

WASHINGTON

Trump says designating Antifa ‘a major terrorist organisation’



U.S. President Donald Trump said he would designate “Antifa” as “a major terrorist organisation,” a move he threatened in his first term. The White House did not immediately offer details on how the label could be applied. Critics of the Republican President warn such a move could be used as a pretext to quash dissent. AFP

DAMASCUS

Syria, Israel advance security talks as U.S. pushes peace settlement



Syria expects to finalise security and military deals with Israel this year, officials said on Thursday, marking progress after Assad's ouster. With the U.S. pushing for a settlement, Foreign Minister Asaad al-Shaibani arrived in Washington to discuss talks with Israel and the possible lifting of sanctions on Syria. AFP

PHNOM PENH

Cambodia accuses Thailand of blocking families at border



Cambodia's leader Hun Manet has accused Thailand of preventing more than 20 families from returning to their homes on the disputed border, according to his letter to the head of the UN released on Thursday. The Thai army said the Cambodian residents had “illegally occupied” Thai territory. AFP

TAIPEI

In first, Taiwan, U.S. firm to make missile and underwater drone



Taiwan and U.S. defence firm Anduril will jointly produce a missile and underwater drone, marking Taiwan's first such deals with a foreign company. Officials said it strengthens self-defence amid China's threat, boosts local production, and supports Taipei's growing defence budget and military modernisation efforts. AFP

Qatar meets ICC head as it mulls action against Israel

Five Hamas members and a Qatari official were killed in the Israeli strike in Doha that targeted the group's top leadership; Qatar, as an observer state at the ICC, cannot itself refer cases to the court

Agence France-Presse  
DOHA

Qatar has met with the president of the International Criminal Court as it seeks legal action against Israel over its unprecedented strike on its territory last week, an official said on Thursday.

The emirate's chief negotiator, Mohammed al-Khulaifi, met in The Hague on Wednesday with the president of the ICC, Judge Tomoko Akane, as it pursues “every available legal and diplomatic avenue to ensure accountability for those responsible for Israel's attack on Qatar”, the Qatari official said.

Last week's deadly Israeli strike targeted Qatar-based leaders of Palestinian militant group Hamas and sent shock waves through the Gulf states that have long depended on the United States for their security.

Hamas has said top offi-



The emirate's chief negotiator says it is 'exploring legal avenues to respond to the illegal Israeli armed attack against Qatar'. AFP

cials of its political bureau, hosted in Qatar with U.S. blessing since 2012, survived the strike but it said five members were killed, along with an officer of Qatar's internal security force.

Speaking on condition of anonymity because of the sensitivity of the discussions, the official called Israel's attack “unlawful”, adding it “constitutes grave violations of international humanitarian law”. Qatar, as an observer

state at the ICC, cannot itself refer cases to the court.

But after emergency talks in Doha, the Arab and Islamic blocs called on their members on Monday to take “all possible legal and effective measures to prevent Israel from continuing its actions”.

In a post on X after his meeting with the ICC chief, Mr. Khulaifi said his visit had been “part of the work of the team tasked with exploring legal avenues to

respond to the illegal Israeli armed attack against the State of Qatar”.

Last year, the ICC launched a prosecution of Israeli Prime Minister Benjamin Netanyahu for war crimes and crimes against humanity during Israel's war in Gaza, including by intentionally targeting civilians and using starvation as a method of war.

The ICC also sought the arrest of Israel's former Defence Minister Yoav Gallant and Hamas commander Mohammed Deif, who has since been confirmed killed by Israel.

The Gaza war was triggered by Hamas's October 2023 attack, which resulted in the deaths of 1,219 people, most of them civilians.

Israel's retaliatory campaign has killed at least 65,141 people, also mostly civilians, according to figures from the territory's Health Ministry that the United Nations considers reliable.

U.K. deports first migrant to France under new deal

Sriram Lakshman  
LONDON

The U.K. has returned the first person to France, under a migrant return deal signed by the French and British governments in July. The man is an Indian citizen as per reporting from the BBC and the Telegraph. The French Interior Ministry confirmed to *The Hindu* that one migrant was received by France on Wednesday but declined to confirm citizenship details.

The deal to return migrants arriving on ‘small boats’ from France across the English Channel was announced during French President Emmanuel Macron's State visit to the U.K. in July. For every migrant returned to France, the U.K. will accept a vetted migrant from France under the ‘one-in one-out’ arrangement. Preference would be given to those who have U.K. ties.

“A man who arrived in the U.K. by small boat in August was removed on a commercial flight this morning marking another major step in the government's action to dismantle



Migrants waded through the sea in an attempt to board an inflatable dinghy to cross the English Channel to reach Britain. REUTERS

the criminal networks profiting from human misery,” the U.K. Home Office said in a statement that did not specify the man's citizenship.

The U.K. government said more flights are due to take off this week and next.

Border security

The government – which has pitched much of its push against illegal migration as a fight against people smuggling gangs – boosted funding for Border Security in August by £100 million to disrupt trafficking gangs.

The deal will run on a trial basis until July 2026. However, the process has

already run into legal issues, with migrants not making it on deportation flights scheduled for earlier this week.

The High court in London blocked a 25-year old Eritrean man from being returned to France to allow his lawyers more time to provide evidence that he may have been the victim of modern-day slavery.

“I will continue to challenge any last-minute, vexatious attempts to frustrate a removal in the courts,” newly appointed U.K. Home Minister Shabana Mahmood said. The Home Office has also begun to review the country's modern slavery legislation.

Ukraine hits Russian oil refinery deep behind front

Agence France-Presse  
KYIV

Ukrainian drones on Thursday hit a major Russian oil refinery some 1,400 km from the front line, triggering a fire, officials from both countries said.

The strike is the latest in a wave of drone attacks on Russia's energy infrastructure as Kyiv seeks to knock out Russia's vital energy revenues that fund its army.

A source in Ukraine's SBU security agency said its drones had hit “the heart” of a refinery in the central Bashkortostan region run by state-controlled energy giant Gazprom. Unverified images on Russian social media showed a fire at the facility and a plume of dark smoke rising above it.

Russia typically does not confirm Ukrainian strikes, but Radiy Khabirov, the Russian head of the region, said on Thursday the refinery had been hit. Strikes over the summer months have knocked out a notable portion of Russia's refining capacity.

Trump says U.S. is trying to ‘get back’ Bagram Air Base

Sriram Lakshman  
LONDON

The Trump administration is trying to negotiate a take over of Bagram Airfield in Afghanistan, U.S. President Donald Trump announced on Thursday. Mr. Trump's comments were made at Chequers, the official country residence of U.K. Prime Minister Keir Starmer at a joint press conference with the two leaders, at the conclusion of the President's two-day State visit to the U.K.

Mr. Trump said that when his first administration (2016-2020) had planned on taking U.S. troops out of Afghanistan, it had planned to hold on to Bagram, a 77 sq. km airbase with a 11,800 ft runway,

which was a focal point for logistics for U.S. troops in Afghanistan. U.S. troops exited Afghanistan – including Bagram – in a chaotic manner on February 29, 2020 under the newly-appointed administration of Joe Biden.

Mr. Trump said that the U.S. had “given” Bagram to the Taliban for “nothing”. The Taliban took over Afghanistan after America's exit.

“We're trying to get it back, by the way. Okay, that could be a little breaking news. We're trying to get it back, because they [the Taliban] need things from us. We want that base back, but one of the reasons we want the base is, as you know, it is an hour away from where China makes its nuclear weapons,” Mr. Trump said.

Trump, Starmer sign deal to seal ‘unbreakable bond’

Agence France-Presse  
CHEQUERS

Donald Trump hailed America's “unbreakable bond” with Britain on Thursday as he and Prime Minister Keir Starmer signed a huge tech deal on the second day of the U.S. President's pomp-filled state visit.

A day after King Charles III treated Mr. Trump to a day of royal pageantry at Windsor Castle, Mr. Trump flew to Mr. Starmer's Chequers country residence for talks on thorny issues, including the wars in Ukraine and Gaza.

But Britain's work in wooing the unpredictable Mr. Trump on his

second state visit seemed to have paid off as he and Mr. Starmer signed the partnership boosting ties in artificial intelligence, quantum computing and nuclear energy.

At the signing ceremony attended by a host of U.S. tech CEOs, Labour leader Starmer said he and Republican Trump were “leaders who genuinely like each other”. “It is the biggest investment package of its kind in British history by a country mile,” he added.

The deal comes on the back of pledges of £150 billion (\$205 billion) of investment into the U.K. from U.S. giants including Microsoft, Google and Blackstone.

Department of Fisheries,  
Ministry of Fisheries, Animal Husbandry & Dairying, Government of India  
Krishi Bhawan, Dr Rajendra Prasad Road, Central Secretariat, New Delhi-110001

INVITATION FOR EXPRESSION OF INTEREST

Department of Fisheries, Ministry of Fisheries and Animal Husbandry & Dairying, Government of India invites sealed Proposals from interested and experienced firms/companies/organizations involved in domestication and breeding programmes of potential candidate species for coastal aquaculture to produce Specific Pathogen-Free (SPF) Brood Stocks of *L. vannamei*, either independently or through a Joint Venture with the local partner from India. EOI document containing the details of criteria, submission requirement, objective, scope of work etc. can be downloaded from the website <http://dof.gov.in>, <http://https://nfdb.gov.in> and <https://caa.gov.in>.

Further details/queries, if any, may be obtained from **Fisheries Development Commissioner**, Department of Fisheries, Ministry of Fisheries and Animal Husbandry & Dairying, Government of India Krishi Bhawan, Dr Rajendra Prasad Road, Central Secretariat, New Delhi-110001. Telephone No.91-23386379/ E-mail: [fdc-india@dof.gov.in](mailto:fdc-india@dof.gov.in) during working hours.

**This is a rolling EOI.** Sealed envelope marked to the below address, containing the proposal with all relevant documents may be submitted mentioning “Expression of Interest for establishing Nucleus Breeding Centres (NBC) for *L. vannamei* in India on the top of the envelope.

**The Joint Secretary (Marine Fisheries)**  
Department of Fisheries  
Ministry of Fisheries and Animal Husbandry & Dairying  
Government of India  
Krishi Bhawan, Dr Rajendra Prasad Rd, Central Secretariat, New Delhi-110001

**Fisheries Development Commissioner**  
Department of Fisheries,  
Ministry of Fisheries and Animal Husbandry & Dairying, Government of India,  
Room No.242-C, Krishi Bhawan, Dr Rajendra Prasad Rd, Central Secretariat, New Delhi-110001

मत्स्य पालन, पशुपालन एवं पशुपालन मंत्रालय, भारत सरकार कृषि भवन,  
डॉ. राजेंद्र प्रसाद रोड, केंद्रीय सचिवालय, नई दिल्ली-110001

रुचि की अभिव्यक्ति के लिए निमंत्रण(ईओआई)

मत्स्य पालन विभाग, मत्स्य पालन और पशुपालन एवं डेयरी मंत्रालय, भारत सरकार, तटीय जलीय कृषि के लिए संभावित उम्मीदवार प्रजातियों के पालतुकण और प्रजनन कार्यक्रमों में शामिल इच्छुक और अनुभवी फर्मों/कंपनियों/संगठनों से स्वतंत्र रूप से या भारत के स्थानीय साझेदार के साथ संयुक्त उद्यम के माध्यम से एल. वननामेई के विशिष्ट रोगजनक-मुक्त (एसपीएफ) ब्रूड स्टॉक का उत्पादन करने के लिए मुखबंद प्रस्ताव आमंत्रित करता है। मानदंड, प्रस्तुत करने की आवश्यकता, उद्देश्य, कार्य का दायरा आदि का विवरण देने वाला ईओआई दस्तावेज वेबसाइट <http://dof.gov.in>, <http://https://nfdb.gov.in> और <https://caa.gov.in> से डाउनलोड किया जा सकता है।

अधिक जानकारी/प्रश्न, यदि कोई हों, तो **मत्स्य विकास आयुक्त, मत्स्य पालन विभाग**, मत्स्य पालन और पशुपालन एवं डेयरी मंत्रालय, भारत सरकार, कृषि भवन, डॉ. राजेंद्र प्रसाद रोड, केंद्रीय सचिवालय, नई दिल्ली-110001 से कार्यालय समय के दौरान टेलीफोन नंबर 91-23386379/ई-मेल: [fdc-india@dof.gov.in](mailto:fdc-india@dof.gov.in) पर प्राप्त किए जा सकते हैं।

**यह एक चलित ईओआई है।** नीचे दिए गए पते पर एक सीलबंद लिफाफा भेजें, जिसमें सभी प्रासंगिक दस्तावेजों के साथ प्रस्ताव शामिल हो। लिफाफे के ऊपर “भारत में एल. वननामेई के लिए न्यूक्लियस ब्रीडिंग सेंटर (एनबीसी) की स्थापना हेतु रुचि की अभिव्यक्ति” लिखकर भेजें।

**संयुक्त सचिव (समुद्री मत्स्य पालन)**  
मत्स्य पालन विभाग  
मत्स्य पालन और पशुपालन एवं डेयरी मंत्रालय  
भारत सरकार  
कृषि भवन, डॉ. राजेंद्र प्रसाद रोड, केंद्रीय सचिवालय, नई दिल्ली-110001

**मत्स्य विकास आयुक्त**  
मत्स्यपालन विभाग  
मत्स्य पालन और पशुपालन एवं डेयरी मंत्रालय, भारत सरकार,  
कमरा संख्या 242-सी, कृषि भवन, डॉ. राजेंद्र प्रसाद रोड, केंद्रीय सचिवालय, नई दिल्ली-110001

 भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान बरहमपुर		INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BERHAMPUR							
		Established by the Ministry of Education, Govt. of India							
[ Short advertisement for recruitment of faculty position on direct recruitment ]									
No.: IISERBPR/DOFA/2025/2		Opening date for submission of application: 0900 hrs. of 19.09. 2025					Dated :18.09.2025		
		Closing date of submission of application: 1700 hrs. of 20.10.2025							
		Crucial date for calculation of age/qualification/experience: 20.10.2025							
Indian Institute of Science Education and Research (IISER) Berhampur is a premier autonomous Institution of National Importance established by the Ministry of Education (MoE), Govt. of India (GoI) for promotion of high-quality science education and research in the country. IISER Berhampur was set up as the 7th IISER by Govt. of India in 2016 under NITSER Act, 2007. The Institute is having a sprawling scenic campus touching the seashore on east coast of Odisha.									
The Institute invites online applications from Indian Nationals including eligible Overseas Citizens of India (OCIs) as covered under the rules possessing excellent academic record and relevant work experience for vacant positions at the level of Professor, Associate Professor & Assistant Professor-Gr-1 in the following areas of specializations under the respective Departments:									
S. No.	Department	Position	Vacancy						Area of Specialization
			UR	OBC NCL	SC	ST	EWS	TOTAL	
1	Chemical Sciences	Assistant Professor	02	0	01	0	0	03	Electrochemistry, Materials Chemistry, Quantum Chemistry, Statistical Mechanics, Chemical reaction dynamics.
		Associate Professor	02	0	0	0	0	02	
2	Physical Sciences	Assistant Professor	02	01	01	0	0	04	Computational Physics, Astrophysics & Astronomy, Soft Condensed Matter Physics, Complex Systems & Non-Linear Dynamics, Experimental Condensed Matter Physics, Cosmology, Experimental High Energy Physics.
		Associate Professor	01	0	01	0	0	02	
		Professor	0	01**	0	0	0	01	
3	Biological Sciences	Assistant Professor	01	03	01	01**	01	07	Ecological Sciences, Plant Pathology, Structural Biology, Immunology, Cryo-electron tomography, Advanced MRI Methods, Microbiology, Proteomics, Biostatistics, Molecular Systems Biology, Neurobiology
		Associate Professor	0	01	0	01	0	02	
4	Mathematical Sciences	Assistant Professor	02	01	01	0	01	05	Probability Theory, Statistics, Dynamical Systems, Numerical PDE, Operation Research, Complex Analysis.
		Associate Professor	01	0	0	0	0	01	
5	Earth & Environmental Sciences	Assistant Professor	02	01	01	02	01	07	Geochemistry, Geophysics, Paleontology, Structural Geology, Petrology, Atmospheric Science, Climate Science.
		Associate Professor	0	01	0	0	0	01	
6	Computer Science	Assistant Professor	02	02	0	0	0	04	Systems Science, Theoretical Computer Science, AI-ML, Big Data Analytics, Cyber Security, Software Engineering, Quantum Computing, Neuromorphic Computing, Graph Theory/ Combinatorics
		Associate Professor	01	0	0	0	01	02	
7	Academic Affairs	Assistant Professor	01	0	0	0	0	01	English Literature/Linguistics.
TOTAL			17	11	06	04	04	42*	
* 03 (Three) positions horizontally reserved for PwBD persons with benchmark disabilities as per the applicable Act and Govt of India Instructions in suitable categories of disability as per the roster register as applicable in terms of the Govt of India Instructions.									
** One post of ST and one post of OBC(NCL) are carryforward backlog vacancy.									
The areas of specialization mentioned alongside each department will be given priority as per the current requirement of the Institute. Truly outstanding applications in other relevant areas may also be considered as decided by the Competent Authority.									
Note: Please visit Institute website <a href="http://www.iiserbpr.ac.in">www.iiserbpr.ac.in</a> for submission of application and full text of the advertisement for all other details regarding educational qualification, experiences and other eligibility criteria. The detail advertisement as posted on our website will regulate the recruitment of the above posts.									
Registrar									



GOVERNMENT OF INDIA  
MINISTRY OF FISHERIES, ANIMAL HUSBANDRY & DAIRYING,  
DEPARTMENT OF FISHERIES

**EOI No. DOF/EOI/NBC/01**

**Dt. XX.06.2025**

**Expression of Interest  
For  
"Establishing Nucleus Breeding Centres (NBC) In India"**

**September, 2025**

**Place: New Delhi**

**Date: XX.04.2025**

**Department of Fisheries**  
**Ministry of Fisheries, Animal Husbandry & Dairying**  
**Government of India**  
**Krishi Bhawan, Dr Rajendra Prasad Road, Central Secretariat, New Delhi-110001**

**INVITATION FOR EXPRESSION OF INTEREST**

Department of Fisheries, Ministry of Fisheries and Animal Husbandry & Dairying, Government of India invites sealed Proposals from interested and experienced firms/companies/organizations involved in domestication and breeding programmes of any potential candidate species for coastal aquaculture to produce Specific Pathogen-Free (SPF) Brood Stocks of *L. vannamei*, either independently or through a Joint Venture with the local partner from India. EOI document containing the details of criteria, submission requirement, objective, scope of work etc. can be downloaded from the website <http://dof.gov.in>.

Further details/queries, if any, may be obtained from **Fisheries Development Commissioner**, Department of Fisheries, Ministry of Fisheries and Animal Husbandry & Dairying, Government of India Krishi Bhawan, Dr Rajendra Prasad Road, Central Secretariat, New Delhi-110001. Telephone No.91-23386379/E-mail: [fdc-india@dof.gov.in](mailto:fdc-india@dof.gov.in) during working hours.

**This is a rolling EOI.** Sealed envelope marked to the below address, containing the proposal with all relevant documents may be submitted mentioning "Expression of Interest for establishing Nucleus Breeding Centres (NBC) for *L. vannamei* in India on the top of the envelope.

**The Joint Secretary (Marine Fisheries)**

Department of Fisheries

Ministry of Fisheries and Animal Husbandry & Dairying

Government of India

Krishi Bhawan, Dr Rajendra Prasad Rd, Central Secretariat, New Delhi-110001

**Fisheries Development Commissioner**

Department of Fisheries,

Ministry of Fisheries and Animal Husbandry & Dairying, Government of India,

Krishi Bhawan, Dr Rajendra Prasad Rd, Central Secretariat, New Delhi-110001

## 1. Objective

The Government of India aims to promote establishment of Nucleus Breeding Centres (NBCs) for development of genetically superior and disease-free broodstock for fish and shrimp species including *L. vannamei* in the country. This initiative is crucial for enhancing aquaculture production, ensuring sustainability, and supporting seafood exports and in line with ATMA NIRBHAR BHARAT. The program will encourage private sector participation to set up domestication and breeding programs to produce Specific Pathogen-Free (SPF) broodstock especially *L. Vannamei*. This effort aligns with the broader vision of improving India's self-sufficiency in aquaculture and reducing dependence on foreign imports.

## 2. Background and Rationale

- 2.1 India's seafood exports have been growing at an average rate of 15% annually, reaching an all-time high of USD 7.38 billion in 2023-24, a nearly 30% increase from 2020-21, with brackish water shrimp as the leading commodity. The country has an estimated 12.40 lakh hectares of potential brackish water for aquaculture, but only 15% is currently utilized, demonstrating significant untapped potential.
- 2.2 The demand for *L. vannamei* broodstock from the commercial hatcheries in India is currently estimated at 250,000 broodstock per annum. India's commercial hatcheries currently depend on imported broodstock, quarantined at the Aquatic Quarantine Facility (AQF) in Chennai, leading to higher costs and supply chain vulnerabilities. Three Broodstock Multiplication Centres (BMCs) are operational in India to supply *L. vannamei* shrimp broodstock, but domestic capacity needs further development. Ensuring biosecurity and disease-free broodstock is critical to maintaining a sustainable and profitable aquaculture industry.
- 2.3 In pursuance of Section 3 of the Coastal Aquaculture Authority Act, 2005 (24 of 2005), Guidelines for establishment and operation of Nucleus Breeding Centre and Broodstock Multiplication Centres in India has been notified in Gazette vide 15<sup>th</sup> March, 2024 of India by Department of Fisheries, Government of India
- 2.4 In the Union Budget 2024-25 Hon'ble Finance Minister announced financial support for setting up a network of Nucleus Breeding Centres. The proposed NBCs will focus on improving broodstock quality for key species, including *Litopenaeus vannamei*

## 3. Scope of Work & Project Goals

The establishment of NBCs will involve

- 3.1 Development of Genetically Superior Stocks: Creation of Specific Pathogen-Free (SPF) broodstock.
- 3.2 Selective Breeding Programs: Implementation of advanced genetic selection techniques to improve disease resistance, reproductive performance, and growth rates of broodstock
- 3.3 Private Sector Participation: Domestic and international firms with expertise in breeding programs are encouraged to participate independently or via joint ventures with Indian partners.

## 4. Eligibility Criteria: The CAA amendment rules provides for the followings:

- (i) The Nucleus Breeding Centres and Broodstock Multiplication Centres shall be established for increasing production and productivity of the coastal aquaculture sector in India by any

existing producers of specific pathogen free broodstock as well those involved in domestication and breeding programmes of any potential candidate species for coastal aquaculture either from India or from overseas either independently or through a joint venture with the local partner from the India.

(ii) An applicant organization possesses in the requisite experience and capabilities required for establishment and operation of Nucleus Breeding Centres or Broodstock Multiplication Centres may apply in Form-F-1 either individually (as sole organisation) or as lead partner of a consortium of organisations (as lead partner) as per the extant rules, regulations and procedure in force.

(3) The Applicants shall individually or collectively possess the following technical capacity and experience, namely:-

(i) have successfully designed and operated a Nucleus Breeding Centres or Broodstock Multiplication Centres for *Litopenaeus vannamei* or any such other fish or shrimp species which has developed and maintained a minimum of 5 generations; and

(ii) have successfully developed and managed a minimum of 50 families of *Litopenaeus vannamei* or any such other fish or shrimp species, through its own research and development activities, in the last ten years.

(4) The applicants must have been engaged in the establishment and operation of at least one Nucleus Breeding Centres or Broodstock Multiplication Centres assignment within the last five years preceding the date of application and submit details thereof.

(5) The Genetic Improvement Programs and Nucleus Breeding Centre under the Government shall be encouraged through Indian Council of Agricultural Research under the Department of Agricultural Research and Education on a convergence mode with the other Ministries and Department of Government of India including organization and other entities under them, the State or union territory Governments and private entrepreneurs,

## **5. Prior permission for establishing Nucleus Breeding Centres or Broodstock Multiplication Centres.-**

5.1. The prior permission for establishing the Nucleus Breeding Centres or Broodstock Multiplication Centres upon an application made under rule 11 of the said rules of CAA shall be granted by the Central Government in the Department of Fisheries, Ministry of Fisheries Animal Husbandry and Dairying, based on the recommendations of the following Project Screening Committee:

(i)	Joint Secretary (Marine Fisheries), Department of Fisheries	:	Chairperson/Chairman
(ii)	Secretary, Coastal Aquaculture Authority	:	Member
(iii)	Director, ICAR-National Bureau of Fish Genetic Resources	:	Member
(iv)	Director, Indian Council of Agricultural Research-Central Institute of Brackishwater Aquaculture	:	Member
(v)	Director, Indian Council of Agricultural Research - Central Marine Fisheries Research Institute	:	Member
(vi)	Representative from Department of Economic Affairs or Corporate Affairs	:	Member
(vii)	Project Director, Marine Product Export Development Authority - Rajiv Gandhi Centre for Aquaculture	:	Member

5.2 The application under rule, 11 of CAA amendment rules shall contain but not limited to the following, namely:

- (i) general background and overview of the individual firm or consortium,
- (ii) statement of qualification;
- (iii) understanding of the assignment and scope;
- (iv) work methodology;
- (v) detailed mile stones;
- (vi) domestic and international experience in design and operation of a Nucleus Breeding Centre or a breeding programme (if any);
- (vii) professional and local partners (if any);
- (viii) technical team strength,
- (ix) details of technology
- (x) valid certificates of freedom from disease from the competent authority of the Government issued in accordance with the World Organization for Animal Health Code, for the facilities operated by the applicants.

5.3. The Project Screening Committee shall be assisted by a Technical and Inspection Committee to be constituted by an order of the Central Government.

5.4. The Project Screening Committee shall scrutinize the applications received from time to time and subject project site for physical verification and on-site inspection by the Technical and Inspection Committee

5.5. The Technical and Inspection Committee shall conduct a physical verification and on-site inspection and submit its report on the suitability of the site proposed for establishment of Nucleus Breeding Centres or Broodstock Multiplication Centres before the concept presentation by the applicant.

5.6. The Project Screening Committee shall scrutinize the applications received from time to time and evaluate them through a concept presentation made by the applicant on the scheme of development covering the following aspects, namely:

- (i) brief background of the applicants and the details of Nucleus Breeding Centres or Broodstock Multiplication Centres being operated by the applicants, as well as experience, if any, of having provided services in any other project;
- (ii) conceptual plans of the project including preliminary lay out and site plan, floor plans, elevations, sections wherever necessary;
- (iii) indicative area allocation for the different zones of the Nucleus Breeding Centres or Broodstock Multiplication Centres,
- (iv) expected features and functionalities of the proposed Nucleus Breeding Centres or Broodstock Multiplication Centres;
- (v) preliminary cost estimates for the development of project;
- (vi) proposed selective breeding strategy that the applicant seeks to implement including physical growth, freedom from disease with disease tolerance characteristics and reproductive performance,
- (vii) analysis of the historical outcomes of the research & development undertaken by the applicants;

(viii) presentation of the Standard Operating Procedure and manuals to be prepared for the project by the applicants and the procedure to be adopted for developing distinct families with least inbreeding

(ix) advantages of the technology and bio-security being provided by the applicants and the rationale and benefits of such an approach.

5.7. The Project Screening Committee shall make its recommendation based on the report of the Technical and Inspection Committee and the concept presentation to the Department of Fisheries for grant of prior permission or otherwise by the competent authority to establish Nucleus Breeding Centres or Broodstock Multiplication Centres.

5.8. The decision of the competent authority shall be conveyed to the applicant within ninety days from the date of receipt of application.

**6. General requirements:-** (i) There shall be no aquaculture activities or Fish Landing Centres or any other source of direct contamination within a radius of 1000 meters (one kilometer) from the site selected for the establishment of the Nucleus Breeding Centres or the Broodstock Multiplication Centres

(ii) The Nucleus Breeding Centres and Broodstock Multiplication Centres shall be in separate locations and in case there is substantial cause, they may coexist within the same site with adequate physical separation and isolation from each other with independent water supply and discharge

(iii) There shall be adequate biosecurity measures to analyze and manage risks in the life and health of candidate species including associated environmental risk for the prevention of diseases in aquaculture.

(iv) The Nucleus Breeding Centres and Broodstock Multiplication Centres shall comply with the requirements for biosecurity, in-house biosecurity audit, in house health monitoring and disease surveillance and chain of custody sampling and testing as specified in the Guidelines for the Health Monitoring, Disease Surveillance and Specific Pathogen Free Certification of Coastal Aquaculture Units and Stocks in India and Aquatic Animal Health Code of World Organisation for Animal Health.

## **7. Application Submission & Evaluation Process**

7.1 Applications can be submitted individually or as Lead partner. The proposal must include company background, qualifications, methodology, technology details, and disease-free certification.

7.2 Shortlisted proponents must provide a 60 - minute presentation covering:

- Background and experience
- Presence in India and seed supply chain
- Available Germplasm, its origin and performance indicators
- Conceptual plans, layout, and site selection
- Selective breeding strategies and expected outcomes
- Biosecurity measures and technological advantages
- Projected economic benefits and scalability potential
- Training and skill development plans for NBC/ hatchery staff

7.3 The Project Screening Committee (PSC) constituted for this purpose will evaluate and recommend the potential applicants.

## 8. Support from Government of India:

8.1 The Government of India will provide support as follows:

### (i) Pradhan Mantri Matsya Sampada Yojana (PMMSY)

The Pradhan Mantri Matsya Sampada Yojana (PMMSY) has been implemented as an umbrella scheme provides for funding support for NBC under the sub component of Genetic Improvement Programmes and Nucleus Breeding Centers (NBCs):

### (ii) Fisheries and Aquaculture Infrastructure Development Fund (FIDF)

- (a) **Interest Subvention:** Up to 3% per annum for all EEs for development of identified fisheries-based infrastructure facilities including establishment of Nucleus Breeding Centres (NBCs) for development of genetically superior and disease-free broodstock for fish and shrimp species.
  - (b) **Lending Rate of Interest:** Not lower than 5% per annum for all EEs for development of identified fisheries based infrastructure facilities.
  - (c) **Repayment period:** 12 years with moratorium of 2 years for re-payment of principle amount.
  - (d) FIDF provides 25% credit guarantee facility to the projects of entrepreneurs, individual farmers and cooperatives to be approved under FIDF during the extended period of 3 years from 2023-24 to 2025-26 from the existing credit guarantee fund of Infrastructure Development Fund of Department of Animal Husbandry and Dairying.
- 8.2 The Department of Fisheries, Government of India, will also facilitate the allotment of suitable sites for the selected proponents through the State Governments concerned.
- 8.3 Research & Development Collaboration: The initiative will encourage R&D partnerships between the Government, private sector, and academic institutions. The Support of research institution in India in the field of Fisheries will also be extended on all possible areas of collaboration.

## 9. Conclusion

This initiative aims to boost India's aquaculture industry by ensuring high-quality, disease-resistant broodstock for shrimp and fish farming. The Government of India seeks participation from experienced firms, research institutions, and aquaculture specialists to establish NBCs and enhance domestic breeding programs. Interested applicants are encouraged to submit proposals as per the guidelines to contribute to India's expanding aquaculture sector and strengthen the country's global seafood market presence. This effort is expected to create a self-reliant, robust, and sustainable aquaculture ecosystem in India.

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### Form- F-1

#### Application for prior permission to establish Nucleus Breeding Centre or Broodstock Multiplication Centre

<b>I.</b>	<b>Name of the candidate species</b>	
<b>II.</b>	<b>Prior permission sought to establish Nucleus Breeding Centre or Broodstock Multiplication Centre</b>	
<b>III.</b>	<b>Details of the proposing firm or consortium:</b>	
1.	Name of the applicant (s) or firm (s) (Separate sheet may be attached for each member in case of consortium)	
2.	Address	
3.	Date of incorporation and registration details	
4.	Field of operation	
5.	Details of Board of Directors and Managing Director with copy of Memorandum of Association or Memorandum of Article	
6.	Certified a Audited financial statement of the firm for the last three years	
<b>IV.</b>	<b>Statement of qualification</b>	
1.	Number of years of experience in the operation of Nucleus Breeding Centre or Broodstock Multiplication Centre	
2.	Number of Nucleus Breeding Centre or Broodstock Multiplication Centre designed or operated, candidate species and Number of families developed and maintained in the last ten years (attach separate sheet)	
3.	Number of families developed and maintained through own research and development activities in the last ten years	
<b>V.</b>	<b>Details of source material:</b>	
1.	Name of the overseas Specific Pathogen Free Facility	
2.	Address (including email ID)	
3.	Details of the firm:	
4.	Country of registration	
5.	Location of the facility	
6.	Terms and conditions of agreement with the Indian firms	
7.	Details of extent of commercial supply of Specific Pathogen Free broodstock	
8.	Details of any other Nucleus Breeding Centre or Broodstock Multiplication Centre operated in anyother country	
9.	Reproductive performance of Specific Pathogen Free broodstock of the firm in terms of Size at maturity, latency period for maturation, fecundity, Number of spawning per female, hatching rate and survival rate at different stages	
10.	Performance of the stock in commercial culture for growth and disease	
11.	Copy of the Memorandum of Understanding or agreement indicating a firm commitment for the supply of source material as per the requirement is to be enclosed.	
<b>VI</b>	<b>Detailed infrastructure and personnel of overseas Specific Pathogen Free facility</b>	
1.	Lay-out plan of the Specific Pathogen Free facility (attach diagram with explanation)	
2.	Water treatment and supply	
3.	Rearing facilities	
4.	Laboratory facilities	
5.	Biosecurity (disinfection protocol, shower room, fencing, etc.)	
6.	Number of technical staff and details of their expertise (Attach biodata)	
7.	Financial status for last three years alongwith audited statement	
<b>VII</b>	<b>Disease surveillance at the Specific Pathogen Free facility</b>	

1.	List of pathogens excluded in the facility	
2.	Methodology followed for the diagnosis (or diagnostic protocols followed)	
3.	Certificate (issued by Government) of disease free nature of the facility for the last two years to be enclosed	
4.	Frequency of surveillance	
5.	Details of the diagnostic reports during the recent surveillance from a Government authorised or World Organisation for Animal Health referral laboratory	
<b>VIII.</b>	<b>Details of selective breeding programme</b>	
1.	Source of Founder population (Number of geographic location or number of Specific Pathogen Free facilities sourced)	
2.	Genetic divergence of the population (Number of families from each location or each Specific Pathogen Free facility).	
3.	Frequency of introduction of further families into founder population	
4.	Type of selection programme followed	
5.	Number of lines and Number of families maintained	
6.	Number of generations raised	
7.	Minimum effective population size over the generations	
8.	Traits considered for selection	
9.	Genetic gain over the generations	
10.	Name and brief bio-data of the geneticist involved in drafting the breeding plan	
11.	Breeding plan indicating the specific details to avoid inbreeding	
<b>IX</b>	<b>Details of Indian Broodstock Multiplication Centre facility</b>	
1.	Annual capacity proposed (Number of broodstock per year)	
2.	Requirements of Specific Pathogen Free Post Larvae and the frequency of import	
3.	Number of months of rearing proposed	
4.	Survival anticipated during rearing from Post Larvae to broodstock	
<b>X.</b>	<b>Infrastructure facilities proposed</b>	
1.	Land area	
2.	Location	
3.	Whether any existing facility is being remodeled as Broodstock Multiplication Centre? If so, indicate its prior use and the present condition	
4.	Distance between the nearest hatchery or farm	
5.	Lay-out plan of the posed facility indicating the quarantine, water intake and treatment, rearing tanks under closed conditions, biosecurity features, Effluent Treatment System, etc., indicate the capacity and number of tanks (attach diagram with explanation)	
6.	Details of the diagnostic laboratory facility	
7.	Brief cost estimates and source of funding	
8.	Technical staff proposed to be involved in the operation of Broodstock Multiplication Centre and their brief bio-data indicating their area of expertise	
9.	List of pathogens proposed to be tested in the Broodstock Multiplication Centre and the surveillance protocol to be followed	
10.	Sampling details	
11.	Frequency of sampling and testing	
<b>XI.</b>	<b>Any other particulars or details</b>	

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**Department of Fisheries,**  
**Ministry of Fisheries, Animal Husbandry & Dairying, Government of India**  
**Krishi Bhawan, Dr Rajendra Prasad Road, Central Secretariat, New Delhi-110001**

**INVITATION FOR EXPRESSION OF INTEREST**

Department of Fisheries, Ministry of Fisheries and Animal Husbandry & Dairying, Government of India invites sealed Proposals from interested and experienced firms/companies/organizations involved in domestication and breeding programmes of potential candidate species for coastal aquaculture to produce Specific Pathogen-Free (SPF) Brood Stocks of *L. vannamei*, either independently or through a Joint Venture with the local partner from India. EOI document containing the details of criteria, submission requirement, objective, scope of work etc. can be downloaded from the website <http://dof.gov.in> or <https://nfdb.gov.in>

Further details/queries, if any, may be obtained from **Fisheries Development Commissioner**, Department of Fisheries, Ministry of Fisheries and Animal Husbandry & Dairying, Government of India Krishi Bhawan, Dr Rajendra Prasad Road, Central Secretariat, New Delhi-110001. Telephone No.91-23386379/ E-mail: [fdc-india@dof.gov.in](mailto:fdc-india@dof.gov.in) during working hours.

**This is a rolling EOI.** Sealed envelope marked to the below address, containing the proposal with all relevant documents may be submitted mentioning "Expression of Interest for establishing Nucleus Breeding Centres (NBC) for *L. vannamei* in India on the top of the envelope.

**The Joint Secretary (Marine Fisheries)**

Department of Fisheries

Ministry of Fisheries and Animal Husbandry & Dairying

Government of India

Krishi Bhawan, Dr Rajendra Prasad Rd, Central Secretariat, New Delhi-110001

**Fisheries Development Commissioner**

Department of Fisheries,

Ministry of Fisheries and Animal Husbandry & Dairying, Government of India,

Room No.242-C, Krishi Bhawan, Dr Rajendra Prasad Rd, Central Secretariat, New Delhi-110001