Application Form

Expression of Interest (EOI) for

Incubatees

for the production of shrimp feed at Aquafeed Extrusion Mill in

Directorate of Incubation and Vocational Training in Aquaculture (DIVA), Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Muttukadu, Chennai – 603 112.

TAMIL NADU Dr. J. JAYALALITHAA FISHERIES UNIVERSITY

Invitation for Expression of Interest

EOI has been invited from the Incubatees to apply to
Aquafeed extrusion mill in DIVA, Muttukadu, Chennai.

We aim to focus on Incubation support to innovative startup in the shrimp feed production at Aqua feed extrusion mill. It may be noted that this is invitation for EOI and should not be construed as the Tender/ Request for Proposal (RFP) in any form and would not be binding on the institute in any manner whatsoever.

Sealed EOI prepared in accordance with the procedure enumerated in this document should be submitted to the Director, Directorate of Incubation and Vocational Training in Aquaculture (DIVA), Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Muttukadu, Chennai on or before **30.06.2021**. The EOI shall be *valid for 90 days* from the date of opening.

Selection criteria of Incubatees

The application should be accompanied with the following information:

(a) A capability statement (Not more than two pages).

(b) Company/ Organization/ individual profile giving details of current activities and management structure.

(c) Social/ scientific value of your business

(d) Innovation that you are bringing to the society, training programmes attended in relevant area. Financial projection – Cash flow Projections – expenses and revenues.

1. Introduction of Aquafeed Extrusion Mill

The aqua feed extrusion mill is located at Directorate of Incubation and Vocational training in Aquaculture (DIVA), ECR, Muttukadu of Tamil Nadu Dr. J. Jayalalithaa Fisheries University.

The newly established aqua feed extrusion mill has all equipments to produce sinking feed. The sinking feed production line includes hammer mill, mixer, pelletizer, post conditioner, dryer, cooler, siever, crumbler and accessories like conveyors and elevators.

2. Components of Aqua feed mill of DIVA

S. No	Component	Description	Qty (No.)	HP
1.	**Diesel Boiler**	• Tube Type • Capacity 200-300 Kg/hr • 10 bar pressure • Burner Auto-cut.	1	
2.	**Pulverizer**	• Hammer type • Capacity 100-125 Kg/hr	1	
3.	**Mixer**	• Capacity 40-50 Kg/ batch • Stainless steel body		
4.	**Mash Feed Bucket Elevator**	• Double column elevator tuffs fabricated by 2.5 mm sheet • Height of the elevator is 10 m • Boot and Head by 4 mm MS plates • Bearings- NTN 208 size • Belt- 5 ply thickness and width of 8 inch • Mold bucket 16 G thickness • Drive parts with 2 HP gear motor	1	2.00
5.	**Bin above Pellet Mill**	• Capacity: 500-600 Kg • Fabricated by 3 mm sheet with necessary supports	1	
6.	**Pellet Mill**	• Capacity: 500-600 Kg/hr • Die material- Stainless Steel G-Chrome	1	50.0

		• 3 no. dies • Die size- 1.6 mm, 1.8 mm, 2 mm • Front Door should be made from 3-5 mm with stainless steel plate equipped with an overflow and inspection flap • The power transmission to the main pulley • The basement of the press is MS fabricated out of 10 mm thick which supports the whole construction in a safe way that guarantees a maximum stability and smooth running of the press • The die connection is reinforced by a stainless steel ring that is molded t o the quill shaft to guarantee a low wear operation of the die • The press is equipped with two press rolls • Die inner dia : 303 mm • Working width: 64 mm • Screw feeder 10 inch,1.5 meter along with 3 HP Dyno drive motor with RPM controller and starter • Double conditioners Stainless Steel with necessary fittings • Top steam conditioner 10 inch and 1.5 meter long • Bottom steam conditioner 10 inch and 1.5 meter long • Roll Assembly for Precise Die-Roll Gap Adjustment • Knife Cutter Assembly and precise Depth Adjustment • Motor with starter – 50 Hp		3.00
7.	**Pellet Conveyer**	• Height of conveyer – 6 meter • Boot and head made by 4 mm Mild Steel Plates • Bearing - NTN 208-210 size • Plastic Belt - 18 inch width • Press Mould bucket –15 Gauge thickness • Drive parts – 1 No.	1	2.00

		Gear motor 2 HP with VFD		
8.	**Pellet Post Conditioner with Dryer**	• Post conditioner should be after Pelletiser to ensure good water stability and prevent loss of nutrients • The conditioning chamber is heated by the steam jacket • The dimension of the conditioning chamber is 1 m (L) x 1 m (W) x 1 m (H) • Consisting of mild steel 3 thick, two pass horizontal apron type chain driven conveyor, moisture vending blower, hot air blower, steam radiator ,steam valve, cyclone with drive • Conditioning time - 25 min • Operation capacity: Feed 500-600 kg per hour • The inner case should be made of SUS300 stainless steel • The inlet rotary is made of SUS304 stainless steel • 5 motors of 30 HP	1	1.00 1.00 7.50 7.50 10.00
9.	**Hot Pellet Conveyer**	• Height of conveyer – 6 meter • Tuffs fabricated by 1.5 mm sheet, boot and head by 4 mm MS plates • Bearings - NTN 208 size • Plastic Belt 4 ply thickness and width of 8- 9 inch • 18 inch Press mold bucket – 16 G • Geared motor 2 HP with VFD	1	2.00
10.	**Counter Flow Cooler**	• The cooler roof and walls are made of Stainless steel • Steel complete with motor console coupling and 1 HP geared motor • Exhaust fan in the roof of the cooler hood • All necessary airflow connections to the rotary seal • Size of discharge section : 1200 x 1200 mm • Height of pellet layer –1200 mm • Diameter of cooling air tube : 300mm • Cooling volume : 1.50 Ton/hour • Electric Control Panel for Cooler discharge Gate • Pellet discharge device with two stationary adjustable sections and one movable section • Collecting hopper for central discharge of pellets with tube	1	1.00 2.00 3.00

		connections		
11.	**Vibrator Pellet Sieve**	• Fabricated by MS channel • Angle and tray are made by 3 mm sheet fitted with removable Stainless steel mesh • Motor : 2 HP	1	3.00
12.	**Crumbler: Model Unique 200 x 1000 RPM 1440 and Three stage siever with 30,25,20,,SS Screen and Vibro Motors**	• Heavy MS structure with roller made specially hardened chilled roll steel and spring loaded roll gap adjustments equipped with feed rotary gear motor and feed diverter flap and roll cleaning gate • Grooved rollers of 8 inch dia and 1000mm long fitted in base and individual gear motors 3HP x 2Nos 1HP gear motor for feeder • Three stage seiver 1000 x 1250 made by 3mm sheet and SS30,25,20 mesh screen with vibrio motor 2HP and necessary standn and fittings	1	3.00 3.00 3.00 1.00

3. Plan of operation:

Since the aqua feed extrusion mill has both fish feed and shrimp feed production equipments, the incubatee is permitted to use the facility as mentioned in the MoU.

4. Facilities available on chargeable basis (exclusive of GST) to incubatee

The floating feed production line and sinking feed production line are in one aqua feed extrusion mill building. The shrimp feed production equipments alone will serve as Incubation unit. The equipments which are not mentioned are not available for Incubation.

Lease cost for feed mill building and equipments is Rs. 4.0 per Kg feed inclusive of electricity charges, water pumping, machinery depreciation and profit for TNJFU. Manpower cost has to be paid by the incubatees for 15 days period of operation of every month.

Note: A separate diesel tank will be provided to the incubatee and it is the responsibility of incubatee to fill the diesel tank for operating steam boiler.

5. Selection approach:

The selection will be in two stages comprising (i) the Expression of Interests (EOI) in the first stage. (ii) Selection process will comprise of interview of the short-listed applicants by monitoring committee constituted by TNJFU to evaluate their techno-commercial capabilities. The cost associated with the preparation and submission of the response to the EOI shall be borne by the applicant.

6. Exit Guidelines:

The registered company would be allowed to exit from Incubator based on one or the following:

a) At this Incubation unit, by default, Incubatees will be allowed for an Incubation period up to 11 months. This can be extended for additional six months on approval from monitoring committee.
b) After this period (a total of 1 year and 5 months), the Incubate will be obliged to exit the Incubation unit.
c) Underperformance by the Incubated company with respect to the predetermined milestones will be decided by Incubation unit monitoring committee based on periodic review. This may lead to exit from the Incubation unit at any time during the Incubation period.
d) Failure to perform: If any Incubate does not commence activities within assigned time (3 months after selection), he/she may be asked to exit from the Incubation unit.
e) Incubates engaged in the activities different from the theme of the Incubation unit will be asked to exit from the Incubation unit.
f) If Incubates are found indulge in any illegal activities, a strict action according to the law and order will be taken against them and they will be asked to exit from the Incubation unit with immediate effect.
g) All amounts mentioned in this EOI are provisional.

7. Agreement guidelines

1. Before signing the agreement with this Incubation unit, companies/persons registering will have to submit following document:

- Soft copy of the passport size photo of all promoters.
- PAN Card
- ID Proof of Promoters (PAN Card/ DL/ Passport)
- Two References (Clients/ academics/ Any other)
- Company Incorporation Certificate (to be submitted within 1 month of registering at this Incubation unit).
- Executive summary of the idea

- Permanent address proof

2. The shrimp feed formulation technology will be offered by Director, DIVA to the successful Incubatee at one time cost of Rs. 50,000/- by signing MoU.

3. All Incubates would be required to deposit 2 months rental as security deposit before joining this Incubation unit (refundable upon exit).

4. Irrespective of production output, the monthly payment to be done as an incubate charges.

5. Advance amount to be paid.

6. Any repair in the machines to be carried out by the incubate upon intimation to the Director. Only genuine parts to be used.

7. On completion of incubation period, the entire machinery will be checked by the reputed machinery supplier and any complaints other than normal wear and tear should be attended by the incubate (or) he should pay the money to the Directorate.

8. The machine operation time is only 8 hours per day. The number of days permitted for operation of shrimp feed production will normally be 15 days in a month.

8. Name of the contact person for any clarifications:

Dr. N. Felix,

Director

Directorate of Incubation and Vocational Training in Aquaculture (DIVA), Tamil Nadu Dr. J. Jayalalithaa Fisheries University, Muttukadu, Chennai.

Mobile : 9443688174



Director