



सत्यमेव जयते

GOVERNMENT OF INDIA

MINISTRY OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING

DEPARTMENT OF FISHERIES

**CENTRAL INSTITUTE OF COASTAL ENGINEERING FOR FISHERY
ANNUAL REPORT 2020-21**

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P R E F A C E

The Central Institute of Coastal Engineering for Fishery (CICEF), Bengaluru, a subordinate office of the Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India is vested with the responsibility of undertaking techno-economic feasibility studies and preparation of project reports for the development of fishery harbours in the country. The Annual Report contains information on Administration, Finance and Technical activities of the Institute.

This Annual Report highlights the important activities and achievements accomplished by the Institute during the financial year 2020-21.

1.0 CICEF – An Overview

1.1 Introduction

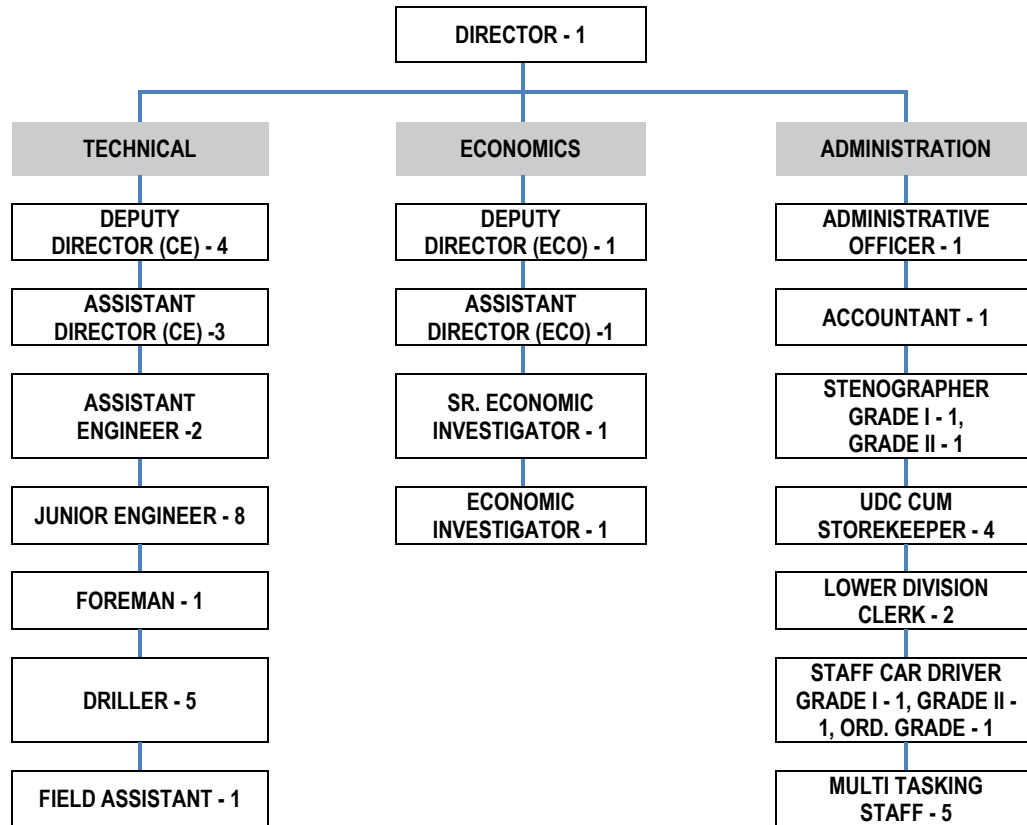
The Institute was established in January 1968 as Pre-investment Survey of Fishing Harbours (PISFH) by the Ministry of Agriculture, Government of India in collaboration with Food and Agriculture Organisation of the United Nations (FAO/UN). The primary objective of establishing the Institute was to carry out engineering and economic investigations and prepare techno-economic feasibility reports for the development of fishery harbours at suitable sites along the Indian coast to provide fishery harbour facilities to Mechanized Fishing Vessels (MFVs). After the cessation of the FAO/UN assistance, the Institute received technical assistance in the form of equipment and expert consultancy services from Swedish International Development Agency (SIDA) for a period of 2 years from January 1974. In August 1983, it was renamed as Central Institute of Coastal Engineering for Fishery (CICEF). Technical expertise was further developed in the subsequent years and from August 1983, the Institute is also catering to the requirements of Aquaculture Engineering for development of Coastal Aquaculture Farms along the Indian coast. The Institute received UNDP/FAO assistance in the form of equipment and consultants from 1986 to 1991 for the development of coastal aquaculture farms.

1.2 Organisation

The Institute is headed by the Director and the total sanctioned strength of officers and staff is 47 comprising technical and administrative personnel. The break-up of the posts is as follows:

Group	Non-Plan	
	Technical	Non-Technical
A	10	-
B (Gazetted)	03	01
B (Non-Gazetted)	09	02
C	07	15
Total	29	18

An inter-disciplinary team comprising Engineers and Economists who have specialised knowledge and vast experience on field, in conducting necessary pre-investment studies to identify sites for development of Fishery Harbours, Fish Landing Centres and Brackish water Shrimp Farms, preparation of techno-economic feasibility reports, detailed construction plans for the projects and other supporting facilities are on roll of this Institute. The Organisation Chart of the Institute is as shown below.



1.3 Mandate

The Objectives of the Institute in respect of development of fishery harbours/fish landing centres, coastal aquaculture farms and hatcheries are as below:

1.3.1 Fishery Harbours

- To carry out reconnaissance surveys/pre-feasibility studies to identify priority sites for development of fishery harbours, follow it up by detailed engineering and economic investigations and prepare techno-economic feasibility reports.
- To prepare preliminary construction plans and supporting facilities etc., for fishery harbours.
- To give technical advice on engineering and economic aspects wherever required for the development of fishery harbours and fish landing centres.
- To monitor the progress of construction of ongoing fishery harbours and fish landing centres sanctioned under the Centrally Sponsored Scheme in association with the Ministry of Fisheries, Animal Husbandry and Dairying.

1.3.2 Coastal Aquaculture Farms and Hatcheries

- To conduct economic and engineering investigations, prepare suitable designs for farms and prepare techno-economic feasibility reports.

2.0 Achievements of the Institute

The Institute, till end of March 2021 has carried out investigations at 104 sites and prepared project reports for 121 (including revised) for the development of Fishery Harbours/Fish Landing Centres.

During UNDP/FAO assistance, four pilot brackish water shrimp farms and one shrimp seed hatchery were developed. Under the World Bank assisted Shrimp Culture Project, the Institute carried out survey and sub-soil Investigations at 13 sites covering a total area of 9640 ha. Techno-economic feasibility reports were prepared in respect of 10 sites covering a total productive pond area of 3826 ha. Trial culture operations were carried out at Digha, Canning and Dighirpar in West Bengal and Bhairavapalem in Andhra Pradesh.



Map showing fishery harbour sites investigated by CICEF

2.1 Achievements during 2020-21

2.1.1 Techno-Economic Feasibility Reports (TEFRs)

Astarang (Nuagarh) Fishery Harbour Stage – II in Odisha

- Conducted detailed engineering investigations.
- Cost of the project was estimated as Rs. 82.86 Crores as per the Odisha SoR yielding an Internal Rate of Return (IRR) worked out as 24.66 %.
- TEFR was issued in March, 2021.

Salient features of the Project

Design fleet size

Sl. No.	Size and type of fishing boat	Number
1.	9.0 m motorised craft	1,628
2.	15.0 m trawler	268
3.	12.0 m Purse seiner	64
Total		1,960

Proposed waterside facilities

- RCC piled quay for MFVs
- Beach landing facility for motorised crafts
- Revetment with stone pitching
- RC Sloping hard
- Navigational aids

Proposed landside facilities

- Reclamation to +3.60 m to house the landside facilities
- Auction Halls for MFVs and motorised crafts
- Fish loading area
- Internal road network
- Vehicle parking area
- Boat parking/repair yards
- Fishery administrative office
- Fishing gear sheds
- Net mending sheds
- Fishermen rest sheds
- Boat repair shop
- Fish merchants dormitory
- Restaurant
- Public toilet
- Radio communication centre
- Fresh water supply and distribution system
- Provision of solid, liquid and toxic waste disposal systems including drainage, sewerage treatment facilities, bilge oil separators, spent oil reception sheds, toxic waste collection sheds, effluent treatment plant etc.
- Internal electrical supply and distribution system including electric substation, high mast lights, street lighting etc.
- Fishery harbour security in the form of raised compound wall, security house etc.
- Vacant plots in the harbour complex for shops/allied fishery industries in the civic amenity areas etc.
- Greeneries and landscaping
- Fire extinguishers and
- Improvements to the existing facilities

2.1.2 Pre-feasibility study

- a. Conducted Pre-Feasibility Studies (phase 2) at 17 sites in Raigad district of Maharashtra for identifying suitable locations for development of fishery

harbours and fish landing centres and issued Pre-Feasibility Study report with the following recommendations:

District	Name of the site	Recommendation
Raigad	Ekdara	Fish landing centre
	Theronda	Fish landing centre
	Varsoli	Fish landing centre
	Navedar-Navgaon	Fish landing centre
	Vashini-Dadar	Fish landing centre
	Kelvane	Fish landing centre
	Aware	Fish landing centre
	Dighode	Fish landing centre
	Surkichipada	Fish landing centre
	Danda	Fish landing centre
	Mora	Fish landing centre
	Hanuman Koliwada	Fish landing centre
	Gavan	Fish landing centre
	Nhava	Fish landing centre
	Kopar-Shivajinagar	Fish landing centre
	Morave	Fish landing centre
	Ulwe-Moha	Fish landing centre

- b. Conducted Pre-Feasibility Studies (phase 2) at the following 25 sites spread across the other three coastal districts viz. Thane, Mumbai Sub-urban and Palghar of Maharashtra:

District	Name of the site
Thane	Ghansoli
	Bhate Bandar
	Devtalav
	Uttan Pali
	Dongri Ladoba
	RNP Park Koliwada
	Vandre (Chimbai)
Mumbai Suburban	Khar
	Patilpada
	Varinipada
	Marve
	Erangal Bhati
	Manori
	Gorai
Palghar	Dahanu
	Ucheli-Dandi
	Murbe
	Satpati
	Tembhi
	Naigoan
	Arnala
	Navapur
	Rangoan
	Vasai
	Kochiwade

- c. Conducted Pre-Feasibility Studies at the following 3 sites in Andaman and Nicobar Islands for identifying suitable locations for development of fishery harbours and fish landing centres:

District	Name of the site	Recommendation
South Andaman	Junglighat	Fishery harbour
Middle Andaman	Betapur	Not recommended
	Rangat bay	Not recommended

2.1.3 Economic Feasibility Reports

- Prepared and issued economic evaluation report for Kazhuveli waters fish landing centre in Villupuram and Kancheepuram districts of Tamil Nadu.
- Prepared and issued economic evaluation report for Mudasalodai and Portonovo fish landing centres in Cuddalore district of Tamil Nadu.
- Prepared and issued economic evaluation reports for Bahabalpur fishery harbour in Balasore district and Chudamani fishing harbour in Bhadrak district of Odisha.

2.1.4 Technical Comments and Appraisals

- Scrutinised project cost estimate of Arcottuthurai fishery harbour in Nagapattinam district in Tamil Nadu under FIDF scheme and submitted technical comments to NFDB.
- Scrutinised project cost estimate of Kazhuveli waters fish landing centre in Villupuram and Kancheepuram districts of Tamil Nadu under FIDF scheme and submitted technical comments to NFDB.
- Technical comments for providing additional infrastructure facilities at Thengaipattinam fishery harbour at Kanyakumari district in Tamil Nadu under FIDF scheme.
- Scrutinised structural drawings for construction of Manchineellapeta fish landing centre in Srikakulam district of Andhra Pradesh.
- Scrutinised project cost estimate of 19 fishery harbour and fish landing centre proposals in West Bengal and submitted technical comments to NFDB.
- Issued revised layout and TEFR for Chandipur Fishery Harbour in Balasore district of Odisha.
- Scrutinised revised project cost estimates of Bahabalpur fishery harbour in Balasore district and Chudamani fishing harbour in Bhadrak district of Odisha and submitted technical comments to NFDB.
- Scrutinised project cost estimate of Kalupada and Sorana fish landing centres in Khurdha district and Kasia fish landing centre in Bhadrak district of Odisha and submitted technical comments to NFDB.
- Scrutinised project cost estimate of Namkhana fishery harbour in West Bengal and submitted technical comments to NFDB.
- Scrutinised project cost estimate of Thoppumpady fishery harbour in Kochi district of Kerala under PMMSY scheme and submitted technical comments to NFDB.

- Scrutinised project cost estimate of Arthungal fishery harbour in Allapuzha district of Kerala under FIDF scheme and submitted technical comments to NFDB.
- Scrutinised project cost estimates of Veraval Stage – II, Porbander Stage-II, Madhwad, Navabunder and Sutrapada fishery harbours in Gujarat under FIDF scheme and submitted technical comments to NFDB.
- Scrutinised project proposals of following 4 fishery harbours and 20 fish landing centres in Maharashtra under PMMSY and submitted technical comments to NFDB.

District	Name of the site	Recommendation
Sindhudurg	Shiroda	Fish landing centre
	Karli	Fish landing centre
	Devali	Fish landing centre
	Devbag	Fish landing centre
	Dandi Makrebagh	Fish landing centre
	Taramumbri	Fish landing centre
Ratnagiri	Sakharinate	Fishery harbour
	Ambolgad	Fish landing centre
	Hedavi Hedavithad	Fish landing centre
	Budhal	Fish landing centre
	Palshet	Fish landing centre
	Asgoli	Fish landing centre
	Dabhol	Fish landing centre
	Harnai	Fishery harbour
	Pajpandhari	Fish landing centre
	Anjarle	Fish landing centre
	Kelashi	Fish landing centre
	Vaishavi Bankot	Fish landing centre
Raigad	Jeevana	Fishery harbour
	Bharadkhol	Fishery harbour
	Adgaon Koliwada	Fish landing centre
	Korlai	Fish landing centre
	Revdanda	Fish landing centre
	Agrav	Fish landing centre

2.1.5 Project Monitoring/ Third party inspection of on-going projects.

- 3rd party inspection of all ongoing fishery related works in Dakshina Kannada, and Udupi districts of Karnataka.

2.1.6 Field visit to Fishery Harbours and Fish Landing Centres

- Visited 42 fishery sites in connection with prefeasibility study for locating fish landing centres/ fishery harbours spread across the four coastal districts viz. Raigad, Thane, Mumbai Sub-urban and Palghar in Maharashtra.
- Visited 3 fishery sites in connection with prefeasibility study for locating fish landing centres/ fishery harbours spread across in South and Middle Andaman districts of Andaman and Nicobar Islands.

3.0 Conference, Workshop and Training

- Officials participated in on-line training course on “Coastal Erosion and Sustainable measures” conducted by CWPRS Pune during 3-4th November 2020.
- Participated virtually in World Fishery Day Celebration at New Delhi on 21st November 2020.

4.0 Meetings

The following virtual meetings were attended by Director and Officers of CICEF.

- PMMSY guidelines, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 15th June, 2020.
- FIDF projects, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries, with officers of NFDB, Maritime States and Heads of other Institutes on 9th June, 2020.
- PMMSY guidelines, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 23rd July, 2020.
- Meeting of the 7th Central Apex Monitoring Committee (CAMC) of FIDF projects with NFDB, Hyderabad on 13th August, 2020.
- CICEF Activities, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 29th August, 2020.
- Sanctioning of projects under PMSSY, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries and NFDB, Hyderabad on 24th September, 2020.
- Infrastructure development under Sagarmala scheme with Secretary (Fisheries), Department of Fisheries, New Delhi, Officers of Ministry of Shipping, Heads of ports and concerned State officers on 11th November, 2020.
- Environmental Impact Assessment (EIA) clearance on Chandipur fishery harbour project with EIA committee members and Odisha State Engineers on 18th November, 2020.
- Review of CICEF Activities under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 17th December, 2020.
- Meeting of Project Appraisal Committee (PAC) for Odisha and Maharashtra projects with NFDB, Hyderabad and concerned State Officers on 10th February, 2021.

- Expenditure Status under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 3rd March, 2021.

5.0 Visitors

The officers from the Ministry of Fisheries, Animal Husbandry and Dairying, Government of India and Maritime States/UTs, who visited this Institute for discussions, inspections, meetings etc., are given below:

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

- Dr. Ch.Suvarna, I.F.S along with Shri Arul Bosco, Executive Director, NFDB, Hyderabad, visited for discussion on funding of projects under NFDB on 19th February, 2021.

Government of Tamil Nadu

- Engineers from State Fisheries Department visited in connection with development of fishery harbour projects proposed under FIDF.

Government of Andhra Pradesh

- Engineers from State Fisheries Department visited in connection with development of fish Landing Centre at Manchineellapeta fish landing centre in Srikakulam District of Andhra Pradesh.

Others

- Engineers from M/s. Pooja Associates, Pune, in connection with prefeasibility studies for identifying suitable locations for development of fishing harbours and fish landing centres in Maharashtra.

6.0 Publications

Annual Report 2019-20

7.0 Administration and Finance

7.1 Budget Expenditure

Against Budget Estimate (BE) of Rs 556.75 lakhs and Revised Estimate (RE) of Rs.396 lakhs under Non Plan, an expenditure of Rs 380.36 lakhs have been incurred during the fiscal year 2020-21.

7.2 Promotion

- Shri Suresha, U.D.C was promoted to the post of Accountant w.e.f. 01st February, 2021.

7.3 Retirement / Deputation/ Resignation

- Shri P.N. Achutha Prasad, Accountant retired from service on superannuation on 30th April, 2020.

- Shri Dinesh Kumar Soni, Senior Economic Investigator, went on Deputation to “Registrar-General of India, Census Operations, Uttarakhand. on 12th June, 2020.
- Shri Manoj Kumar Gupta, Upper Division Clerk, went on Deputation to “Ganga Flood Control and Rejuvenation Project”, Patna on 12th June, 2020.

7.4 Implementation of Modified Assured Career Progression Scheme (MACPS)

A Departmental Screening Committee was constituted to consider the cases for the grant of financial up-gradation under MACPS to staff of this Institute.

The Committee held its meetings on 12th July and 3rd January, 2021, considered and cleared the following cases for the grant of financial up-gradation:

1. Shri Shivashankar Hedge, Driller
2. Shri J. Rajesh, Driller

7.5 Vigilance Awareness Week

In pursuance of the direction of Central Vigilance Commission (CVC), New Delhi, Vigilance Awareness Week, 2020 has been observed from 27th October to 2nd November, 2020 with the theme “**Vigilant India, Prosperous India**”. Following activities were carried out during the week.

- i. The Vigilance Awareness Week Integrity Pledge was administered by the Director, CICEF to all the officers & Staff.
- ii. The Officers & Staff were encouraged to take Integrity Pledge available on CVC and other government websites; those who took pledge were advised to record it through website.
- iii. The banner of Vigilance Awareness Week was displayed at the entrance of Institute and in the conference hall for the entire week.
- iv. To bring about transparency in the activities of Vigilance, a notice board has been created at ground floor of the building to enable display of all important communication relating to Vigilance activities.
- v. An interactive session on the theme “**Vigilant India, Prosperous India**” was organized. The session was found informative and beneficial.
- vi. All the officials were made aware of the good Governance Standards.

7.6 Events

- Celebrated / Observed International Yoga day on 21st June, 2020.

- 74nd Independence Day on 15th August, 2020 and 70th Republic Day on 26th January, 2021 were celebrated in the Institute with patriotic fervour.

8.0 Implementation of Official Language/Hindi Teaching Scheme

As per the guidelines issued by the Government of India, various activities concerning the implementation of Official Language were carried out at the Institute.

An Official Language Implementation Committee was constituted with the following members. The committee periodically met and reviewed the progressive use of Hindi in official correspondence.

S/Shri N. Venkatesh Prasad, Director	Chairman
N.Ravi Sankar, Deputy Director (CE)	Member
M.B.Belliappa, Deputy Director (CE)	Member
N.K.Patra, Deputy Director (Economist)	Member

The Institute celebrated Hindi Divas on 14th September 2020 and Hindi fortnight between 14th and 25th September, 2020.

9.0 Library

The Institute is having a library with collection of several technical, economics and administration books/journals. 5 nos. of books were added newly to the collection in this year.

10.0 Implementation of Right to Information (RTI) Act

The Institute received 23 number of applications under RTI Act during the year and information supplied.

11.0 Welfare of Employees

- A farewell was organised to Shri P.N. Achutha Prasad, Accountant on 30th April, 2020 on his retirement from service on superannuation.

12.0 Photos



Pre-Feasibility studies Phase-2 in Maharashtra



Pre-Feasibility studies in Andaman and Nicobar Islands