# 20th Meeting of the North Indian Ocean Hydrographic Commission

## National Report by

## MYANMAR -(Member)

# Main achievements during the year

- Kyauk-Hta-Naung Coastal Area (Southern Coast of Myanmar)
- Maw Tone Gyi Coastal Area (Southern Coast of Myanmar)
- Yangon River (Central Coast of Myanmar)

# Main achievements during the year

## Kyauk-Hta-Naung Coastal Area (Southern Coast of Myanmar)

Chart No. 308 (Scale 1:100000) Approaches To Kyauk Hta Naung Harbour Southern Coast of Myanmar.

# Main achievements during the year

## Maw Tone Gyi Coastal Area (Southern Coast of Myanmar)

Chart No. 3401(Scale 1:40000) Approaches To Maw Tone Gyi Harbour

# Main achievements during the year

## Yangon River (Central Coast of Myanmar)

Chart No. 2402 (Scale 1:25000)
Yangon River
Chart No. 2403 (Scale 1:25000)
Yangon River

# Main challenges

- MNHC has been putting its upmost efforts in all reasonable and possible means to promote its professional skill for hydrographic surveys and chart production since 2000s. The manual chart compilation has been successfully changed to digital chart compilation which leads the ENC production role according to IHO standards. After passing almost one decade, MNHC has reached proper level in sufficient knowledge of ENC production.
- But the wide sea area remains unsurvey as big challenge. To conduct hydrographic survey in entire water to promote safety of Navigation matters, MNHC has been upgrading its acoustic systems started from 2014-2015. MNHC procured Kongsberg multibeam systems, EM 2040C and Geoswath Plus upon official end user recognition in respective years 2014 and 2015. The systems were installed onboat survey ships UMS Innya and UMS 115 respectively. Those were the well efforts which bring MNHC forward to promoting its capability to implement IHO's requirements.

# Main challenges

- After using the multibeam system for few years, now the systems had get failure in 2019. MNHC tried to contact OEM for providing technical support to repair the system but the request was rejected by OEM several times for the reason of sanction applied on Myanmar.
- As described, the systems were not in operational since end of 2019 which was four years after installation. Rejection to get OEM technician, it made MNHC's acceleration which is going forward partially sized. MNHC is representative of Myanmar like many other countries set their Navy as representative. Regardless of other matters, MNHC look forward to promoting its professional skill to enhance safety of navigation. MNHC cares participation in IHO, cooperating with member states.

# Main challenges

- Therefore, MNHC would like to request NIOHC Chair, members and industries to make sure the OEM's rejection to support technician to repair Multibeam system was unfair as the procured time was before sanction applied.
- MNHC puts its strong expression and request about this problem here in this annual report and MNHC would like to call for NIOHC community to consider to take necessary action to provide technical assistant for repairing Multibeam system form OEM.

# Progress on charting

**Paper Chart:** MNHC has produced 135 nautical paper charts but some of them are not in commercial used before. Now MNHC is more focusing on safety of navigation purposes not only for navy ships also for commercial uses. MNHC is categorizing nautical paper charts into two groups- Military Purposes and Commercial Uses, then those appear as commercial usage nautical paper charts will be distributed to various uses of mariners. In 2020 and 2021, MNHC has conducted hydrographic surveys in Southern Coast and Yangon River, produced the following charts (Some of them will be published to commercial services soon)-

Chart No. 308 (Scale 1:100000) Approaches To Kyauk Hta Naung Harbour Southern Coast of Myanmar.

Chart No. 3401(Scale 1:40000) Approaches To Maw Tone Gyi Harbour, Southern Coast of Myanmar.

Chart No. 2402 (Scale 1:25000) Yangon River

Chart No. 2403 (Scale 1:25000) Yangon River

# Progress on charting

❖ **ENCs** Production-The following 4 MM ENC cells for commercial use till 2020 and MNHC is putting more effort to accelerate ENC production to cover more Myanmar waters-

- MM4009A0
- MM4009A1
- MM40024A
- MM40024B

# Progress on MSI

- 45 Notices to Mariners in 2020.
- 12 NTMs have been promulgated in this year and those were sent to regional coordinator and other HOs.
- As MSI concerns, MNHC is working together with International Hydrographic Community nowadays and other local government organizations such as Myanmar Port Authority-MPA, Myanmar Oil and Gas Enterprise-MOGE, Ministry of Transportation and Communication-MOTC, Department of Marine Administration-DMA and Directorate of Myanmar Inland Waterway, etc.

# C-55 –Latest Update

- **Status of Hydrographic Surveying**

| | A | B | C |
|---|---|---|---|
| **Depth < 200 m** | 80 % | 15 % | 20 % |
| **Depth > 200 m** | 10 % | 10 % | 90 % |

- **Status of Nautical Charting**

| | A | B | C |
|---|---|---|---|
| **Offshore Passage/ Small Scale** | 10 % | - | - |
| **Landfall and Coastal** | - | - | - |
| **Approaches and Ports/ Large Scale** | 20 % | - | 60 % |

# New Publications and Publication Updates

- MNHC promulgate annual tide prediction table for 11 major ports.
- Published Myanmar Inland water sailing direction in local language.

# Capacity Building

- **Aboard Training:** In 2020, One officer had completed Long-H (CAT-A) Course and four sailors had also completed Survey Recorder Course in India.

# Capacity Building

- Request for Support

MNHC still requires more Cartographic training and ENC production, distribution trainings or workshops.

# Oceanographic Activities

- MNHC representatives participated onboard in research program by Chinese RV Xing Yang Hong 06 for the activities of climate change, chemical properties of sea water and marine ecosystem survey in Myanmar water in 2020.

# Other Activities

- Aids to navigation activities: MNHC involves and cooperates with MPA in the maintenance activities of aids to navigation.
- Meteorological activities: MNHC collects meteorological data from navy ships along the coast and then shares to Department of Meteorology and Hydrology for future weather predictions.

# Conclusion

- Conducted hydrographic surveys at the important major ports, updated nautical charts
- ENC production progress has also been positively and moved forward to a proper stage
- Cooperated with NAV AREA COORDINATOR and Foreign HOs for MSI concerns
- Received training courses, workshop opportunity from NIOHC and member states
- Needed training and workshops for Capacity Building for future generation