



सत्यमेव जयते

GOVERNMENT OF INDIA

MINISTRY OF FISHERIES, ANIMAL HUSBANDRY AND DAIRYING

DEPARTMENT OF FISHERIES

**CENTRAL INSTITUTE OF COASTAL ENGINEERING FOR FISHERY
ANNUAL REPORT 2022-23**

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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 2022-23.

1.0 CICEF – An Overview

1.1 Introduction

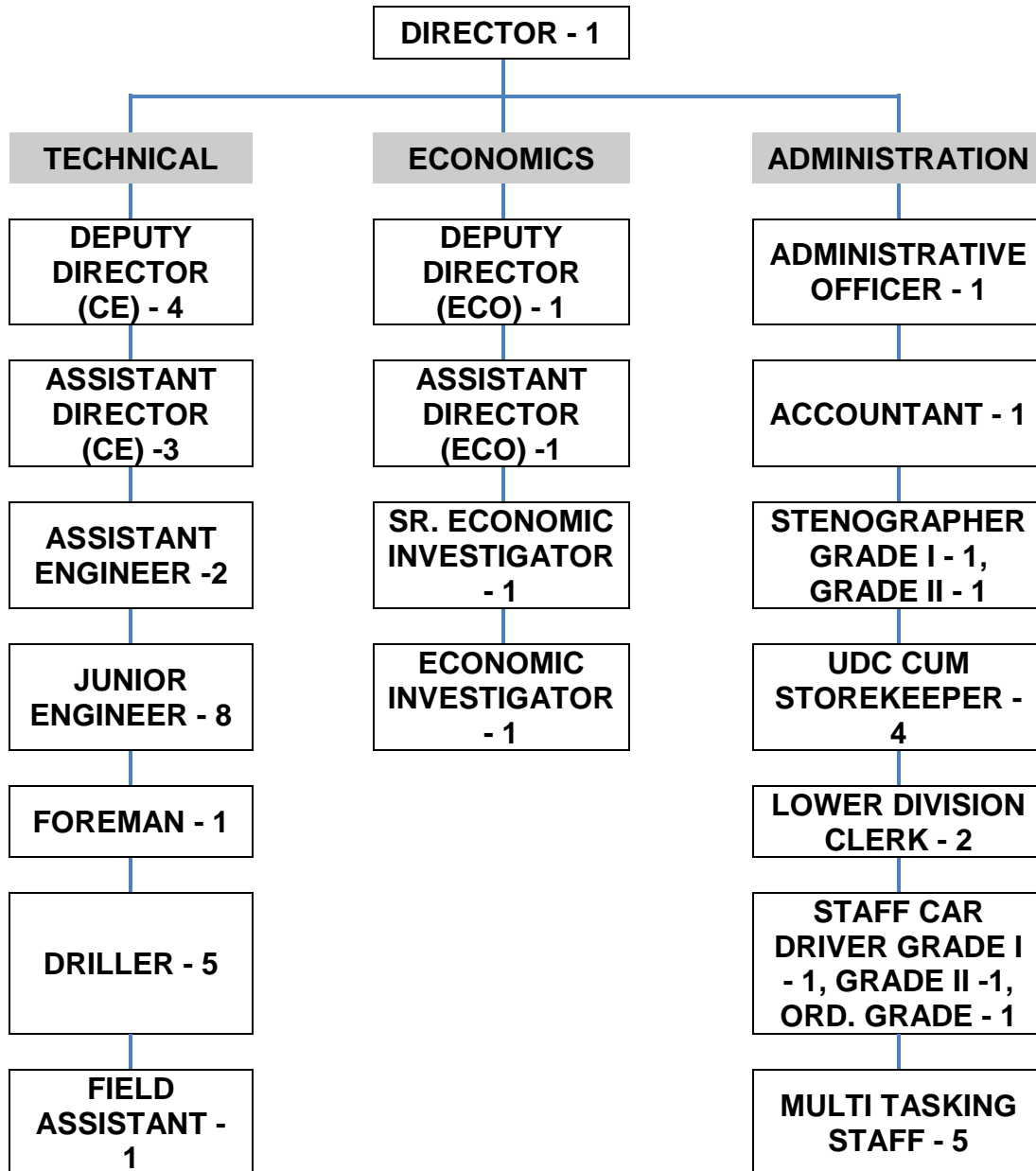
The Institute was established in January 1968 as Pre-investment Survey of Fishing Harbours (PISFH) by the Ministry of Agriculture, Government of India in collaboration with Food and Agriculture Organisation of the United Nations (FAO/UN). The primary objective of establishing the Institute was to carry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

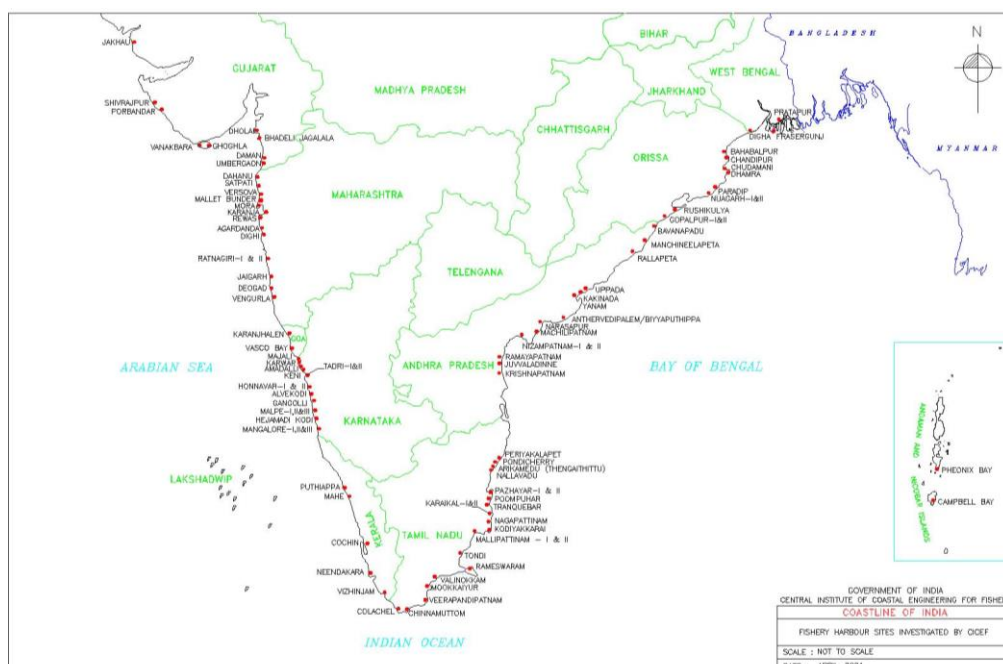
1.3.2 Coastal Aquaculture Farms and Hatcheries

- 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 2023 has carried out investigations at 104 sites and prepared project reports for 123 (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.

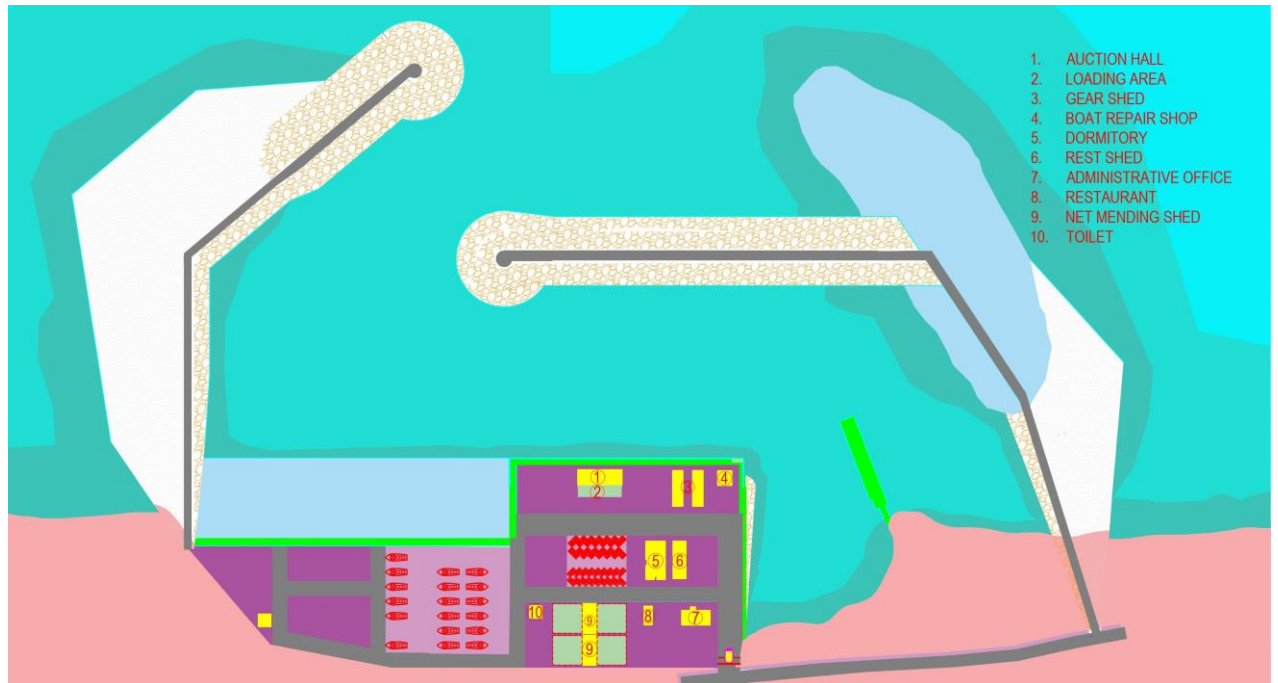


Map showing fishery harbour sites investigated by CICEF

2.1 Achievements during 2022-23

2.1.1 Techno-Economic Feasibility Reports (TEFRs)

- Prepared and issued TEFR for development of fishery harbour at Belambar in Ankola Taluk of Uttara Kannada district of Karnataka.



Belambar fishing harbour layout

Salient features of the Project

- Design fleet size

Sl. No.	Size and type of fishing boat	Number
1.	10 m FRP	80
2.	13 m trawlers	30
3.	18 m purse seiner	20
Total		130

- Proposed waterside facilities
 - Breakwaters
 - RC Sloping hard
 - Dredging

- Quay (diaphragm wall)
- Revetment
- **Proposed landside facilities**
 - Fish handling and Auction Hall
 - Fishery gear shed
 - Internal road network
 - Net mending shed
 - Restaurant
 - Fishermen rest shed
 - Boat repair shop
 - Public toilet
 - 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
- **Cost of the project**
 - The total estimated cost of the project is 79.63 crore
- **Economic Evaluation**
 - The financial internal rate of return is 13.76 percent which shows that the site is economically feasible.

2.1.2 Pre-feasibility Reports

1. Prepared and issued Pre-Feasibility Report on the development of fishing harbour at Maya Bunder in Andaman & Nicobar Islands
 - The financial internal rate of return is 8.32 percent which shows that the site is economically feasible. It is recommended to provide fishing harbour facilities at Mayabandar.
2. Prepared and issued feasibility reports for development of fishery infrastructures along river Ganga and Gandak.
 - Fatuha in Patna district

The financial internal rate of return is 23.84 percent which shows that the site is economically feasible. It is recommended to provide fish landing centre at Fatuha.
 - Mahnar Ghat in Vaishali district

The financial internal rate of return is 20.19 percent which shows that the site is economically feasible. It is recommended to provide fish landing centre at Mahnar Ghat.

- Bachhwara in Begusarai district
The financial internal rate of return is 17.06 percent which shows that the site is economically feasible. It is recommended to provide fish landing centre at Bachhwara.
- Kadhagola Ghat in Katihar district
The financial internal rate of return is 33.16 percent which shows that the site is economically feasible. It is recommended to provide fish landing centre at Kadhagola Ghat.
- Lallu Pokhar in Munger district
The financial internal rate of return is 14.22 percent which shows that the site is economically feasible. It is recommended to provide fish landing centre at Lallu Pokhar.

2.1.3 Economic Feasibility Reports

- Prepared and issued economic evaluation report for development of fishery harbour at Gopalpur in Odisha.
- Prepared and issued Economic Evaluation Report for the development of fishery harbour at Maya Bunder in Andaman & Nicobar Islands.
- Prepared and issued Economic Evaluation Report for the development of Arthungal fishery harbour in Kerala.
- Prepared and issued Economic Evaluation Report for the modernisation of Paradip Fishery harbour in Odisha.
- Prepared and issued Economic Evaluation Report for the development of five fish landing centres in Bihar.

Sl. No	Name of fish landing centre
1	Fatua in Patna district
2	Mahanhar in Vaishali district
3	Bachchwara in Begusarai district
4	Kadhagola ghat in Katihar district
5	Lalupokhara in Munger district

2.1.4 Technical Comments and Appraisals

- Prepared a report on innovative method of constructing breakwaters using sand bar and geo-tubes in order to reduce the cost, construction time, environmental pollution etc.
- Prepared and issued report for modernization of four fishing harbours at Petuaghat, Shankarpur, Frasergunj and Kakdwip in West Bengal.
- Conducted technical evaluation of the proposal (Detailed Project Report) for extension of existing main breakwater at Thengapattinam fishery harbour in Kanniyakumari district of Tamil Nadu under FIDF.
- Scrutinised the revised DPR for development of Arthungal Fishery Harbour – Balance work – Proposal for consideration under FIDF, submitted by the Harbour Engineering Department, Kerala and submitted the comments to NFDB.
- Conducted technical evaluation of the ten proposals (Detailed Project Report) for development of fish landing centres and modernisation of existing fishery harbours in Tamil Nadu under FIDF.
 - i. Modernization of Nagapattinam fishing harbour in Nagapattinam district.
 - ii. Construction of fish landing centre at Sattankuppam in Thiruvallur district.
 - iii. Construction of fish landing centre at Sunnambukulam in Thiruvallur district.
 - iv. Establishment of fish landing centre in Mudhaliyarkuppam and Chettyanagar villages in Villupuram district.
 - v. Establishment of fish landing centre at Pudhukuppam and Anichankuppam villages in Villupuram district.
 - vi. Establishment of fish landing centre at Chithiiraipettai and Nanjalingampettai villages in Cuddalore district.
 - vii. Establishment of fish landing centre at Tsunami Nagar and Akkaraigori villages in Cuddalore district.
 - viii. Establishment of fish landing centre at Sothikuppam and Rasapettai villages in Cuddalore district.
 - ix. Establishment of fish landing centre Sonankuppam villages in Cuddalore district.
 - x. Providing additional infrastructure facilities (Auction Hall, Net Mending Shed, Compound Wall, Over Head tank and UG sump) to the Thoothukudi fishing harbour in Thoothukudi district.

- Conducted scrutiny of following fish landing centres of Maharashtra.
 - i. Harnai
 - ii. Jeevana
 - iii. Sakharinate
 - iv. Bharadkhol
 - v. Satpati

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

- 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 West Bengal in connection with modernization/up-gradation of 4 fishery harbours at Petuaghat, Shankarpur, Frasergunj and Kakdwip.
- Visited all the fishery project sites in Dakshin Kannada, Udupi and Uttara Kannada districts of Karnataka in connection with third party inspection/monitoring of all on-going fishery projects.
- Visited Andaman & Nicobar Island to discuss Auction plan for development of Fisheries in the Island.
- Visited Maya Bunder site in A&N islands to evaluate suitability of the site to locate fishing harbour.
- Conducted reconnaissance survey in Anakapalli district of Andhra Pradesh to identify possible locations for construction of fishing harbour/fish landing centre for the fishermen displaced due to Naval Alternative Operations Base (NAOB).
- Officers of this institute visited the Department of Fisheries, Krishi Bhavan, New Delhi for assisting the file clearance pertaining to the technical matters between May – June 2022.
- Undertook a reconnaissance visit to Valiyathura fishery center in Thiruvananthapuram District of Kerala.

3.0 Conference, Workshop and Training

- Attended and presented lectures in two-day training program on **Initiation & DPR preparation of high value infrastructure projects under FIDF & PMMSY** held at Hyderabad between 09th June 2022 and 10th June 2022.

- Attended an online training course on **Coastal Erosion and Sustainable Protection Measures** organised by CWPRS, Pune on 23rd August 2022 and 24th August 2022.
- Attended 23rd conference of the **International Association for Hydro Environmental Engineering and Research Asia Pacific Division** held at Department of Ocean Engineering, IIT Madras between 14th December 2022 and 16th December 2022.
- Attended a three-day **Training of Trainers program on Artificial Reefs at Madras Regional station of CMFRI, Chennai** held from 31st January 2023 to 02nd February 2023.

4.0 Meetings

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

- Meeting with Government of Andhra Pradesh officers on Pulicat Lake & Other issues. on 08^h April, 2022.
- Meeting with Kerala officers on Ajanur FH DPR scrutiny on 13th April, 2022.
- Meeting on Geo-tubes chaired by Joint Secretary (Fee) on 08th July, 2022.
- Meeting on Holistic approach of Action plan of A&N islands chaired by Joint Secretary (M) on 11th July, 2022.
- Meeting of 7th TSCFIP meeting chaired by Joint Commissioner (Fy) on 15th July, 2022.
- Meeting on 13th CAMC chaired by Joint Commissioner (Fy) on 29th July, 2022.
- Meeting on Expenditure of Institutes chaired by Joint Secretary (Admin) on 17th August, 2022.
- Assam inland Fishery Projects chaired by both Joint Secretaries of Marine Fisheries and Inland Fisheries. on 17th August, 2022.
- Meeting on Ratnagiri FH, stage II by the Commissioner of Fisheries, Maharashtra on 30th September, 2022.
- Meeting on Digitization of Fishery Institutes by Director (IT), DoF. on 06th October, 2022.
- Meeting on NABARD & RKVY projects of Maharashtra by CoF, Mumbai. on 19th October, 2022.
- Meeting on Technical issues like geo-tubes, project cost by ministry on 18th November, 2022.
- Meeting on e-billing module of PFMS on 20th January, 2023.
- Meeting on dredging in FHs by Secretary (M) on 02nd February, 2023.
- Meeting on NPS on 15th February, 2023.

- Meeting on Cyber Security on 07th March, 2023.
- Meeting on Sindhuraj, Dredger on 13th March, 2023.
- Meeting on Expenditure status on 16th March, 2023.

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

- Shri. Jatindra Nath Swain, IAS, Secretary of Department of Fisheries visited this institute on 15th February 2023.

Government of Tamil Nadu

- Chief Engineer, Executive engineer and other Engineers from State Fisheries Department visited.

Government of Karnataka

- Shri. Rathod, Senior Executive Engineer (i/c), Shri. Rajkumar, Assistant Executive Engineer (Karwar), Shri. Uday Kumar, Assistant Executive Engineer (Udupi), Assistant Engineers of Port and Fishery department of Udupi and Assistant Engineers of Port and Fishery department of Karwar visited this office.

Government of Kerala

- Chief Engineer and Superintending Engineer, Harbour Engineering Department, Government of Kerala visited this Institute during August 2022 in connection with finalisation of Revised cost estimate for Arthungal Fishery harbour project.

Others

- Students of college of fisheries, Ratnagiri visited on 28th October, 2022

6.0 Publications

Annual Report 2021-22

7.0 Administration and Finance

7.1 Budget Expenditure

Against Budget Estimate (BE) of Rs 508.00 lakhs and Revised Estimate (RE) of Rs.490.69 lakhs under Non Plan, an expenditure of Rs 444.98 lakhs have been incurred during the fiscal year 2022-23.

7.2 Promotions

- Shri. G. Shivashankar Hegde, Driller was promoted to the post of Foreman (Drilling) w.e.f. 06th April 2022
- Shri. G.K Kumar, Junior Engineer was promoted to Assistant Engineer (Civil) w.e.f. 01st August 2022.
- Shri. S. Gopalkrishna, Assistant Engineer (Civil) was promoted to Assistant Director (Civil) on Ad hoc basis w.e.f. 17th August 2022.
- Shri. Ankit Ranjan, Multi-Tasking Staff (MTS) was promoted to Lower Division Clerk (LDC) w.e.f. 13th March 2023.

7.3 Appointments

The following officials joined the Institute:

- Deepak Singh Gangwar, LDC on 23rd August 2022
- Raj Shaw, LDC on 25th August 2022
- Smt. Divya Sharma, Assistant Director (Eco) on 25th November 2022
- Shri. Deepu C, MTS on 08th December 2022

7.4 Retirement / Deputation/ Resignation

- Shri R.S, Muralidhar, Assistant Engineer (civil) retired from service on superannuation on 30th June, 2022.
- Shri. Deepak Singh Gangwar, LDC resigned from the service on 28th February 2023 to take up his job at Defence Establishment.

7.5 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 06th January 2023, considered and cleared the following case for the grant of 1st financial up-gradation:

- Shri. Ramesha S.S, Junior Engineer
- Shri. C. P Gadkari, Junior Engineer
- Shri. T. Sathish Kumar, Junior Engineer

The Committee held its meeting on 06th January 2023, considered and cleared the following case for the grant of 3rd financial up-gradation:

- Shri. M. Muniraju, Field Assistant

7.6 Vigilance Awareness Week

In pursuance of the direction of Central Vigilance Commission (CVC), New Delhi, Vigilance Awareness Week, 2022 has been observed from 31st October to 6th November, 2022 with the theme “**Corruption free India for a developed Nation**”. 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. An interactive session on the theme “**Corruption free India for a developed Nation**” was organized. The session was found informative and beneficial.
- v. All the officials were made aware of the good Governance Standards.

7.7 Events

- Observed International Yoga day on 21st June, 2022.
- 76th Independence Day on 15th August, 2022 and 74th Republic Day on 26th January, 2023 were celebrated in the Institute with patriotic fervour.
- Hindi Diwas on 14th September 2022
- Vigilance Awareness week celebrated from 31st October to 06th November 2022.
- Kannada Rajyotsava was celebrated on 01st November 2022.
- Constitution Day was observed on 22nd November, 2022.
- Swatchatha Pakhwada was observed between 01st to 15th December 2022.
- Woman’s day was celebrated on 08th March 2023.

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 2022 and Hindi fortnight between 13th and 24th September, 2022.

9.0 Library

The Institute is having a library with collection of several technical, economics and administration books/journals. 4 nos. of books were added newly to the collection in this year.

10.0 Implementation of Right to Information (RTI) Act

The Institute received 26 numbers of applications under RTI Act during the year and information supplied.

11.0 Welfare of Employees

- A farewell function was organised to Shri R.S. Muralidhar, Assistant Engineer (Civil) on 30th June, 2022 on his retirement from service on superannuation.
- A farewell function was organised to Shri. Deepak Singh Gangwar, LDC on 28th February, 2023 on his resignation from office to take up his job at Defence Establishment.

12.0 Photos



Visit to Valiyathura fishery center to undertake a reconnaissance survey



Visit to West Bengal for the up gradation of Kakdwip fishing harbour



Visit to West Bengal for the up gradation of Diamond harbour