



**NATIONAL REPORT
INDIA**

INDIAN NAVAL HYDROGRAPHIC DEPARTMENT

ROLE

- Hydrographic Surveys and Production of Nautical Products
- Maritime Safety Information in NAVAREA VIII - Indian Ocean, Arabian Sea and Bay Of Bengal

SHIPS

- Six Survey Ships and One Catamaran

TRAINING

- CAT 'A' and CAT 'B' courses at National Institute Of Hydrography- Goa

TRAINING COURSES

<u>Ser</u>	<u>COURSE</u>	<u>DURATION</u>
(a)	<u>Long 'H' Course.</u> CAT 'A' course recognized by IHO eligible students awarded MSc Degree from Goa University.	43 Weeks
(b)	<u>Basic 'H' Course.</u> CAT 'B' course recognized by IHO	29 Weeks
(c)	<u>PO 'Q' HY.</u> An advanced level sailor course. On successful completion diploma in hydrography awarded from Kochi University of Science And Technology.	20 Weeks

TRAINING COURSES

<u>Ser</u>	<u>COURSE</u>	<u>DURATION</u>
(d)	<u>LS HY 'Q' Refresher.</u> A mid-level sailor refresher course.	11 Weeks
(e)	<u>BASIC 'Q' HY.</u> An Entry Level Sailor Qualifying Course.	16 Weeks
(f)	<u>ENC Production Workshop.</u> Tailor made courses based on requirement projected	1-2 Weeks

HYDROGRAPHIC SURVEYS

- National surveys
- International surveys
- Defence surveys



NEW TECHNOLOGIES AND SOFTWARE

- **Deployment of AUV**
- **Utilisation of ROV**
- **Latest data acquisition and processing software**



INT CHARTS- AREA H

- Total 34 ENC's and 31 Equivalent Paper Charts produced for Area H

<u>INT No.</u>	<u>Prod.</u>	<u>National No.</u>	<u>TITLE</u>	<u>Scale</u>		
				<u>1:</u>	<u>Lat</u>	<u>ENC</u>
7739	IN	2514	Approaches to Port Louis	37500	20 ⁰⁰ 'S	Yes
			Port Louis	12500		Yes
77391	IN	2503	Approaches to Cargados Carajos Shoals (Saint Brandon)	75000	16 ⁰³³ 'S	Yes
77392	IN	2504	Mathurin Harbour	12500		Yes
77393	IN	2505	Approaches to Mathurin Harbour	25000	20 ^{00.00} 'S	Yes
77394	IN	2506	Plan A- Grand Bay	25000	20 ^{00.00} 'S	Yes
			Plan A- Grande Riviere Noire Bay	25000		
77395	IN	2507	Grand Port	12500		Yes
77396	IN	2512	Agalega Island	37500	10 ^{00.00} 'S	Yes
77397	IN	2527	Mauritius	125000	20 ⁰⁰ 'S	Yes

NATIONAL SERIES CHARTS AND ENC_s IN AREA 'H'

<u>SEYCHELLES</u>				
<u>National No.</u>	<u>Title</u>	<u>Scale 1:</u>	<u>Publication date</u>	<u>ENC</u>
2552	Western Approaches To Mahe Island	37500	30 Nov 2017	Yes
2509	Assumption Island	25000	15-May-2014	Yes
2513	Coetivy Island	37500	15-Nov-2013	Yes
2550	Port Victoria	7500	31-Mar-2017	Yes
2551	App. To Port Victoria	35000	30-Nov-2017	Yes
2554	Aldabra Island	15000	15-Jun-2017	Yes
2555	Approaches to Aldabra Island	37500	15-Jun-2017	Yes
2556	Inner Approaches to Port Victoria	12500	30 – Nov - 2021	Yes

NATIONAL SERIES CHARTS AND ENC_s IN AREA H

TANZANIA

<u>National No.</u>	<u>Title</u>	<u>Scale 1:</u>	<u>Publication date</u>	<u>ENC</u>
2516	Dar Es Salaam Harbour	7500	31-Aug-2014	Yes
2517	Dar Es Salaam Anchorage	15000	31-Oct-2014	Yes
2520	Approaches to Dar Es Salaam	30000	15-Jan-2015	Yes
2524	Port of Zanzibar	20000	15-Jan-2015	Yes
2528	Appr. To Mkoani Hr	50000	30-Jun-2016	Yes
	Mkoani Hr.	25000		Yes
2693	Tanga Port	15000	30-Nov-2017	Yes

NATIONAL SERIES CHARTS AND ENC_s IN AREA H

KENYA

<u>National No.</u>	<u>Title</u>	<u>Scale 1:</u>	<u>Publication date</u>	<u>ENC</u>
2642	Manda Bay	25000	31-Mar-2017	Yes
2641	Kiwaiyu Bay	25000	31-Mar-2017	Yes
2640	Mkokoni	25000	31-Mar-2017	Yes
2643	App. To Manda Bay	37500	31-Mar-2017	Yes

NATIONAL SERIES CHARTS AND ENC_s IN AREA H

MOZAMBIQUE

<u>National No.</u>	<u>Title</u>	<u>Scale 1:</u>	<u>Publication date</u>	<u>ENC</u>
2510	Beira Port	15000	15-Feb-2013	Yes
	Pungoe Wharf	7500		Yes
2511	Approaches to Beira Port	20000	15-Feb-2013	Yes

NATIONAL SERIES CHARTS AND ENC_s IN AREA H

MAURITIUS

<u>National No.</u>	<u>Title</u>	<u>Scale 1:</u>	<u>Publication date</u>	<u>ENC</u>
2529	Northern Islets of Mauritius	50000	31-Dec-2018	Yes
2530	Approaches to Grand Port (New Edition)	30000	31- Dec-2021	Yes
2531	Rodrigues Island	50000	15 – Dec - 2020	Yes

ENC AND PAPER CHART DISTRIBUTION

- Paper charts marketed through our chart agents list in website-
www.hydrobharat.nic.in.
- Paper chart updated through N to M fortnightly
- Digital Catalogue available in WEB page
- ENC distributed through VARs:
 - UKHO
 - PRIMAR

MARINE SAFETY INFORMATION TRANSMISSION

- NAVAREA ISSUED FOR NAVAREA VIII
- UPDATED WARNINGS AND NTM AVAILABLE ON WEBSITE
- COUNTRYWISE NAVAREA REQUEST FROM COASTAL STATES AREA 'H' ARE :-

<u>Country</u>	<u>Number of Messages</u>	<u>Topics/ Subject of Messages</u>
Mauritius	02	Firing Exercise, Survey
Reunion Island	06	Survey, Distress
South Africa	02	Firing Exercise, Survey

CAPACITY BUILDING- HYDROGRAPHIC SURVEYS

- Hydrographic Cooperation in Area H
- Training on Hydrography at NIH

Country	No's of Trainee
Tanzania	Two
Namibia	One
Kenya	Two

- Cartographic Training at NHO





THANK YOU