



भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण

(पोत परिवहन मंत्रालय, भारत सरकार)

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INLAND WATERWAYS AUTHORITY OF INDIA

(Ministry of Shipping, Govt. of India)

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No. IWAI/HQ/NTCPWC/IIT-M/2017-18

Dated: 27.08.2019

To,

The Principal Scientist,
National Technology Centre for Ports,
Waterways and Coasts (NTCPWC),
Indian Institute of Technology–Madras,
Chennai – 600 036.

(*Kind Attn.: Dr. Kumaran Raju*)

Sub: Setting up of National Centre for ports, Waterways and coasts (NTCPWC) at Indian Institute of Technology–Madras (IIT-M)–Forwarding of approved Minutes of the 3rd oversight committee meeting held at IIT-M, Chennai on 08.07.2019 – Reg.

Ref: Your e-mail communication dated 12.08.2019 enclosing the draft Minutes of 3rd oversight committee meeting.

Sir,

Reference to the e-mail communication cited above on the subject, I am directed to forward a copy of the approved Minutes of the 3rd oversight committee meeting held at IIT-M, Chennai on 08.07.2019 for necessary action. This issues with the approval of Chairman of the oversight committee of NTCPWC.

Your faithfully,

(S. V. K. Reddy)

Chief Engineer (Tech.)

Encl.: As above.

Copy to: 1. Vice Chairman, IWAI, Noida.
2. Member (Tech.), IWAI, Noida.



छंजपवदंस जमबीदवसवहल ढदजतम वित च्यतजेएँ जमतुंले दक ब्वेजे ;छज्ज्द
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI – 600 036

MINUTES OF 3rd OVERSIGHT COMMITTEE MEETING

HELD ON

08-07-2019

11: 30 AM – 01:30 PM

**MINUTES OF THE 3rd OVERSIGHT COMMITTEE MEETING, NATIONAL TECHNOLOGY
CENTRE FOR PORTS, WATERWAYS AND COASTS (NCPWC)**

Date: 8th July, 2019

Time: 11:30 – 1:30

Venue: Conference Room, 6th Floor New Academic Complex, NCPWC, I.I.T Madras

Oversight Committee

1	Mr. Pravir Pandey, Chairman, IA&AS, IWAI	Chairperson
2	Mr. K.K.Agarwal, Joint Secretary, Sagarmala, MoSH	Member (joined through VC)
3	Mr.P.Raveendran, Chairman, Chennai Port Trust	Member
4	Mr. S. Balaji Arunkumar, Dy. Chairman, Kolkata Port Trust	Chairman i/c
5	Prof.K.Murali Professor, IIT Madras	Member secretary

S.No.	Name	Invitees
1	Prof Bhakar Ramamurthi, Director, IITM	Patron
2	Mr.Sharada Prasad, Advisor, Sagarmala	Invitee (joined through VC)
3	Prof Sundaravadivelu, Professor, IITM	Chairman PMC
4	Prof Sannasiraj, Professor & HOD, IITM	Invitee
5	Mr.Ashutosh Singh, Consultant, Sagarmala Cell, Ministry of Shipping	Invitee
6	Ms. Faiz Sultana, Chennai Port Trust	Invitee

The meeting of the oversight committee commenced with Prof.K.Murali, welcoming Chairperson & members.

1. Confirmation of the Minutes of the 2nd Oversight committee meeting held on 21.01.2019.

The committee gone through the various items of the minutes of the 2nd oversight committee meeting and the actions taken. The topic on simplified communication on the value offering of NCPWC for major and minor ports was reiterated again in view of the cost competitiveness of the value offering by NCPWC to ports and waterways. Prof Murali emphasized that a detailed breakdown of the cost for each task and also for services such as data collection and survey services is being provided in the budget for all the proposals submitted by NCPWC. Chairman, Chennai Port suggested that NCPWC can provide guidance and support to port on the

competitiveness of the study to be awarded on nomination basis. The Chairman also stated that NTCPWC is being setup as Centre for Excellence and being a technology arm the services that are provided are of specialized in nature. NTCPWC can justify that the service and cost are of specialized and of unique in nature for consideration to be nomination basis. Mr Ashustosh mentioned the main aim of the development of the rate card for services from NTCPWC is to publicize and to create awareness on the type of specialized services that is being provided not only for major port but also for other agencies such as state maritime boards, small sea ports and harbours that they will be also benefitted. Prof Murali mentioned that the rate card will be removed from the website since the dissemination of such information need to be restricted only to Ports, Waterways and other MoSH agencies. This was concurred.

There were no further comments and 2nd Oversight committee minutes was confirmed.

2.0 Discussion on Agenda points

Prof Murali gave a quick overview of the various Agenda items that were discussed during the meeting.

2.1 Development of Office and Research space

1. Under the development of office and research space, the progress of the development of 360-degree simulator and a video presentation of virtual walkthrough was presented to the committee. Prof. Murali also clarified to the query on the delay in timeline, which is due to the change in requirements of the display in order to comply with DG Shipping guidelines on building a seamless display which requires projector based displays in place of LED displays. The tender for procurement of projectors was initiated already and it is in the stage of release work order. He also added that the setup of upon placing the work order will be complete in 6 weeks' time. He also added the details of the training and the type of studies that can be carried out in the simulator. He further added that the simulator will be run by NTCPWC with the technical support from ARI as part of collaboration agreement. In addition, the collaborative contract allows flexibility to include custom port models (in addition to all major port models as well as three inland waterways models), ship models and custom tools in ARI software application. It was proposed that the NTCPWC familiarization workshop and the inauguration of the 360 Degree simulator can be scheduled together.
2. The status of the of the dedicated office space and the wave basin planned to be developed at Discovery campus located at Thiyur campus was demonstrated through a virtual walk through video. The work was awarded already to CPWD as deposit work and it is expected to be complete by December, 2019. Prof Murali explained the details of the campus and also the capacity of the wave basin that can handle both wave generation and capacity to build multiple large physical models.
3. The development of Field Research Lab was almost completed with the procurement of the necessary instrumentation and the dedicated High Performance Computational Facility initiated as part of the central procurement of IIT Madras computational facility.

2.2 Progress of Research Projects activities

The progress of all the 11 research projects follows the proposed time schedule and one of the important project on the demonstration of Drag Flow Dredger Silt Trap & Shoal Dredging progress was highlighted since the project is of important milestone of NTCPWC. The fabrication of the dredger is completed and it can be used in shallow water and river mouths. The technical details

and the functionality of the dredger were explained by Prof Murali and Prof Sundaravadivelu. Chief Engineer, IWAI questioned if the dredger can be used in Inland Waterways. Prof Murali and Prof Sundaravadivelu explained that the dredger is designed based on suction principle and can be used in shallow waters, shoals and river mouths where deployment of conventional dredgers not possible. The dredger can be transported both by land and water. Chairman proposed that there is a high demand in Inland waterways for emergency purpose for shipping movement which requires self-propelled dredgers. He requested if this can be thought through that can help IWAI to meet the demand. The other projects that were of important is the Autonomous Surface Vessels that can be used for channel surveying and it can be deployed in all major ports and places where high demand of hydrographic surveys is needed. Some of the other projects that were discussed were the impact of ship/boat wave wakes on banks, multiple ship interactions in inland waterways and coasts as well as the Web based comprehensive dredging monitoring in major ports. Prof Murali updated the status and explained the details of the each of the project and it was suggested by the committee that, if some of the results can be expedited for the use of Inland waterways and ports. Prof Murali replied that he will get the results compiled as and when it is available and submit it separately based on the requirements. Under the web based comprehensive monitoring its was proposed to include the section from Haldia to Farakka sector as a start for IWAI to use the forecast system that is being currently developed for major ports. Also it was proposed to host a video on the capabilities for web based monitoring of dredging and host in NTCPWC website so that ports and other organization can be aware such capabilities and services is available with NTCPWC. In addition, Mr Ashutosh proposed to coordinate and compile all the necessary data as part of central data repository from all the ports and also ensure them that it will maintained in a confidential manner.

2.3 Financial Status

Prof Murali briefed on the financial status by providing the details on funds utilization for the first year and the funds received from agencies for the second year. Chairman and Mr Ashutosh informed that all the expenditure need to be filed in PFMS and made visible to Ministry, IWAI and Ports that can help in tracking of accounts as well as to expedite the release of the funds.

2.4 Details on New and Innovative projects ongoing and proposed for Ports and Waterways

Prof Murali explained the details about the new projects developed under NTCPWC. Chairman asked for the progress update on the Pandu Slip project. Prof Sannasiraj provided the updates and clarified the queries on the project progress. Dr Raju provided a quick overview on the innovative projects such as Drone based 3D model development of Ports, Telemetry system for Tide gauges, Smart port and Yard management, Real time Underwater Keel Clearance, Virtual water level apps etc. which are already in progress. As part of collaborative and innovative presentation an interactive 3D demonstration of the Haldia Dock operation system to improve the efficient with the locks and opening up of the channel as demonstrated through interactive visual aids and video conferencing system (Joint Secretary and Advisor Sagarmala interacted with the model demonstration through Video Conferencing).

2.5 NTCPWC Capacity building

In view of the additional capabilities that was discussed during the meeting with Honorable Minister for Shipping the list of additional facilities and the funding required were briefed to the committee. Joint Secretary and Advisor Sagarmala proposed to provide the details and can be taken up separately.

2.6 Update on Meetings, Conference & Workshops conducted

Prof Murali briefed on the various meetings and workshops that were conducted for the past six months as well as the planned workshops.

2.7 Overseas cooperation

Under the Overseas cooperation Prof Murali explained the initiatives of the cooperation with Wuhan University, Republic of China and also with TuDelft, Netherlands. Chairman stated that the overseas cooperation with Wuhan and Netherlands is a good initiative and he also stated that National Inland Waterways Institute (NINI) is in discussion with STC Training & Consultancy of Netherlands and he requested if NTCPWC can help NINI and IWAI to coordinate further for potential collaboration to conduct training programs.

2.8 Andaman Lakshadweep Harbour Works (ALHW) to be added to the list of ports

The proposal on inclusion of Andaman Lakshadweep Harbour Works (ALHW) as part of the award of projects on Nomination basis to NTCPWC was discussed and Mr Ashutosh stated that it will be taken up with MoSH.

3.0 Any Other Items with the permission of Chairperson

The item on Administrative and financial privileges for NTCPWC in terms of smooth day to day operations was discussed separately with Sagarmala due to lack of time.

The meeting ended with vote of thanks by Prof Murali.