

# BIDDING DOCUMENTS

## FOR

1. Provision of eight (8) million shrimp seed, min PL-10 along with technical services of foreign shrimp farm expert for 120 days growth period
2. Provision of locally manufactured shrimp feed compatible to different growth stages of shrimp (66,000 kg)
3. Provision of imported shrimp feed compatible to different growth stages of shrimp (66,000 kg).



**DIRECTOR GENERAL FISHERIES, PUNJAB, LAHORE**

**9-A Bahawalpur Road, Chauburji, Lahore**

**E-mail: [pcdof@yahoo.com](mailto:pcdof@yahoo.com)**

**Ph: 042-99212374-75**

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**PURCHASE CELL  
O/O DIRECTOR GENERAL FISHERIES,  
PUNJAB, LAHORE**



**INVITATION TO BID**

Dear Sir,

You are hereby invited to submit your tender for the provision of shrimp seed, feed and technical services of foreign shrimp expert as detailed in the schedule to this Invitation to Tender subject to the condition laid in PPRA and those mentioned here under and given in the schedule. The contract resulting from this invitation to tender shall be governed by the General Conditions of contract as contained in Tender Enquiry as required under the Punjab Procurement Rules 2014, the special conditions contained in Sr. No. 35-44 where ever applicable. The tenderer quoting against this invitation to tender shall be deemed to have read and understood the conditions thereof and the particulars of the items required and the specifications etc. in **“Annexure-A”**

2. The tenderer shall quote on the prescribed schedule to this invitation to tender on the basis indicated therein and shall sign, the certificate given therein to the effect that the shrimp seed, feed and technical services of foreign shrimp expert shall be provided exactly in accordance with the requirement of the tender otherwise it would be presumed that offer is strictly in accordance with the requirement specified in the schedule. In case there is any deviation it should be clearly stated by the tenderer otherwise it would be presumed that offer is strictly in accordance with the requirement of the tender.
3. In the case of offers for supply of shrimp seed, feed and technical services of foreign shrimp expert, **the price quoted shall be inclusive of all taxes, duties and charges. Where sales tax is leviable and included in the price quoted it shall be indicated separately in Financial Bid as per format given below:**

**Shrimp seed and technical services of foreign shrimp farm expert:**

Detail of items	Price per PL without Taxes	Price per PL with all Taxes	Quantity	Total Price without Taxes	Total Price with Taxes
Shrimp seed ( <i>vannamei</i> ) PL-10			8 million		

**Locally manufactured shrimp feed:**

Detail of items	Price per Kg without Taxes	Price per Kg with all Taxes	Quantity (kg)	Total Price without Taxes	Total Price with Taxes
Locally manufactured shrimp feed			66,000		

**Imported shrimp feed:**

Detail of items	Price per Kg without Taxes	Price per Kg with all Taxes	Quantity (kg)	Total Price without Taxes	Total Price with Taxes
Imported shrimp feed			66,000		

4. The shrimp seed, feed and technical services are required for delivery/shipment as stated in the schedule.
5. Failure to submit the tender in the manner prescribed in the invitation to tender will be returned or liable to be ignored.
6. The purchaser does not pledge himself to accept the lowest tender /reserves to himself the right of accepting the full or part quantity offered and the tenderer shall supply the same at the rate quoted. The tenderer is at liberty to quote for the full or part quantity.





**DEPARTMENT OF FISHERIES  
PUNJAB**

**Phone # 99212374 -75**

**Email: pcdof@yahoo.com**

**BID MONEY/SECURITIES**

1% Bid security of The Tender Value And 5% Performance Guarantee

**SCHEDULE TO INVITATION TO ADVERTISED TENDER NOTICE**

A	Date and time of Technical Bid submission	Upto 14-06-2024 at 11:00 A.M.
B	Date and Time of Technical Bid opening	14-06-2024 at 11:30 A.M
D	Delivery period	15-07-2024 or earlier

**INSTRCTIONS TO BIDDER:**

1. An offer not fulfilling any of the terms and conditions will be ignored.
2. Offer shall remain open for at least **90 days** for acceptance from the date of opening of tender.
3. Tenderers should submit 1% bid security/earnest money of the **\*estimated cost** (attached with technical bid).
4. Tenderers should quote their price both in words and figures failing which their offer will be ignored.
5. Inspection of items with association of the Indenting officer will be conducted.
6. The firm if fails, to execute contract as per terms & conditions of the contract, the earnest money, if any, will be forfeited in addition to other actions under the rules on the subject.

**TENDER NOTICE**

Sr.#	Tender Enquiry No.	Brief Description of items	Estimated cost (Rs. In million)	1% Bid Security (Rs. In million)
1	PC/ND/PSF-I/2024-25	Eight (8) million shrimp seed, min PL-10 with technical services of foreign shrimp farm expert for 120 days growth period.	45.000	0.450
2	PC/ND/PSF-II/2024-25	Locally manufactured shrimp feed compatible to different growth stages of shrimp (66,000 kg).	24.500	0.245
3	PC/ND/PSF-III/2024-25	Imported shrimp feed compatible to different growth stages of shrimp (66,000 kg).	27.000	0.270



## GENERAL CONDITIONS OF CONTRACT

1. Procurement contract for items will be executed on **stamp papers** of prescribed value by the provincial government at the rate of 25 paise per Rs. 100/- on part thereof of the amount of contract under the Government of the Punjab vide section 22 (A) (b) of the schedule-1 of stamp Act 1899 read with Finance Act 1995 (Act-VI of 1995).
2. The supplier shall have to ensure the supply of said items within 25-days after receipt of confirmed supply order or before **15-07-2024** whichever is earlier.
3. Certified documents of items must be provided by the supplier at the time of delivery of items and this responsibility rests with consignee/indenter representative to also receive documents who receive the items at the time of taking delivery.
4. Payment of items is to be made by the consignee on receipt of items and provision of services according to contract specifications satisfactorily and within stipulated period, given to the supplier by the Department.
5. In case of have authorization from their principals, the Supplier/Agent/Dealer will have to attach the attested copy of valid Dealership certificate/License or authorization from the manufacturer.
6. The rates offered should be according to approved specifications of Departmental Standardization Committee Department of Fisheries, on the basis of single stage procedure with two envelopes system i.e. Technical and Financial offers/proposals separately, as per Rule-38(2)(a) of the Punjab Procurement Rules (PPR), 2014.
7. The rates offered should be from only such persons/firms who are registered with Sales Tax & Income Tax Department and are required to quote their **Sale Tax Registration Number** & Income Tax Registration No. and showing the amount of Sales Tax invoice as well as **Professional Tax** Clearance Certificate.
8. Income Tax will be deducted by the department at the prescribed rates of the Income Tax Department.
9. The rates offered should be as per specifications mentioned in the Tender Enquiry.
10. All the bidders must sign and stamp each paper of Tender Enquiry.
11. All the Bidders/ firms must attach 1% Earnest Money of estimated cost with **Technical offers** mentioned at instructions 6 (page 2 of 9) in the form of CDR in favor of Director General Fisheries Earnest Money of the successful bidders should be returned after opening of the tenders and fulfillment of other requirements by the tenderer i.e. deposit of performance guarantee/security 5% of the tender value etc.
12. The successful bidder shall have to deposit Performance Guarantee/Security in the shape of CDR @ 5% of the total value of the tender in the name of Director General Fisheries within the period specified in advance acceptance of Tender. Otherwise tender will be rejected and Earnest Money will also be forfeited.
13. The offers must include all kinds of duties and taxes etc. and should remain valid for **90 days (minimum)** from the date of opening of the tenders. The successful tenderer shall have to supply the items within specified period after the issuance of purchase order, other-wise the Earnest Money shall be forfeited, tender cancelled and the firm will be black listed.
14. Conditional or late tenders shall not be accepted/considered.
15. The Department reserves the right to reject all the bids or proposals at any time without assigning any reason prior to the acceptance of a bid or proposal as per Rule-35 of PPR, 2014.



**DEPARTMENT OF FISHERIES  
PUNJAB**

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**LIST OF GOODS OR BILL OF QUANTITIES (WHERE APPLICABLE)**

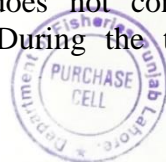
**DELIVERY TIME OR COMPELETION SCHEDULE**

**PROFORMA TENDER ENQUIRY FOR PURCHASE ON FREE DELIVERY SCHEDULE**

Date of Opening	14-06-2024
Time of receipt	Upto 11:00 A.M.
Time of Opening	11:30 A.M.
Delivery period	<b>upto 15-07-2024 or earlier</b>

Note: **Please read the following note and instructions carefully:**

1. An offer not covered as per terms and conditions of the tender enquiry is liable to be ignored. No offer shall be considered if:
  - i. Received without Earnest Money.
  - ii. It is received after the time and date fixed for its receipts.
  - iii. The tender is unsigned.
  - iv. The offer is ambiguous.
  - v. The offer is conditional.
  - vi. The offer is from a firm which is black listed, suspended or removed from the approved list of any Government Department/Organization.
  - vii. The offer is received by telegram.
  - viii. Offer received with shorter validity than required in the tender enquiry; and
  - ix. Offer is not confirming to specifications of the items indicated in the tender enquiry.
2. Offers will remain valid for **90 days (minimum)** from the date of opening of the tender.
3. As per PP Rule No. 38(2) a Single stage two envelope procedures shall be followed with details given below:
  - 3.1 The bid shall comprise of a single package containing two separate envelopes. Each envelope shall contain separately the Technical Proposal (envelope A) and Financial Proposal (envelope B)
  - 3.2 The envelopes shall be marked as “FINANCIAL PROPOSAL” and “TECHNICAL PROPOSAL” in bold and legible letters to avoid confusion;
  - 3.3 Initially, only the envelope marked “TECHNICAL PROPOSAL” shall be opened;The envelope marked as “FINANCIAL PROPOSAL” shall be retained in the custody of procuring agency without being opened;
  - 3.4 The Procuring Agency shall evaluate the Technical Proposal under **PPRA Rule # 32 (1)** and in a manner prescribed in this document, without reference to the price and reject any proposal which does not conform to the specified requirements as listed in said Sections. During the technical evaluation no



- amendments in the technical proposal shall be permitted;
- 3.5 After the evaluation and approval of the Technical Proposal the Procuring Agency, shall at a time within the bid validity period, publicly open the Financial Proposals of the technically accepted and qualified bids only. The Financial Proposal of bids found technically non-responsive shall be returned un-opened to the respective bidders.
4. The purchaser reserves the right to purchase full or part of the items or ignore/scrap/cancel the tender without assigning any reason.
5. (a) If the acceptance of tender issued during the validity period of the offer is not accepted by the tenderer, the Earnest Money shall be forfeited and the items will be purchased at his risk and expense.  
(b) In case, the offer is withdrawn, amended or revised during the validity period of the offer, the Earnest Money is liable to be forfeited.  
(c) In case, the contractor fails to execute the contract strictly in accordance with terms and conditions laid down in the contract the security deposited by him shall be forfeited and the items will be purchased at his risk and expense.
6. The buyer reserves the right to claim compensation for the loss caused by the delay in the delivery of items.

### **SPECIAL INSTRUCTIONS / QUALIFICATION CRITERIA**

1. The items are required by the consignee by "As early as possible". However, the tenderers are required to indicate their own guaranteed earliest date by which the items will be supplied by them.
2. Tenderers must quote on the prescribed invitation to Tender Form in limited tender as well as in advertised tender.
3. Tenders should be addressed to **Director General Fisheries, Punjab, Lahore.**
4. Tenderers should quote their firm and final rates both in words as well as in figures.
5. The successful tenderer may be required to furnish security deposit upto 5% in the form of Call Deposit in favor of **Director General Fisheries, Punjab, Lahore** within the period specified in Advance Acceptance of Tender, failing which purchase shall be made at his risk and expense.
6. Against indigenous items Tenderers who are manufacturers must indicate name and address of the works in Pakistan from where they intend to supply the items.
7. Any Conditional, ambiguous or called in-complete offer in any respect shall be ignored.
8. The supplementary or revised offer after the opening of tenders shall not be entertained.
9. The tenderers should indicate in their tenders, the complete address or the place/places where items will be offered for inspection.
10. The tenderers shall enclose catalogues/leaflets/literature and other technical data, if any in respect of items offered by them.
11. Tenderer should specifically indicate their General Index Registration (G.I.R.) No. and Circle of the Income Tax Department.
12. Any erasing/cutting/crossing etc. appearing in the offer must be properly signed by the person signing the tender. Moreover, all pages of the tender must also be properly signed, offers with any over-writing will be cancelled.
13. The quotation should be submitted on the basis of accounting units specified in the invitation to tender.
14. (a) A certificate should be given by the tenderers that they will be responsible for the free replacement of items if the same is found to be substandard and/ or at variance with the

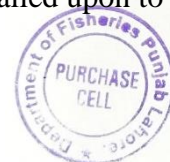


specifications given in the tender enquiry. In case a similar item offered is at variance with the specifications given in the tender enquiry, the tenderers must clearly identify variation in their offers. Items offered of a specification superior to the one specified in the tender enquiry shall, however, be acceptable.

- (b) In case indigenous items is offered as a items similar to that specified in the tender enquiry the tenderers shall within seven days of the opening of the tender have the said items, wherever possible, pre-inspected by the inspection team of the purchaser at their own cost.
- (c) Where offers have been invited for specified brands, offers for other brands shall not be acceptable which are not in equivalence.
15. Items should be brand new and in original manufacturers packing with allied accessories.
16. Free service and supply of spare parts must be provided as per contract.
17. Tender samples where needed should be submitted by the tenderers along with their offers. Bulky samples should be delivered at the time of the opening of the tenders, failing which the offer shall not be entertained.
18. The items are required as per indenters specifications which is available in the office of Director General Fisheries and can be seen during office hours.
19. Import documents shall be produced at the time of inspection to ensure that items offered for inspection are imported.
20. The tenderer should undertake that the security may be forfeited if they fail to furnish the import documents on inspection as at (iv) or to purchase the items at their risk and expense.
21. 100% payment will be allowed on receipt of inspection and accepted items by the consignee who shall return the inspection notes to the authorized representative of the firm within a period of 10 days.
21. Testing charges of sample/samples against the tender/advance bulk suppliers will be born by the tenderer/contractor irrespective of the result of the sample/samples.
22. The supplier will deliver all above items at **Shrimp Farm Muzaffargarh**
23. Lab test report of Shrimp feed would be provided by the bidder.
24. Partial payment on receiving of partial supply of feed would be admissible.
25. The supplier will provide certificate that shrimp seed is specific pathogen free at the time of delivery
26. The tender shall be enclosed in a double cover. The out cover shall bear the address of the office issuing the invitation to tender without any indication that it encloses a tender. The inner cover shall be sealed and the number of the Invitation to Tender and date of opening shall be clearly marked on it. All out-station tenders must be sent by Registered Post well in time and only one "Tender" (with both technical and financial offers, separately) shall be enclosed in one cover.
27. All tenders shall be opened at the time and date specified in the Invitation to Tender. The tenderer's representative shall be at liberty to be present at opening of the tenders of the value of Rs. 5,00,000/- and above.
28. **The Director, Manager, Secretary, or Representative of the firm shall have to produce copy of the documents authorizing him to sign the tender, if required.**

**Note:-** All the members on an attorney duly authorized by all of them or the Manager of the firm shall sign the tender and other subsequent documents.

29. It is in the interest of the tenderers to get themselves registered with the Department as "APPROVED CONTRACTORS"/PRE-QUALIFIED FIRM IF REQUIRED".
30. The tenderer shall give the following information, if called upon to do so:
  - (i) **Registration No. as approved Contractor**





(ii) **Consumer Confidence Index (C.C.I) and Registration No.**

31. The submission of tender against the Invitation to Tender by the tenderer, shall deemed to his having read and accepted the conditions contained in detail given in tender documents and thoroughly examined the specifications, drawing and particulars specified in the Invitation to Tender. Further the tenderer shall be deemed to be fully aware of the nature of goods required and shall be bound to accept the contract, if placed with him on the basis of his prices within the validity of his tender.
32. The tenderer shall certify in his tender that items offered for supply shall be strictly in accordance with the requirements set out in the Invitation to Tender. This shall be done by affixing the green certificate as under the top of the first sheet of his tender.

<p>We guarantee to supply store/works exactly in accordance with the requirement specified in the</p> <p>invitation to Tender No.....</p> <p>Tenderer's Signature .....</p>
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33. The Invitation to Tender may be purchased from appropriate authority specified and cash receipt must be enclosed with the tender.
34. The unsolicited, late and delayed tenders shall not be considered.
35. Any correction or alteration in the tender must be signed in full by the same person, who is signing the tender for and on behalf of the tenderer.
36. The purchaser does not pledged himself to accept the lowest tender and reserves the right of accepting the whole or any part of the tender or portion of the quantity offered, and the tenderer shall supply the same at the rate quoted. The tenderers are 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 purchased.
37. Acceptance by the Purchaser will be communicated by e-mail, telegram, letter of acceptance or Advance Acceptance of Tender or formal "ACCEPTANCE OF TENDER". In case, where acceptance is communicated by the courier/ fax or letter or Advance Acceptance of tender, the formal Acceptance of Tender will be forwarded to the successful tenderer as soon as possible but the instructions contained in the courier/fax, letter or advance Acceptance of Tender shall be acted upon, immediately.
38. The tenderer must always give his tender for brand new items of latest design, robust construction and made according to the modern manufacturing practice. Unsolicited, late and delayed tenders shall not be considered.
39. Tenderers offering items subject to prior sale shall not be considered.



**CERTIFICATE**

- a) We hereby confirm to have read carefully the description of items and all the terms and conditions of your tender due for opening on **14-06-2024 at 11:30 A.M.** in the office of Director General Fisheries, Punjab, 9-A Bahawalpur Road, Chauburji, Lahore for the supply of **tender item**.
- b) We agree to abide by all the instructions/conditions of the said tender enquiry and specifications attached (**Annexure-A**).
- c) We also hereby categorically confirm that the items offered by us are exactly to the particulars and specifications as laid down in tender enquiry in all respect.
- d) The items offered by us are of the origin as required in **Annexure-A**.
- e) We accept that if the required Earnest Money is not furnished with our offer, it shall be ignored.
- f) We hereby confirm to adhere to the delivery period required in the tender enquiry which should be the essence of the contract and un-conditionally to accept the recovery of belated damages on later supplies at 2% per month or part thereof.
- g) We certify that the price quoted to the Department against Tender item is not more than the price charged from any other Purchasing Agency in the Country and in case of any discrepancy, the tenderer hereby undertakes to refund the price charged in excess.

Name of Tenderer \_\_\_\_\_

Signature of Tenderer \_\_\_\_\_

Designation \_\_\_\_\_

Seal \_\_\_\_\_

Witness

a) Name: \_\_\_\_\_ (Signature) \_\_\_\_\_

b) Full Address: \_\_\_\_\_

c) Date: \_\_\_\_\_



## EVALUATION CRITERIA

### A. TECHNICAL EVALUATION CRITERIA

1	Valid Income Tax Registration No. (status active with FBR)	<b>Mandatory</b>
2	Valid GST Registration No. (status active)	<b>Mandatory</b>
3	Professional Sales Tax Certificate of current year	<b>Mandatory</b>
4	Technical Proposal (Conformance to the required specification of items given in Annexure-A)	<b>Mandatory</b> Technical evaluation shall base on Technical Specification (Annexure-A)
5	Samples / Drawings (if needed)	<b>Mandatory</b>

#### Note:

- 1- Firms shall provide complete set of requisite documents otherwise bid shall be rejected.
- 2- The bidder must provide Verifiable documentary proof against all the mandatory requirement and Evaluation Criteria along with the Technical Proposal and no document will be received or considered after opening of the Technical Proposal. The Procuring Agency may ask for physical Demonstration sample of any of the items given in the Tender Document for confirmation of the specifications.

### B. FINANCIAL PROPOSAL EVALUATION

Technically qualified/successful bidder(s)/Tenderer(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence of the after technical evaluation. The technically Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives against each item shall be allowed to take part in the Financial Proposal(s) opening against their relevant item(s).

Financial Proposal evaluation will be conducted under the Punjab Procurement Rules, 2014. The Price evaluation will include all duties, taxes and expenses etc. In case of any exemption of duties and taxes made by the Government in favor of the Procuring Agency, the contractor shall be bound to adjust the same in the Financial Proposal.



## ANNEXURE A

### TECHNICAL SPECIFICATION AND SCHEDULED OF REQUIREMENT

#### ANNEXURE-A

#### **SPECIFICATIONS OF SHRIMP (*L. VANNAMEI*) SEED (PL-10) ALONGWITH TECHNICAL SERVICES OF FOREIGN EXPERT FOR SHRIMP CULTURE UNDER PILOT PROJECT FOR ADAPTIVE RESEARCH ON SHRIMP FARMING AT MUZAFFARGARH**

Shrimp Seed (PL-10) must be:

- i. acclimatized at 5 ppt salinity at shrimp farms Muzaffargarh alongwith all inputs required for acclimatization
- ii. seed must be transported from hatchery to farm upto  $\pm 22$  °C
- iii. healthy, in original color, active to swim
- iv. pathogen free, having origin of Nauplii/PL from Specific Pathogen Free (SPF) & preferably Specific Pathogen Resistant (SPR) certified shrimp hatchery
- v. with 4 rostral spikes
- vi. will be delivered and counted at the farm as per supply order

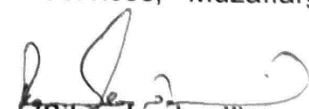
#### **Criteria for Foreign Expert for Shrimp Farming:**

- Minimum qualification: Bachelor degree in relevant field
- Minimum practical experience in shrimp farm/ hatchery: 10 years
- The expert of shrimp farming should have ability to speak English or Urdu language or accompanied with local translator
- On farm 120-day technical services will be provided by the expert for shrimp farming but not limited to:
  - i. Acclimatization of post larvae at the time of stocking
  - ii. Feed and feeding of PL and growing shrimp
  - iii. Water quality management of shrimp farms
  - iv. Stress management
  - v. Health management
  - vi. Solution of any other technical issue at farm till harvesting

#### **TERMS & CONDITIONS**

1. The supplying firm will be responsible for free delivery and acclimatization of shrimp seed at shrimp farms at Muzaffargarh.
2. Partial payment can be made on partial supply of consignment.
3. The consignee's address: Assistant Director Fisheries, Fish Hatchery (SWARC), Thermal Bypass, N-70, near Bismillah Petroleum Services, Muzaffargarh (0301-6962349/ 0334-6465305).

  
DG (WAF)  
Muzaffargarh

  
(Sikandar Jamil)  
Assistant Director Fisheries  
Fish Hatchery (SWARC),  
Muzaffargarh



**SPECIFICATIONS OF LOCALLY MANUFACTURED SHRIMP FEED OF PILOT PROJECT  
FOR ADAPTIVE RESEARCH ON SHRIMP FARMING AT MUZAFFARGARH**

- Feed supply must be partial and not be expired during growth period of shrimp
- In case of general order supplier, the document of origin/name of shrimp feed mill along with consent letter from the mill be provided in Technical Bid

**TYPES AND COMPOSITION OF FEED:**

Particulars	Feed Category/ Type			
	1- STARTER	2- STARTER	1-GROWER	2-GROWER
Feed Form	Crumble	Crumble/Pellet	Pellet	Pellet
Feed size (mm)	0.2 ~ 1.2	1.2 ~ 1.6	1.6- 1.8	1.8- 2.0
Feed quantity (66000 kg)	6300 kg	7050 kg	8000 kg	44650 kg
	Note: The quantity of each type of feed would be supplied as per requirement of age group of shrimp.			

**Feed Composition:**

Crude Protein: (Fish meal, shrimp powder protein minimum 50 % of total protein)	36-42%	36-40 %	36-38%	36%
Crude Fat	5-7%	5-7%	5-7%	5-7%
Carbohydrates	10-15 %	15-25 %	15-25 %	15-25 %
Fiber (not more than)	4%	4%	4%	4%
Moisture	8~10%	8~10%	8~10%	8~10%
Ash	12-15%	12-15%	12-15%	12-15%
Calcium compound (minimum)	3%	3%	3%	3%
Phosphorous	1-1.5 %	1-1.5 %	1-1.5 %	1-1.5 %
Standard vitamins and Minerals Premix (not less than)	3 %	3 %	3 %	3 %

**Physical Characteristics of Feed:** Feed must be sinking, uniform size and same color of feed grains in each category, soft dry clean surface, separate grains (not clotted), appealing look and aroma, water stability level:2-3 hours

**Amino Acid Profile:** Feed protein must perform ideal protein test through proximate analysis having 12 essential amino acid of protein with standard ratio as under:



### Essential Amino Acid Profile

Protein	36 %	38 %	40 %	42 %
Arginine	2.09	2.20	2.32	2.61
Histidine	0.76	0.80	0.84	0.95
Isoleucine	1.26	1.33	1.40	1.58
Leucine	1.94	2.05	2.16	2.43
Met + Cys	0.86	0.91	0.96	1.08
Phe + Tyr	1.30	1.37	1.44	1.62
Threonine	1.44	1.52	1.60	1.80
Tryptophan	2.57	2.70	2.84	3.20
Valine	1.30	1.37	1.44	1.62

### TERMS & CONDITIONS

1. The supplying firm will be responsible for free delivery of shrimp feed at shrimp farms at Muzaffargarh
2. The consignee/ Department of Fisheries can ask the supplying firm for analysis report of feed samples collected randomly from the supplied consignment, from well reputed lab.
3. Partial payment can be made on partial supply of consignment
4. The supplying firm will be responsible for complete information including expiry date printed on feed bags
5. The consignee's address: Assistant Director Fisheries, Fish Hatchery (SWARC), Thermal Bypass, N-70, near Bismillah Petroleum Services, Muzaffargarh (0301-6962349/ 0334-6465305).

*SD*  
*DE (SWF)*  
*SP Punjab*

*(Sikandar Jamil)*

Assistant Director Fisheries  
Fish Hatchery (SWARC),  
Muzaffargarh



**SPECIFICATIONS OF IMPORTED SHRIMP FEED FOR PILOT PROJECT FOR ADAPTIVE RESEARCH ON SHRIMP FARMING AT MUZAFFARGARH**

- Feed supply must be partial and not be expired during growth period of shrimp
- In case of general order supplier, the document of origin/name of shrimp feed mill along with consent letter from the mill be provided in Technical Bid.
- Shrimp feed manufacturing mill must be:  
ISO 9001:2015  
ISO 22000:2005  
HACCP

**TYPES AND COMPOSITION OF FEED:**

Particulars	Feed Category			
	1- STARTER	2- STARTER	1-GROWER	2-GROWER
Feed Form	Crumble	Crumble/Pellet	Pellet	Pellet
Feed size (mm)	0.2 ~ 1.2	1.2 ~ 1.6	1.6- 1.8	1.8- 2.0
Feed quantity (66000 kg)	6300 kg	7050 kg	8000 kg	44650 kg
Note: The quantity of each type of feed would be supplied as per requirement of age group of shrimp.				

**Feed Composition:**

Crude Protein: (Fish meal, shrimp powder protein minimum 50 % of total protein)	36-42%	36-40 %	36-38%	36%
Crude Fat	5-7%	5-7%	5-7%	5-7%
Carbohydrates	10-15 %	15-25 %	15-25 %	15-25 %
Fiber (not more than)	4%	4%	4%	4%
Moisture	8~10%	8~10%	8~10%	8~10%
Ash	12-15%	12-15%	12-15%	12-15%
Calcium compound (minimum)	3%	3%	3%	3%
Phosphorous	1-1.5 %	1-1.5 %	1-1.5 %	1-1.5 %
Standard vitamins and Minerals Premix (not less than)	3 %	3 %	3 %	3 %

**Physical Characteristics of Feed:** Feed must be sinking, uniform size and same color of feed grains in each category, soft dry clean surface, separate grains (not clotted), appealing look and aroma, water stability level: 2-3 hours

**Amino Acid Profile:** Feed protein must perform ideal protein test through proximate analysis having 12 essential amino acid of protein with standard ratio as under:





### Essential Amino Acid Profile

Protein	36 %	38 %	40 %	42 %
Arginine	2.09	2.20	2.32	2.61
Histidine	0.76	0.80	0.84	0.95
Isoleucine	1.26	1.33	1.40	1.58
Leucine	1.94	2.05	2.16	2.43
Met + Cys	0.86	0.91	0.96	1.08
Phe + Tyr	1.30	1.37	1.44	1.62
Threonine	1.44	1.52	1.60	1.80
Tryptophan	2.57	2.70	2.84	3.20
Valine	1.30	1.37	1.44	1.62

#### TERMS & CONDITIONS

1. The supplying firm will be responsible for free delivery of shrimp feed at shrimp farms at Muzaffargarh
2. The consignee/ Department of Fisheries can ask the supplying firm for analysis report of feed samples collected randomly from the supplied consignment, from well reputed lab.
3. Partial payment can be made on partial supply of consignment
4. The supplying firm will be responsible for complete information including expiry date printed on feed bags
5. The consignee's address: Assistant Director Fisheries, Fish Hatchery (SWARC), Thermal Bypass, N-70, near Bismillah Petroleum Services, Muzaffargarh (0301-6962349/ 0334-6465305).

  
 DE (LWF)  
 S/Punjab

  
 (Sikandar Jamil)  
 Assistant Director Fisheries  
 Fish Hatchery (SWARC),  
 Muzaffargarh

