



# INDIAN NOTICES TO MARINERS



EDITION NO. 01 DATED 01 JAN 2014

(CONTAINS NOTICES 031 TO 037)

**NATIONAL HYDROGRAPHIC OFFICE WISHES ALL MARINERS A HAPPY NEW YEAR 2014**

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(PUBLISHED ON NHO WEBSITE ON 1<sup>ST</sup> & 16<sup>TH</sup> OF EVERY MONTH)

**FEEDBACK:** [msis-incho-navy@nic.in](mailto:msis-incho-navy@nic.in)



**INSIST ON INDIAN CHARTS AND  
PUBLICATIONS**  
Original, Authentic and Up-to-Date



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## II

### **MARINER'S OBLIGATION AND A CHART MAKER'S PLEA**

Observing changes at sea proactively and reporting them promptly to the concerned charting agency, is an obligation that all mariners owe to the entire maritime community towards SOLAS. Mariners are requested to notify the Chief Hydrographer to the Government of India at the above mentioned address/fax number/ E mail address immediately on discovering new or suspected dangers to navigation, changes/defects pertaining to navigational aids, and shortcomings in Indian charts/publications. The Hydrographic Note [Form IH – 102] is a convenient form to notify such changes. Specimen form is attached at Section IX with this notice. Also visit our website for downloading and filling up instructions for Hydrographic Note.

**Chief Hydrographer  
to the Government of India**



### III

## EXPLANATORY NOTES

**Corrections to Charts and Publications.** Section I comprises List of Charts affected by the notices contained in this edition. Whereas sections II and III contain information for correcting the charts and publications. Mariners should insist on corrected charts from their chart distributors/agents.

- (a) Geographical positions given are in the horizontal datum of the current edition of the chart, unless otherwise stated.
- (b) Bearings are true, reckoned clockwise from 000° to 359°. Bearings to lights are from seaward.
- (c) Symbols referred to, are those shown on the chart 5020 (INT 1).
- (d) Alterations to depth contours, deletion of depths to make way for new detail, etc; are not normally mentioned, unless they have some navigational significance.
- (e) Blocks and notes, if any, accompanying the Notices in Sections II and III are placed after Section IX.

**Temporary and Preliminary Notices.** These are indicated by (T) and (P) respectively after the Notice number and are placed in Section III. SI Nos. of those in force are published quarterly on 01 Jan, 01 Apr, 01 Jul and 01 Oct, and their text is published in Annual Edition of Indian Notices to Mariners. They should be inserted in pencil, by the user, on receipt.

**Source of Information.** A star preceding the number of a Notice indicates that the notice is promulgated by INHO based on original information received.

**Sailing Directions.** Corrections for the Sailing Directions (Pilots) are given in Section VI.

**Lights.** Corrections to Indian List of Lights are given in Section VII, where affected Light List number is quoted.

- (a) These corrections should be incorporated as per instructions given on page XI of the List of Lights.
- (b) Such correction notices to list of lights may be published in either an earlier or a later Edition of N to M than the Edition containing the Notice to the chart correction.
- (c) The range of a light given is its nominal range. Its geographical range is given in parenthesis only if it is less than the nominal range.
- (d) A star indicates that the corresponding field is to be amended and all stars indicate that new light is to be inserted.

**Radio Signals.** The corrections in Section VIII should be cut and pasted in the appropriate volume of the List of Radio Signals.

**Radio Navigational Warnings.**

- (a) These are broadcast as serially numbered NAVAREA warnings by the concerned NAVAREA coordinator through GMDSS and Area Radio Broadcasts.
- (b) They contain important information affecting navigational safety, which cannot await the publication of the next edition of N to M.
- (c) It should be borne in mind that they may be based on reports which cannot always be verified before promulgation.
- (d) It is therefore necessary to be selective, and promulgate only the more important warnings to avoid over loading users; the less important information is included in the forthcoming edition of N to M or the Chart/publication concerned.

## IV

**Laws and Regulations.** While in the interest of the safety of shipping, the Hydrographic Office makes every endeavor to include in its publications details of the laws and regulations of all countries pertaining to navigation, it must be clearly understood: -

- (a) That no liability whatsoever can be accepted for failure to publish details of any particular law or regulation and
- (b) That publication of details of a law or regulation is solely for the safety and convenience of shipping and implies no recognition of the International validity of the law or regulation.

**Correction of Charts and Publications by the Users.** Notices to Mariners contain important information concerning safety of navigation at sea, hence, they should be used to keep the specified charts and publications up-to-date.

**Reliance on Charts and Associated Publications.** While every effort is made by the Hydrographic Office to ensure the accuracy of the information on Charts and Publications before they are published, it should be appreciated that it may not always be complete and up-to-date. The mariner must be the final judge for the reliance he can place on the information available, bearing in mind his particular circumstances, local pilotage guidance and judicious use of available navigational aids.

### **Use of Global Positioning System (WGS 84) positions.**

- (a) The positions of hydrographic objects shown on most of the Indian charts and publications are in Everest datum. However, the positions of vessels obtained from Global Positioning System (GPS) are on World Geodetic System 1984 datum. There will always exist a difference in the position values obtained by visual fixing (Everest Datum) and GPS position (WGS 84 datum).
- (b) Wherever these differences have been ascertained, their average values are published as a Cautionary Note on the chart concerned, as shifts in Latitude and Longitude. Whilst plotting GPS positions on charts, the shift values as given on the chart must be applied, before making any assessment of the navigational situation vis-à-vis the other charted information.
- (c) These datum shift values are not uniform, particularly in areas off Andaman and Nicobar and Lakshadweep Islands, as these places are not linked to mainland network (Everest datum). Mariners are advised to use alternate source of position information such as Visual or Radar, particularly when closing the shore or navigating in the vicinity of dangers.

**Source Data on Charts.** All Indian charts contain specific information on their source of hydrographic data. In areas where the source data is very old, incomplete and less reliable, the mariner must use such charts with prudence. Mariner should always use the largest scale charts available for the area. Apart from being the most detailed, the larger scale charts are usually corrected first. Hydrographic information may be sparse on small scale charts. On such charts, a charted shoal may be in error as regards position, least depth and extent. Uncharted dangers may also exist, particularly in areas away from well-established routes. Mariners must exercise due caution.

**Further Guidance.** The Mariner's Hand Book (NP 100) gives full explanation on the use of charts and the type of information contained on charts. In their own interest, all users of charts should refer to it.

## NEWLY PUBLISHED INDIAN CHARTS, ENC'S AND PUBLICATION

1. The new Indian Charts that is available for mariners in the market are as follows:-

NIL

2. The new Indian Electronic Navigational Charts that are available for mariners in the market are as follows:-

NIL

3. The new edition Indian Electronic Navigational Charts that are available for mariners in the market are as follows:-

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN2251SD	251	SIR CREEK TO DWARKA	17-12-2013
IN3213RV	213	RATNAGIRI TO VENGURLA	18-12-2013
IN3212MR	212	MURUD JANJIRA HARBOUR TO RATNAGIRI	19-12-2013

4. The Indian Electronic Navigational Charts that are permanently withdrawn are as follows:-

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN2251SD	251	SIR CREEK TO DWARKA	03-10-2013
IN3213RV	213	RATNAGIRI TO VENGURLA	06-09-2011
IN3212MR	212	MURUD JANJIRA HARBOUR TO RATNAGIRI	14-10-2004

5. The forthcoming Indian Charts are as follows:-

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
210	UMARGAM TO SATPATI	150,000	New Edition
2002 (INT 7351)	PORTS OF NEW MANGALORE AND MANGALORE	20,000	New Chart
2010	KARWAR HARBOUR	12,500	New Chart
2038	RAJAPUR BAY AND VIJAYDURG HARBOUR	25,000	New Chart
2046	VENGURLA ANCHORAGE: REDI ANCHORAGE	25,000	New Chart
2513	COETIVY ISLAND	37,500	New Chart
2506	GRAND BAY AND GRAND RIVIERE NOIRE BAY	25,000	New Chart
2111	VIZHINJAM PORT	7,500	New Chart
3034	APPROACHES TO KRISHNAPATNAM	50,000	New Chart
	KRISHNAPATNAM PORT	15,000	
2079 (INT7329)	APPROACHES TO MUNDRA PORT	37,500	New Chart
2031 (INT7326)	OKHA HARBOUR	37,500	New Chart

## VI

6. The new Indian Publication that is available for mariners in the market is as follows:-

<i>Title of Publication</i>	<i>Edition</i>
<b>Nautical Almanac</b>	<b>2014</b>

### Availability of ENC's.

The complete folios of Official Indian ENC's are distributed worldwide through JEPPESEN MARINE (formerly C-MAP), UKHO and Norwegian Hydrographic Service. UKHO distributes Indian ENC's through the world wide network of their agents and distributors. Updates are also made available as per the existing policy of the distributor. Mariners and other ENC users may contact the under mentioned for further details:

United Kingdom Hydrographic Office Admiralty Way, Taunton, Somerset TA1 2DN, UK Tel: +44 (0) 1823 337900 Fax: +44 (0) 1823 330561, 1823 284077 Telex: 46274 Email: <a href="mailto:helpdesk@ukho.gov.uk">helpdesk@ukho.gov.uk</a> Web site: <a href="http://www.ukho.gov.uk">www.ukho.gov.uk</a>	JEPPESEN MARINE Jeppesen Norway AS Hovalandsveien 52 P.O. 212, N-4379, Egersund, Norway Ph: 0047 51 464700 Fax: 0047 51 464701 Email: <a href="mailto:enc@jeppesen.com">enc@jeppesen.com</a> , <a href="mailto:info@c-map.co.no">info@c-map.co.no</a> Website: <a href="http://www.jeppesen.com">www.jeppesen.com</a>
M/s Primar Norwegian Hydrographic Service, Postbox 60, 4001 Stavanger Norway Telephone - +47 - 51 85 87 00 Fax - + 47 - 51 85 87 08 E-mail:- <a href="mailto:data@ecc.no">data@ecc.no</a> Website: - <a href="http://www.primar.org">www.primar.org</a>	

**TEMPORARY AND PRELIMINARY NOTICES***In Force 01 Jan 2014**(Former In Force List dated 01 Oct 2013 is cancelled)*

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**Cancelled Notices**

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**Area Notice No.**

- 1 Nil.  
2 Nil.  
3 043/13  
4 Nil.
- 

**31. AFRICA EAST COAST, MADAGASCAR, RED SEA, ARABIA, PERSIAN GULF, PAKISTAN.**

<u>Notice</u>	<u>Charts Affected</u>	<u>Description</u>
445/06	20 – 21 – 286 – 291 – 2088 – 2094 – 2095 – 2096 – 7703 (INT 703) – 7705 (INT 705) – 8009 – 8010.	ARABIAN SEA – RED SEA – Submarine cables.
354/08	20 – 289.	UNITED ARAB EMIRATES – Jazirat Das to Ras al Qila – Submarine pipeline.
216/13	2086.	INDIAN OCEAN – MAURITIUS- Approaches to Port Louis – Works. Buoys.

**2. INDIA WEST COAST – INDIAN OCEAN**

<u>Notice</u>	<u>Charts Affected</u>	<u>Description</u>
085/09	2047.	INDIA – LAKSHADWEEP – Plans in Lakshadweep – Kalpitti to Parali Island – Agatti – Jetty.
152/11	2081 – 2100.	INDIA – WEST COAST – Pipavav Port – Dredging.
182/12	21 – 22 (INT 752) – 249 – 250 – 291 – 292 (INT 7021) – 293 (INT 7022).	INDIA – ARABIAN SEA – Argo Floats.
251/12	2106 – 2107.	INDIA – WEST COAST – Mundra Port – Port Development. Dredging. Turning Circle. Buoys.
257/12	217 – 258 (INT 7348) – 272 – 293 (INT 7022) – 2002 (INT 7351) – 2052 (INT 7350).	INDIA – WEST COAST – Ports of New Mangalore and Mangalore – Buoys. Dredging.
258/12	21 – 22 (INT 752) – 23 – 32 (INT 754) – 214 – 215 – 221 – 253 (INT 7328) – 257 (INT 7343) – 259 (INT 7356) – 260 (INT 7362) – 261 – 262 – 263 (INT 7383) – 272 – 292 (INT 7021) – 293 (INT 7022).	INDIA – WEST COAST – Arabian Sea – ADCP Moorings.

## VIII

### 2. INDIA WEST COAST – INDIAN OCEAN (Continued).

269/12	2022 (INT 7345) – 2020 – 2078 (INT 7346).	INDIA – WEST COAST – Port of Mormugao – Dredging.
038/13	2065.	INDIA – WEST COAST – Port Dabhol – Buoy.
041/13	2004(INT 7359) – 2029 (INT 7358) – 2045(INT 7360).	INDIA – WEST COAST – Port of Kochi – Kochi Harbour – Dredging. Channel Limit. Jetty.
042/13	23 – 31 – 33 – 7070 (INT 70) – 7071 (INT 71) – 7072 (INT 72) – 7073 (INT 73) – 7706 (INT 706) – 7707 (INT 707).	INDIAN OCEAN – Data Buoys.
111/13	21 – 22 (INT 752) – 23 – 268 (INT 7353) – 273 – 292 (INT 7021) – 293 (INT 7022) – 7703(INT 703) – 7705 (INT 705) – 7706 (INT 706).	INDIA – WEST COAST – Arabian Sea – Data Buoys. Tsunami Buoy.
117/13	21 – 208 – 254 (INT 7331) – 292 (INT 7021) – 2039 – 2082.	INDIA – WEST COAST – Gulf of Khambhat – Dahej Harbour – Jetty. Mooring Dolphin.
129/13	211 – 2016 (INT 7336) – 2015 (INT 7337) – 2001 – 2076 (INT 7338).	INDIA – WEST COAST – Mumbai Harbour – Dredging Operation.
130/13	21 – 22 (INT 752) – 255 (INT 7334) – 211 – 292 – (INT 7021) – 293 (INT 7022) – 2016 (INT 7336).	INDIA – WEST COAST – Inner Approaches to Mumbai – Wreck Marking Buoys.
134/13	21 – 22 (INT 752) – 211 – 255 (INT 7334) – 292 (INT 7021) – 293 (INT 7022) – 2016 (INT 7336).	INDIA – WEST COAST – off Mumbai – Buoy.

### 3. INDIA EAST COAST – ANDAMAN NICOBAR, SRI LANKA, MYANMAR.

<u>Notice</u>	<u>Charts Affected</u>	<u>Description</u>
237/10	406 – 4010.	ANDAMAN SEA – INDIA – Little Andaman Islands – Hut Bay – Light.
145/11	351 – 301 – 3011 (INT 7421).	INDIA – EAST COAST – Approaches to Hugli River. Works.
094/12	33 – 41 (INT 757) – 402 – 403 – 404 – 405 – 406 – 407 – 408 – 409 – 471 – 472 (INT 7032) – 473 (INT 7031) – 4016 – 4035.	INDIA – ANDAMAN SEA – Fish Aggregating Devices.
183/12	31 – 32 (INT 754) – 33 – 354 (INT 7408).	INDIA – BAY OF BENGAL – Argo Floats.
212/12	3034.	INDIA – EAST COAST – Krishnapatnam Port – Port Development. Dredging.
225/12	31 – 321 – 322 – 371 – 3020.	BAY OF BENGAL – MYANMAR COAST – Combermere Bay to Cheduba Strait – Platform.

## IX

### 3. INDIA EAST COAST – ANDAMAN NICOBAR, SRI LANKA, MYANMAR (Continued).

239/12	352 (INT 7416) – 3010 (INT 7418).	INDIA – EAST COAST – Paradip Port – Dredging. Restricted Area.
288/12	31 – 32 (INT 754) – 354 (INT 7408) – 355 (INT 7405) – 391 – 7071 (INT 71) – 7073 (INT 73) – 7706 (INT 706).	INDIA – EAST COAST – Bay of Bengal – Drilling Operation.
051/13	31 – 32 (INT 754) – 391 – 354 (INT 7408).	INDIA – EAST COAST – Sacramento Shoal to Kalingapatnam – Unexploded Charges.
181/13	31 – 32 (INT 754) – 33 – 41 (INT 757) – 292 (INT 7021) – 404 – 405 – 472 (INT 7032) – 473 (INT 7031) – 7706 (INT 706) – 7707 (INT 707).	INDIA – EAST COAST – Bay of Bengal – Andaman Sea – Data Buoys. Tsunami Buoys.
119/13	31 – 32 (INT 754) – 391 – 354 (INT 7408).	INDIA – EAST COAST – Sacramento Shoal to Kalingapatnam – Unexploded Charges.
159/13	31 – 41 (INT 757) – 409 – 471 – 472 – 4035 – 4039.	INDIA – ANDAMAN SEA – Nicobar Island – Campbell Bay – Jetty.
181/13	31 – 32 (INT 754) – 33 – 308 – 352 (INT 7416) – 354 (INT 7408) – 355 (INT 7405) – 357 (INT 7397) – 391.	INDIA – EAST COAST – Bay of Bengal – ADCP Moorings.
195/13	352 (INT 7416) – 3005.	INDIA – EAST COAST – Gopalpur Port – Breakwater. Wrecks. Onshore Installation.

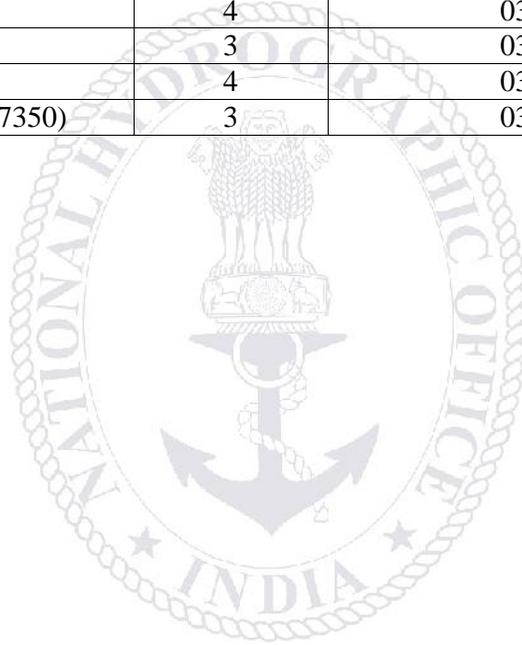
### 4. MALACCA STRAIT, SINGAPORE STRAIT AND SUMATERA

383/03	33 – 41 (INT 757).	INDONESIA – Sumatera – North and Northwest Coasts – Restricted area.
377/07	7508 (INT 508).	INDONESIA – Sumatera – Pulau Belitung West Coast – Tanjungpandan to Jawa North Coast – Pakis – Submarine cable.
238/10	41 (INT 757) – 471.	INDONESIA – Sumatera – North West Coast – Pulau Bunta – Lights.

**SECTION – I**

The list of charts affected by the Notices 031 to 037 contained in this edition are as follows:

<b>CHART NUMBER</b>	<b>FOLIO NO.</b>	<b>NOTICE NO.</b>
21	2	031
200	2	031
203(INT 7319)	2	032
217	3	035
250	2	031
251(INT 7318)	2	031
252(INT 7325)	2	033
258(INT 7348)	3	035
272	4	035
291	2	031
293(INT 7022)	3	035
2006	4	037
2008	3	034
2035	4	036
2052(INT 7350)	3	035



**SECTION – II**  
**PERMANENT NOTICES**

**\*031 (01/14) PAKISTAN - Approaches to Karachi - Submarine cable.**

Source: NHO.

**Chart 21** [previous update 175/13]

Insert submarine cable, , joining: 24° 23'·30N., 66° 52'·10E.  
(existing submarine cable)  
24° 17'·83N., 66° 49'·64E.  
23° 20'·57N., 66° 23'·46E.  
23° 14'·58N., 66° 15'·72E.

**Chart 291** [previous update 175/13]

Insert submarine cable, , joining: 24° 23'·30N., 66° 52'·10E.  
(existing submarine cable)  
24° 17'·83N., 66° 49'·64E.  
23° 20'·57N., 66° 23'·46E.  
23° 14'·58N., 66° 15'·72E.

**Chart 250** [previous update 175/13]

Insert submarine cable, , joining: 24° 23'·30N., 66° 52'·10E.  
(existing submarine cable)  
24° 17'·83N., 66° 49'·64E.  
23° 20'·57N., 66° 23'·46E.  
23° 14'·58N., 66° 15'·72E.

**Chart 251(INT 7318)** [previous update 112/13]

Insert submarine cable, , joining: 23° 54'·50N., 66° 38'·95E.(N Border)  
23° 20'·57N., 66° 23'·46E.  
23° 18'·72N., 66° 21'·00E. (E Border)

**Chart 200** [previous update 175/13]

Insert submarine cable, , joining: 24° 23'·30N., 66° 52'·10E.  
(existing submarine cable)  
24° 17'·80N., 66° 49'·65E.  
23° 46'·85N., 66° 35'·50E.(E Border)

**\*032/(01/14) INDIA – WEST COAST – Gulf of Kachchh – Pilot Boarding. Racon. Submarine Pipeline. SPM. Legend. Restricted Area.**

Source: NHO.

**Chart 203(INT 7319)** [previous update 190/13]

Insert  (BORL SPM) 22° 35'·46N., 69° 45'·71E.

 BORL SPM (a) 22° 33'·49N., 69° 45'·76E.

radar beacon, 'Racon B', at: (a) above

circular limit of restricted area, radius 0.5 NM, (a) above

centered on :

Submarine Pipeline, , joining: (a) above

(b) 22° 29'·72N., 69° 45'·87E.  
22° 28'·47N., 69° 45'·42E.  
22° 28'·24N., 69° 45'·22E.  
22° 27'·37N., 69° 44'·80E.  
22° 25'·71N., 69° 44'·46E.(Shore)

legend, 'Oil and Gas (See Note)' along (a) – (b) above

**\*033/(01/14) INDIA – WEST COAST – Okha to Veraval – Radio reporting line.**

Source: DGLL.

**Chart 252 (INT 7325) [previous update 112/13]**

Insert  ,  
inbound and outbound, joining:

22° 15′.15N., 68° 57′.00E. (Shore)

22° 29′.00N., 68° 31′.54E. (N Border)

legend, “Gulf of Kachchh VTS (see Note - Vessel  
Reporting)” , centered on:

22° 24′.00N., 68° 40′.00E.

accompanying note, “VESSEL REPORTING” ,  
centered on:

22° 05′.00N., 69° 58′.00E.

**\*034/(01/14) INDIA – WEST COAST – Karwar Harbour and Approaches – Beacons.**

Source: IH 102 – INS Sutlej

**Chart 2008 [previous update 204/13]**

Delete



14° 50′.72N., 74° 08′.01E.

14° 50′.72N., 74° 08′.03E.

**\* 035/(01/14) INDIA – WEST COAST – Approaches to Port of New Mangalore – Buoy.**

Source: DLL Jamnagar

**Chart 293 (INT 7022) [previous update 204/13]**

Move



VQ(9).10s from:

12° 48′.87N., 74° 43′.42E.

to:

12° 48′.80N., 74° 43′.50E.

**Chart 272 [previous update 164/13]**

Move



VQ(9).10s from:

12° 48′.87N., 74° 43′.42E.

to:

12° 48′.80N., 74° 43′.50E.

**Chart 258 (INT 7348) [previous update 177/13]**

Move



VQ(9).10s from:

12° 48′.87N., 74° 43′.42E.

to:

12° 48′.73N., 74° 43′.55E.

**Chart 217 [previous update 177/13]**

Move



VQ(9).10s from:

12° 48′.87N., 74° 43′.42E.

to:

12° 48′.73N., 74° 43′.55E.

**Chart 2052 (INT 7350) [previous update 116/13]**

Move



VQ(9).10s from:

12° 48′.94N., 74° 43′.37E.

to:

12° 48′.80N., 74° 43′.50E.

**\*036/(01/14) INDIA – LAKSHADWEEP – Kalpeni and Cheriyam island – Buoy.**

Source: IH 102 – INS Sutlej

**Chart 2035 [previous update 345/09]**

Insert



10° 05′.07N., 73° 39′.05E.

**\*037/(01/14) INDIA – LAKSHADWEEP – Minicoy Island – Beacons.**

Source: IH 102 – INS Sulej

**Chart 2006** [previous update 185/13]

Insert



Radar

08° 18′.93N., 73° 02′.25E.

08° 18′.97N., 73° 02′.29E.

08° 16′.23N., 73° 01′.55E.



**SECTION – III**  
**TEMPORARY AND PRELIMINARY NOTICES**

**NIL**



## **SECTION – IV** **MARINE INFORMATION**

### 1. **NAVTEX TRANSMISSION**

MSI Promulgation by NAVTEX Stations at Mumbai and Chennai are temporarily out of operation.

(Source – DG Shipping)

### 2. **MISIDENTIFYING FISHING BOATS AS PIRATE SKIFFS**

All merchant vessels entering Indian EEZ are advised that dense fishing activity may be encountered off West Coast of India. Fishing is generally carried out by mechanized boats and single hull boats with outboard motors carrying 4-5 crew using long lines upto 50 NM from coast. The vessels traversing the nets are likely to be approached by fishing boats for safeguarding nets and lines and should not be mistaken as skiffs and PAG's. Masters of vessels to report any suspicious activity of fishing vessels immediately to MRCC (Mumbai) on telephone +91-22-24388065, 24316558, Email: - indsar@vsnl.net, or icgmrcc\_mumbai@mtnl.net . Any suspicious activity of skiffs / boats to be photographed if possible. Merchant vessels with armed guards on board are to report presence of guards to Indian Navy/Coast Guard while transiting Indian EEZ.

(Source - NAVAREA VIII Warning 100/12)

### 3. **DISPLAY ANOMALIES IN ECDIS**

(a) Mariners are advised that the International Hydrographic Organization (IHO) check data set shows that some ECDIS systems fail to display some significant underwater features in the standard display mode. The use of this check data set, issued through ENC service providers and available from the IHO website [www.iho.int](http://www.iho.int), to check the operation of ECDIS is strongly recommended. JRC has confirmed that certain versions of JRC ECDIS fail to display some types of wreck and obstructions, including stranded wrecks, in any display mode.

Where JRC ECDIS is in use, paper charts should be the primary means of navigation until the ECDIS has been proved to operate correctly. See [www.jrc.co.jp/eng/product/marine/whatsnew/20120313/index.html](http://www.jrc.co.jp/eng/product/marine/whatsnew/20120313/index.html) for further information.

(b) Some Electronic Chart Display and Information Systems (ECDIS) may exhibit operating anomalies. The International Maritime Organization's (IMO) circular SN.1/CIRC.312 pages /imodocs.aspx (registration required) lists identified anomalies, Their characteristics and remedial advice. Mariners are reminded that they should access the International Hydrographic Organization (IHO) data presentation and performance check (DPPC) dataset (news links of <http://www.iho.int/srv1>) and ensure that all installed ECDIS units are checked.

(Source - NAVAREA VIII Warning 141/12 & 529/12)

### 4. **SAFETY FAIRWAYS, RECOMMENDED ROUTES, TRAFFIC SEPARATION SCHEME**

The Director General Shipping has established Safety fairways, recommended routes and traffic separation scheme (TSS) in restricted Indian waters including the offshore development area to enhance safety of navigation. The details of coordinates for the above have been published in the fortnightly Indian Notices to Mariners Edition No 14 of 2008 (16<sup>th</sup> July 2008).

(a) Safety Fairways: An area within which permits are not granted for the erection of oil or gas related structures. The use of a safety fairway is not usually mandatory, but is recommended. Safety fairways have been promulgated in and round offshore development area in Arabian Sea up to the Exclusive Economic

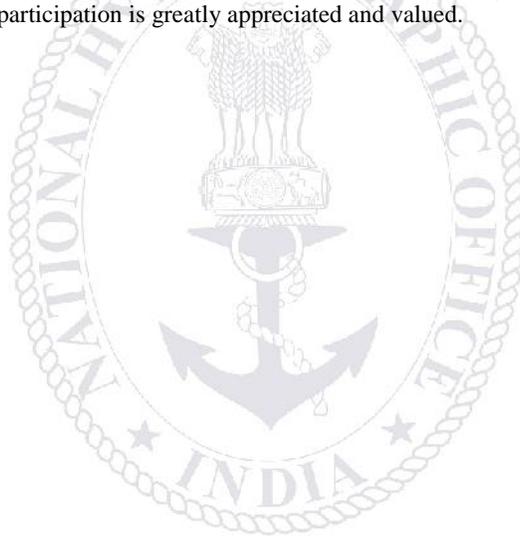
Zone (EEZ) due to increased weather related marine accidents and dense traffic. These are mandatory for all Indian ships and vessels transiting through the ODA and recommendatory for all foreign flag ships and vessels irrespective of size.

(b) Recommended routes have been established along the coast of Gujarat. These are to assist mariners to navigate safely in order to represent the best routes for crossing traffic and to minimize head-on encounters in vicinity of Oilfield Development Areas and regulate coastal traffic. Mariners are advised to keep 1 to 2 miles starboard of the shown routes consistent with Rules of the Road.

(c) Traffic Separation Schemes (TSS). The TSS off Mumbai harbour is mandatory for all Indian and foreign flag ships and vessels entering and leaving Mumbai harbour and Jawaharlal Nehru Port Trust (JNPT)/ Nhava-Sheva harbour irrespective of size.

## **5. WORLD-WIDE NAVIGATIONAL WARNING SERVICE SECOND SURVEY TO ASSESS THE QUALITY OF MSI SERVICES**

The International Hydrographic Organization's World-Wide Navigational Warning Service (WWNWS) is conducting a survey concerning the quality of Maritime Safety Information broadcast via SAFETYNET and NAVTEX to identify measures to improve service. It provides an opportunity to comment on the quality of the content and reception of Navigational Warnings provided by each NAVAREA coordinator. Please visit <http://www.needtopopulatethis.com> to complete the short survey. The World Meteorological Organization offers a similar survey regarding the World-Wide Meteorological Information and warning service available at: [www.jcomm.info/mmmms](http://www.jcomm.info/mmmms). Your participation is greatly appreciated and valued.



### Distribution of Indian Paper Charts and Nautical Publications

Indian Nautical Charts and Publications from National Hydrographic Office, India are now available globally. Details of overseas chart agents are as follows:-

<p><b>JEPPESEN MARINE</b>  <b>Jeppesen Norway AS</b>            P.O. 212,            N-4379, Egersund, Norway            Ph: 0047 51 464700            Fax: 0047 51 464701            Email: <a href="mailto:info@c-map.no">info@c-map.no</a>            Site: <a href="http://www.c-map.no">www.c-map.no</a></p>	<p><b>C-Map US Commercial</b>            133 Falmouth Road,            Building 2, Postal Code: 02649,            Mashpee, MA, America            Ph: +1 (508) 477 8010            Fax: +1 (508) 539 4381            Email: <a href="mailto:info@c-map.com">info@c-map.com</a></p>	<p><b>C-Map (UK) Ltd.</b>            Systems House            Delta Business Park            Salterns Lane, Fareham,            PO16 0QS, United Kingdom,            Ph: +44 (0) 1329 517777            Fax: +44 (0) 1329 517778            Email: <a href="mailto:info@c-map.co.uk">info@c-map.co.uk</a></p>
<p><b>Mari-Sys Pte Ltd.</b>            20 Ayer Rajah Crescent,            08-21, SE 139964,            Republic of Singapore            Ph: +65 6776 1898            Email: <a href="mailto:info@mari-sys.com">info@mari-sys.com</a></p>	<p><b>Bogerd Martin NV,</b>            Oude Leeuwenrui 37            2000 Antwerp, Belgium            Ph: +32 (3) 2134170            Fax: +32 (3) 2326167            Email: <a href="mailto:sales@martin.be">sales@martin.be</a>            Site: <a href="http://www.martin.be">www.martin.be</a></p>	<p><b>Bogerd Martin Tianjin(China Branch)</b>            2-B101 FTZ Hi-Tech            Development Centre 131            Haibin 9 Road 300461            Tianjin China            Ph: +86 22 257 62 721            Fax: +86 22 257 62 722            Email: <a href="mailto:charts-tj@martincn.com">charts-tj@martincn.com</a></p>
<p><b>C-Map Holland</b>            Paleiskade100            PO Box 7            1781 AR Den Helder,            Holland            Ph: +31 223 616 700            E Mail: CorMallie <a href="mailto:cor@chartworx.nl">cor@chartworx.nl</a></p>		

**List of Indian Chart Agents.**

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M/s Global Charts & Nav. Aids Pvt. Limited 1A, Goa Mansion, Ground Floor 58, Dr. Sunderlal Bahl Path (Goa Street) Fort, Mumbai - 400 001 Tel: 91-22-22626318, 22626380, Fax: 91-22-22621488 Email: sales@bogerdmartin.com, <a href="mailto:sarmarin@vsnl.com">sarmarin@vsnl.com</a>	M/s EW Stevens & Co. (Pvt.) Ltd. Mackinnon Mackenzie Bldg, Ground Floor, 4 Shoorji Vallabhdas Marg, Mumbai-400 038 Tel: 91-22-22618567, Fax: 022-22619146 Email: <a href="mailto:ewsbom@bom3.vsnl.net.in">ewsbom@bom3.vsnl.net.in</a>
M/s C & C Marine Combine 25 Bank Street, 1 <sup>st</sup> Floor, Mumbai - 400 023 Tel: 91-22- 22660525, 22661937, 22672143 Fax: 91-22-22670896 Email: <a href="mailto:cmarine@bom5.vsnl.net.in">cmarine@bom5.vsnl.net.in</a>	M/s Maritime Charts & Publicatons 2/524 Sundeep Road, Chinna Neelengarai, Chennai 600041 Land Mark - Nearby Suganya Kalyana Mandapam Tele/Fax : +91-44-24490668 Mob No : +91-9003245348 Email: <a href="mailto:ewl-india@ewliner.com">ewl-india@ewliner.com</a>
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M/s JM Maritime Services 24/24C Kavarana Building Ground Floor, Wadi Bunder P.D. Mellow Road, Mumbai – 400 009 Tel: +91 22 23736956, Fax: 022 - 23725083 Cell: +91 9820788357 Email : <a href="mailto:jmms@mtnl.net.in">jmms@mtnl.net.in</a> <a href="mailto:charts@mtnl.net.in">charts@mtnl.net.in</a>	M/S Inspire Shipping, 46a, Ashok Chamber, Broach Street, Masjid Bunder (E), Mumbai – 400 009 Fax : 022 – 27713146 Email : <a href="mailto:info@inspireship.com">info@inspireship.com</a> <a href="mailto:pramod@inspireship.com">pramod@inspireship.com</a>
M/S Lift-O-Marine Allens Mansion, Flat – C6 Nungi Station Road, Bata Nagar PO. Parbangla Kolkata - 700140 Tel: +91-33-24924283, Cell: +91-8902228463 Email: <a href="mailto:sankar_roy342@yahoo.in">sankar_roy342@yahoo.in</a>	M/s Global Marine Infratech Pvt. Ltd. Siksha Sandan, Ground Floor, ND-7, VIP Area, IRC Village Bhubaneswar – 751015 Tel: +91-674-2550599, Fax: +91-674-2551899 Email: <a href="mailto:ashiskantha@gmiindia.in">ashiskantha@gmiindia.in</a> Web: <a href="http://www.gmiindia.in">www.gmiindia.in</a>
Engineering Logistics Executive Multi Services Door No: 61-4-45-A/4 Prakash Nagar Malkapuram Visakhapatnam - 530 014 Mob: +91 9133362541/9966244818 Email: <a href="mailto:elemulti.services69@yahoo.com">elemulti.services69@yahoo.com</a>	L.R Marnie services 321, 3 <sup>rd</sup> floor, birya house, 265, perin nariman street, Fort, Mumbai – 400 001 Tel: + 91 9773779348/ 9821460258 Email: <a href="mailto:lrcharts@gmail.com">lrcharts@gmail.com</a> <a href="mailto:lrmarine@live.com">lrmarine@live.com</a>

6.1

**SECTION – VI**  
**CORRECTIONS TO SAILING DIRECTIONS (PILOTS)**

- NIL -



**SECTION – VIII**  
**CORRECTION TO LIST OF RADIO SIGNALS**

**INP 31(1), 2005**

(Last correction: Edition No. 07 dated 01 Apr 2013)

NIL

**INP 31(2), 2007**

(Last correction: Edition No. 20 dated 16 Oct 2013)

**AUTOMATIC IDENTIFICATION SYSTEM (AIS)**

*PAGE 39 (e), QATAR,*

*Delete **Bever Wreck North Lt Buoy** and **Bever Wreck South Lt Buoy** entry and Insert below **Barge Wreck Lt Buoy** entry:*

<b>Bever Wreck Lt Buoy</b>	25°58'.30N 51°59'.80E			Real	21
<i>(Source BA 01/14)</i>					<b>01/14</b>

**INP 31(5), 2011**

(Last correction: Edition No. 22 dated 16 Nov 2013)

NIL

**INP 31(6), 2012**

(Last correction: Edition No. 24 dated 16 Dec 2013)

**PAGE 31, INDIA, DAHEJ, GCPTCL TERMINAL, CONTACT DETAILS Section:**

*Delete and replace by;*

**CONTACT DETAILS:**

Call: GCPTCL Terminal  
VHF Channel: Ch 16; 77  
Telephone: +91(0)79 23238346  
              +91(0)79 23238347  
              +91(0)79 23238348  
              +91(0)79 23238351  
              +91(0)98980 81610 (mobile)  
              +91(0)99251 53079 (mobile)  
Fax: +91(0)79 23234704  
E-mail: gmbad1@sanchamnet.in  
Website: www.gmbports.org

**PROCEDURE Section, Sub section (2):**

*Delete and replace by;*

(2) **Notice of ETA:** Vessel should send ETA 72h, 48h, 24h and 6h in advance through the agents.

*(Source: Dahej, GCPTCL Terminal)*

*(01/14)*

**PAGE 32, INDIA, DAHEJ, PETRONET LNG TERMINAL, CONTACT DETAILS Section:**

*Delete and replace by;*

**CONTACT DETAILS:**

**Port Control**

Call: Petronet Marine  
VHF Channel: Ch 16; 67

**Port Conservator**

Telephone: +91(0)2642 220377  
              +91(0)99251 53060 (mobile)  
Fax: +91(0)2642 243140

**Port Operation Head**

Telephone: +91(0)2641 300321  
              +91(0)96625 26272 (mobile)

Fax: +91(0)2641 300310  
E-mail: shipping@petronetlng.com  
          hkverma@petronetlng.com

Website: www.petronetlng.com

*(Source: Dahej, Petronet LNG)*

*(01/14)*

**PAGE 34, INDIA, DIGHI (MURUD-JANJIRA), PORT,  
CONTACT DETAILS Section:***Delete and replace by;***CONTACT DETAILS:****Port Authority**

Call: Port Control  
 VHF Channel: Ch 16; 69  
 Telephone: +91(0)2147 227725  
               +91(0)2147 227726  
 Fax: +91(0)22 22072124  
       +91(0)22 22019760  
 E-mail: dighiportcontrol@balaji.co.in  
 Website: www.dighiport.in  
           www.balaji.co.in

**Tug**

Call: Port Control  
 VHF Channel: Ch 69

*(Source: Dighi Port Control)**(01/14)***PAGE 34, INDIA, DIU, PORT, CONTACT DETAILS Section:***Delete and replace by;***CONTACT DETAILS:**

Call: Port Control  
 VHF Channel: Ch 16; 71  
 Telephone: +91(0)2875 252263  
               +91(0)98244 58309 (mobile)  
 Fax: +91(0)2875 252263  
 E-mail: portprem58@yahoo.com  
 Website: www.diu.gov.in

*(Source: Marine Dept., Diu)**(01/14)***PAGE 65, INDIA, VADINAR OFFSHORE TERMINAL,  
Terminal, CONTACT DETAILS, Terminal Section:***Delete and replace by;***Terminal**

Telephone: +91(0)288 661385  
               +91(0)99099 08611 (mobile)  
 Fax: +91(0)288 661366  
 E-mail: voti@essar.com  
 Website: www.essar.com

*(Source: Vadinar Offshore Terminal)**(01/14)*

**SECTION – IX**  
**CORRECTIONS TO MISCELLANEOUS NAUTICAL PUBLICATIONS**

**Indian Notices to Mariners, Special Edition-2012**

**Special Notice No. 9 (Page 107-115)**

**(Source: IHQMoD (Navy))**

Delete and replace Page (107-115) by,

**Appendix 'A'**  
**(Refers to Para 2)**

**NAVAL EXERCISE AREAS**

1. **Off Dwarka.**

**Area D**

- a) 22° 12'.00 N, 068° 36'.20 E
- b) 21° 15'.30 N, 069° 04'.00 E
- c) 21° 09'.00 N, 069° 40'.00 E
- d) 21° 15'.00 N, 069° 41'.00 E
- e) 22° 12'.00 N, 068° 42'.00 E

2. **Off Navi Bandar.**

**Area P**

- a) 21°00' N, 068°00' E
- b) 21°00' N, 069°12' E
- c) 20°20' N, 069°40' E
- d) 20°00' N, 069°40' E
- e) 20°00' N, 068°40' E

3. **Off Diu.**

**Area Q**

- a) 20°52'.68 N, 070°03'.08 E
- b) 20°31'.76 N, 070°58'.69 E
- c) 20°18'.91 N, 070°59'.42 E
- d) 20°19'.09 N, 070°51'.71 E
- e) 20°01'.11 N, 071°02'.54 E
- f) 20°24'.93 N, 070°04'.10 E

**Area T**

- a) 19°14' N, 069°45' E
- b) 19°47' N, 068°35' E
- c) 20°36' N, 069°02' E
- d) 20°02' N, 070°09' E

4. **Off Mumbai**

**Area F**

- a) 18°02'.00 N, 068°40'.00 E
- b) 18°43'.00 N, 068°40'.00 E
- c) 18°43'.00 N, 068°58'.00 E
- d) 18°02'.50 N, 069°28'.00 E

**Area G**

- a) 18°02' N, 068°40' E
- b) 18°43' N, 068°40' E
- c) 18°43' N, 067°43' E

**Area AA1**

- a) 18°59' N, 072°51' E
- b) 18°59' N, 072°56' E
- c) 18°56' N, 072°56' E
- d) 18°56' N, 073°02' E
- e) 18°47' N, 073°02' E
- f) 18°47' N, 072°55' E
- g) 18°34' N, 072°55' E
- h) 18°34' N, 072°42' E
- j) 18°55' N, 072°42' E
- k) 18°55' N, 072°49' E

5. **Off Ratnagiri.****Area M**

- a) 16°00' N, 071°45' E
- b) 16°00' N, 072°15' E
- c) 15°40' N, 072°15' E
- d) 15°40' N, 071°45' E

**Area C**

- a) 17°50' N, 071°30' E
- b) 17°50' N, 071°52' E
- c) 17°32' N, 071°52' E
- d) 17°32' N, 071°30' E

**Area J**

- a) 17°00' N, 070°00' E
- b) 17°00' N, 070°25' E
- c) 16°28' N, 070°28' E
- d) 16°28' N, 070°04' E

**Area VAD 31**

- a) 17°50' N, 072°28' E
- b) 17°50' N, 072°45' E
- c) 17°13' N, 072°42' E
- d) 17°35' N, 072°28' E

6. **Off Devgarh.****Area R**

- a) 16°30' N, 070°30' E
- b) 16°30' N, 071°00' E
- c) 16°00' N, 071°00' E
- d) 16°00' N, 070°30' E

7. **Off Mormugao.****Area D**

- a) 15°24' N, 072°34' E
- b) 15°06' N, 072°40' E
- c) 15°00' N, 072°28' E
- d) 15°18' N, 072°22' E

**Area H**

- a) 15°33' N, 072°11' E
- b) 15°30' N, 072°28' E
- c) 15°10' N, 072°20' E
- d) 15°13' N, 072°02' E

8. **Off Kochi.****Area A**

- a) 10°00' N, 075°23' E
- b) 08°47' N, 076°05' E
- c) 08°47' N, 075°22' E
- d) 10°00' N, 074°37' E

**Area Y**

- a) 10°00' N, 073°51' E
- b) 10°00' N, 074°40' E
- c) 09°00' N, 074°40' E
- d) 09°00' N, 073°51' E

**Area Q**

- a) 08°15' N, 075°18' E
- b) 08°15' N, 074°32' E
- c) 08°59' N, 074°06' E
- d) 08°59' N, 074°54' E

9. **Off Vishakhapatnam.****Area R**

- a) 17°45'.00 N, 083°38'.50 E
- b) 17°41'.00 N, 083°44'.50 E
- c) 17°32'.50 N, 083°38'.00 E
- d) 17°37'.00 N, 083°32'.50 E

**Area Y**

- a) 17°45'.00 N, 083°57'.00 E
- b) 17°53'.00 N, 084°04'.30 E
- c) 17°47'.00 N, 084°10'.20 E
- d) 17°39'.00 N, 084°02'.50 E
- e) 17°46'.00 N, 084°03'.50 E

**FIRING AREAS**1. **Bedi (Off Balachadi).**

- a) 22°49'.00 N, 070°06'.00 E
- b) 22°45'.83 N, 070°13'.17 E
- c) 22°38'.25 N, 070°09'.33 E
- d) 22°41'.17 N, 070°01'.83 E

2. **Nora Island.**

Firing Area of 2 miles around Nora Island (22°31'.0 N, 69°20'.5 E).

3. **Off Mumbai****Area A**

- a) 18°30' N, 070°50' E
- b) 18°30' N, 071°10' E
- c) 18°12' N, 071°10' E
- d) 18°12' N, 070°50' E

**Area B**

- a) 17°50' N, 072°00' E
- b) 17°50' N, 072°20' E
- c) 17°32' N, 072°20' E
- d) 17°32' N, 072°00' E

**Area R**

- a) 19°32' N, 067°22' E
- b) 19°32' N, 069°06' E
- c) 21°07' N, 069°06' E
- d) 21°07' N, 067°22' E

4. **Mumbai.****Firing from  
Middle Ground**

- a) 18°50'.00 N, 072°54'.50 E
- b) 18°54'.30 N, 072°54'.00 E
- c) 18°54'.50 N, 072°54'.00 E
- d) 18°55'.10 N, 072°54'.50 E
- e) 18°55'.17 N, 072°50'.97 E
- f) 18°54'.65 N, 072°50'.58 E
- g) 18°54'.39 N, 072°50'.35 E
- h) 18°50'.00 N, 072°54'.30 E

**Firing from  
Oyster Rock**

- a) 18°48'.00 N, 072°52'.00 E
- b) 18°50'.00 N, 072°54'.30 E
- c) 18°50'.00 N, 072°54'.50 E
- d) 18°54'.65 N, 072°50'.58 E
- e) 18°54'.39 N, 072°50'.35 E
- f) 18°54'.08 N, 072°49'.80 E
- g) 18°54'.05 N, 072°49'.48 E
- h) 18°48'.00 N, 072°50'.00 E

**Firing from  
Colaba Point**

- a) 18°48'.00 N, 072°38'.00 E
- b) 18°53'.35 N, 072°48'.45 E
- c) 19°00'.00 N, 072°44'.05 E
- d) 19°00'.00 N, 072°38'.00 E

**Area 2**

- a) 18°51'.83 N, 072°38'.33 E
- b) 19°01'.33 N, 072°49'.00 E
- c) 19°05'.00 N, 072°47'.00 E
- d) 19°04'.00 N, 072°35'.00 E

**Area 1**

- a) 18°48'.00 N, 072°38'.00 E
- b) 18°52'.00 N, 072°46'.00 E
- c) 18°51'.00 N, 072°47'.00 E
- d) 18°53'.58 N, 072°48'.75 E
- e) 19°00'.00 N, 072°44'.08 E
- f) 19°00'.00 N, 072°38'.00 E

f) and a) are to be joined by an arc with d) as centre.

5. **Off Goa.****Area A**

- a) 15°12'.50 N, 073°20'.50 E
- b) 14°54'.00 N, 073°28'.50 E
- c) 15°16'.50 N, 073°29'.50 E
- d) 14°58'.00 N, 073°38'.00 E

**Area B**

- a) 15°08'.00 N, 073°10'.50 E
- b) 14°50'.00 N, 073°19'.00 E
- c) 15°12'.50 N, 073°20'.50 E
- d) 14°54'.00 N, 073°28'.50 E

**Air to Air  
Range (VAD 17)**

- a) 15°09' N, 073°11' E
- b) 15°15' N, 073°29' E
- c) 14°37' N, 073°45' E
- d) 14°30' N, 073°29' E

6. **Goa Firing Area.**

- a) 15°13' N, 073°57' E
- b) 15°13' N, 073°52' E
- c) 15°11' N, 073°52' E
- d) 15°11' N, 073°57' E

7. **Netrani Island (Off Karwar).**

- a) 13°56'.20 N, 074°13'.60 E
- b) 14°07'.20 N, 073°25'.07 E
- c) 14°07'.20 N, 074°13'.60 E
- d) 13°55'.20 N, 074°25'.07 E

8. **Off Kochi.****Area D**

- a) 09°01' N, 075°39' E
- b) 09°12' N, 075°08' E
- c) 09°30' N, 075°17' E
- d) 09°12' N, 075°44' E

**Area H**

- a) 09°28' N, 074°09' E
- b) 09°28' N, 074°39' E
- c) 09°04' N, 074°39' E
- d) 09°04' N, 074°09' E

**Area B**

- a) 08°15' N, 074°38' E
- b) 08°30' N, 074°38' E
- c) 08°30' N, 075°00' E
- d) 08°15' N, 075°00' E

**Area E**

- a) 09°56' N, 075°16' E
- b) 09°39' N, 075°28' E
- c) 09°29' N, 075°11' E
- d) 09°46' N, 075°00' E

**Area J**

- a) 09°52' N, 074°15' E
- b) 09°31' N, 074°15' E
- c) 09°31' N, 073°56' E
- d) 09°52' N, 073°56' E

**Area U**

- a) 08°38' N, 074°24' E
- b) 08°56' N, 074°14' E
- c) 08°56' N, 074°34' E
- d) 08°38' N, 074°45' E

9. **Kochi.****Firing Sector**

- a) 09°57'.33 N, 076°14'.17 E
- b) 10°03'.83 N, 076°03'.17 E
- c) 09°44'.83 N, 076°15'.15 E

**Firing Area**

- a) 09°57'.50 N, 075°59'.50 E
- b) 09°57'.70 N, 076°14'.20 E
- c) 09°44'.00 N, 076°17'.50 E
- d) 09°42'.50 N, 076°09'.50 E

10. **Off Trivandrum.****Area P**

- a) 08°16' N, 075°42' E
- b) 08°16' N, 076°32' E
- c) 08°41' N, 076°32' E
- d) 08°41' N, 075°42' E

11. **Chennai Firing Area.**

An arc from Chennai light 037°-184°-16NM

12. **Off Chennai.****Area V**

- a) 16°10' N, 084°18' E
- b) 16°10' N, 084°59' E
- c) 15°30' N, 084°59' E
- d) 15°30' N, 084°18' E

13. **Off Vishakhapatnam.****Area A**

- a) 17°44'.00 N, 084°05'.00 E
- b) 17°44'.00 N, 083°48'.00 E
- c) 17°48'.13 N, 083°42'.00 E
- d) 17°58'.00 N, 083°52'.00E
- e) 17°58'.00 N, 084°19'.00E

**Area B**

- a) 16°30' N, 083°00' E
- b) 15°30' N, 083°00' E
- c) 15°30' N, 084°00' E
- d) 16°30' N, 084°00' E

**Area D**

- a) 16°56'.90 N, 084°00'.20 E
- b) 16°56'.90 N, 084°29'.63 E
- c) 16°30'.41 N, 084°29'.63 E
- d) 16°30'.41 N, 084°00'.20 E

**Area E**

- a) 17°42'.05 N, 083°18'.40 E
- b) 17°41'.50 N, 083°18'.12 E
- c) 17°30'.40 N, 083°18'.12 E
- d) 17°34'.07 N, 083°30'.30 E
- e) 17°46'.07 N, 083°32'.07 E

14. **Off Gopalpur.**

- a) 19°14'.60 N, 084°53'.70 E
- b) 19°37'.05 N, 085°27'.86 E
- c) 18°46'.05 N, 085°22'.86 E

An arc of 40.5 nautical miles radius joining point (b) and (c).

15. **Off Kalaikunda.**

- a) 18°58'.89N, 087°00'.92E
- b) 18°58'.89N, 090°06'.78E
- c) 15°38'.99N, 090°06'.78E
- d) 15°38'.99N, 087°00'.92E

16. **Off Balasore.**

- a) 21°27'.50 N, 087°02'.00 E
- b) 21°09'.00 N, 087°21'.85 E
- c) 21°00'.30 N, 087°03'.00 E
- d) 20°58'.50 N, 086°53'.50 E
- e) 21°10'.90 N, 087°04'.40 E

17. **Off Kolkata.**

- a) 22°11'.50 N, 088°11'.00 E
- b) 22°11'.40 N, 088°08'.00 E
- c) 22°06'.00 N, 088°09'.50 E
- d) 22°01'.00 N, 088°03'.30 E
- e) 22°07'.00 N, 088°10'.50 E
- f) 22°05'.00 N, 088°15'.00 E

18. **Off Port Cornwallis.**

- a) 12°55'.00 N, 094°05'.00 E
- b) 12°55'.00 N, 094°45'.00 E
- c) 12°30'.00N, 094°45'.00 E
- d) 12°30'.00N, 094°05'.00 E

19. **Off Port Blair.****Area A**

- a) 11°39' N, 92°49' E
- b) 11°39' N, 93°03' E
- c) 11°24' N, 93°03' E
- d) 11°24' N, 92°49' E

**Area B**

- a) 11°55' N, 094°03' E
- b) 11°55' N, 094°30' E
- c) 12°25' N, 094°30' E
- d) 12°35' N, 094°03' E

**Area D**

- a) 11°24' N, 92°45' E
- b) 11°24' N, 93°05' E
- c) 11°00' N, 93°05' E
- d) 11°00' N, 92°45' E

**Area E**

- a) 11°39'.70 N, 092°46'.30 E
- b) 11°40'.60 N, 092°47'.00 E
- c) 11°37'.80 N, 092°57'.10 E
- d) 11°30'.40 N, 092°48'.90 E

20. **Off Passage Island.**

- a) 11°05' N, 092°35' E
- b) 11°17' N, 092°47' E
- c) 11°17' N, 092°35' E
- d) 11°05' N, 092°47' E

## 21. Following are safe flying heights:-

- |     |                                |               |
|-----|--------------------------------|---------------|
| (a) | In Areas of Firing by Aircraft |               |
|     | (i) Air to Air Range           | 10,000 Meters |
|     | (ii) Air to Sea/Ground Range   | 7,000 Meters  |
| (b) | In Gunnery Practice Areas      |               |
|     | (i) 4" and above               | 13,000 Meters |
|     | (ii) 40/60 and 20 mm           | 8,000 Meters  |
| (c) | In Missile Firing Areas        | 20,000 Meters |

**SUBMARINE EXERCISE AREAS**1. **Off Mumbai.****Area T**

- a) 18°28'.00 N, 071°36'.00 E
- b) 18°31'.00 N, 071°43'.50 E
- c) 18°34'.50 N, 071°43'.50 E
- d) 18°31'.50 N, 071°36'.00 E

**Area K**

- a) 18°25'.00 N, 071°36'.00 E
- b) 18°34'.00 N, 071°36'.00 E
- c) 18°40'.50 N, 071°50'.50 E
- d) 18°31'.50 N, 071°50'.50 E

2. **Off Ratnagiri.****Area UU**

- a) 18° 00' N 070°12' E
- b) 18° 00' N 070°50' E
- c) 17° 47' N 071°04' E
- d) 17° 40' N 070°50' E
- e) 17° 40' N 070°12' E

3. **Off Goa.****Area RR**

- a) 15°58' N, 072°22' E
- b) 15°58' N, 072°48' E
- c) 15°30' N, 072°52' E
- d) 15°30' N, 072°28' E

4. **Off Karwar.****Area SS**

- a) 14°36' N, 073°15' E
- b) 14°12' N, 073°24' E
- c) 14°04' N, 073°00' E
- d) 14°28' N, 072°52' E

5. **Off Quilon.****Area Z5**

- a) 09°05'.00 N, 075°50'.00 E
- b) 08°50'.00 N, 075°59'.00 E
- c) 08°39'.00 N, 075°31'.50 E
- d) 09°01'.00 N, 075°31'.00 E

6. **Off Kakinada.****Area Z4**

- a) 17°03'.00 N, 083°01'.50 E
- b) 16°58'.50 N, 083°03'.50 E
- c) 16°49'.00 N, 082°44'.00 E
- d) 16°52'.50 N, 082°43'.50 E

7. **Off Vishakhapatnam.****Area S**

- a) 17°29'.50 N, 083°26'.00 E
- b) 17°21'.00 N, 083°31'.50 E
- c) 17°28'.50 N, 083°38'.00 E
- d) 17°37'.00 N, 083°32'.00 E

**Area L**

- a) 17°24'.00 N, 083°51'.00 E
- b) 17°14'.00 N, 083°51'.00 E
- c) 17°20'.50 N, 084°00'.00 E
- d) 17°30'.50 N, 084°00'.00 E

**Area V**

- a) 17°14'.00 N, 083°49'.10 E
- b) 17°02'.00 N, 083°48'.70 E
- c) 17°08'.50 N, 084°00'.00 E
- d) 17°20'.50 N, 084°00'.00 E

**Area W**

- a) 17°04'.00 N, 083°18'.00 E
- b) 17°12'.50 N, 083°27'.00 E
- c) 17°06'.00 N, 083°34'.00 E
- d) 16°58'.00 N, 083°24'.50 E

**Area G1**

- a) 17°09'.50 N, 083°24'.00 E
- b) 17°11'.20 N, 083°22'.50 E
- c) 17°21'.00 N, 083°32'.20 E
- d) 17°19'.20 N, 083°34'.50 E

**Area G2**

- a) 17°01'.50 N, 083°07'.50 E
- b) 17°08'.50 N, 083°21'.00 E
- c) 17°11'.00 N, 083°19'.50 E
- d) 17°04'.00 N, 083°06'.00 E

**Area Z**

- a) 17°40'.00 N, 084°00'.00 E
- b) 17°40'.00 N, 084°30'.00 E
- c) 17°10'.50 N, 084°30'.00 E
- d) 17°10'.50 N, 084°00'.00 E

**Area Z1**

- a) 17°38'.80 N, 083°46'.50 E
- b) 17°33'.00 N, 083°41'.00 E
- c) 17°34'.00 N, 083°37'.00 E
- d) 17°41'.80 N, 083°43'.00 E

**Area Z2**

- a) 17°40'.20 N, 083°44'.80 E
- b) 17°32'.60 N, 083°38'.00 E
- c) 17°37'.20 N, 083°32'.20 E
- d) 17°45'.00 N, 083°39'.00 E

**Area Z3**

- a) 17°26'.60 N, 083°37'.50 E
- b) 17°18'.70 N, 083°30'.60 E
- c) 17°20'.30 N, 083°27'.80 E
- d) 17°28'.90 N, 083°34'.70 E

6. **Off Chennai.****Area C**

- a) 13°10' N, 081°15' E
- b) 13°40' N, 081°15' E
- c) 13°40' N, 081°45' E
- d) 13°10' N, 081°45' E

7. **Off Port Blair.****Area S**

- a) 11°15' N, 094°00' E
- b) 11°45' N, 094°00' E
- c) 11°45' N, 094°30' E
- d) 11°15' N, 094°30' E

**Area T**

- a) 11°55' N, 091°30' E
- b) 12°25' N, 091°30' E
- c) 12°25' N, 092°00' E
- d) 11°55' N, 092°00' E

**MISSILE FIRING AREAS**1. **Off Angria Bank.****Area L**

- a) 17° 40' N, 071° 14' E
- b) 17° 30' N, 071° 07' E
- c) 17° 18' N, 071° 16' E
- d) 15° 43' N, 071° 28' E
- e) 15° 22' N, 072° 05' E
- f) 16° 32' N, 072° 35' E
- g) 16° 53' N, 072° 00' E
- h) 17° 25' N, 071° 30' E

2. **Off Sesostris Bank.****Area S**

- a) 16° 38'.00 N, 070° 03'.00 E
- b) 16° 38'.00 N, 071° 10'.00 E
- c) 16° 00'.00 N, 071° 10'.00 E
- d) 13° 32'.50 N, 073° 22'.00 E
- e) 12° 44'.00 N, 073° 22'.00 E
- f) 12° 44'.00 N, 068° 52'.00 E
- g) 14° 00'.00 N, 069° 10'.00 E
- h) 15° 15'.00 N, 070° 12'.00 E

3. **Off Visakhapatnam.****Area M**

- a) 18°58'.89N, 087°00'.92E
- b) 18°58'.89N, 090°06'.78E
- c) 15°38'.99N, 090°06'.78E
- d) 15°38'.99N, 087°00'.92E

4. **Off Tillanchang.****Area T**

- a) 08°08' N, 093°06' E
- b) 08°08' N, 094°08' E
- c) 11°12' N, 094°08' E
- d) 11°12' N, 093°06' E

5. **Off Port Blair.****Area C**

- a) 11°00' N, 092°50' E
- b) 10°30' N, 092°50' E
- c) 10°30' N, 093°40' E
- d) 10°00' N, 093°40' E

## **SECTION – X** **REPORTING OF NAVIGATIONAL DANGERS**

### **Appeal to all Mariners**

1. Mariners at sea whilst on passage, or whilst entering / leaving ports / harbours and other waterways, are requested to look out for new or suspected dangers to navigation, changes in aids to navigation, or corrections to published charts and Sailing Directions. Whenever any such changes / dangers are observed, mariners are requested to notify the same to the Chief Hydrographer to the Government of India at the following address: -

National Hydrographic Office  
107-A, Rajpur Road,  
Dehradun - 248001  
(UTTARAKHAND), INDIA  
e-mail: - inho-navy@nic.in, msis-inho-navy@nic.in  
Fax No.: +91-135- 2748373  
WEB: www.hydrobharat.nic.in

### **Instructions for filling up IH 102**

2. Kindly follow the instructions below in order to help the Hydrographic Office (the recipient) to quickly issue NAVAREA warning / Notice to Mariners for the benefit of all other mariners at sea.

### **Position Reporting**

3. Accurate position or knowledge of position error is of great importance. Latitude and Longitude should only be used to specify position details when they have been fixed by GPS or Astronomical Observations. A full description of the method, equipment, time and datum (WGS 84/ Everest/Other) used should be given. When position is defined by sextant angles or bearings (true or magnetic to be specified), more than two bearings should be used in order to provide a redundancy check. Distances observed by Radar should be corrected for index errors. Where position is derived after the event, from other observations and/or Dead Reckoning, the methodology of deriving the position should be included.

4. Paper Charts. A copy/tracing of largest scale chart is the best medium for forwarding details, the alterations and additions being shown thereon in red, but adequate details from the chart must be traced in black ink to enable the amendments to be fitted correctly.

5. ENCs. A Screen shot of largest scale usage band ENC with the alterations and additions being shown thereon in red. If it is to report an issue with the display of an ENC, a screen shot of the affected cell should be sent along with details of the ECDIS make and version in use at the time.

### **Depth Reporting**

6. When soundings are obtained using echo sounders, the echo sounding trace should be duly annotated with date, times, position, depths, etc., and forwarded with the IH102. It is important to state whether the echo sounder is set to register depths below the surface or below the keel; in the latter case the vessel's draught should be given. Time and date should be given in order that corrections for the height of the tide may be made where necessary. The make, name and type of echo sounder should also be given.

7. For modern echo sounders that use electronic 'range gating', care should be taken that the correct range scale and appropriate gate width are in use. Older electro-mechanical echo sounders frequently record signals from echoes received back after one or more rotations of the stylus have been completed. Thus with a set whose maximum range is 500m, an echo recorded at 50m may be from depths of 50m, 550m or even 1050m. Soundings recorded beyond the set's nominal range can usually be recognised by the following:

- (a) the trace being weaker than normal for the depth recorded;
- (b) the trace passing through the transmission line;
- (c) the feathery nature of the trace.

As a check that apparently shoal soundings are not due to echoes received beyond the set's nominal range, soundings should be continued until reasonable agreement with charted soundings is reached. However, soundings received after one or more rotations of the stylus can still be useful and should be submitted if they show significant differences from the charted depths. Efforts should be made to identify and negate false echoes if any. The Mariners Handbook (NP100) and Notice 15 Special Edition of Notice to Mariners may be consulted.

8. Reports which cannot be confirmed or are lacking in certain details should not be withheld. Shortcomings should be stressed and any firm expectation of being able to check the information on a succeeding voyage should be notified.

9. Reports of **shoal soundings**, uncharted dangers and aids to navigation out of order should, at the mariner's discretion, also be made by radio to the nearest coast radio station. The draught of modern tankers in such that any uncharted depth under 30 meters or 15 fathoms may be of sufficient importance to justify a radio message.

10. Changes to Port information should be forwarded on Form IH.102A together with form IH.102. Form 102 A contains the information required for Sailing Directions and should be used as an *aide memoir*. The Mariners Handbook, NP100, Chapter 8 gives general instructions. Where there is insufficient space on the forms an additional sheet should be used.

*Please Note:* - An acknowledgement will be sent by National Hydrographic Office for Hydrographic Notes received. When a Notice to Mariners is issued, the sender's ship or name is quoted as authority unless the information is also received from other authorities/foreign Notices to Mariners. Further communication from National Hydrographic Office to the sender of Hydrographic Notes will only be necessary to verify unusual features or abnormal values reported.



<b>HYDROGRAPHIC NOTE</b>		<b>IH.102 (Revised 2012)</b>	
For Forwarding information for Indian Charts, ENC's and Publications and reporting of ENC related issues			
Date		Ref. Number	
Name of the Ship or Sender			
Address			
Tel/FAX/E-mail address			
Observation Date		Time (UTC/IST)	
Object of Changes Observed (Tick appropriate)	<input type="checkbox"/> Bathymetry	<input type="checkbox"/> Nav. Dangers	<input type="checkbox"/> Nav. aids
	<input type="checkbox"/> Designated Areas	<input type="checkbox"/> Others	
Geographical Position (See Instructions Overleaf)	Latitude		Longitude
Position Method	<input type="checkbox"/> DGPS	<input type="checkbox"/> GPS	<input type="checkbox"/> Radar <input type="checkbox"/> Others
Datum Used	<input type="checkbox"/> WGS84	<input type="checkbox"/> Everest	<input type="checkbox"/> Others
Charts Affected		Edition	
Latest Edition of Indian Notices to Mariners Held			
Tracing/Plot/Photograph if enclosed			
ENCs Affected			
Latest Update Disk Held			
Publication Affected		Edition	
Page No./Light No. etc			
Details:			
Limitations if any in Reporting the Changes Above			
Details of Documents/Photos attached:			
Signature of the Master/Reporter/Observer			

<b>HYDROGRAPHIC NOTE FOR PORT INFORMATION</b> (To accompany Form IH.102)		<b>IH.102A</b> (Revised 2012)	
Date		Ref. No.	
Name of the Ship or Sender			
Address			
Tel/Fax/E-mail			
<b>1. NAME OF PORT</b>			
Location	Latitude	Longitude	
<b>2. GENERAL REMARKS</b>			
Principal activities and trade			
Number of ships and tonnage handled per year			
Maximum size of draught of vessel handled			
Copy of Port handbook (if available)			
<b>3. ANCHORAGES</b>			
Type / Purpose			
Minimum depth at anchorage			
Shelter afforded			
Holding ground			
Recommended pilotage to the anchorage			
<b>4. PILOTAGE</b>			
Authority for request			
Embarkation position			
Regulations			
Documents to be provided			
Recommended pilotage to approach of Harbour and Berths			
Information on VTMS			
<b>5. DIRECTIONS</b>			
Entry and Berthing Information			
Tides (Height)			
Tidal Stream Information			
Wind Speed and Direction			
Navigational Aids (Beacons / Buoys / Lights / Etc.)			
<b>6. POLLUTION CONTROL</b>			
Local regulation in force (If Any)			
<b>7. TUGS</b>			
Number available / Tug type			
Maximum HP / Bollard pull			

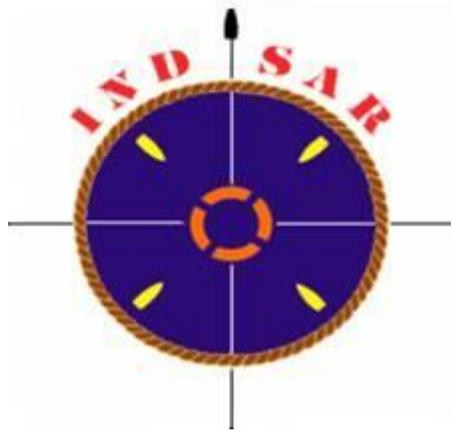
<b>7. TUGS (Continued)</b>	
Requesting authority	
Availability timing / Communication	
Hiring charges	
<b>8. BERTHING AND WHARVES</b>	
Type & Number of berths available	
Length	
Depth alongside	
Facilities available	
Procedure for requesting berth & hiring charges	
<b>9. CARGO HANDLING</b>	
Containers	
Lighters & Ro-Ro etc.	
<b>10. CRANES</b>	
Brief details of Max. lifting capacity, Height of boom at wharf level and Outreach	
Container handling facilities	
<b>11. BRIDGES</b>	
Vertical clearance	
<b>12. REPAIRS</b>	
Hull machinery and underwater	
Ship and Boat yards	
Docking or Slipway facilities (Size/ Dimensions of vessels handled)	
Hards and Ramps	
Divers / Diving assistance	
<b>13. SERVICES</b>	
Radio / FAX / Telephone / Internet etc.	
Medical	
Quarantine	
Consul	
Ship chandlery and Stevedores	
Compass adjustment	
Tank cleaning	
Hull painting	
Police / Ambulance / Firefighting (Fixed and Mobile facilities)	
Nav. Warning and Weather bulletin	
Garbage disposal / Waste oil disposal	
Helicopter landing facilities	

<b>14. RESCUE &amp; DISTRESS</b>	
Salvage, Lifeboat, Life guards, etc	
<b>15. SUPPLIES</b>	
Fuel (Type, Quantities & Method of delivery)	
Fresh water (Method of delivery and Rate of supply)	
Provisions	
Chart agents	
<b>16. COMMUNICATIONS</b>	
Road, Rail and Air services available	
Nearest airport or airfield	
Port Radio and Information Service (Frequencies and Operating Hours)	
<b>17. PORT AUTHORITY</b>	
Designation, Address, Telephone, E-mail Address and Website	
<b>18. SECURITY</b>	
Security of ports / International Ship and Port Facility Security (ISPS) compliance	
Custom and Immigration Regulations in force	
<b>19. SMALL CRAFT FACILITIES</b>	
Information and facilities for small craft, yachts visiting the port	
Yacht clubs, berths etc	
<b>20. SHORT LEAVE</b>	
<b>21. CLUBS RECREATION</b>	
Information Kiosk (Location)	
Foreign Exchange firms / Banks (Within / Near Port Area)	
Places of interest near port	
<b>22. VIEWS</b>	
Photographs(Duly annotated) of the approaches, leading marks, the entrance to the harbour etc.	
<b>23. ADDITIONAL DETAILS</b>	
Any other information considered to be useful for the mariners	
<b>SIGNATURE OF THE OBSERVER / REPORTER / MASTER</b>	

*To accompany Indian Notice to Mariners 033/14*  
*Chart 252 (INT 7325)*

**VESSEL REPORTING**

For details of Gulf of Kachchh, Vessel Traffic Service see Indian List of Radio Signals Volume 6.



**FOR 24 X 7 SAR ASSISTANCE IN INDIAN SRR**

**Email: [indsar@vsnl.net](mailto:indsar@vsnl.net)**

**NATION WIDE SAR TELE: 1554 (LAND LINE)**

**INMARSAT C (IOR) 441907210 CODE: 43 (TOLL FREE)**

**AFTN: VABBYXYC**