



सत्यमेव जयते

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

CENTRAL INSTITUTE OF COASTAL ENGINEERING FOR FISHERY
ANNUAL REPORT 2021-22

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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 2021-22.

1.0 CICEF – An Overview

1.1 Introduction

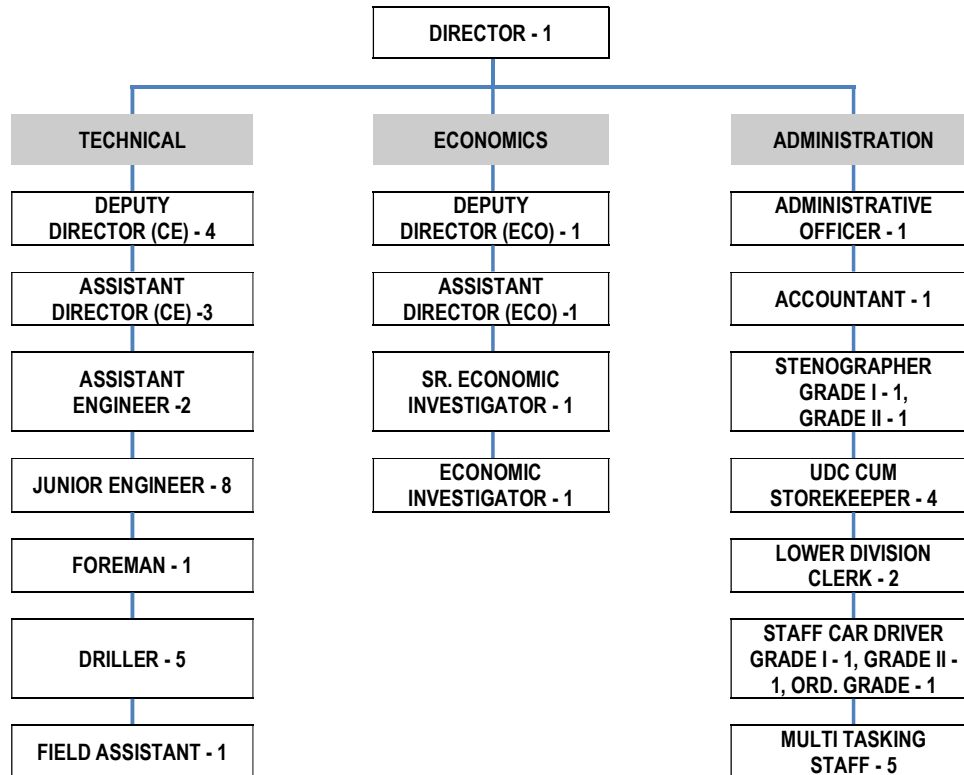
The Institute was established in January 1968 as Pre-investment Survey of Fishing Harbours (PISFH) by the Ministry of Agriculture, Government of India in collaboration with Food and Agriculture Organisation of the United Nations (FAO/UN). The primary objective of establishing the Institute was to carry 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.

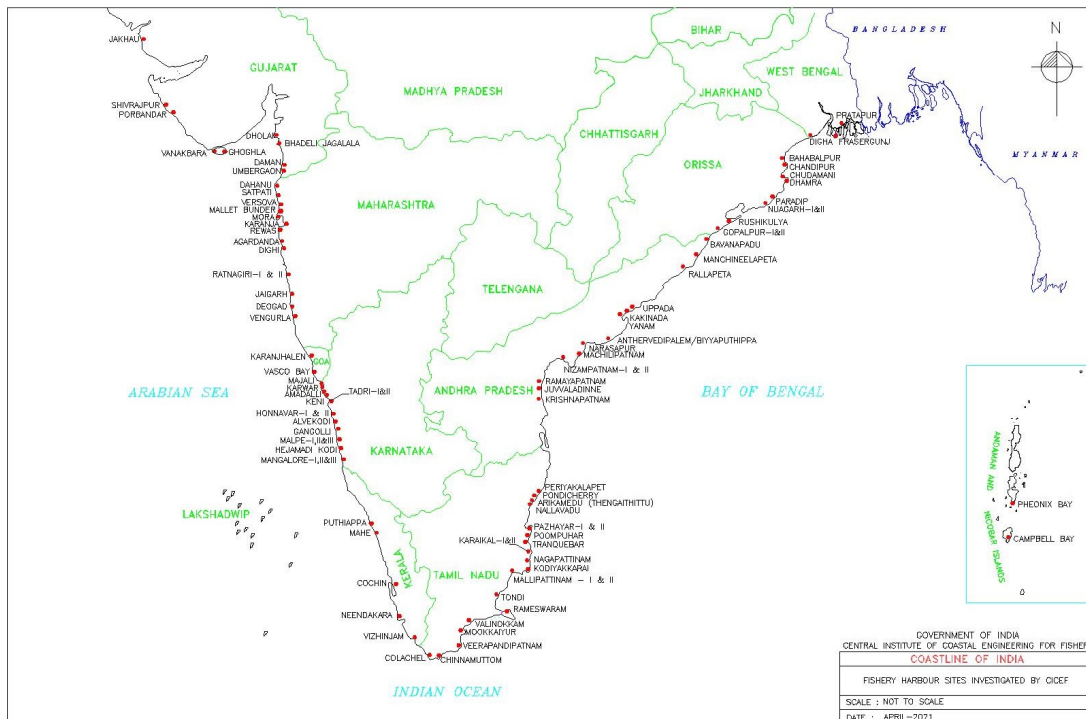
1.3.2 Coastal Aquaculture Farms and Hatcheries

- 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 2022 has carried out investigations at 104 sites and prepared project reports for 122 (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 2021-22

2.1.1 Techno-Economic Feasibility Reports (TEFRs)

- Prepared and issued TEFR for development of fishery harbour at Mallet Bunder in Maharashtra.

Salient features of the Project

• Design fleet size

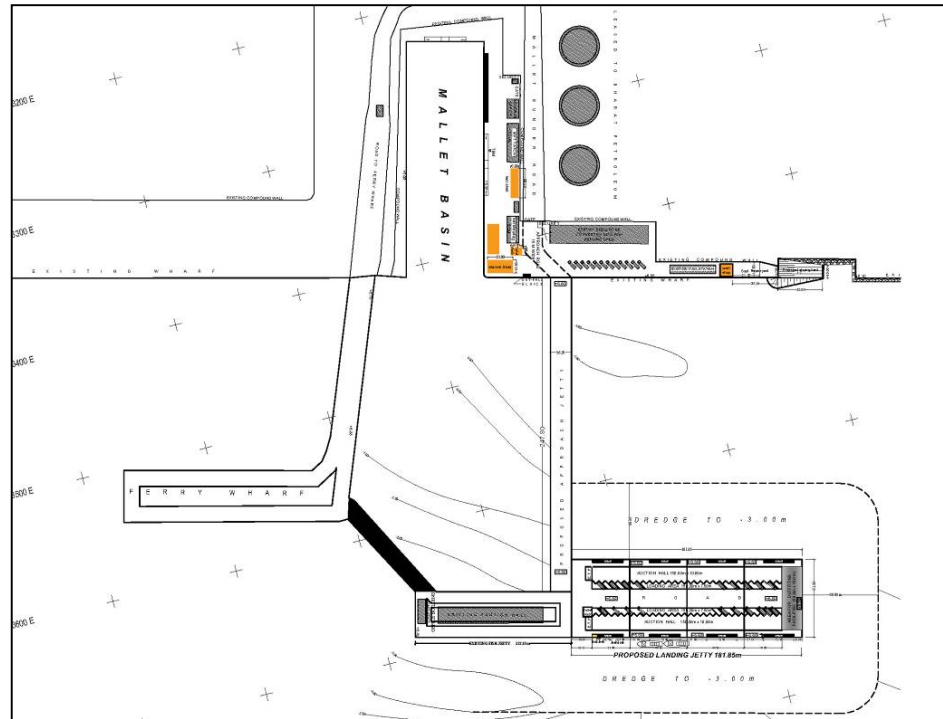
Sl. No.	Size and type of fishing boat	Number
1.	14 m trawlers	36
2.	16 m trawlers	194
3.	18 m trawlers	740
4.	18 m trawlers migratory	202
5.	20 m trawlers	114
Total		1,286

Proposed waterside facilities

- RCC piled jetty for MFVs
- RC Sloping hard
- Dredging

Proposed landside facilities

- Auction Halls for MFVs – 2 nos.
- Internal road network
- Net mending shed
- Restaurant cum rest shed
- Boat repair shop
- Public toilet – 2 nos.
- Workshop
- Fish Market
- Fresh water supply and distribution system
- 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.
- Greeneries and landscaping
- Fire extinguishers and
- Repairs and renovation to existing facilities.



Layout Plan of fishery harbour at Mallet Bunder

2.1.2 Pre-feasibility Reports

- Prepared and issued Pre-Feasibility Report on the development of deep sea fishery harbour at Junglighat in Andaman & Nicobar Islands.
- Prepared and issued pre-feasibility study Phase II report for the development of FH/FLCs at 6 fishery centres in Thane district of Maharashtra.

District	Name of the site	Recommendation
Thane	Ghansoli	Fish landing centre
	Bhate Bandar	Fish landing centre
	Devtalav	Fish landing centre
	Uttan Pali	Fish landing centre
	Dongri Ladoba	Fish harbour
	RNP Park Koliwada	Fish landing centre

- Prepared and issued pre-feasibility study Phase II report for the development of FH/FLCs at 11 fishery centres in Palghar district of Maharashtra.

District	Name of the site	Recommendation
Palghar	Naigaon	Fish landing centre
	Kochivade	Fish landing centre
	Vasai	Fish landing centre
	Rangaon	Fish landing centre
	Navapur	Fish landing centre

District	Name of the site	Recommendation
	Arnala	Not recommended
	Tembhi	Fish landing centre
	Satpati	Fishery harbour
	Murbe	Fish landing centre
	Ucheli Dandi	Fish landing centre
	Dahanu	Fishery harbour

- d. Prepared and issued pre-feasibility study Phase II report for the development of FH/FLCs at 8 fishery centres in Mumbai district of Maharashtra.

District	Name of the site	Recommendation
Mumbai	Vandre	Fish landing centre
	Khar	Fish landing centre
	Patilpada	Fish landing centre
	Varinipada	Fish landing centre
	Marve	Fish landing centre
	Erangal Bhati	Fish landing centre
	Manori	Fish landing centre
	Gorai	Fish landing centre

- e. Prepared and submitted an Evaluation report on the Restructured proposal of modernization of Fishery harbour at Sassoon dock, Mumbai.
- f. Prepared and submitted a Detailed project report on Modernization/Upgradation of 17 nos. of minor fishing harbours in the country.

2.1.3 Economic Feasibility Reports

- Prepared and issued economic evaluation report for development of fishery harbour at Junglighat in Andaman and Nicobar Islands.
- Prepared and issued Economic Evaluation Report on the development of Arthungal fishery harbour in Kerala.
- Prepared and issued Revised Economic Evaluation Report for the development of Bahabalpur fishery harbour in Odisha.
- Prepared and issued Revised Economic Evaluation Report for the development of Chudamani Fishery harbour in Odisha.
- Prepared and issued Revised Economic Evaluation Report for the development of Keelamattom Fish Landing Centre in Tamil Nadu.
- Prepared and issued Economic Evaluation Report for the development of Thoothukudi Fishery Harbour in Tamil Nadu.

2.1.4 Technical Comments and Appraisals

- Prepared and issued report for modernization of Thoppumpadi major fishery harbour at Cochin in Kerala.

- Scrutinized and offered technical comments on the development of Arthungal fishery harbour in Kerala.
- Prepared and submitted a report on the “Analysis and Cost comparison for application of Geo-tubes in breakwater construction for fishery harbours and fish landing centres”.
- Prepared and submitted a report on dredging of Paradip fishery harbour in Odisha.
- Finalization of cost estimate for development of fishery harbour at Chudamani in Odisha.
- Finalization of cost estimate for development of fish landing centers at Kasia, Kalupada ghat and Sorana in Odisha.
- Scrutinised the proposal on development of fishery Harbour at Biyyaputhippa in Narasapur Mandal, West Godavari District of Andhra Pradesh under PMMSY.
- Scrutinised the proposal for improvements and creation of additional facilities at the existing fishery harbour in Nagapattinam of Tamil Nadu.
- Scrutinised the proposal for modernisation of fishery Harbour at Thoothukudi in Tamil Nadu.
- Scrutinised the proposal for development of fishery Harbour at Vellapallam in Nagapattinam District of Tamil Nadu.
- Scrutinised the following proposals for development of Fish Landing centres in Tamil Nadu:
 - i) Tharuvaikulam in Thoothukudi District.
 - ii) Mandapam (North) in Ramanathapuram District.
 - iii) Mandapam (South) in Ramanathapuram District.
 - iv) Kottaipattinam in Pudukottai District.
 - v) Vadakkamapattinam in Pudukottai District.
 - vi) Puthukudi in Pudukottai District.
 - vii) Portonovo-Annankovil in Cuddalore District.
 - viii) Mudasalodai in Cuddalore District.
 - ix) Chandrapadi in Nagapattinam District.
 - x) Vanagiri in Nagapattinam District.
 - xi) Keelathottam in Nagapattinam District.
 - xii) Keelamundhal in Ramanathapuram District.
 - xiii) Aruvikarai in Tirunelveli District.

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

- Prepared and submitted a Monitoring report on the status of Fishery harbour projects in the state of Goa sanctioned under CSS.
- 3rd party inspection of all ongoing fishery related works in Dakshina Kannada, Udupi and Uttara Kannada districts of Karnataka.

2.1.6 Field visit to Fishery Harbours and Fish Landing Centres

- Visited Paradip in connection with modernization of fishery harbour proposal.
- Visited Andaman and Nicobar Islands for identifying suitable sites for development of fishery harbours.
- Conducted inspection of ongoing fishery harbour construction at four sites viz. Malim, Cutbona, Cortalim and Chapora in Goa.
- Visited Porbandar and Veraval Fishery harbour sites under Sagar Parikrama.
- Visited five Inland Fish Landing Centre sites viz. Fatuha in Patna District, Ganga Ghat and Sipahi Tola Ghat in Vaishali District, Bachhwara in Begusarai District, Kadhagola Ghat in Katihar District and Lallu Pokhar in Munger District along Ganga and Gandak Rivers in Bihar for the preparation of pre-feasibility report.
- Visited Vellapallam fishery Harbour site in Nagipattinam district of Tamil Nadu as decided during CMAC Meeting.

3.0 Conference, Workshop and Training

- Conducted a webinar on preparation of Detailed Project Report for fishery harbour/fish landing centre projects in connection with **Azadi Ka Amrit Mahotsav (AKAM)**.

4.0 Meetings

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

- Floating jetties proposal by Governments of Kerala and Tamil Nadu, under the Chairmanship of Joint Commissioner (Fisheries), Department of Fisheries on 15th June, 2021.
- Holistic development of Andaman and Nicobar Islands under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 17th June, 2021.

- Tamil Nadu Fishery Harbour Sea weed projects, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 04th August, 2021.
- Holistic development of Islands action plan 2025, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 02nd September, 2021.
- Merger of Fishery Institutes, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 02nd September, 2021.
- Modernization proposal of four major fishery harbours, under the Chairmanship of Secretary (Fisheries), Department of Fisheries on 17th September, 2021.
- Fishery Infrastructure development along Ganga and Gantak rivers in Bihar on under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 21st September, 2021.
- Meeting on Budget Estimate 2022-23 and Revised Estimate 2021-22 under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 06th October, 2021.
- Meeting on Pending cases under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 22nd October, 2021.
- Alignment of training wall at Tadadi stage II development under the chairmanship of Director of fisheries Government of Karnataka on 02nd November, 2021.
- Paradip Fishery Harbour modernization proposal under Paradip Port Trust on 08th November, 2021.
- Status of Fishery Harbours in Maharashtra and Goa, under the Chairmanship of Secretary (Fisheries), Department of Fisheries on 08th November, 2021.
- Meeting on Status of Expenditure of the Institutes in Department of Fisheries, Government of India on 08th November, 2021.
- Rationalization of posts on merger of Fishery Institutes, under the Chairmanship of Joint Secretary (Marine Fisheries), Department of Fisheries on 10th November, 2021.
- Project screening committee meeting on Sassoon Dock and Fishery Harbours in Goa conducted by Department of Fisheries, Government of India on 16th December, 2021.
- Delegation of financial powers by Department of Fisheries, Government of India on 20th December, 2021.
- Meeting on Paradip Fishery Harbour shore protection work conducted by IIT Chennai on 27th December, 2021.
- Central Apex Committee meeting conducted by Department of Fisheries, Government of India on 29th December, 2021.

- Swachatha Pakhwada conducted by Department of Fisheries, Government of India on 31st December, 2021.
- Meeting on Tax Deducted at Source (TDS) GST by GST Circle, Bengaluru on 18th January 2022.
- 3rd Technical Scrutiny Committee on Fishery Infrastructure Projects (TSCFIP) meeting on modernisation of Cochin major fishery harbour conducted by Department of Fisheries, Government of India on 21st January, 2022.
- Meeting on Inland Fishery projects in Assam conducted by Department of Fisheries, Government of India on 22nd January, 2022.
- Technical Committee on reclamation in Anandwadi (Deogad) fishery harbour project in Maharashtra conducted by Maharashtra Fisheries Development Corporation, Mumbai on 28th January, 2022.
- Status of fishery harbour projects in Gujarat conducted by the Department of Fisheries, Government of India on 31st January, 2022.
- 7th Project Evaluation and Monitoring Unit (PEMU) meeting on modernisation of Chennai and Cochin major fishery harbours conducted by Department of Fisheries, Government of India on 15th February, 2022.
- Preparation of Annual Report of the Department of Fisheries, Government of India on 22nd February, 2022.
- 7th Central Apex Committee (CAC) meeting on modernisation of Chennai and Cochin major fishery harbours conducted by Department of Fisheries, Government of India on 24th February, 2022.
- Fishery Harbour schemes conducted by Department of Fisheries, Government of India on 11th March, 2022.
- 5th Technical Scrutiny Committee on Fishery Infrastructure Projects (TSCFIP) meeting on modernisation of Visakhapatnam major fishery harbour conducted by Department of Fisheries, Government of India on 18th March, 2022.
- 6th Technical Scrutiny Committee on Fishery Infrastructure Projects (TSCFIP) meeting on fishery projects of Maharashtra, Odisha, Andhra Pradesh, Uttar Pradesh, Tamil Nadu and Uttarakhand conducted by Department of Fisheries, Government of India on 24th March, 2022.
- Meeting on Institute's Annual Action Plan conducted by Department of Fisheries, Government of India on 30th March, 2022.
- Meeting of Ports, Harbours and Offshore Installations Sectional Committee conducted by Bureau of Indian Standards (BIS).

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:

Government of Tamil Nadu

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

Others

- Fishermen Society representatives from Karanja Fishery Harbour, Mumbai, Maharashtra visited in connection with the ongoing Karanja fishery harbour project.

6.0 Publications

Annual Report 2020-21

7.0 Administration and Finance

7.1 Budget Expenditure

Against Budget Estimate (BE) of Rs 505.00 lakhs and Revised Estimate (RE) of Rs.402.17 lakhs under Non Plan, an expenditure of Rs 400.62 lakhs have been incurred during the fiscal year 2021-22.

7.2 Appointments

The following officials joined in the Institute:

- Shri. Shishpal, UDC on 14th July 2021
- Kum. Ankita Kushwaha, UDC on 02nd August 2021
- Shri. Dhiraj Kumar, UDC on 03rd August 2021
- Shri. Manuprathap, MTS on 23rd August 2021
- Shri. Ajin James, Junior Engineer on 16th March 2022

7.3 Retirement / Deputation/ Resignation

- Shri M.S, Madhumohan, Foreman (drilling) retired from service on superannuation on 31st March, 2022.

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 meeting on 21st February 2021, considered and cleared the following case for the grant of 3rd financial up-gradation:

1. Shri. G.K. Kumar, Junior Engineer

7.5 Vigilance Awareness Week

In pursuance of the direction of Central Vigilance Commission (CVC), New Delhi, Vigilance Awareness Week, 2021 has been observed from 26th October to 1st November, 2021 with the theme “**Independent India @ 75: Self Reliance with Integrity**”. 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 “**Independent India @ 75: Self Reliance with Integrity**” was organized. The session was found informative and beneficial.
- vi. All the officials were made aware of the good Governance Standards.

7.6 Events

- Observed International Yoga day on 21st June, 2021.
- 75th Independence Day on 15th August, 2021 and 71st Republic Day on 26th January, 2022 were celebrated in the Institute with patriotic fervour.
- Hindi Diwas on 14th September 2021
- Vigilance Awareness week celebrated from 26th October to 01st November 2021.
- Kannada Rajyotsava was celebrated on 01st November 2021.
- Constitution Day was observed on 22nd November, 2021.
- Swatchatha Pakhwada was observed between 16th to 31st December 2021.

- A webinar on preparation of DPR for fishery harbour/fish landing centre projects in connection with AKAM on 23rd December, 2021.
- Woman's day was celebrated on 08th March 2022.

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 2021 and Hindi fortnight between 13th and 24th September, 2021.

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 16 number of applications under RTI Act during the year and information supplied.

11.0 Welfare of Employees

- A farewell function was organised to Shri M.S. Madhumohan, Foreman (Driller) on 31st March, 2022 on his retirement from service on superannuation.
- The following officers were granted 1st financial up-gradation under MACPS by the Department of Fisheries, Government of India, New Delhi:
 1. Shri. N. Ravi Sankar, Deputy Director (CE)
 2. Shri. M.B. Belliappa, Deputy Director (CE)
 3. Shri. N. Krishnamurthy, Deputy Director (CE)

12.0 Photos



Visit to Paradip Fishery Harbour for modernization proposal



Pre-Feasibility studies in Andaman & Nicobar Island



Pre-Feasibility studies at Bihar