed)

Name of Equipment: _____

Item No. : _____

Sr.No.	Description	Qty.	Rate	Total

Gross total cost ` _____ (in figures) (` _____
_____ (in words).

We agree to supply the above goods in accordance with the Technical specifications for a total contract price (Including all taxes & Octroi, Transportation, Installation Freight charges, etc.) of ` _____ (in figures) (` _____ (in words) within the period specified in the invitation for Quotations.

We also confirm that the normal commercial warranty/guarantee of _____ months shall apply to the offered goods.

(Bidder)

Name : _____

Signature : _____

Date : _____

Item No. 01: Colour Analyzer for Ornamental Fish (Quantity 1)

Technical Specification

- Benchtop Color measurement Spectrophotometer for Colour Measurement of products like dry fish powder, feeds, fish skin.
- Complete with Ring & Disk set as well as glass sample cup.
- Port insert for sample cup.
- Sample cup opaque cover.
- 45°/0° Geometry for Visual Correlation.
- 45° circumferential Illumination using a cylindrical mirror & 0° viewing.
- Should have large port diameter 1.25" for accuracy.
- Convenient Port Up configuration.
- Should provide Calibration standards Traceable to NIST
- Should provide a calibrated diagnostic green tile for performance validation
- Glass Covered Port Insert
- Color Scales: CIE L*a*b*, Hunter Lab, CIE L*c*h, CIE Yxy, CIE XYZ
- Indices and Metrics: E313 Whiteness (C/2° or D65/10°), E313 Tint (C/2° or D65/10°), E313 Yellowness (C/2° or D65/10°), D1925 Yellowness (C/2°), Y Brightness, Z%, 457 nm Brightness, Opacity, Color Strength (Average and Single Wavelength), Gray Change, Gray Stain, Metamerism Index, Shade Number.
- Wavelength range of 400 to 700 nm
- Wavelength Resolution < 3 nm
- Reporting Interval: 10nm
- Detection: 2-channel polychromator with 256-element scanned array (half for sample channel, half for monitor)
- Light Source: Pulsed Xenon lamp > 1 million flashes
- Standards Conformance: CIE 15:2004, ISO 7724/1, ASTM E-1164, DIN 5033, Teil 7 and JIS Z 8722 Condition C
- Built in software. Can be also operated as standalone system.
- Measurement Storage Capacity 2000 readings & 250 product setups.
- Optional Easymatch QC Software for Data Acquisition System.
- Data Views: Color Data, Color Difference Data, Tristimulus Color Plot, Spectral Data, Spectral Difference Data, Spectral Plot, Spectral Difference Plot
- USB Flash Drive Features: Backup of Setups and Data, Setup Transfer to Multiple Units, Data Export to Excel
- Illuminants: A, C, D50, D55, D65, D75, F2, F7, F11.
- Mention warranty period and further AMC rates for a total period of two years.

Item No. 2: Muffle Furnace (Quantity required 1)

Technical Specifications

Chamber Volume	4.25 ltr
Range	Up to 1200 ⁰ C
Accuracy	+ / - 3 ⁰ C of set Value
Heat up time	60 min. upto 1200 ⁰ C without load.
Controller	Digital Display Electronic Controller
Sensor	CR / AL Thermocouple
Internal Chamber	Silimenite muffle
External	Mild Steel Powder Coated
Insulation	Ceramic Wool
Heater Element	Kanthal A1
Door brick insulation	HFK Bricks
Optional	
Safety device	Energy Regulator or Blind Controller.
PID Control	Microprocessor based PID Controller.
Timer	ON / OFF Cycle
Solid State Fuse	Electronic Solid State Fuse
Air Circulation	Ventury Ejector at back as per A.S.T.M.
Electronic requirements AC 230 V & 50 Hz cycle	
Mention warranty period and further AMC rates for a total period of two years.	

Item No. 3: Flame Photometer (Quantity 1)

- Microprocessor Flame Photometer (2F) with Sodium (Na) & Potassium (K) Filters, Auto 5 Point Calibration,
- Additional Filters Calcium (Ca) & Lithium (Li),
- Direct Readout in ppm & Meq/L,
- Auto Filter Selection,
- Auto Ignition, 20x4 Line
- Single Aspiration
- PC interface, Printer Attachment Facility.
- With compressor and other accessories for lab use.
- 20 x 4 Alphanumeric backlit LCD display,
- LPG dry oil free flame system,
- Silicon photodiode detector
- Axial flow type automiser,
- Air supply by oil free mini compressor unit with pressure regulator,
- Combustion gas LPG controlled by precision regulator.
- Software for computer interface.
- Mention warranty period and further AMC rates for a total period of two years.

Item No. 4: CO2 Incubator (Quantity 1)

1. The CO2 incubator should have Interior Volume of approximately 6.5 cu. ft. (184 litres)
2. The CO2 incubator must be supplied with TC : CO2 Sensor
3. CO2 Range: 0–20%
4. The CO2 incubator should offer Temperature Control: $\pm 0.1^{\circ}\text{C}$
5. The instrument must have a touchscreen interface on the door
6. Number of shelves - Standard (4), Maximum (7)
7. The CO2 incubator should be supplied with Humidity Pan 3.2 qt. (3.0 litres) standard
8. Humidity Control: RH Ambient to 95% @ 37°C (98.6°F)
9. The Outer Door Gasket should be four-sided, molded, magnetic vinyl.
10. The Inner Door Gasket should be removable, cleanable, feather-edged, silicone
11. Temperature Range: 5°C above ambient to 55°C (Chilling unit required for below ambient)
12. System should be supplied with Cooling Coil and Refrigerated/Heated Bath Circulators to attend temperatures below ambient.
13. Specifications for Bath Circulators:
 - A. Temperature Range: -10 to 100°C ;
 - B. Maximum bath volume (litters): 6; C. Compliance: CE/ROHS/WEEE; D. Drain port at the front for operator convenience
14. Tracking Alarm: $\pm 1^{\circ}\text{C}$
15. Incubator to be supplied with 2-stage gas regulator (ISI Mark) with 2 CO2 gas cylinders along with cylinder opening keys.
16. Suitable voltage stabilizer
17. Mention warranty and further AMC rates for a total period of two years.

Item No. 5: Microvolume Spectrophotometer (Quantity 1)

- Minimum Sample Volume: 0.5ul
- Should be Ideal for performing DNA, RNA, Oligo, Protein Quantification, & purity measurements
- Detection Limit: 1ng/ul
- DNA Maximum Conc: 12000ng/ul
- Fixed path length: 0.5mm
- Path length Accuracy: $\pm 5\mu\text{m}$
- Display: 5.7' colour display with capacitive touch panel
- Light Source: Pulsed Xenon lamp with 3 year warranty
- Wavelength Range: 190nm-1100nm
- Wavelength Accuracy: $\pm 2\text{nm}$
- Wavelength Reproducibility: $\pm 1\text{nm}$
- Spectral Bandwidth 5nm
- Stray Light: $<0.5\%T$ at 220nm and 340nm Using NaNO_2
- Mention warranty period and further AMC rates for a total period of two years.

Item no. 6. Specifications for Incubator (Quantity 1)

Technical Specifications

Programmable LED-based illumination:

- warm white or cool white LED-light panels with added far-red LEDs 735 nm (in all three panels)
- precise intensity control in the range of 1 % to 100 % of total output
- light modulation according to a predefined function (continuous, pulse, sine, triangle)
- timing steps from seconds to hours and days
- user-programmed function (optional) or daylight simulation (optional)

Light intensity:

- top panel: up to 500 $\mu\text{mol}(\text{photon})/\text{m}^2.\text{s}$ (at 30 cm from the light source); optionally up to 1,000 or 1500 $\mu\text{mol}(\text{photon})/\text{m}^2.\text{s}$ (with Light Upgrade, cool white only)
- two lower panels: up to 100 $\mu\text{mol}(\text{photon})/\text{m}^2.\text{s}$ (at 30 cm from the light source); optionally up to 150 $\mu\text{mol}(\text{photon})/\text{m}^2.\text{s}$ (with Light Upgrade, cool white only)

Temperature control:

- programmable controller ramps temperature up or down in the range of +15 to +45 °C (shaking ON, maximum illumination ON)
- optionally +10 to +55 °C (with Temperature Upgrade)

Intuitive programming: allows parameter changes to timing, temperature, photosynthetic light, and shaking speed

Possibility to comfortably edit light protocols from a PC via the **Device Control Center application** (*program can be downloaded from Support/Downloads/Software/Utilities/Device Control Center*)

Agitation: bench-scale orbital shaker with the speed range of 30-500 RPM and loading capacity up to 5 kg (optional)

-
- **Controlled Temperature Range:**
 - +15 °C to +45 °C (shaking ON, maximum illumination ON)
 - +10 °C to +55 °C (shaking ON, maximum illumination ON) - optional
 - **LED Light Illumination:**
 - Upper LED light panel: 25 x 35 cm; white LEDs with added far-red LEDs 735 nm (separately controllable)
 - Lower two LED light panels: 33 x 46 cm; white LEDs with added far-red LEDs 735 nm (shared control)
 - **External Dimensions:**
170 x 60 x 62 cm (H x W x D)
 - **Internal Volume:** 265 L
 - **Weight:** 70 kg
 - **Refrigerant:** R600a
 - **Compressor:** 220 - 240 V; ~ 50 Hz; 200 W ; 1 A
-
- **Power/Power Input:** 600W/900W
 - Mention warranty period and further AMC rates for a total period of two years.

Item No. 7: Muffle Furnace (Quantity 1)

Technical Specifications

- Internal Dimensions (Depth×Width×Height) in inches: 6×6×6 (minimum)
- Furnace body: Stain less steel
- Working temperature: 1200 or above
- Heating element: Silicon carbide (SiC)
- Insulating material: Ceramic wool
- Temperature control: Microprocessor based PID control.
- Temperature settings: Digital, double display
- Temperature accuracy: $\pm 2^{\circ}\text{C}$ or better
- Power requirements: 220V, 50Hz single phase
- Accessories to be supplied with the furnace: steel tongs (2 no.) & high temperature gloves (2 pairs)
- Mention warranty period and further AMC rates for a total period of two years.

Item No. 8: Microvolume spectrophotometer (Quantity 1)

Technical Specifications

- Sample Size: 1-2 microliter
- Optic path Length: Upto1 mm
- Light Source: Xenon flash lamp
- Detector Type: Linear silicon CCD array/Photo diode
- Wavelength Range: 220-700 nm
- Wavelength Accuracy: ± 2 nm
- Absorbance Accuracy: $\pm 3\%$
- Absorbance Range: 0.02-75 (10 mm equivalent absorbance)
- Measurement time: 5-10 seconds
- Incubation From ambient + 4°C to 45°C
- Software compatibility : Window XP, Vista, Win7
- Certification: CE certified
- Software should be included.
- PC and printer compatible
- Mention warranty period and further AMC rates for a total period of two years.

Item No. 9: Bio- Safety Cabinet (Quantity 1)

- Class II, Type A2
- Direction of Flow : Vertical
- Exhaust : 30% Exhaust And 70% Recirculation
- Work Area : Four Feet, Work Table : Made Of Stainless Steel 306
- Front Door : Clear, polycarbonate/Toughened Sliding Door of 5-6 mm thickness
- Main body should be made of stainless steel ((304 grade)- Heavy gauge- 16 G)
- It must utilize DC motor technology to ensure lower levels of energy consumption and heat emission.
- Dual blower for independent control for inflow& down flow velocities.
- Filter: High performance particle air filter (HEPA), filtering efficiency 99.995% at 0.3 micron particlesize.

- Noise Level : 50-60 DBA+-5%
- Fitted with Fluorescent light and UV light
- Universal Service fittings for gas and air should be provided with gas burner
- Should have Switches & Electrical sockets outlets for 15/5 amp
- The microprocessor must display the number of hours of use on the HEPA filters, air flow, alarm etc on LED display
- Supplied with stand with castors and additional UV lamp.
- Designed in compliance with International standards with NSF/ANSI 49.
- Certified from any internationally reputed independent accredited agency such as EN12469, TUV Nord (Germany) for complete safety.
- Installation, validation/ performance demonstration should be carried out at site with all testing facilities like velocity test, Laser based particle test etc.
- Mention warranty period and further AMC rates for a total period of two years.

Item No. 10: Gel Documentation System

Technical Specifications

- The System should be able to image fluorescent DNA, RNA and protein gels, colorimetric gels & blots and colony arrays. Provision for up gradation should be there.
 - Should have high resolution CCD camera: 8 + mega pixel resolution.
 - Data acquisitions: high
 - Must have motorized control for Zoom with numerical feedback and software acquisition preset integrated into an intuitive and easy to use interface along with gel alignment templates, aperture & Iris.
 - Should have gel alignment templates matched to agarose or protein gel trays and ready gels.
 - Should have blue illumination integrated in a light tight darkroom with software controlled illumination to view DNA gels using blue excitable DNA fluorescent stains such as Gel screen, SYBR safe dyes and SYBR Green.
 - Should have UV and white light source : UV Tranillumination area with White Light Converter screen for viewing protein gels with trans blue illumination.
 - Dynamic range should be more than 3 order of magnitude.
 - Must provide software for imaging and analyzing 1-D electrophoretic gels, dot blots, slot blots, and colony counts. Software should be able to do:
 - Quantitate and analyze a variety of data,
 - Rapid molecular weight determinations with choice of multiple regression models.
Band/lane matching analysis
 - Background subtraction correction of gradient gels
 - Annotation tools to add text and lines
 - Molecular weight determination
 - A Branded Work Station- Laptop with dual core Processor, (hp/Dell) 2GB RAM, 250 GB HDD, DVD R/W Drive, with 17" TFT , Windows XP Pro, compatible
 - Mention warranty period and further AMC rates for a total period of two years.
-

Item No. 11: Deep Freezer (-20°C)

Technical Specifications

- The freezer should be CE certified , CFC free
- Freezer :- - 20 °C
- Capacity :- 600 Liters+/- 25 litres
- Air circulation :- Force air circulation by inner fan
- Defrost:- Fully automatic Defrost cycle
- Temperature range:- - 18 °C to -20 °C (factory set on -20°C)
- Temperature stability :- +/- 1°C
- Temperature uniformity:- +/- 2°C
- Microprocessor:- adjustable set-point, door alarm (audible, visual)
- Shelves :- 5 adjustable grids (max 10)
- Cabinet material:- stainless steel inside and outside powder coated with glossy finish
- Insulation :- 60 mm non-CFC, foamed polyurethane
- Should have castor wheels for easy transportation & door lock
- Mention warranty period and further AMC rates for a total period of two years.

Item No. 12: Electronic Balance (Quantity 1)

Technical Specifications

- Compact table top electronic balance with user friendly, touch screen panel and digital display, auto guiding for weighing the sample
 - Provision for internal and external calibration
 - Capacity 10 mg - 200 gm with errorless repeatability
 - readability .1mg
 - Sensitivity drift at room temperature should be 1.5 +/- ppm per K
 - Time lag in result display less than 0.5 sec
 - Mention warranty period and further AMC rates for a total period of two years.
-

Item No. 13: High Speed Cooling Centrifuge (Quantity 1)

Technical Specifications	
Max Speed	15,000 rpm / 25,000 g or more
Temperature range	-10 °C to ambient, CFC free refrigeration
Sample temperature	< 4 °C at maximum speed
Centrifugation volume/Rotor	1.5 ml×24, 50 ml×8 or 85 ml ×6 capacity, fixed angle rotor (rotor included) with adapters for 15 ml tubes. Swinging bucket rotor for 4 x 200 mL OR 4 x 400 mL capacity
Rotor identification	Automatic, should have imbalance detection system
Display	Should display speed, RCF, time and temperature
Programs	Minimum 25 user defined programs
Pulse/short run	Required
Lid	Auto opening at the end of centrifugation
Centrifugation chamber	Stainless steel, corrosion resistant
Maximum timer range	99 h 59 min, continuous

Certifications	CE marked, biosafety certified, requirements of IEC 1010-2-020 safety
Acceleration / Deceleration Rates	9/10
Changing of rotors	Should have provision to install and remove rotor without any external tool with push of a button for quick and easy change of rotors
Stabilizer	Appropriate stabilizer should be included in the quote
Warranty	Three year warranty should be provided

Item No. 14: Microvolume Spectrophotometer (Quantity 1)

Technical Specifications	
UV/Visible spectral range	200- 1000 nm with 1 nm steps
Samples	96- and 384-well plates, cuvette
Display	TFT VGA display
Power supply	100-200 V, 50 Hz
Read out range	Upto 4 Abs
Incubation	From ambient plus 2 to 45°C
Operation	System should either be able to run in stand-alone mode using color display and keypad. Or computer-assisted operation. For computer-based operation, a high-end laptop should be provided with suitable software
Cuvette	UV quartz glass, or UV plastic material should be provided
Microvolume measurement	2-10 µl
Light source	Xenon flash lamp
Spectral band width	<2.5 nm
Memory	100 programs or more
Accuracy	1-2% at 450 nm (0-2 Abs)
Detection range for DNA	1.2-6000 ng
System should be able to read absorbance spectrum in kinetic mode as well. System should be supplied with license free software for easy operation	
Stabilizer	Appropriate stabilizer should be included & supplied along with the machine
Warranty	Three year warranty should be provided

Item No. 15: Minus 80 deep freezer (Quantity 1)

Technical Specifications	
Temperature	-50 to -86°C with 1°C increments
Security	Key lock system; Password protected temperature setting
Capacity	600 L or above
Vial capacity	30000 samples or more
Display	Push button LED, Microprocessor based, temperature status, alarm system
Internal dimensions (W×D×H×) inches	50 H X 25 D X 30 W inches or more

Exterior	Corrosion resistant steel, powder coat painted
Interior	5 internal compartments with latchable doors.
Insulation	Polyurethane foam
Inner & outer doors	Fitted with low temperature resistant silicone seal
Electrical	220V, 50 Hz, low voltage surge protection & buck/boost
Features	CFC free refrigeration, low noise level
Battery backup	Needed. Should display temperatures during power outage
Certification	CE certified
Storage racks	Appropriate number of suitable storage racks should be supplied along with machine
Accessories	A pair of cryogloves and ice suitable ice scrappers should be provided free of cost
Stabilizer	Appropriate stabilizer should be included & supplied along with the machine
Warranty	Three year warranty should be provided

Item No. 16: Minus 20 Deep Freezer (Quantity 1)

Technical Specifications

- Temperature range from -12 to -25 C
- Capacity: 230 Liters or above
- Internal Dimensions (WXDXH): 430 x 430 x 1200 mm or more
- Solid single door with Digital Display of temperature and integrated controller
- The freezer must have a facility for Alarms like High and low temperature alarm, Door ajar alarm, and Remote alarm contacts.
- The freezer must have an Eco friendly CFC/HFC free coolant with an internal fluorescent lighting
- The freezer must have efficient insulation.
- Noise free operation with automatic defrost system
- Standard castor at the back and adjustable feet in front
- The freezer must have CE Certification and must be operable on 220/230 volt single phase AC supply
- Three year warranty should be provided

Item No. 17: Homogeniser (Quantity 1)

Technical Specifications

- Should be applicable to extraction of RNA, DNA and proteins from diverse samples
- Homogenization of up to 24 samples simultaneously
- Processing range 25 µl to 50 ml.
- Should include adapters/heads/sample holders for 1.5 ml, 15 ml and 50 ml samples
- Should be either compatible with regular microfuge and other tubes, if not, sufficient number of suitable tubes should be provided
- CE Compliant
- Should be able to operate at 220 V, 50 Hz
- Should be able to use with different types of available beads like glass, ceramic, metal, garnet and carbide with bead diameter ranging from 0.1 mm to 2.8 mm.
- Different sized beads suitable for the homogenization should be included
- Run time minimum 1 second to 5 min or more
- Adapter for different volumes should be included
- Appropriate stabilizer should be included & supplied along with the machine
- Three year warranty should be provided

Item No. 18: Fluorescence Spectrophotometer (Quantity 1)

Technical Specifications

Source	xenon flash lamp, Delay (td) and gate time (tg) can be varied to measure phosphorescence, 2000-hour service life
Samples	Liquids, solids, or powders
Monochromator	Excitation 200 – 800 nm with zero order selectable. Emission : 200-900nm, Scanning with constant wavelength or constant frequency difference
Wavelength Accuracy	+/- 1.0 nm
Wavelength Reproducibility	+/- 1.0 nm
Spectral band pass	The excitation and emission slits should be 2.5-15 nm and 2.5 –20 nm respectively with 0.5 nm increments
Scanning Speed	10 – 1500 nm per minute
Sensitivity	Minimum signal to noise level using the Raman band of water, excitation 350 nm is 500:1 RMS measuring noise on the Raman peak, and 2000:1 RMS measuring noise on the baseline
Emission filters	290, 350, 390, 430, and 530 nm, a blank (to act as a shutter)
	Measuring fluorescence quantum yield and fluorescence quantum efficiency, Measures concentrations up to 1×10^{-9} mol/L (Fluorescein), 3D Fluorescence spectra
Software operating system	Windows environment. The excitation and the emission wavelength can be displayed in real time. Spectral and time drive data should be displayed in real time. Routine data analyzer
Optional	Ultra Micro Cell Holder Unit

Item no 19: Bomb Calorimeter (Quantity 1)

Technical Specifications

- Microprocessor based isoperibolbomb calorimeter for rapid determination of gross calorific value of food/ feed ingredients/samples
- The equipment should be compact, integrated and bench-top model with LCD display and compatible online UPS(Uninterrupted Power supply) backup support for one hour
- The calorimeter should have adequate memory storage facility (Approx. 1000 tests) and should be easy to operate
- Bomb & bucket : Removable type
- Repeatability / Reproducibility: As Per BIS 1350 (Part –2), 1970, ASTM D-5865/04 & other International Standards
- Oxygen Combustion Vessel (Bomb): Thick walled acid resistant having internal volume 250 to 350 ml made of high strength with proper insulation arrangement and capable of withstanding high pressure
- Measuring range: 1000 to 8,000 calor more per unit sample.
- Temperature Measurement: with inbuilt high precision electronic thermometer

- Temperature Measuring Resolution: 0.0001°C
- Operator time per test: 6-8 minutes or less.
- Range of Sample weight for energy estimation: 0.5 g – 1.5 g
- Measurement Precision-0.1% RSD
- Equipment Resolution-0.0001 Cal/g
- Corrections-Operator selected option for correcting for Acid, Nitrogen, and Fuse wire, Sulphur, Moisture, Ash and Hydrogen
- Gas filling arrangement-Suitable gas filling arrangements with regulator and gauges for line/vessel pressure and all necessary attachments.
- Pellet press/device and other accessories required to run the instrument
- Bomb has approval with PED (pressure equipment Directive)
- Safe life of bomb vessel should be minimum 4000 test continuously
- Additional software if any required being included for PC operation
- Sample Crucible: Metal crucibles with Ni-Cr Alloy. Minimum for 5000 test sample crucible should supply with main instrument. Power requirement: 230 VAC +/- 10 %, 50/60 HZ As per Indian condition
- Inbuilt USB interface/Ethernet port for Balance, Printer and computer
- Analysis kit including fuse wire, standards, ringsetc required for 1000 analysis should be provided with the basic system.
- Up gradation: Calorimeter should have a facility to upgrade with different types of bombs by simply plug in without changing the main calorimeter configuration.
- Manufacturer should have international and or national approval for manufacturing pressure vessels. Pressure vessels must be tested as per ASTM or any international/national standards. Manufacturer should have CE certification
- Guarantee-Warranty-The tenderer shall be fully responsible for the manufacturing warranty in respect of proper design, quality, workmanship of material for which these are indented for a period of 24 months from the date of installation and commissioning.

Item No. 20: Mobile D.O. Meter (Qty. 1 No.) for Powarkheda Centre

Technical Specifications

- Accuracy: DO: $\leq 0.5\%$ (± 1 digit)
- Calibration Curves Display: Slope and assymetry potential displayed
- Dimensions (H x W x D): 38 mm x 73 mm x 186 mm
- Display: Backlit LCD with pictograms
- Display Type: 128 x 64 pixel, simultaneous readings
- DO Measurement Range: 0 to 60 mg/L
- DO Resolution: 0.01 mg/L depending on measurement range
- DO sensor calibration: 1 to 2 point, saturated air, 0% DO
- Mention warranty and further AMC rates for a total period of two years.
- Delivery at Powarkheda , M. P. Please mention freight charges, taxes as applicable.

Item No. 21: Electronic Balance (Quantity 1)

- Capacity-200-250gm,
- Minimum Display-0.001gm
- Repeatability less than 0.01gms
- Linearity- ± 0.002 gms
- Pan size minimum- 100 X 100 mm
- LCD Display
- Provision for switching between various weighing units.
- Facility to view remaining weighing capacity
- Run with AC adapter (90V to 240V)
- Supplied with Protective in-use cover
- One year warranty

To be **delivered at CIFE Centre Powerkheda, Madhya Pradesh**. Taxes/ Delivery charges, if any, to be quoted separately for these locations.

Item no. 22: Water Bath (Quantity 1) for Powarkheda, Madhya Pradesh

Technical Specifications

- Constant temperature water bath
- Temp. range : 5^oC above ambient to 100^oC.
- Temp. control : Digital
- Insulation : Glass wool
- Inner chamber : S.S
- Outer : S.S
- Heater : S.S. immersion heater
- Circulation : Circulatory pump with stirrer
- Capacity : 20-30 lit.
- One year warranty

To be **delivered at CIFE Centre Powerkheda, Madhya Pradesh**. Taxes/ Delivery charges, if any, to be quoted separately for these locations.

Item no. 23: Autoclave (1 No.) for Powerkheda Centre, Madhya Pradesh

- Model: Vertical
- Double walled construction made of Stainless Steel
- Autoclave supported by S.S. legs
- Safety valve : 2 no.
- Pressure gauge
- Stem release valve
- S.S. basket
- Drain valve at bottom
- Low level cut off device
- Capacity ~ 14" dia x ~22" ht.
- One year warranty period.

Item No. 24: Centrifuge for Powarkheda Centre, Madhya Pradesh

Technical Specifications

- Microprocessor controlled
- Minimum speed should be 200 rpm and maximum speed should be 14000 – 15000 rpm or more
- Pre selection time : 0-60 min in 1 min increment and continuous run facility
- Temp start range from at least 4⁰ C onwards
- Imbalance switch off
- Automatic rotor recognition facility
- Motorized lid lock
- Radius correction feature for accurate g value
- Pre cooling programme for rotors with one touch button
- Programme memory for minimum 10 run
- Quick button for short runs
- Digital display for both preset and actual values for speed, RCF, temp and time, RCF run facility
- **ROTOR:** Fix Angle rotor for 24 X 1.5 ml /2 ml
- Mention warranty period and further AMC rates for a total period of two years.
To be **delivered at CIFE Centre Powarkheda, Madhya Pradesh**. Taxes/ Delivery charges, if any, to be quoted separately for these locations.

Item no 25. Refrigerated Centrifuge for Kolkata Centre (1 no.)

Technical Specifications

- Centrifuge should be equipped with both fixed and swing out type of rotor
- Fixed angle rotor: 13,000 – 20,000 rpm
- Swing out : 8,000 to 10,000 rpm
- Temperature range :- -10 to 40°C
- Bench top model
- Microprocessor Controlled with LED Display Screen
- Noise Level - < 100 db
- Automatic lid opening system
- Temp. Display(Air & Chamber)
- Angle rotors should be made up of highly corrosive resistant material.
- System should have accelerated / deaccelerated mode of operation.
- CE/FDA certified
- UPS-2 KVA with 30 minutes back up and should be quoted separately
- Automatic rotor identification
- Imbalance detection
- RPM and RCF conversion
- 5 ml/15 ml/50 ml for fixed and swing out rotor
- 0.2/0.5/1.5 ml for fixed rotor
- Mention warranty period and further AMC rates for a total period of two years.

Item no 26. Colour Measurement System for Kolkata Centre (1 no.)

- Spectral range: 400-700 nm
- Spectral resolution: 1-2 nm
- LCD display
- Portable to use
- Photometric range: 0 to 100 %
- Specifically for colour of fish and fish products
- Light source: Xenon lamp
- Chromatic system: CIE, L* a* b*, XYZ, L a b, ΔE , Hunter l a b difference
- Illuminant: CIE illuminant C or D65
- Multicalibration and back up of data
- Superior battery performance with sparable battery
- Data memory at least for 100 spectral storage
- Appropriate software with provision for statistical calculation
- All the accessories including computer and data input system
- Mention warranty period and further AMC rates for a total period of two years.

Item no 27. Deep Freezer (-20°C)for Kolkata Centre (1 no.)

- Digital microprocessor control
- Temp range: -20°C to -25°C
- High temperature visual alarm
- Capacity: 300 to 350 lit
- Cooling: Frost free type
- Low power consumption
- Vertical posture
- Quick freezing function
- Provision of wheels for easy transport
- Suitable for working at ambient temperature of 40-42°C.
- Digital control display
- Reversible door with Locking facility
- Insulation thickness: minimum 75 mm
- 5-6 drawers with good sealing to prevent frost loss from open door.
- Unit should be CE or FDA certified.
- The supplier should have good numbers of installation bases in Kolkata.
- Suppliers' should have good after sales service support in Kolkata with proven track record.
- Mention warranty period and further AMC rates for a total period of two years.

Item no 28. UV visible Spectrophotometer for Kolkata Centre (1 no.)

Technical Specification:

- Double Beam Spectrophotometer with samples reference cuvettes position
- Deuterium and Tungsten/Xenon flash
- 190 – 1100 nm
- Concentration, Absorbance, % Transmission, Multi wave length, Spectrum, Kinetics
- Automatic wavelength calibration
- Accuracy: ± 1 nm
- Automatic cell recognition
- Communication interface should be available
- Onsite one year warranty
- Repeatability: < 0.002 A
- Spectral bandwidth 1 nm width microcell optimization
Absorbance, % Transmittance, Concentration
- UPS-2 KVA with 30 minutes back up and should be quoted separately
- Sparable suitable cuvette for 1-5 ml
- CE/FDA certified
- Suitable computer for working in software if required
- Mention warranty period and further AMC rates for a total period of two years.

Item no 29. Water Purification System for Kolkata Centre (1 no.)

Specification of Water Purification System

System should contain inbuilt prefiltration containing filter, activated carbon and polyphosphate granules, designed to produce Type II water from tap water
Prefiltration System: A Two-stage purification 5 micron and 1 micron polypropylene graded density wrapped type depth filter with low voltage 20 watts powered DC pump with noise levels of 50 Db prefilter should be attached with tap water.
System should include reverse osmosis (upto 20% recovery) with conductivity sensors before and after the membrane to ensure the quality of purification
System should have automatic warnings and alarms regarding the water quality
Resistivity : 5Mohm.cm at 25° C
TOC : <30 PPb
Product water delivery : 3 L/hr
Bacteria < 10 cfu/ML
The System should be quoted with proper prefilter & Iron Removal Filter

- Mention warranty period and further AMC rates for a total period of two years.

Item no 30. pH Meter for Kolkata Centre (1 no.)

- Range-0.00 to 14.00
- Accuracy: ± 0.01
- Automatic temperature compensation
- Repeatability: ± 0.01
- Display : 3 1/2 Digit LED Display
- 2-point calibration for pH
- Calibration error indication
- Temperature range: 0 to 100 °C
- mV reading
- Supply Tri-combination pH/ATC electrode
- Sparable one electrode preferably gel filled
- Should supply Electrode + Standard buffer solution (pH 4.0, 7.0, 10.01 x 50ml for each bottle) + standard electrode holder +Ac /DC Adaptor.
- Should be provided with an electrode holder/arm with smooth movement
- Mention warranty period and further AMC rates for a total period of two years.

Item no 31. Fully Automatic Orbital Shaker for Kakinada Centre (1 no.)

Technical Specifications

- Fully automatic orbital shaker with adjustable speed timer
- Different plate options with maximum capacity of 4X500 ml
- Digital display
- Horizontal mixer
- Mention warranty period and further AMC rates for a total period of two years.

Item no 32. Deep Freezer for Kakinada Centre (1 no.)

Technical Specifications

- The freezer should be CE certified , CFC free
- Freezer :- - 20 °C
- Capacity :- 600 Liters+/- 25 litres
- Air circulation :- Force air circulation by inner fan
- Defrost:- Fully automatic Defrost cycle
- Temperature range:- - 18 °C to -20 °C (factory set on -20°C)
- Temperature stability :- +/- 1°C
- Temperature uniformity:- +/- 2°C
- Microprocessor:- adjustable set-point, door alarm (audible, visual)
- Shelves :- 5 adjustable grids (max 10)
- Cabinet material:- stainless steel inside and outside powder coated with glossy finish
- Insulation :- 60 mm non-CFC, foamed polyurethane
- Should have castor wheels for easy transportation & door lock
- Mention warranty period and further AMC rates for a total period of two years.

Item no 33. Microplate Reader for Kakinada Centre (1 no.)

Technical Specifications

- Multimode ELISA plate reader for nucleic acid, hormone and enzyme analysis
- Measurement technology of absorbance, fluorescence intensity, luminescence and alpha screen, absorbance range 200-1000 nm, Fluorescence intensity: excitation: 200-1000 nm, emission 270-840 nm.
- Shaking: orbital,
- incubator temperature 0-45°C,
- Measurement speed reads 96 well plate in 15 sec.
- Mention warranty period and further AMC rates for a total period of two years.

Item no 34. Paddle Wheel Aerators for Rohtak Centre (1 no.)

Technical Specifications

- 2HP three phase 220V, 50HZ motor, 14:1 Reducer, with 2 nos. HDPE floats, 2 nos. PE impellers, 2 nos. PE shafts, 1 No. PE cover, 2 nos. movable joints single side, SS frame 304 grade, 4 nos. ½" sitting bars (GI), Screw package grade 304. .
- Mention warranty period and further AMC rates for a total period of two years.
To be **delivered at CIFE Centre Rohtak, Haryana**. Taxes/ Delivery charges, if any, to be quoted separately for these locations.

Item No. 35. Field Oxygen & pH Meter (TSP Project)

Technical Specifications

- Galvanic probe design for immediate DO measurements in mg/l (ppm) or % saturation
- Powerful pH Mode:- 2.00 to +16.00pH range, ± 0.01 pH, 5-point auto calibration
- ATC from 0° to 50°C for DO and pH
- Display probe diagnostics, slope, offset and mV values
- Data memory for 50 readings with temperature and date/time stamp
- IP 67 waterproof construction, floatable, washable to maintain reliable operation
- Hold function, ready indicator, and auto shutoff
- Mention warranty period and further AMC rates for a total period of two years.