Editorial Assistance
Pawan Kumar, Administrative Officer
R.S. Muralidhar, Junior Engineer
Dinesh Kumar Soni, Senior Economic Investigator

Compilation & Editing by
N.Ravi Sankar
Deputy Director (Civil Engineering)

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N. Venkatesh Prasad
Director
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PREFACE

The Central Institute of Coastal Engineering for Fishery (CICEF), Bangalore, a subordinate office of the Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture and farmer welfare, 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 2017-18.
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:

<table>
<thead>
<tr>
<th>Group</th>
<th>Technical</th>
<th>Non-Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>B (Gazetted)</td>
<td>03</td>
<td>01</td>
</tr>
<tr>
<td>B (Non-Gazetted)</td>
<td>09</td>
<td>02</td>
</tr>
<tr>
<td>C</td>
<td>07</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>29</td>
<td>18</td>
</tr>
</tbody>
</table>

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 Agriculture.

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 2018 has carried out investigations at 103 sites (including resurveyed) and prepared project reports for 115 (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.

2.1 Achievements during 2017-18

2.1.1 Engineering & Economic Investigations

I Gopalpur Fishery Harbour in Odisha
- Conducted detailed engineering and economic investigations in February 2018.

II Nuagarh (Atarang) Fishery Harbour in Odisha
- Conducted detailed engineering investigations in February- March 2018
2.1.2 Techno-Economic Feasibility Reports (TEFRs)

1. Versova fishery harbour in Maharashtra

- Conducted detailed engineering and economic investigations.
- Cost of the project was estimated as Rs.318.99 Crores and the FIRR of the project worked out as 12.38%.
- TEFR was issued in April 2017.

Salient features of the Project

Design fleet size

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Size and type of fishing boat</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>11m Bag net / Gill net</td>
<td>400</td>
</tr>
<tr>
<td>2.</td>
<td>11m Trawler</td>
<td>170</td>
</tr>
<tr>
<td>3.</td>
<td>14m Trawler</td>
<td>290</td>
</tr>
<tr>
<td>4.</td>
<td>17m Trawler</td>
<td>40</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>900</strong></td>
</tr>
</tbody>
</table>

Proposed waterside facilities

- Reclamation to +5.50 m to house the landside facilities
- RCC Quay
- Breakwater
- Revetment with stone pitching
- Navigational aids

Proposed landside facilities

- Fish handling and auction hall
- Internal CC & asphalted roads and WBM surfaces
- RC sloping hard for MFVs
- Fish drying platform
- Net mending shed
- Fishermen rest shed
- Public toilet
- Security/guard house
- Compound wall
- Water supply, sewerage including effluent treatment plant, electrical power supply, greenery, fire protection etc.

2. Manchineelapeta fish landing centre in Andhra Pradesh

- Conducted detailed engineering and economic investigations.
- Cost of the project was estimated as Rs.7.93 Crores as per the SoR 2016-17 and the FIRR of the project worked out as 20.73%.
• TEFR was issued in April 2017.

Salient features of the Project
Design fleet size

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Size and type of fishing boat</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>8.5 metre, multi net</td>
<td>100</td>
</tr>
</tbody>
</table>

Total 100

Proposed facilities
• Reclamation up to a level of +3.0 m
• Beach landing facilities for 100 m FRP boats.
• Loading area and vehicle parking, pave surface.
• Multipurpose hall
• Guard house, electricity, water supply, Drainage and sewerage etc.

3. Rallapeta fish landing centre in Andhra Pradesh
• Conducted detailed engineering and economic investigations.
• Cost of the project was estimated as Rs.6.04 Crores as per the SoR 2016-17 and the FIRR of the project worked out as 19.95 %.
• TEFR was issued in April 2017.

Salient features of the Project
Design fleet size

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Size and type of fishing boat</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>8.5 metre, multi net</td>
<td>100</td>
</tr>
</tbody>
</table>

Total 100

Proposed facilities
• Reclamation up to a level of +3.0 m
• Beach landing facilities for 100 m FRP boats.
• Loading area and vehicle parking, pave surface.
• Multipurpose hall
• Guard house, electricity, water supply, Drainage and sewerage etc.

4. Kundthukal fish landing centre in Tamil Nadu
• TEFR was prepared based on the data/details provided by the State Government.
• Cost of the project was estimated as Rs.70.47 Crores as per the SoR 2017-18 and the FIRR of the project worked out as 30 -31 %.
• TEFR was issued in November 2017.

Salient features of the Project
Design fleet size

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Size and type of fishing boat</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>10.0 m Motorised crafts (FRP)</td>
<td>100</td>
</tr>
<tr>
<td>2.</td>
<td>20.0m (Tuna Long Line)</td>
<td>575</td>
</tr>
</tbody>
</table>

Proposed waterside facilities
- Reclamation to +2.00 m to house the landside facilities
- Quay
- Revetment with stone pitching
- Navigational aids

Proposed landside facilities
- Fish handling and auction hall
- Fishery administrative office
- Net mending shed
- Fishermen rest shed
- Boat Repair Shop
- Public toilet
- Internal asphalted road
- Parking areas for vehicles
- Boat parking/ Repair Yard
- Radio-communication tower
- Restaurant
- Security/guard house
- Compound wall
- Water supply, sewerage including effluent treatment plant, electrical power supply, greenery, fire protection etc.

5. Uppunda Madikal fishery harbour in Karnataka

- TEFR was prepared based on the data/details provided by the State Government.
- Cost of the project was estimated as Rs.107 Crores as per the SoR 2016-17 and the FIRR of the project worked out as 17-18 %.
- TEFR was issued in February 2018.

Salient features of the Project

Design fleet size

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Size and type of fishing boat</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>12.0m multi netter trawler</td>
<td>400</td>
</tr>
<tr>
<td>2.</td>
<td>14.0m Purse seiner</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>700</strong></td>
</tr>
</tbody>
</table>

Proposed waterside facilities
- RCC Quay
- Breakwater
- Revetment with stone pitching
- Navigational aids

**Proposed landside facilities**
- Fish handling and auction hall
- Internal CC & asphalted roads and WBM surfaces
- Net mending shed
- Fishermen rest shed
- Public toilet
- Security/guard house
- Compound wall
- Water supply, sewerage including effluent treatment plant, electrical power supply, greenery, fire protection etc.

### 2.1.3 Pre-Feasibility Reports

#### I. Deep Sea Fishery Harbours in Andaman and Nicobar Islands

- **Jungli Ghat**
  - Site is located on the east coast of South Andaman group of Islands within Port Blair.
  - Pre-feasibility study was conducted during March 2016 and report issued in May 2017.

- **Campbell Bay**
  - Site is located on the southern side of Campbell Bay and situated on the east coast of Great Nicobar Island and at 480 km south of Port Blair.
  - Pre-feasibility study was conducted during March 2016 and report issued in May 2017.

### 2.1.4 Technical Comments and Appraisals

- Scrutinised and submitted comments including assisting in revising fishery harbour layouts on the development of fishery harbours at Porbandar Stage II and Sutrapada in Gujarat, prepared by the consultants M/s. EGIS.

- Scrutinised and submitted comments including assisting in revising fishery harbour layout on the development of fishery harbour at Vasco bay in Goa, prepared by the consultants M/s. Aarvee Associates.

- Scrutinised and submitted comments on the estimates of the fishery harbour projects at Veraval Stage II, Porbandar Stage II in Gujarat, Vasco bay in Goa and Karanja in Maharashtra.

- Assisted Maharashtra Fisheries Development Corporation (MFDC), Mumbai in scrutiny of revised proposal by the consultants on Sassoon Dock Modernisation project.
2.1.5 Project Monitoring/ Third party inspection of on-going projects

a) Project Monitoring

The Institute undertook project monitoring visits for the ongoing fishery harbour site at Mookaiyur in Tamil Nadu.

b) Third party inspection of on-going projects

The following on-going project sites visited for Monitoring/Third party inspection.

<table>
<thead>
<tr>
<th>State</th>
<th>Division/Sub-Division</th>
<th>Name of FH/FLCs</th>
<th>Name of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karnataka</td>
<td>Udupi</td>
<td>i. Shiroor Alivegadde</td>
<td>Construction of Guide Bund &amp; Net-mending Shed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ii. Maravanthe</td>
<td>Construction of Breakwater</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iii. Koderi</td>
<td>Construction of Fish landing centre</td>
</tr>
<tr>
<td></td>
<td></td>
<td>iv. Malpe 3rd Stage</td>
<td>Construction of 3rd stage FH (Slipway)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>v. Hangarkatte</td>
<td>Construction of Jetty</td>
</tr>
<tr>
<td></td>
<td></td>
<td>vi. Kodi Kundapur</td>
<td>Construction of Jetty</td>
</tr>
<tr>
<td>Mangalore</td>
<td>vii. Mangalore 3rd Stage</td>
<td>Construction of Gear Shed, Net-mending Shed, Quay and Restaurant</td>
<td></td>
</tr>
<tr>
<td>Karwar</td>
<td>viii. Hegade Ambigarkeri</td>
<td>Construction of Jetty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ix. Belekeri</td>
<td>Construction of Jetty and Training wall</td>
<td></td>
</tr>
<tr>
<td></td>
<td>x. Harwada</td>
<td>Construction of Jetty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>xi. Amadalli</td>
<td>Improvement works i.e. Road, Drain, Flooring, and Roofing etc.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>xii. Kimani</td>
<td>Construction of Jetty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>xiii. Bhatkal</td>
<td>Extension of B. W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>xiv. Alvekodi</td>
<td>Construction of Jetty</td>
<td></td>
</tr>
</tbody>
</table>

2.1.6 Field visit to Fishery Harbours and Fish Landing Centres

- Visited proposed fishery harbour sites Mangrol Stage III, Porbandar Stage II, Veraval Stage II and fish landing site at Bhadreswar in Gujarat during April 2017.
- Visited Puducherry and inspected Karaikal fishery harbours along with Joint Commissioner (Fisheries) DADF and to review harbour projects being implemented in Puducherry.
- Visited Mookaiyur fishery harbour under construction in Tamil Nadu.
- Visited Vasco Bay fishery harbour site along with officials from Mormugao Port Trust and Director of Fisheries, Goa.
- Visits to fisheries infrastructure works in Dakshina Kannada and Udupi districts of Karnataka during April 2017.
- Visited existing fishery harbours in all the maritime states and collected data on post-harvest infrastructure facilities in marine fisheries sector.

2.1.7 Reconnaissance Survey

- Kundthukal fish landing centre in Ramanathapuram district of Tamil Nadu.
• Visits to proposed marine infrastructure projects from Nellore to Srikakulam districts of Andhra Pradesh along with Commissioner of Fisheries, Andhra Pradesh in June 2017.

3.0 Conference, Workshop and Training

The following Conference, Workshop and Training programmes were attended by Director and Officers of CICEF.

• Participated in two days training at Cochin on Employee Information System (EIS).
• Participated in two days Pre Conference Workshop on Modernisation of Ports at IIT Madras, Chennai.
• Participated and delivered lectures in three days training course imparted to the engineers of Fisheries department, Government of Andhra Pradesh at Kakinada on Preparation of Detailed Project Report for development of FH/FLCs.

4.0 Meetings

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

• Meeting at Mormugao Port Trust on development of fishery harbour at Vasco Bay in April 2017.
• Project Sanctioning Committee (PSC) meetings at New Delhi, in May 2017 (Kulai), September (Mangrol-III) February and March 2018 (Karanja revised).
• Review meeting on construction of Breakwaters in Fishery harbours and Fish landing centres in Karnataka state held in July 2017 at Directorate of Fisheries, Bangalore.
• 31 st Executive Committee meeting at NFDB under chairmanship of the Secretary (ADF) at Hyderabad in July 2017.
• State Level Monitoring Committee (SLMC) meetings at Vijayawada, Andhra Pradesh in August 2017 and February 2018.
• Review meeting on development of fishery harbours at Veraval and Porbandar in August 2017 at Gandinagar, Gujarat.
• Expert Appraisal Committee meeting held at Chennai for evaluation of final reports of development of fishing harbours at Vellapallam, Tharangambadi, Thiruvottiyur Kuppam in Nagapattinam district and Madhunagar in Cuddalore district of Tamil Nadu in September 2017.
• MFDC, Mumbai regarding tender evaluation and high power committee on selecting the PMC of Sassoon Dock Modernisation project in July 2017.
• Stakeholders’ meeting at Tadadi for appreciating the fishery harbour layout of Tadadi Stage II in Karnataka.

5.0 Visitors

The officers from the Ministry of Agriculture and Farmers Welfare, Government of India and Maritime States/UTs, who visited this Institute for discussions, inspections, meetings etc., are given below:
Ministry of Agriculture & Farmers Welfare, DADF, New Delhi

- S/Shri Kishore, Joint Secretary (Fishery), Paul Pandian, Fisheries Development Commissioner and Sanjay Pandey, FRIO.

Government of Andhra Pradesh

- Shri G.V.S.N.Swamy Naidu, AEE, Narsapuram regarding Biyaputhippa fish landing centre project.

Government of Karnataka

- Shri Ramdas Achari, AEE, Kumta regarding Tadadi fishery harbour.
- Shri T.T.S. Phayde, AEE, Honnavar regarding Alvekodi and Tengingundi fish landing centre projects.

Government of Tamil Nadu

- Shri P.Shiva Kumar, AE, Ramanathpuram regarding Kundthukal fish landing centre

Government of U.T. of Puducherry

- Shri Kavi Arasan, AD (Fisheries), Puducerry regarding Pondicherry fishery harbour project.

Others

- S/Shri Jaya Kumar, Deputy Chief Engineer, Abdul Sheikh Salam, Assistant Engineer and Perara, Draughtsman from Mormugao Port Trust regarding Vasco Bay fishery harbour.
- Shri Chinoy, representative from YES Bank on presenting their abilities to take-up works on cold chain.

6.0 Publications

Annual Report 2016-17

7.0 Administration and Finance

Against Budget Estimate (BE) of Rs.497 lakhs and Revised Estimate (RE) of Rs.424.15 lakhs under Non Plan, an expenditure of Rs. 355.51 lakhs have been incurred during the fiscal year 2017-18.

7.1 Appointments

- Shri Shashank Negi was appointed as Stenographer grade II with effect from 8th May 2017.
- Shri. Nirod Kumar Patra Pan was appointed as Deputy Director (Eco) with effect from 16th January 2018.
7.2 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 considered and cleared the following cases for the grant of financial up-gradation respectively:

I. Shri R.S. Muralidhar, Junior Engineer granted 3rd MACP with effect from 5th July 2017 to the pay level 9.

II. Shri Suresha, Upper Division Clerk granted 3rd MACP with effect from 25th January 2018 to the pay level 6.

7.3 Events

- Anti-Terrorism day was observed on 21st May 2017 and pledge was taken by officers and staff.
- World Environment Day was observed on 5th June 2017 in the office premises.
- 3rd International Day of Yoga observed on 21st June 2017 with participation from all employees.
- 71st Independence Day was celebrated on 15th August 2017 in the Institute with patriotic fervour.
- “Swachhata hi sewa” Campaign observed during 15th September to 2nd October 2017.
- A Special drive of Swachha Bharat Mission before and after Diwali was undertaken during October 2017.
- Vigilance Awareness Week, 2017 has been observed from 30th October to 4th November 2017. An Integrity Pledge was administered by the Director to all the employees. An interactive session on the Theme of the year “My Vision – Corruption Free India” was organized on 2nd November 2017. The session was found informative and beneficial by the officials.
- 69th Republic Day was celebrated on 26th January 2018 in the Institute premises 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
The Institute celebrated Hindi Divas on 14th September 2017 and Hindi fortnight between 14th and 28th September 2017.

Shri Dinesh Kumar Soni, Senior Economic Investigator has participated and received a consolidation prize in a competition on “Noting and Drafting in Hindi”, Hindi Written Quiz and Hindi Essay Writing, conducted on 23rd October 2017 by Town Official Language Implementation Committee (Office-II) held at GPO, Bangalore.

9.0 Library

The Institute is having a library with collection of several technical and administration books/journals. 12 nos. of books were added newly to the collection in this year.

10.0 Implementation of Right to Information (RTI) Act

The Institute received 13 numbers of applications under RTI Act during the year and information supplied.

11.0 Welfare of Employees

A farewell function was organised to Shri S.S.Ramesh, Junior Engineer consequent on his selection to the post of Assistant Director (FH) in Department of Animal Husbandry, Dairying and Fisheries, Ministry of Agriculture and Farmers Welfare, Government of India, New Delhi on his relieving on 20th September 2017 (A/N).

12.0 Photos
Photo 1: Topographic survey, sub-soil and Economic investigations for the development of fishery harbour at Gopalpur, Odisha.

![Photo 1](image1.jpg)

Photo 2: Hydrographic/Topographic survey and sub-soil investigations for the development of fishery harbour at Nuagarh (Astarang), Odisha.

![Photo 2](image2.jpg)

Photo 3: Training course imparted to the engineers of Fisheries department, Government of Andhra Pradesh at Kakinada on Preparation of Detailed Project Report for development of FH/FLCs.

![Photo 3](image3.jpg)

Photo 4: Swachhata Pakhwada and Swachchata hi sewa conducted by CICEF employees.

![Photo 4](image4.jpg)
Photo 5: 3rd International day of Yoga celebrated in office campus.