



**Directorate of Agriculture & Food Production, Odisha,  
Bhubaneswar**

**TENDER FOR DIFFERENT EQUIPMENTS/INSTRUMENTS FOR  
ORGANIC FERTILISER TESTING LABORATORY, ODISHA.**

**2019-20**

- ❖ **Tender Call Notice** : No. Dt.
- ❖ **Estimated Cost** : Rs. 60.00 lakh (Approx.)
- ❖ **Cost of Tender Paper** : Rs.10,000.00
- ❖ **Date of Sale / Downloading** : Dtd. 09.08.2019 to 29.08.2019
- ❖ **Date of Receipt** : Dtd.30.08.2019 up to 13.00 Hrs.
- ❖ **Date of Pre-bid Meeting** : Dtd. 16.08.2019 at 11.00 Hrs
- ❖ **Date of Opening** : Dtd. 30.08.2019 at 15.00 Hrs.
- ❖ **DD** : No. \_\_\_\_\_ & Date \_\_\_\_\_
- ❖ **Issued to** : M/s.

## DISCLAIMER

The information contained in this document provided by or on behalf of the Director of Agriculture & Food Production, Odisha herein after known as DA&FP, are based on the terms and conditions set out in this tender Document. The purpose of this document is to supply with information that may be useful to prospective bidders in making their offers pursuant to the "**Tender Document**". The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. DA&FP, its employees make no representation or warranty and shall have no liability to any company/person, including any Bidder under any law, statute, rules or regulations or tort, for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this tender document or otherwise. DA&FP may in its absolute discretion reserves the right to reject, cancel, terminate, change or modify all or any part of the tender at any time without assigning any reason whatsoever or providing any notice and without accepting any liability for the same. The companies interested to compete shall bear all its costs associated with or relating to the tender. Submission of offer document by the tenderer shall be deemed to have been done after careful study and examination of the document. The proposal should be responsive and complete in all respects. Consideration of substantially responsive proposals shall be the prerogative of the DA&FP if found otherwise suitable for the Department. The terms & phrases in the following categories are used interchangeably and their derivatives are synonymous within each category:

- (a) Tenderer, Bidder, Company, Agency, Supplier, Firms. Dealer, person etc
- (b) Tendering authority, Directorate, Department, Organization,
- (c) Tender, Application, Bid, Proposal, EoI, RFP, IFB,.

## LETTER OF INVITATION

Director of Agriculture & Food Production, Odisha, Bhubaneswar, invites sealed tenders in prescribed format from the potential / bonafide prospective Manufacturers / Authorised distributors / Dealers / Supplying Agencies / Firms for supply of “**different equipments for Organic Fertiliser Testing Laboratory of the state**”. The last date of receipt of tender is 30<sup>th</sup> August-2019 up to 1 P.M. and will be opened on the same day at 3 P.M in the presence of Tenderers or their authorized representatives. The tender paper including details of terms and conditions can be downloaded from the official website [www.odisha.gov.in/all tender](http://www.odisha.gov.in/all tender) or <http://agrisnetodisha.ori.nic.in>. Cost of the form i.e. Rs. 10,000/- (Rupees Ten Thousand) only is to be paid in shape of Demand Draft drawn in favour of Director of Agriculture & Food Production, Odisha payable at Bhubaneswar at the time of submission. The Directorate shall not be responsible for any delay / difficulties / inaccessibility of the down loading facilities for any reason what so ever. In case of any discrepancy between the Tender Documents down loaded from internet and the Master Copy available in the office, the Master Copy will prevail. No claim on this account will be entertained. The Bidders shall submit their Bid document along with the money receipt and /or the demand draft as the case may be in support of the purchase of the bid document without which the bid document shall not be considered.

The tender paper in sealed cover is to be dropped in the tender box placed within the office of the State Bio Chemist, Odisha, Baramunda Bhubaneswar Sale of tender papers will be available from 9<sup>th</sup> August-2019 and continue up to 29<sup>th</sup> August-2019.

(Dr. M. Muthu Kumar)  
Director of Agriculture &  
Food Production, Odisha

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**INSTRUCTIONS TO BIDDERS**

1. The List of Equipments/Instruments and quantity proposed to be procured is given below:

SL.no	Instruments	Nos required	F-O-R Destination
1	Atomic Absorption Spectrophotometer(HCL- Cd,copper,Chromium,ni,zn,lead).	1	Organic Fertiliser Testing Laboratory ,Baramunda, Bhubaneswar.
2	All Glass Double Distillation unit with Borosilicate Boiler, condenser & Quartz Heater, Horizontal Type With Daps.	1	
3	Reciprocating shaker	1	
4	P <sup>H</sup> meter(digital)	1	
5	Electronic Balance (2 Digit)	1	
6	Analytical Balance (4 Digit)		
7	Hot air oven with digital display	1	
8	Conductivity meter (Microcontroller Based)	1	
9	Muffle furnace (Digital)	1	
10	Digestion and Distillation set (Combined)	1	
11	Hot plate (Rectangular)	1	
12	Visible Spectrophotometer	1	
13	Flame photometer(Digital)	1	
14	Water Bath (12 holes)	1	
15	Fume Hood Chamber	1	
16	Soxhlet Extraction Mantle	1	

The last date of receipt of tenders is 30<sup>th</sup> August 2019 up to 1.00 PM and will be opened on the same day at 3.00.PM by the tender committee in the presence of the bidders or one of their authorized representatives in the Directorate of Agriculture & Food Production, Odisha, Bhubaneswar. The authorised representative should produce proper authorisation letter from their bidder to take part in the bid opening meeting. If last date is declared holiday by Govt. of Odisha, the last date and time for submission and opening of tender shall respectively be time as aforesaid on the next working day.

***The tender received beyond the due date & time will be liable for rejection.***

## **2. Tender Document**

This Tender document comprises of **BIDS IN TWO PARTS** as below:

### **Part A:**

Techno-Commercial & Financial Capability Statement showing experience and other infrastructure etc available with the agency for such activities. To be super scribed as **"Bid for Techno-Commercial Statement"**

### **Part B:**

Price Bid Showing component wise break ups as the Basic price & Taxes (GST) separately to be super scribed as **"Bid for Price Statement"**

Part A and Part B must be placed in separate cover to be super scribed as **"Tender Document for Organic Fertiliser Testing Laboratory"**

## **3. Cost of Tender Paper:**

In response to the tender call notice the tender paper including terms and conditions can be available by downloading from the official website [www.odisha.gov.in / all tender](http://www.odisha.gov.in/all_tender) or <http://agrisnetodisha.ori.nic.in>. Cost of the form i.e. Rs. 10,000/- (Rupees Ten Thousand) only is to be paid in shape of Demand Draft drawn in favour of Director of Agriculture & Food Production, Odisha payable at Bhubaneswar at the time of submission.

## **4. EMD & PERFORMANCE SECURITY**

i. The Bid document in Part A shall be accompanied by an interest free refundable Bid Security (EMD) of **Rs. Rs 1,20,000/- (Rupees one lakh twenty thousand )** only in shape of a Bank Guarantee in favour of **the Director of Agriculture & Food Production, Odisha, Bhubaneswar valid for 120 days as mentioned below:**

ii. **Tender will not be accepted without EMD.** No interest will be claimed on EMD. No request for transfer of any previous deposit and adjustment of Earnest money from any claim payable will be entertained. Tenders without E.M.D. will not be considered under any circumstances.

iii. **Once accepted by the Director, the successful bidder is required to deposit 10 % of the tendered value towards Performance Security within 15 (fifteen) working days from the date of intimation of the acceptance of offer in shape of an irrevocable and unconditional Bank Guarantee, from a nationalized or scheduled bank having its branch office at Bhubaneswar valid up to the end of warranty / Extended warranty period if any. Refund of security deposit will be made only after expiry of warranty / Extended warranty period, if any.**

iv. The EMD so deposited will not be adjusted towards "Performance Security" to be deposited by the successful bidder as above.

v. The EMD so deposited by the unsuccessful bidders shall be refunded after completion of the tender process. The EMD of successful bidders will be refunded after deposit of Performance Security only.

vi. **Local start ups as defined Finance Deptt. Office memorandum No-FIN-CODES-RULE-0005-2015-13681/F DT 19.04.2018 states that under Para-7 (vi) and certified by the nodal agency in para -7 (v) of Odisha Start up policy 2016, Small Scale Industries registered with the Director Export Promotion and Marketing, Odisha, and / or National Small Industries Corporation will be eligible for exemption from payment of E.M.D. in respect of items covered in their certificate of registration, provided that photocopy of the certificate of registration duly signed is submitted along with the tender in Part-A.**

vii. **But, other condition remaining the same, such successful bidders are required to deposit 25 % of the performance security as fixed.**

viii. In the event the supplier does not furnish the amount of security deposit in the manner as stipulated as per the Clause-iii above of the tender conditions within a period of 15 (fifteen) days from the date of issue of supply order and fails to execute the agreement the EMD in full shall be absolutely forfeited.

ix. The E.M.D. furnished by the tenderer will be liable to be forfeited, if the tenderer withdraws his tender at any stage after the submission of the tender or fails/refuses to enter into written agreement.

x. The E.M.D. shall also be forfeited in case of breach of the contract by the tenderer(s) and / or for non fulfilment of contractual obligation. If the performance of approved firm is found to be not satisfactory during the validity period of the tender, the earnest/security money deposited by the approved firm will not be released and the security money shall be forfeited by the competent authority & the tender of the firm will also not be entertained in future.

## **5. SUBMISSION & VALIDITY OF TENDER**

a. The bidders shall prepare two separate sealed covers as per instructions at Sl.2 above & put the two sealed bids in a third sealed cover. Bid documents as above i.e "Part-A: Bid for **Techno-Commercial Statement**" in one sealed cover along with the **Bid Security, and money receipt / BD in evidence of the payment of Bid document cost** and the " Part-B: Bid for **Price Statement**" in the other sealed cover must be dropped in the tender box no later than **1300 hrs (IST) on 30.08.2019** and at the address given below:

### **ADDRESS OF THE TENDERING AUTHORITY**

STATE BIO CHEMIST (ODISHA),  
BARAMUNDA,  
BHUBANESWAR-751001

b. The same shall be submitted in the above given address. Sri Umesh Ch. Das, ADA (Extension) has been declared as the authorized contact officer on behalf of the DA&FP.

c. The Tender document shall normally remain valid up to 90 days unless extended by the competent authority.

d. The price/rate quoted by the tenderer shall normally remain valid for a period of 12 months from the date of acceptance on finalisation of tender. Any further requirement of the tendered items within the above period may be procured in the same approved price, if acceptable. The validity may be extended for another two years but, subject to maximum of three years under approval of the competent authority.

e. The tenderer who is a Manufacturer of the articles offered by him must furnish requisite documentary evidence to the satisfaction of the Tender Committee that the participant company is actually manufacturing those articles and shall be required to submit proof thereof to the satisfaction of the Committee. In case of dealer, besides furnishing proper "Authorisation Certificate" from the manufacturer, the dealer should also furnish the requisite documentary evidence that the Principal Company is actually a manufacturer of the instruments and is conducting business through the said dealer.

**f. The manufacturer, if selected, should have to supply the materials through it's Registered Branch Office / Authorised Dealer / Sales Depot etc if present inside Odisha. for the purpose of after sale service.**

g. The Tenderer shall carefully go through the tender documents and fully confirm himself as per the terms and conditions contained herein before submission of the tender. If tenderer finds discrepancies in or omission or in case of doubt as to their meaning, should at once bring to the notice of the Director and obtain clarification in writing prior to submission of the tender. Verbal clarification or information, if any, will not be entertained.

h. The bidders have to participate in the pre-bid meeting to clarify any query on tender as per scheduled date and time.

## **6. EVALUATION:**

The selection and evaluation of the Preferred Bidder for the purpose would be through a "Two-stage Bid Evaluation process". First the Bidders would be required to meet the prescribed threshold of techno-commercial capability criteria to qualify as per their PART-A Bid documents. Therefore the Bid document in Part-A shall be first opened for evaluation. Financial Proposal i.e. Price Bids in Part B only of those Bidders, who possess & qualify the minimum threshold technical and commercial capability, would be opened and finally evaluated for selection of the preferred bidder to be considered for assignment subject to approval of the competent authority. Therefore, the Bids evaluation shall be on the basis of their substantial response to the terms & condition of the Bidding Document. If a bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the authority and may not subsequently be made responsive by correction of the material deviation, reservation, or omission. A substantially responsive bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. The Directorate Level Tender Committee shall examine the technical aspects of the bid submitted in accordance with the notice, Technical Proposal, in particular, to confirm that all requirements as per the notified specification of the equipments etc have been met without any material deviation, reservation or omission.

Therefore, the evaluation of Part-A bid will be on Pass/ Fail basis and the assessment will be based on substantial responsiveness & the eligibility criteria specified in this document etc. All Bids must be submitted, duly signed by the Bidder on each page (or a member duly authorized to sign the Bid).

## **7. QUALIFICATION & ELIGIBILITY CRITERIA:**

Bonafide Manufacturers / Authorized Dealers /Distributors/ Suppliers having valid registration under the GST with proven track record for providing after sale service ( copy of Satisfactory Post Sales Service rendered during last 3 years preferably from the local institutes to be enclosed in PART-A) are only eligible to participate in the tender. The prospective Bidders should also fulfil the following criteria of eligibility.

a. **EXPERIENCE:** The tenderer should have adequate experience in supply of agricultural & allied sector equipment / instruments specifically AAS and Other Laboratory Equipments to State Govt/Central Govt or State/Central Govt undertakings, PSUs /Agencies or Corporate sectors of high repute for a **minimum period of three years out of preceding seven years**. The Bidder participants are required to enclose the documentary proof of such experience on the satisfactory supply in this regard. The evidence as document may be in the form of certificates issued by the said vendee organisations or any such other documentary evidence of govt supply to the satisfaction of the Tender Committee.



b. **FINANCIAL CAPABILITY:** The prospective tenderer should have minimum Rs 36.00 lakh (at least 60% of the estimated cost) as Average Annual Financial turnover during the last 3 years, ending 31st March of the financial year ending on 2017-18.

Financial standing through latest I.T.C.C., Annual report (balance sheet and Profit & Loss Account) of last 3 years and the GST returns of the firms since establishment of GST law certified by an qualified Chartered Accountant are required to be enclosed with the technical bid as proof of financial capability.

#### **8. DECLARATION:**

a. The participant in the tender must not have been blacklisted by any central/state government organizations /public sector undertakings /Enterprises or bodies or any other organizations with substantial funding of such organization. In case it is detected later on that the participant firm is a blacklisted one, the tender document submitted by such bidder would be rejected forth with forfeited earnest money or security deposit in addition to such legal action as may be deemed fit and proper. **The tenderer should submit the self declaration in this regard.**

b. The period of firmness of the approved rates is 12 months from the date of acceptance on finalisation of tender. However, if any time during the period of contract, the price of any tendered item is reduced or brought down by any law or act of the central or State Government, the tenderer shall be morally bound to inform the Director Agriculture & Food Production, Odisha immediately about such reduction in the contract price. The Director Agriculture & Food Production, Odisha is empowered to unilaterally effect such reduction as is necessary in rate, in case the tenderer fails to notify or fails to agree for such reduction of rate.

#### **9. OFFER PRICE:**

**The Offer Price should be in INR only. The rate quoted must be for delivery at F - O – R destination.**

The above mentioned Equipments for OFTL are to be procured with **minimum 5 years comprehensive onsite warranty including PC & spares.** The offer price must be indicate basic price, **custom duty(if applicable) and GST separately & total price inclusive of Custom Duty & GST. No custom duty exemption certificate will be issued by this department for any imported item.**

The price quoted should be mentioned both in figures and words. The rate shall be inclusive of all charges for container, packing, handling and forwarding etc. Incidental charges, if any, will be borne by the supplying agency.

The basic price quoted should be inclusive of normal warranty. The charges for Comprehensive Warranty for rest of the years up to five years should be indicated separately.

The rate should be offered for the unit as specified in the tender scheduled (Financial bid). The price should be indicated separately as basic price and GST or other taxes, if any.

Tenderer is to provide installation, commissioning, demonstration, training and technical support, and pre inspection before payment on free of cost.

Firms registered under National Small Industries Corporation Limited are providing above equipments as part of the items / Services for which they are registered with reference to the Finance department Office Memorandum 4939 dt. 13.02.12 on procurement of goods, supplementary guideline vide no 13290 dt. 02.04.13, and the clarification issued vide no 21926 dt. 12.08.15; the local MSEs registered with respective DICs, Khadi, Village, Cottage and Handicraft Industries, OSIC & NSIC while participating in tenders of Govt. Departments and Agencies under its control shall have the following privileges:

Local Micro and Small enterprises registered under DIC/ Directorate of EPM competing in the open tender shall be entitled to price preference of 10% Vis-à-vis local medium and large industries as well as outside Industries.

Local Micro and Small Enterprises having ISO or ISI certificate for their product shall get an additional price preference of 3% as per the provision of IPR -2007.

**10. Power of Exemption** Observation of above instruction on the part of the tender is strictly obligatory. However, the Director may, in any exceptional cases, exempt a particular tenderer from observing one or more of the instructions/ stipulations on the recommendations of the Tender Committee.

**11. Time Schedule of Tender:** The sale of tender document and the calander of tender process is mentioned below:

<b>Sale of tender document:</b>	From 09.08.2019 to 29.08.2019 at 11 AM to 4 PM
<b>Pre bid Meeting:</b>	A pre bid meeting will be conducted to clarify the doubts on 16.08.2019 at 11.00 AM in the Board Room of Krishi Bhawan
<b>Receipt of completed tender document :</b>	The complete tender document is to be dropped in tender box placed in the Office of the SBC, (O) ,Baramunda till 30.08.2019 up to 1 PM.
<b>Opening and scrutiny of Tender document (Technical):</b>	Documentary Bid will be opened and scrutinised on 30.08.2019 at 3 PM
<b>Opening of Financial bid and Purchase Committee Meeting</b>	06.09.2019 (Tentative)

**12.** The tenderer should mention clearly about the detail address of the manufacturers of the machineries in Bio-data form (**Annexure-I**) to be supplied for the project as per requirement to satisfy the requirement of exact location of the manufacturer for further correspondence by the Director, whenever required. Detail name and address, telephone number, fax, E-mail of the Manufacturer/ firm/ company/ Director/ Managing Partner/ Proprietor of the firm.

13. All instruments/equipments must be of branded company. Manufactures of the instruments quoted in the tender must have Authorized Service Centres in Odisha State. Proof of having such centres must be enclosed. The local dealers / Service Engineers must be intimated to provide after sale services. Literature with warranty card for five years for instruments/equipments should be handed over to the State Bio Chemist (O), Bhubaneswar.

Inspection of the instruments/equipments will be made by departmental officers (two officers) before 30 days of delivery at manufacture's site. All expenses for such inspection will be borne by the supplier if it is to be done outside State.

14. Manufactures of the instruments should provide quick post sale service at the FOR destination as and when required.

15. The tenderer must indicate the make, model and detail specification of articles, failing which the tender will not be taken into consideration. The Original literature of the manufacturer of instruments/equipments must be submitted, along with the technical Bid. The Technical bid is to be submitted as per advertised specification i.e. **Annexure-II**.

a) In case of default on short delivery in any consignment of the articles as to which shortage certificate in writing of the Director shall be final and conclusive against the contractor, the contractor shall deliver article of similar quality within 15 (fifteen) days after the date of issue such certificate.

b) If the whole or a portion of any consignment of articles shall be rejected as inferior or not in accordance with specification a certificate of rejection shall be issued in writing by the Director or any other officer on his behalf, the contractor shall within 3 (three) days after the date of receipt of such certificate shall replace the rejected articles in accordance to the specification and satisfaction of the Director.

c) Any supply after expiry of delivery period is to be authenticated by Director. Tenderer who does not stick to one's delivery schedule will be penalized @ Rs.100/- per day after the expiry date of delivery. However, in this case, the Director has full power to levy penalty or not.

16. Complete tender document signed by the bidder in each page with DD towards the cost of tender document and EMD to be submitted in "Techno Commercial Bid" i.e. Part- A.

17. Self attested Photo copy of GST Registration Certificate and up-to-date GST Deposit / latest acknowledgement slip

18. Self attested Photo copy of the PAN Card with valid deed of partnership (if any).

19. **Under taking for five years warranty (including Original Manufactures Warranty & extended warranty for subsequent years)**

**20.** All information in the tender shall be in English. Information in any other language shall be accompanied by translation in English. Failure to comply with this shall lead to rejection of the tender. The tender form shall be filled in clearly and typed in Capital Block letters. No tender filled in otherwise shall be considered. While filling up the tender form the tenderer shall not erase or overwrite. Any correction in the tender form shall be made clearly and fully signed by the tenderer; otherwise the tender shall be liable for rejection.

**21.** Tenderer / Manufacturer should provide necessary training to the analyst at the installation site for all the instruments supplied. The manufacturer/supplier should arrange special training programme for two analysts in operation of AAS, fitted in Labs, its simple maintenance, trouble shooting as well as thoroughness in application of software at the installation site at their own cost.

## **22. Payment:**

Payment will be made after handing over the entire instruments/equipments in good running condition, demonstration to the authorized personnel and free training (2 days) to two Analysts in operation of AAS fitted in OFTL, its simple maintenance, trouble shooting as well as thoroughness in application of software at the laboratory premises and performance certificate given by the technical experts of the Directorate.

For AAS for OFTL, payment will made after demonstration to the authorized personnel, free training (2 days) to Analysts at the laboratory premises, its simple maintenance, trouble shooting as well as thoroughness in application of software and performance certificate given by the technical experts of the Directorate.

In case of delay in installation due to non-readiness of site, the Director may consider for release of 80% of the cost after receipt of instrument and after getting a report to that effect from the recipient.

**Payment towards extended warranty (after expiry of normal warranty) for instruments/equipments of OFTL will be paid annually in subsequent years.**

**23.** The Director reserves the right to reject any or all tenders without assigning any reasons thereof.

## **24. Legal jurisdiction:**

For the arbitration for fulfilling the duties set forth in the arbitration clause shall be the Principal Secretary to Government, Department of Agriculture and Farmers Empowerment, Odisha and his decision shall be final and binding. The provisions of Indian Arbitration Act 1940 or any statutory amendment, modifications or re-enactment thereof and rules made there under and for the time being in force shall apply to the arbitration proceedings. In case of any dispute, it shall be subjected to the jurisdiction of courts at Odisha only.

Signature of Tenderer

**Model Bank Guarantee Format for furnishing EMD**

Whereas .....(hereinafter called the "tenderer")  
has submitted their offer dated.....for the supply of .....(hereinafter called the  
"tender") against the purchaser's tender enquiry No.....

KNOW ALL MEN by these presents that We.....of  
.....having our registered office at .....are bound unto  
.....(hereinafter called the "Purchaser) in the sum of .....for which  
payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors  
and assigns by these presents.

Sealed with the  
Common Seal of the said Bank this.....day of .....20.....

**THE CONDITIOINS OF THIS OBLIGATION ARE;**

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

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions  
This guarantee will remain in force up to and including 45 days after the period of tender validity and any demand in respect thereof should reach ..... the Bank not later than the above date.

Our.....branch at.....\*(Name and Address of the .....\* branch) is liable to pay the guaranteed amount depending on the filling of claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our.....\* branch a written claim or demand and received by us at our .....\* branch on or before Dt.....otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

.....  
(Signature of the authorized officer of the Bank)

.....  
.....

Name and designation of the Officer

.....Seal, name

& address of the Bank and address of the Branch

\* Preferable at the headquarters of the authority competent to sanction the expenditure for purchase of goods or at the concerned district headquarters or the State headquarters.

**Model Bank Guarantee Format for Performance Security**

To

The Director of Agriculture and  
Food Production, Odisha, Bhubaneswar.

WHEREAS .....(name and address of the  
supplier) (hereinafter called "the supplier") has undertaken, in pursuance of contract  
no.....dated..... to supply.....(description of goods and  
services) hereinafter called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the  
supplier shall furnish you with a bank guarantee by a scheduled commercial bank  
recognized by you for the sum specified therein as security for compliance with its  
obligations in accordance with the contract.

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

NOW THEREFORE we hereby affirm that we are guarantors and responsible to  
you, on behalf of the supplier, up to a total of.....

(amount of the guarantee in words and figures), and we undertake to pay you, upon  
your first written demand declaring the supplier to be in default under the contract and  
without cavil or argument, any sum or sums within the limits of (amount of guarantee)  
as aforesaid, without your needing to prove or to show grounds or reasons for your  
demand or the sum specified therein.

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

We further agree that no change or addition to or other modification of the  
terms of the contract to be performed there under or of any of the contract documents  
which may be made between you and the supplier shall in any way release us from any  
liability under this guarantee and we hereby waive notice of any such change, addition  
or modification.

This guarantee shall be valid until the .....day of.....20.....

Our.....branch at.....\*( Name & Address of the  
.....\*branch) is liable to pay the guaranteed amount depending on the filling of  
claim and any part thereof under this Bank Guarantee only and only if you serve upon us  
at our .....\* branch a written claim or demand and received by us at our  
.....\* branch on or before Dt.....otherwise bank shall be discharged of all  
liabilities under this guarantee thereafter.

.....  
(Signature of the authorized officer of the Bank)

.....  
Name and designation of the Officer

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

\* Preferable at the headquarters of the authority competent to sanction the expenditure for  
purchase of goods or at the concerned district headquarters or the State headquarters.

**List of Documents to be submitted (flagged separately and attached serially) :**

**The Tenderer shall submit the following documents along with Part-A.**

- i) Complete tender documents i.e invitation to tender, instruction to tenderer, Bio data, etc. filled and signed by the bidder on each page
  - ii) Demand Draft in support of purchase of tender paper.
  - iii) Satisfactory evidence to show that the tender is Manufacturers or Authorized Dealers / Distributors etc. In case of dealer, besides furnishing proper "Authorisation Certificate" from the manufacturer, the dealer should also furnish the requisite documentary evidence that the Principal Company is actually a manufacturer of the instruments and is conducting business through the said dealer.
  - iv) Self attested Photo copy of certificate of Registration from the Director of Export Promotion and Marketing / Small scale Industries registration certificate (if any) .
  - v). Photo copy of GST Registration Certificate and up-to-date GST Deposit / acknowledgement slip
  - vi) Self attested Photo copy of the PAN Card,
  - vii) Self attested Photo copy of the valid deed of partnership (if any).
  - viii) Earnest Money Deposit (EMD)
  - ix) Technical **details of the each items with make and model** along with Leaflets/Booklets/Photo/Charts of the articles of the original Manufacturing Company.
- N.B: The technical specifications as specified in the tender document must be highlighted in the said document.**
- x) Post sales service performance certificate of the instrument specifically the model quoted from at least three users (preferably from local institutes) within last three years or so if any.
  - xi) Evidence on satisfactory supply of such equipments in the form of TDS or certificates issued by the said vendee organisations or any such other documentary evidence of govt supply within a **minimum period of three years out of preceding seven years.**
  - xii) **Self Declaration with regard to non blacklisting by any** central/state government organizations /public sector undertakings /Enterprises or bodies or any other organizations.
  - xiii) Evidence on **Financial capability**
  - xiv) List of Items with make model & specification tendered for.
  - xv) Under taking for five years warranty
  - xvi) Proof of Authorized Service Centre in Odisha. (for each equipment / instrument.)

**DIRECTORATE OF AGRICULTURE & FOOD PRODUCTION, ODISHA,**  
**BHUBANESWAR**

**Part -B. Financial Bid for Different Equipments**

**(i) Unit Price with normal warranty**

I/We hereby tender for the supply of the under mentioned articles in bellow mentioned price (s) **with normal warranty.**

Sl No.	Item	Make	Model	Rate per unit.	GST	Other charges / taxes	Total Price in Rs.	
							In Figs.	In. Words
1	2	3	4	5	6	7	8	9
1	All Glass Double Distillation unit with Borosilicate Boiler, condenser & Quartz Heater, Horizontal Type With Daps.							
2.	Reciprocating shaker							
3	P <sup>H</sup> meter(digital)							
4	Electronic Balance (2 Digit)							
5	Analytical Balance (4 Digit)							
6	Hot air oven with digital display							
7	Conductivity meter (Microcontroller Based)							
8	Muffle furnace (Digital)							
9	Hotplate (Rectangular)							
10	Visible Spectrophotometer							
11	Flame photometer(Digital)							



12	Water Bath (12 holes)							
13	Fume Hood Chamber							
14	Soxhlet Extraction Mantle							
	<b>Total</b>							

**Signature of the Tenderer**





Annexure I

**PROFORMA FOR SUBMISSION OF BIO-DATA**

Name of the Manufacturer/ Firm /Dealer/ Agency	
Whether a Pvt. Limited firm/ Govt. undertaking	
Registered Office, address with Telephone and e mail ID	
Address within Odisha with contact person his e mail ID and Mobile No.	
Whether the firm is a registered under GST Law.	
Whether the firm is registered under the companies Act, 1956. As a Partnership firm if so, Registration & date should be given	
Name of the authorized person who can hold discussion on your behalf at the time of necessity. Mention his mobile No. and e mail ID	
Whether the firm is registered under NSIC/ OSIC / DIC etc.	
Income Tax PAN/ TAN number	
Expected time of supply of the products to be supplied during requirement	

CERTIFICATE

Certified that the information furnished above are true and correct to the best of our/my knowledge and belief. In case, any or all the information given above is found to be incorrect at anytime, undertake the liability to be proceeded within any manner. Any change or change in regard to the furnished information will be intimated as and when such changes occur.

Place \_\_\_\_\_

Date \_\_\_\_\_

Signature of the Bidder

Signature of Witness and Address

**SPECIFICATION OF DIFFERENT INSTRUMENTS/ EQUIPMENTS FOR ORGANIC FERTILISER TESTING LABORATORY**

**EQUIPMENTS FOR ORGANIC FERTILISER TESTING LABORATORY**

**1. ATOMIC ABSORPTION SPECTROPHOTOMETER WITH ACCESSORIES FOR OFTL.**

**Atomic Absorption Spectrophotometer with True Double Beam optics.**

**OPERATING MODES:**

1. PC based operation
2. Flame Atomizers
3. Back Ground Correction with D2 lamp (continuous)
4. H.C. lamp energy & Deuterium lamp energy
5. Concentration & Standard addition

**Wavelength Range:** 190 nm to 900 nm with automatic wavelength selection & optimization and peak positioning through computer, wavelength scan with Zoom Function.

**Photometric System:** High speed dual frequency simultaneous photometric system.

**Wave length Accuracy:** +/- 0.5 nm

**Band width:** Variable bandwidth from 0.1nm to 2.0 nm. Automatic selection

**Photometric Range:** 0.0001to 2.00 Abs.

**Photometric accuracy:** +/- 0.0001 Abs

**LIGHT SOURCE:**

**Hollow Cathode Lamps:**

1. No of lamps in turret: 6 or more
2. No of lamps to be lit more than one with independent power supply
3. Lamp positioning to be done automatically.
4. Automatic Alignment and lamp selection with automatic line search & optimization.
5. Auto Beam Search & Alignment
6. Built-in 2-channel power supply for normal HC lamps & High intensity Hollow Cathode Lamps.
7. Lamp frequency – 512 Hz.

### **BACKGROUND CORRECTION:**

Rapid Self- Reversal, Deuterium Lamp with 1ms rapid response for accurate correction. Deuterium lamp: Hot cathode type, frequency 1000Hz. with Beam combiner & Beam Balancer.

**DETECTOR** : Photo Multiplier Tube (PMT)

**MONOCHROMATOR**: Optical System:

1. Focal Length: 250mm or more
2. Grating 1200 lines per mm or more
3. Holographic Diffraction Grating & Quartz coated
4. Slit: Bilateral variable spectral bandwidth with computer control

### **Burner and Gas Control:**

Gas Box should be fully automated with Computer Controlled Oxidant selection. Automatic Gas sequencing, Oxidant & Fuel monitoring and control system. Provision of automatic optimized gas flow for individual elements.

1. Sample feed rate: Computerized (Programmable through software)
2. Burner Type: Titanium venture adjustable sample intake with Air-cooled premix 100mm slot for Acetylene (fuel) Air (Oxidant) & 50mm slot for Acetylene (fuel) and Nitrous Oxide (one). Burner movement through computer, with auto height adjustment.
3. Spray Chamber: PTFE spray chamber & adjustable impact bead aerosol.
4. Flame Ignition: Automatic with flame ON/OFF sensors & online flame status.
5. Gas flow controls: Automatic flow rate control & Automatic changeover to  $C_2H_2/N_2O$  flame.
6. Nebulizer: Fully inert, Platinum-iridium Alloy Capillary .
7. Power Failure Protection.

### **Safety Devices:**

Flame Monitoring System should be fully interlocked.

1. Flashback Arrester
2. Correct Burner selection
3. Constant Head drain outflow
4. Pressure Monitoring
5. Door lock.

### **Software features:**

**Free Software with facility of Guided Operating System.**

The AAS operating software should be latest Windows based, multitasking with a provision of calibration, recalibration, data storage, data manipulation, reslope, post data run, display of recommended condition, graphs, absorbance peaks, back ground

correction, inter element correction including fault/ error finding diagnostic features, statistical parameters etc. At a selection of element, there should be automatic selection of optimal running parameters like gas flow, lamp current, burner height etc. The software must have the facility of reprocessing the data.

### **Up gradation Facility**

System should be upgradable for auto sampler

### **ANALYSIS: -**

**Instrument should show Performance Guarantee  $\geq 0.8$  Abs for 5ppm Standard Cu Solution with RSD  $< 0.5\%$ .**

1. Calibration using up to 10 standards.
2. Calibration mode Linear / Quadratic or Direct.
3. Up to 100 samples data is possible to take at one time.
4. Extensive provision is there for user parameters like date and time of analysis, Analyst's name, result filename, calibration, signal processing modes, result unit, sample identification name, integration time etc.
5. Standard concentration entry in ppm for more than 5 standards.
6. Provision for weight / volume / dilution factor entry to get direct concentration result in % or ppm before or after sample.
7. Powerful range of report facilities for research applications
8. Auto readout & calibration with sufficient memory for at least 50 elements.

### **Cook Book Parameters:**

By selecting a particular element one gets the analytical parameters like lamp current, slit width, & alternative wavelengths, type of flame and method for preparing standard solution and feeding ranges (characteristic concentration), auto gas pressure adjustment.etc.

### **Self Diagnosis and Error Handler:**

Errors occurred during installation or during analysis reported on screen indicating where and the nature of fault for easy servicing.

### **Coded Hollow Cathode Lamps:**

- |             |        |
|-------------|--------|
| 1. Copper   | 01 No  |
| 2. Chromium | 01 No  |
| 3. Zinc     | 01 No  |
| 4. Cadmium  | 01 No  |
| 5. Lead     | 01 No. |
| 6. Nickel   | 01 No  |

