



सत्यमेव जयते

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

CENTRAL INSTITUTE OF COASTAL ENGINEERING FOR FISHERY
ANNUAL REPORT 2012-13

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P R E F A C E

The Central Institute of Coastal Engineering for Fishery (CICEF), Bangalore, a subordinate office of the Department of Animal Husbandry, Dairying & Fisheries, Ministry of Agriculture, 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 2012-13.

1.0 CICEF – An Overview

1.1 Introduction

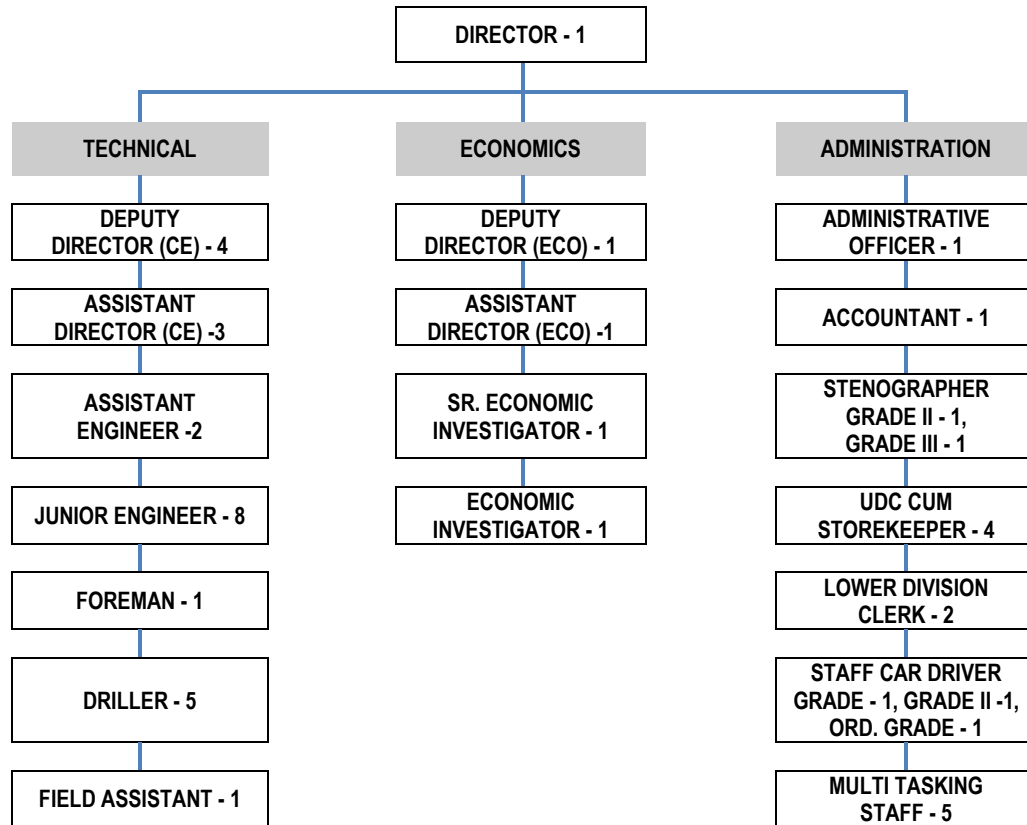
The Institute was established in January 1968 as Pre-investment Survey of Fishing Harbours (PISFH) by the Ministry of Agriculture, Government of India in collaboration with Food and Agriculture Organisation of the United Nations (FAO/UN). The primary objective of establishing the Institute was to carry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

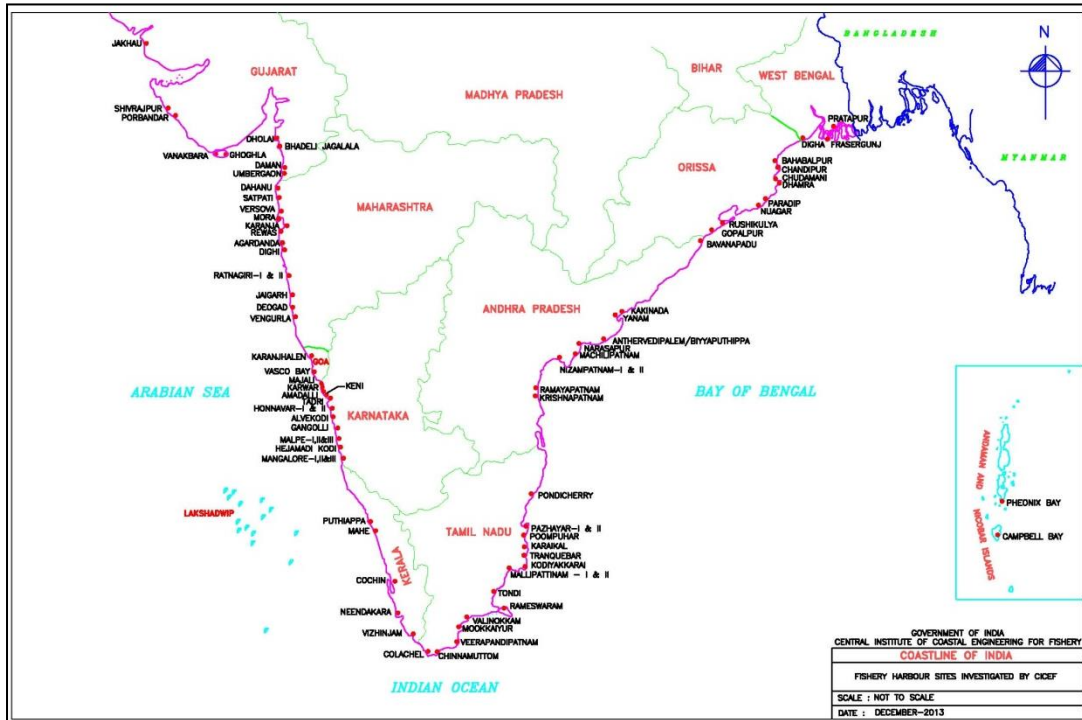
1.3.2 Coastal Aquaculture Farms and Hatcheries

- 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 2013 has carried out investigations at 85 sites and prepared project reports for 85 sites for the development of Fishery Harbours/Fish Landing Centres.

During UNDP/FAO assistance, four pilot brackishwater 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 2012-13

2.1.1 Engineering & Economic Investigations

I Versova Fishery Harbour in Maharashtra

- Conducted detailed engineering and economic investigations in October and November 2012 respectively for development of Fishery Harbour.
- The site is situated at the confluence of Malad creek with Arabian sea in the suburb of Mumbai.
- About 10 hectares of land (topographic survey) and 20 ha of water area (hydrographic survey) was surveyed during engineering investigations.

II Hejamadi Kodi Fishery Harbour in Karnataka

- Conducted detailed engineering investigation in January 2013 for development of Fishery Harbour.
- The site is situated at the confluence of rivers Shambhavi and Nandini joining Arabian Sea in Udupi district.
- About 31 hectares of land was surveyed (topographic survey) during the engineering investigation.

III Ratnagiri Fishery Harbour Stage II in Maharashtra

- Conducted additional economic investigation in February 2013 for economic evaluation of revised project cost estimate.

2.1.2 Techno-Economic Feasibility Reports (TEFRs)

I Poompuhar Fishery Harbour in Tamil Nadu

- Conducted detailed engineering investigations comprising of topographic survey, hydrographic survey and subsoil investigations during September 1998.
- Cost of the project was estimated as Rs.78.5 Crores as per the SoR 2012-13 and the FIRR of the project worked out as 14-15%.
- TEFR was issued in June 2012.

Salient features of the Project

Design fleet size

Sl. No.	Size and type of fishing boat	Number
1.	11 m Trawler	150
2.	13 m Trawler	200
3.	8 m FRP OBM	350
Total		700

Proposed waterside facilities

- Eastern breakwater of 898 m
- Northern breakwater of 250 m
- Fish landing quay (219 m), outfitting quay (108 m), repair quay (28 m) and idle berthing quay (141 m)
- Dredging of harbour basin to -3.0 m level

Proposed landside facilities

- Fish handling and auction hall
- Internal asphalted road and WBM surfaces
- RC sloping hard
- Fishermen gear sheds – 2 nos.
- Net mending sheds – 2 nos.
- Fishermen rest shed
- Fish merchants dormitory
- Boat repair shop
- Fishery administration office
- Restaurant
- Radio-communication centre
- Public toilet – 2 nos.
- Security/guard house
- Compound wall
- Water supply, sewerage including effluent treatment plant, electrical power supply, navigational aids, greenery, fire protection etc.

II Ratnagiri Fishery Harbour Stage II in Maharashtra

- Conducted detailed engineering investigations in September – October, 2005.
- Economic investigations were conducted in February, 2013.
- Cost of the project was estimated as Rs. 65.281 Crores as per the SoR 2012-13. The FIRR of the project works out to 12-13%.
- Issued the TEFRR in March, 2013.

Salient features of the Project

Design fleet size

Sl. No.	Size and type of fishing boat	Number
1.	16 m Trawler	300
2.	17 m Purse-seiner-cum-trawler	200
Total		500

Proposed waterside facilities

- Extension of western breakwater by 150 m
- Removal of existing northern breakwater and construction of new northern breakwater of 675 m long

Proposed landside facilities

- Fish handling and auction hall
- Internal asphalted road and WBM surfaces

- RC sloping hard
- Net mending sheds – 2 nos.
- Fishermen rest sheds – 2 nos.
- Boat repair shop
- Fishery administration office
- Restaurant
- Radio-communication centre
- Public toilet – 2 nos.
- Security/guard house
- Compound wall
- Water supply, sewerage, electrical power supply, navigational aids, greenery, fire protection etc.
- Provision for repairs to existing facilities.

2.1.3 Field visit to Fishery Harbours and Fish Landing Centres

- Visited Uppalanka site in East Godavari District and Byyapputhippa site in West Godavari district in Andhra Pradesh to examine the possibility of developing them as fish landing centres.
- Visited Chinnamuttom and Nagapattinam fishery harbours to examine and forward comments on the project proposals for the expansion of existing fishery harbours under CSS, and Thoothukudi fishery harbour under NFDB financial assistance in Tamil Nadu.
- Visited Versova fishery harbour site in Maharashtra for overseeing the engineering investigations conducted by CICEF team.
- Visited existing Hejamadi Kodi fish landing centre in Karnataka in connection with the fishery harbour development along with officers from CWPRS, Pune and Government of Karnataka.
- Visited existing Gangolli fishery harbour to inspect the ongoing construction of training walls along with officers from CWPRS, Pune and Government of Karnataka.
- Visited Majali and Keni proposed fishery harbour sites along with officers from CWPRS, Pune and Government of Karnataka in connection with conduct of model studies by CWPRS, Pune.
- Visited Karanja fishery harbour site in Maharashtra to witness the confirmatory boreholes for ascertaining the presence of rocky strata and levels at the fishery harbour under construction.
- Visited Ratnagiri fishery harbour in Maharashtra to collect the updated data for economic evaluation of revised project cost estimate.

2.1.4 Pre-Feasibility Reports

I Uppalanka Fish Landing Centre in Andhra Pradesh

- The site is situated in Kakinada bay, about 4 km south of Kakinada, East Godavari district.
- The site being situated in creek, sheltered from sea waves.

- Pre-feasibility study conducted and report issued in August 2012.

II Biyyaputhippa Fish Landing Centre in Andhra Pradesh

- The site is located along the Nalli creek emerged from the western bank of Vasista Godavari river, about 16 km from Narasapuram, West Godavari district.
- The site being situated in creek, sheltered from sea waves.
- Pre-feasibility study conducted and report issued in August 2012.

2.1.5 Technical Appraisal Reports

I Beypore Fishery Harbour in Kerala

- The Harbour Engineering Department (HED), Government of Kerala had prepared a detailed project proposal at an estimated cost of Rs.227 lakhs in November 2011 and submitted to National Fisheries Development Board (NFDB), Hyderabad for financial assistance.
- A joint inspection of Beypore fishery harbour by the Director, Deputy Director (CE) and Assistant Director (Economist) of CICEF along with the Executive Director, NFDB in association with the officers of HED was undertaken in February 2012.
- During the site visit, CICEF and NFDB officers advised HED to further improve the proposal for providing fish hygiene and sanitation.
- Accordingly, HED submitted the revised proposal during March 2012.
- The following items of works were recommended at an estimated cost of Rs. 290.45 lakhs:
 - Upgradation of fish loading area and parking area
 - Improvement of effluent treatment plant
 - Construction of net mending shed
 - Improvements to water supply arrangements
 - Providing side covering , wash tubs to the existing new fish auction halls
 - Construction of covered fish loading area
 - Modernisation of electrification systems
- The technical appraisal report was issued in April, 2012.

II Thoothukudi Fishery Harbour in Tamil Nadu

- The Government of Tamil Nadu had prepared a project proposal for modernisation/upgradation of existing fishery harbour at an estimated cost of Rs.19.80 Crores in May 2012 and submitted to National Fisheries Development Board (NFDB), Hyderabad for financial assistance.
- A joint inspection of Thoothukudi fishery harbour by the Director and Deputy Director (CE) of CICEF along with the Senior Executive (Tech),

NFDB in association with the officers of fisheries department, Government of Tamil Nadu was undertaken in August 2012.

- During the site visit, CICEF and NFDB officers advised State engineers to further improve the proposal for providing fish hygiene and sanitation.
- Accordingly, the State Government had submitted the revised proposal estimated Rs.15.42 Crores during November 2012.
- The following items of works were recommended at an estimated cost of Rs. 12.29 Crores:
 - Strengthening and repair to the existing wharf and jetties
 - Improvements to the existing fish auction hall and net mending shed and construction of new fish auction hall
 - Reclamation and providing concrete surface at fish loading area and vehicle parking area
 - Providing internal concrete road and renovation of slipway
 - Construction of fresh water underground sump and fresh water supply
 - Provision for effluent treatment plant
 - Roof covering in the fish loading area in the existing fish auction hall
 - Improvements to existing lighting arrangements, provision for 110 KVA generator set including necessary electrical arrangements
- The technical appraisal report was issued in November, 2012.

2.1.6 Technical Comments

- Scrutinized and sent technical comments on the revised project cost estimate of proposed development of Ratnagiri Stage II fishery harbour in Maharashtra.

3.0 Conference, Workshop and Training

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

- Attended Brain-storming session on “Perspective Plan and Strategies for development of Fisheries and aquaculture in India” held at New Delhi.
- Engineers of this Institute attended short course on “Modelling and Data needs for Coastal Engineering Projects” at CWPRS, Pune, from 10th to 14th October 2012 organized by CWPRS, Pune.
- Participated and delivered lectures in Two days Workshop on “Preparation of DPR for Modernization and renovation of FH/FLC based on the NFDB guidelines” held at Hyderabad.
- Attended Short Term course on “World Trade Agreement and Indian Fisheries Paradigms; a policy outlook” organized by CMFRI, Kochi, at Kochi from 17-26 September 2012.
- Attended presentation meeting held at Muscat, Oman and presented draft Pre-feasibility report on “Pre-feasibility study for establishment of fish landing

centres along the coastal villages of the Sultanate of Oman” to the Ministry of Fisheries Wealth (MoFW), Sultanate of Oman.

4.0 Meetings

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

- Tamil Nadu State Level Monitoring Committee (SLMC) meeting at Chennai, held on 28th April 2012.
- Review meeting on construction of fishery harbours/fish landing centres under centrally sponsored schemes in Karnataka in the chamber of Principal Secretary, Animal Husbandry and Fisheries, Vikas Soudha, Bangalore, held on 14th May 2012.
- UPSC consultation meeting at New Delhi regarding filling up the post of Administrative Officer in CICEF.
- Meeting on finalization of design of harbour structures pertaining to Mangalore and Malpe 3rd stage expansion of fishery harbours convened by Principal Secretary, Government of Karnataka.
- Karnataka SLMC meeting held in Bangalore on 1st October 2012.
- DPC meeting at UPSC, New Delhi regarding filling up the post of Assistant Director (CE) in CICEF.
- Meeting on Comprehensive Development Proposal for the renovation and remodelling of fishery jetties of NIFPHATT, CIFNET and FSI convened by Ministry at New Delhi.
- Meeting at Dr.Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli in Maharashtra convened by Secretary (DARE & Director General, ICAR) regarding development of FH/FLC infrastructure in Maharashtra.
- Stakeholders consultation meeting at Versova, Mumbai organized by Commissioner of Fisheries, Maharashtra in connection with Versova fishery harbour layout prepared by this Institute.
- Stakeholders consultation meeting at Hejamadi Kodi, organized by Director of Fisheries, Karnataka in connection with Hejamadi Kodi fishery harbour layout prepared by this Institute.
- Meeting on “Development of Digital Knowledge Management Platform for Fisheries” organized by International Crop Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad at NASC Complex in New Delhi.
- Technical discussion with CWPRS, Pune regarding conduct of model studies for the development of fishery harbours at Majali and Keni in Karnataka.

5.0 Visitors

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

Government of India

- Dr. S.B. Agnihotri, AS & FA and Sri L. Shankar, Deputy Commissioner (FH), AHD&F, New Delhi, visited the Institute on 1st October 2012 and reviewed the activities of the Institute.
- S/Sri Prabhakar Raj and Lazarus, Sr. Executives (Tech) visited the Institute regarding modernization/ renovation proposal of Vizhinjam fishery harbour in Kerala under NFDB financial assistance
- Director General and Director (Engineering) of Fishery Survey of India, Mumbai, visited for discussion on Comprehensive Development Proposal of the renovation and remodelling of fishery jetties of NIFPHATT, CIFNET and MED of FSI at Kochi.
- WAPCOS Engineers from Gujarat visited the Institute regarding modernization/ renovation proposals of FLCs under NFDB financial assistance.

Government of Karnataka

- Joint Director of Fisheries, Executive Engineer and Asst. Executive Engineer from Department of Ports and Inland Water Transport visited the Institute to discuss the upgradation of Hejamadi Kodi fish landing centre into fishery harbour and proposed designs of harbour structures pertaining to Mangalore and Malpe 3rd stage expansion of fishery harbours.

Government of Tamil Nadu

- Engineers of Fisheries department visited the Institute regarding modernization/ renovation proposal of Cuddalore fishery harbour under NFDB financial assistance.

Government of Maharashtra

- Sri Jadhav, Harbour Engineer from Navi-Mumbai visited the institute for discussion on the ongoing Karanja fishery harbour.
- Executive Engineer (Civil) of department of Fisheries and Asst. Harbour Engineer of Alibag visited regarding Jeevana Bundar, Harnai & Sakharinate fishery harbour proposals and other NFDB financial assistance projects.
- Mr. S.Y.Deokar, Section Engineer, Ratnagiri Harbour Division, visited in connection with finalization of revised cost estimate of Ratnagiri fishery harbour Stage II development.

6.0 Publications

Annual Report 2011-12

7.0 Administration and Finance

Against Budget Estimate (BE) of Rs.375 lakhs and Revised Estimate (RE) of Rs.399.4 lakhs under Non Plan, an expenditure of Rs. 270.95 lakhs have been incurred during the fiscal year 2012-13.

7.1 Appointments

- Shri S. S. Ramesha was appointed as Junior Engineer with effect from 6th July 2012.
- Shri Gadkari Chetan Panjabrao was appointed as Junior Engineer with effect from 9th July 2012.
- Shri T. Satish Kumar was appointed as Junior Engineer with effect from 16th July 2012.
- Shri Mohammad Aatif was appointed as Junior Engineer with effect from 6th December 2012.

7.2 Promotions

- Shri S.Gopalkrishna, Junior Engineer was promoted as Assistant Engineer (Civil) with effect from 07th June 2012.
- Shri M.C. Manjunatha, Assistant Engineer (Civil) was promoted as Assistant Director (CE) with effect from 30th July 2012.
- Shri A. Vincent Paul, Junior Engineer was promoted as Assistant Engineer (Civil) with effect from 6th August 2012.

7.3 Retirement/resignation/repatriation to parent department

- Shri M Lakshman Murthy, Accountant retired from service on superannuation on 30th April 2012.
- Shri Vinay Kumar, LDC resigned for the post and relieved from duty on 15th May 2012.

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 upgradation under MACPS to staff of this Institute.

The Committee held its meetings on 29th February 2012 and 4th February 2013, considered and cleared the following cases for the grant of financial upgradation:

- i. Sri P.N.Achutha Prasad, UDC-cum-Store Keeper with effect from 12th August 2012.
- ii. Sri M.S.Madhu Mohan, Foreman (D) with effect from 9th December 2012.
- iii. Sri M.Muni Raju, Field Assistant with effect from 18th January 2013.

7.5 Vigilance Awareness Week

The Institute observed Vigilance Awareness Week from 29th October - 03rd November 2012.

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 constituted with the following members. The committee periodically met and reviewed the progressive use of Hindi in official correspondence.

S/Shri	
C. T. Betgeri, Director	Chairman
N.Venkatesh Prasad, Deputy Director (CE)	Member
N.Ravi Sankar, Deputy Director (CE)	Member
P.N. Achutha Prasad, UDC-cum-Store Keeper	Member
Manoj Kumar Gupta, LDC	Member

The Institute celebrated Hindi Divas on 14th September 2012 and Hindi fortnight between 14th and 29th September 2012.

9.0 Library

The Institute is having a library with collection of several technical and administration books/ journals. 16 nos. of books were added newly to the collection in this year.

10.0 Implementation of Right to Information (RTI) Act

The Institute received 15 numbers of applications under RTI Act during the year and information supplied.

11.0 Photos



Photo 1: Engineering investigations at Hejamadi Kodi, Karnataka



Photo 2: Stakeholders' meeting at Hejamadi Kodi, Karnataka.



Photo 3: Engineering investigations at Versova, Maharashtra.