

## BRIEF ON MINOR PORTS SURVEY ORGANISATION (MPSO)

### **1. BACKGROUND OF MINOR PORTS SURVEY ORGANISATION:**

- 1.1 In September 1956 the Hydrographic Survey Committee of the national Harbour Board had observed that the country's resources for meeting increased demand for Hydrographic Surveys were not sufficient. On the basis of this observation the Govt appointed a two men committee comprising of Capt. J. Cursetji, Indian Navy the then Chief Hydrographer to the Govt of India and Shri. I.J. Chacko, Officer on special duty, Ministry of Transport to study and recommend suitable measures to meet the country's growing needs of Hydrographic Survey.
- 1.2 On the basis of "Report and Recommendation" of the expert committee submitted in 1957, the Minor Ports Dredging and Survey (Ports) was formed in 1962 as a non profit Organisation under the erstwhile Ministry of surface Transport. At a later stage dredging part was bifurcated and Minor Ports Survey Organisation continued to function since then with the Head Quarter at Mumbai.
- 1.3 Since its inception in 1962 MPSO is conducting the Hydrographic Surveys in the country pertaining to the Major and Minor Ports, Anchorages, Rivers, Lakes, Inland Waterways and island etc required in connection with the various purposes such as Navigation, project-cum-engineering, Dredging, Irrigation, Tidal Power, Tourism, Inland waterways, Siltation, Erosion, Pollution, Flood control, Seismic activities etc having Nation wide scope, functions and utility.

### **2. WORK ALLOCATION:**

- 2.1 MPSO under the Ministry of Shipping is undertaking Hydrographic Survey tasks as per the yearly programme allotted by the Hydrographic Survey Committee of the Govt of India, which meets every year to chalk out the programme for the survey season on the basis of priority fixed from amongst the requisitions received and accumulated. The Hydrographic survey committee also takes stock of the work done by both the MPSO and Hydrographic Department of the Indian Navy in the previous year.

2.2 The Organisation has executed more than 250 Hydrographic Surveys till date at about 100 distant sites in the country pertaining to various types of surveys. The results of these surveys have also been utilised for publication and updating of Navigational charts by the National Hydrographic Office of the Indian Navy as per the co-ordination laid down to that effect.

### 3. FUNCTIONING OF MINOR PORTS SURVEY ORGANISATION:

3.1 The cost of each survey is recovered from the various organisations for which the surveys are conducted on No-Profit-No-Loss basis, at the survey charges framed by the Govt of India on year to year basis. The rates of survey charges to be recovered are fixed by taking into account the day to day expenditure such as pay and allowance of the staff, running cost for the machinery and vehicles etc., and 10% of amount incurred during preceding 10 years for procurement of instruments, launches and vehicles under plan expenditure.

3.2 MPSO is conducting hydrographic surveys in fair season i.e from October to May every year. During the survey season all the field staff is deputed to various survey sites for Hydrographic survey and back to head quarters at Mumbai on completion of survey work. During the remaining period the survey staff prepares the survey reports and finalise the survey charts of the area surveyed.

### 4. ADMINISTRATIVE SETUP:

4.1 Minor Ports Survey organisation has four survey parties each headed by an Asstt. Hydrographic Surveyor. The Senior Hydrographic Surveyor is the Head of Office of Minor Ports Survey Organisation with his office at Mumbai. MPSO is under the administrative control of D.G (Shipping), Mumbai.

4.2 The total sanctioned strength of officers and staff of MPSO is 234. Details are as follows:-

S. No	Group	Designation	Total No of post	Field staff	Office staff	Filled Posts	Vacant Posts
1	A	Sr.HydrographicSurveyor	01	--	01	01	---
2	A	Asstt.Hydrographic Surveyor	07	07	---	04	3
3	B	Office Superintendent	01	---	01	01	---

4	B	Jr.HydrographicSurveyor	12	12	---	10	02
5	C	Sr. Hindi Translator	01	---	01	01	---
6	C	Accountant	01	---	01	01	---
7	C	Diesel Engine Mechanic	03	03	---	03	---
8	C	Sr. Draftsman Gr I	02	02	---	01	01
9	C	Sr. Draftsman Gr II	02	02	---	02	--
10	C	Marine Engine Driver	03	03	---	03	---
11	C	Stenographer	01	---	01	---	01
12	C	Upper Division Clerk	06	---	06	06	---
13	C	E.C.E.S.M	03	03	---	03	---
14	C	Serang	03	03	---	03	---
15	C	Carpenter	01	01	---	01	---
16	C	Lower Division Clerk	07	---	07	02	05
17	C	Transport Driver Gr-II	02	01	01	02	---
18	C	Transport Driver Gr-III	03	03	---	02	01
19	C	Field Assistant Gr-I	09	09	---	09	---
20	C	Field Assistant Gr-II	10	10	---	10	---
21	C	Field Assistant Gr-III	07	07	---	07	---
22	D	Tindel	09	09	---	03	06
23	D	Deck Hand	13	13	---	13	---
24	D	Greaser	11	11	---	10	01
25	D	Cook	05	05	---	05	---
26	D	Watchman	01	---	01	01	---
27	D	Peon	01	---	01	---	01
28	D	Helper	01	01	---	01	---
29	D	Khalasi	08	08	---	08	---
		<b>TOTAL</b>	<b>134</b>	<b>113</b>	<b>21</b>	<b>113</b>	<b>21</b>

## 5. ACHIEVEMENTS:

MPSO has executed more than 250 Hydrographic Surveys across thirteen states and three union territories of India including A & N Islands and Lakshadweep Group of Islands. Major surveys conducted by MPSO are detailed below.

- Visakhapatnam outer Harbour was surveyed from 1966 to 1967.
- The Tuticorin Port (62-67) and Mangalore Port (62-65) were based on MPSO surveys, which also provided the data for Setusamudram Project.

- The examinations of several anchorage sites have been executed. Kalpakkam (64-65) was evaluated for Bhabha Atomic Research Centre, Ennore (65-66) for thermal power station and Sriharikota (74-75) for Space Research Dept.
- The Inland Waterways of Goa (66-78) have been surveyed keeping navigation and tourism in mind.
- The Dal Lake (79-82) and Wullar Lake have been surveyed as part of environmental studies.
- 800 km. of Brahmaputra River in Assam and 150 km. of Jhelum in between Anantnag & Wullar Lake in Kashmir have been surveyed keeping flood control in mind.
- Several river stretches from Kakdwip to Hasnabad in Sunderban had been surveyed for IWT, Navigation Cell, Kolkata including 950 km. of Ganges between Farakka to Allahabad for National Waterways Project.
- All the inner creeks of Gulf of Kutch have been surveyed for Tidal Power Project
- Pre & Post dredging surveys in major ports viz JNPT, NMPT, MGPT, KPT & CPT.
- Emergency survey in Kandla Port Trust in June 1998 for clearance of navigational channel immediately after the super cyclone.
- Navigational survey of 103 Sq. Km areas of JNPT Port Limits for updating of JNPT navigation chart by Indian Navy during 2002.
- Deployed survey teams on emergency basis in Port Blair Harbour, Car-Nicobar, Katchal and Little Andaman Islands to carry out statutory surveys with regards to extent of changes of seabed profiles, coastal features and navigational marks on account of damages sustained to the islands due to Tsunami disaster on 26-12-2004.
- The original data of MPSO surveys are being submitted to the National Hydrographic Office Dehradun for quality control prior to publication of navigational charts by NHO.
- NHO appreciated MPSO for the data collected in JNPT navigational survey is of high quality.
- Hydrographic surveys in most difficult & disturbed conditions in Haora and Gumti rivers in the state of Tripura during 2004-05 and 2006-07 with the help of tight security provided by Govt. of Tripura.

## 6 CAPABILITY:

- MPSO conducts Hydrographic surveys in accordance with general instructions to Hydrographic Surveyors of British Admiralty and other international standards of specification viz SP- 44.

- The surveys are conducted to the nearest accuracy by using Survey of India Restricted Data.
- MPSO is one of the approved agencies, along with NHO, by MOD, to obtain Restricted Maps and Data from Survey of India. This Data is the main criteria in achieving the accuracy in Hydrographic surveys.
- With the available infrastructure MPSO is capable of conducting the surveys only within the Port Limits.
- MPSO is producing the computerized survey charts with auto logging system.
- The data collected by MPSO is being used by NHO for updating of Navigational charts after quality control check.

## **7. BUDGET ALLOCATION:**

Total budget under Non-Plan 3051 towards salaries, TE, Office expenses and Minor works will be allotted by the Ministry and the revenue collected in the form of Survey charges is being deposited to consolidated fund of Govt of India.

\*\*\*\*\*