



INDIAN NOTICES TO MARINERS



EDITION NO. 02 DATED 16 JAN 2016

(CONTAINS NOTICES 039 TO 047)

REACH US 24 x 7



incho-navy@nic.in
msis-incho-navy@nic.in



+91-135-2748373



National Hydrographic Office
107-A, Rajpur Road
Dehradun – 248001
INDIA



Joint Director of Hydrography
Maritime Safety Information Services
+91- 135 - 2747360-65

WWW
www.hydrobharat.gov.in

CONTENTS

Section No.	Title
I	List of Charts Affected
II	Permanent Notices
III	Temporary and Preliminary Notices
IV	Marine Information
V	NAVAREA VIII Warnings inforce
VI	Corrections to Sailing Directions
VII	Corrections to List of Lights
VIII	Corrections to List of Radio Signals
IX	Reporting of Navigational Dangers

(PUBLISHED ON NHO WEBSITE ON 1ST & 16TH OF EVERY MONTH)

FEEDBACK: msis-incho-navy@nic.in



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



© Govt. of India Copyright

No permission is required to make copies of these Notices. However, such copies are not to be commercially sold.

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**

WARNING AGAINST USE OF COUNTERFEIT PRODUCTS

All mariners are cautioned against the use of counterfeit copies of IN Charts and publications. Navigational Charts produced after 31 Oct 14 carry NHO crest as watermark on the reverse with backslip. Chart Agent's stamp is mandatory on all Charts.

Counterfeit products may have errors resulting in potential risks. The same are not approved by inspecting agencies and do not satisfy the carriage requirements of SOLAS chapter V.

Mariners are strongly advised not to use or encourage the use of counterfeit charts and publications. Failure to comply with the warning may invite legal action.

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 some 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 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>
IN52007I	2007	Androth Island	06-01-2016
IN62007J	2007	Androth Jetty	01-01-2016

2. 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>
IN52007A	2007	Androth Island	13-12-2007
IN62007P	2007	Plan of Androth Jetty	13-12-2007

3. The forthcoming Indian Charts are as follows:-

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
408 (INT 7446)	CHOWRA ISLAND TO NANCOWRY HARBOUR	1,50,000	New Chart
2011	APPROACHES TO JAIGARH & ANGRE PORTS	25,000	New Edition
2024	TADRI ANCHORAGE	30,000	New Chart
	HONAVAR ANCHORAGE	25,000	New Chart
2054	MADHWAD BAY	25,000	New Chart
2057	PLANS ON THE GUJARAT COAST; SIMAR ANCHORAGE	25,000	New Chart
	MAHUVA BANDAR	25,000	New Chart

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 Web site: www.hydro.gov.uk	M/s Jeppesen Norway AS Hovalandsveien 52 PO Box 212, N-4379, Egersund, Norway Ph: +47 51 464700 Mob: +91 93222 38542 Fax: +47 51 464701 Email: enc@jeppesen.com, info@c-map.co.no Website: www.jeppesen.com
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: data@ecc.no Website: - www.primar.org	M/s IIC Technologies Limited B-2-350/5/B-22, Road No. 3 Banjara Hills Hyderabad- 500 034 Tel:+91 4039144444 Fax: +91 4039144455 Email: somnath.marthi@iictechnologies.com Web: www.iictechnologies.com

SECTION – I

The list of charts affected by the Notices 039 to 047 contained in this edition is as follows:

CHART NUMBER	FOLIO NO.	NOTICE NO.
202	2	046 (T)
203 (INT 7319)	2	042, 046 (T)
208	2	041
211	3	040
212	3	040
214	3	047(T)
255 (INT 7334)	3	040
256 (INT 7340)	3	040
292 (INT 7021)	2	040
293 (INT 7022)	3	040
324	7	044
325	7	044
352 (INT 7416)	5	043
371	7	044
2018 (INT 7321)	2	042
2022 (INT 7345)	3	047(T)
2031 (INT 7326)	2	046 (T)
2036 (INT 7352)	3	040
2039	2	041
2041	3	045
2065	3	039
2068	2	046 (T)
2078 (INT 7346)	3	047(T)
2080	2	042
3010 (INT 7418)	5	043
3041	5	043

SECTION – II
PERMANENT NOTICES

***039 (02/16) INDIA – WEST COAST – Port Dabhol – Light.**

Source: RGPPL.

Chart 2065 [previous update 188/15]

Insert  IQ.R.15s11m4M 17° 31′.619N., 73° 08′.564E.
17° 31′.758N., 73° 08′.393E.

***040 (02/16) INDIA – WEST COAST – Dighi Harbour (Murud Janjira) and Approaches – Wreck.**

Source: MRCC Mumbai.

Chart 293 (INT 7022) [previous update 188/15]

Insert  PA 18° 18′.11N., 72° 47′.35E.

Chart 292 (INT 7021) [previous update 154/15]

Insert  PA 18° 18′.11N., 72° 47′.35E.

Chart 255 (INT 7334) [previous update 091/15]

Insert  PA 18° 18′.11N., 72° 47′.35E.

Chart 256 (INT 7340) [previous update 188/15]

Insert  PA 18° 18′.06N., 72° 47′.39E.

Chart 211 [previous update 167/15]

Insert  PA 18° 18′.11N., 72° 47′.35E.

Chart 212 [previous update 188/15]

Insert  PA 18° 18′.06N., 72° 47′.39E.


Chart 2036 (INT 7352) [previous update 201/14]

Insert  PA 18° 18′.11N., 72° 47′.35E.

***041 (02/16) INDIA – WEST COAST – Gulf of Khambhat (Cambay) Northern Portion – Anchorage Area.**

Source: NHO.



Chart 208 [previous update 177/15]

Insert limit of anchorage area,  , joining: (a) 21° 39′.97N., 72° 21′.51E.
21° 42′.47N., 72° 21′.91E.
21° 42′.47N., 72° 25′.01E.
21° 39′.97N., 72° 25′.01E.
(a) above

Delete limit of anchorage area,  , joining: 21° 40′.00N., 72° 21′.50E.
21° 44′.00N., 72° 21′.50E.
21° 44′.48N., 72° 22′.00E.
21° 42′.50N., 72° 22′.00E
21° 42′.50N., 72° 25′.00E
21° 40′.00N., 72° 25′.00E

***041 (02/16) INDIA – WEST COAST – Gulf of Khambhat (Cambay) Northern Portion – Anchorage Area. Continued.**

Chart 2039 [previous update 177/15]

Insert	limit of anchorage area, 	, joining:	(a) 21° 39′.96N., 72° 21′.53E. 21° 42′.46N., 72° 21′.93E. 21° 42′.46N., 72° 25′.03E. 21° 39′.96N., 72° 25′.03E. (a) above
Delete	limit of anchorage area, 	, joining:	21° 40′.00N., 72° 21′.50E. 21° 44′.00N., 72° 21′.50E. 21° 44′.48N., 72° 22′.00E. 21° 42′.50N., 72° 22′.00E. 21° 42′.50N., 72° 25′.00E. 21° 40′.00N., 72° 25′.00E

***042 (02/16) INDIA – WEST COAST – Gulf of Kachchh – Approaches to Kandla – Wreck. Dumping Ground.**

Source: Tuna Port.

Chart 203 (INT 7319) [previous update 187/15]

Insert		22° 50′.15N., 70° 04′.98E.
Delete	 PA	22° 50′.15N., 70° 04′.82E.

Chart 2080 [previous update 146/14]

Insert		22° 50′.19N., 70° 04′.97E.
Delete	 PA	22° 50′.19N., 70° 04′.81E.

Chart 2018 (INT 7321) [previous update 187/15]

Insert	circular limit of dumping area, pecked line, radius 1000M centered on: legend, "Dumping Ground", centered on:	(a) 22° 50′.03N., 70° 08′.98E. (a) above
		22° 50′.19N., 70° 04′.97E.
Delete	 PA	22° 50′.19N., 70° 04′.81E.

***043 (02/16) INDIA – EAST COAST – Paradip Port – Buoys.**

Source: Paradip Port Trust.

Chart 352 (INT 7416) [previous update 077/15]

Insert	 Fl.4s	20° 12′.37N., 86° 46′.84E.
--------	---	----------------------------






Chart 3041 [previous update 181/15]

Insert	 Fl.G.3s No. 1	20° 12′.82N., 86° 46′.32E.
	 Fl.R.3s No. 2	20° 12′.58N., 86° 46′.17E.

***043 (02/16) INDIA – EAST COAST – Paradip Port – Buoys. Continued.**

	<i>Fl.G.3s</i> <i>No. 3</i>	20° 13′.47N., 86° 45′.12E.
	<i>Fl.R.3s</i> <i>No. 4</i>	20° 13′.23N., 86° 44′.98E.
	<i>Fl.4s</i>	20° 12′.37N., 86° 46′.84E.

Chart 3010 (INT 7418) [previous update 181/15]

Insert		<i>Fl.G.3s</i> <i>No. 1</i>	20° 12′.82N., 86° 46′.32E.
		<i>Fl.R.3s</i> <i>No. 2</i>	20° 12′.58N., 86° 46′.17E.
		<i>Fl.G.3s</i> <i>No. 3</i>	20° 13′.47N., 86° 45′.12E.
		<i>Fl.R.3s</i> <i>No. 4</i>	20° 13′.23N., 86° 44′.98E.
		<i>Fl.4s</i>	20° 12′.37N., 86° 46′.84E.

***044 (02/16) BAY OF BENGAL & ANDAMAN SEA – Coast of Burma – Hnget – Taung Island to Bassein River – Well Head.**

Source: Myanmar Hydrographic Centre.

Chart 371 [previous update 162/15]

Insert		<i>SYH-1</i> <i>Well</i>	16° 55′.33N., 93° 51′.62E.
--------	---	-----------------------------	----------------------------

Chart 324 [previous update 162/15]

Insert		<i>SYH-1</i> <i>Well</i>	16° 55′.33N., 93° 51′.62E.
--------	---	-----------------------------	----------------------------

Chart 325 [previous update 270/08]

Insert		<i>SYH-1</i> <i>Well</i>	16° 55′.33N., 93° 51′.62E.
--------	---	-----------------------------	----------------------------

***045 (02/16) INDIA – West Coast – Devgarh Harbour – Legend.**

Source: NHO.

Chart 2041 [previous update NC 15 Nov 15]

Insert	FS SS (Strom)	16° 23′.33N., 73° 22′.32E.
--------	------------------	----------------------------

SECTION – III**TEMPORARY AND PRELIMINARY NOTICES*****046 (T) (02/16) INDIA – WEST COAST – Gulf of Kachchh Deep Water Route – Buoy.**

Source: Okha Port.

1. A wave rider buoy is placed in position 22° 29'·15N., 68° 58'·84E. to alert all fishing vessel in terms of bad weather for their safety.
2. Mariners are advised to navigate with caution.
3. *Former INM 200(T)/15 is cancelled.*

Charts affected – 202 – 203 (INT 7319) – 2031 (INT 7326) – 2068.

***047 (T) (02/16) INDIA – WEST COAST – Port of Mormugao – Dredging.**

Source: Mormugao Port Trust.

1. TSHD DCI “Dredge XXI” is carrying out capital dredging at Mormugao Port. The dredger will carry out dredging work in the navigational channel and approaches to berth no. 5, 6 & 7.
2. The dredged material will be dumped at newly established dumping ground as per the co-ordinates mentioned below:

Dumping Ground 1

15° 27'·21N., 73° 40'·42E

15° 27'·22N., 73° 41'·54E

15° 26'·13N., 73° 41'·55E

15° 26'·13N., 73° 40'·43E

Dumping Ground 2

15° 27'·20N., 73° 38'·91E

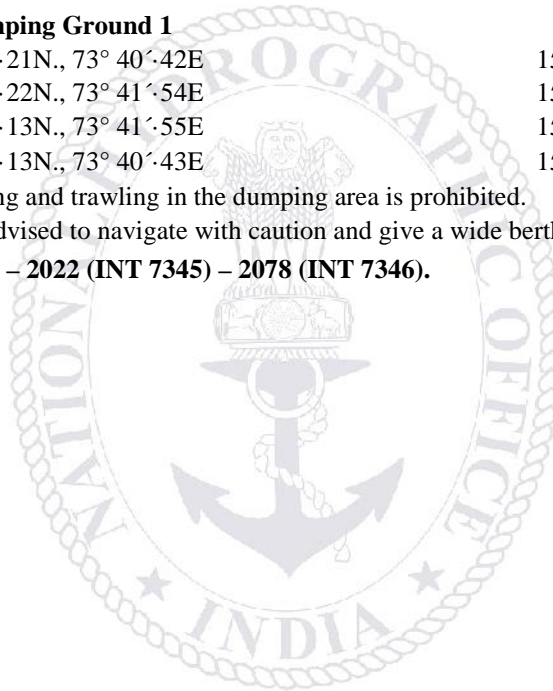
15° 27'·21N., 73° 40'·03E

15° 26'·13N., 73° 40'·04E

15° 26'·12N., 73° 38'·92E

3. Entry, anchoring and trawling in the dumping area is prohibited.
4. Mariners are advised to navigate with caution and give a wide berth to the dredger.

Charts affected – 214 – 2022 (INT 7345) – 2078 (INT 7346).



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 icgmrc_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, 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 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 (16th 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. **GAGAN SYSTEM COMMISSIONED FOR OPERATIONS**

The GAGAN System is now commissioned for safety of life, civil aviation, and en- route operations in addition to all other non-aviation applications. The GAGAN signal is being broadcasted through GSAT-8 and GSAT-10 with PRN127 & 128 respectively.

All the GPS users are requested to enable SBAS functionality in their receivers, configure it to receive PRN-127& 128 and avail the benefits of GAGAN in terms of increased accuracy and reliability. There may be occasional signal outages due to system up-gradation activities.

6. **USAGE OF THURAYA/ IRRIDUM AND SATELLITE PHONE**

The use of Thuraya, Iridium and other such satellite phone is banned in India under Sec 6 of Indian Wireless Act and Sec 20 of Indian Telegraph Act. It is intimated to all shipping companies/ shipping agents that use of Thuraya/ Iridium and other such satellite phones are banned in Indian waters and seafarers should not use the same.

Satellite phones can be used only after no objections certificate issued by department of telecommunication (DOT) on a case to case basis. The shipping agents should mandatorily intimate the details of person carrying Thuraya and the particulars of Thuraya, Iridium and other such sets in pre arrival notification on security (PANS).


The unauthorized holders of Thuraya/ Iridium and other such Satellite phones can be prosecuted under Sec 6 of Indian Wireless Act and Sec 20 of Indian Telegraph Act.

7. **CAUTIONARY NOTE**

There is a finite amount of lag between publication of large and small scale Indian Nautical Charts. To avoid uncertainty the mariners are advised to use large scale charts for coastal navigation wherever applicable and available. In addition, mariners are to refer large scale charts in conjunction with small scale charts in areas where both overlap during both planning and conduct of passage.

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

List of Indian Chart Agents

<p>M/s OSA Books and Periodicals R-246, Greater Kailash –I, New Delhi - 110 048 Tel/Fax: 011-46557337, Mob: 9971093992 Email: rpani246@gmail.com</p>	<p>M/s Sterling Book House 181, Dr. DN Road, Fort, Mumbai – 400 001 Tel: 91-22-22612521, Fax: 91-22-22623551 Email : sbh@vsnl.com</p>
<p>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@globalcharts.in Web: www.globalcharts.com.sg</p>	<p>EW Liner Charts & Publication (India) 2/524, Sundeep Road, Chinna Neelangarai, Chennai 600041 Tele/Fax : +91-44-24490668 Mob No : +91-9003245348 Email: maritimeindia@airtelmail.in</p>
<p>M/s C & C Marine Combine 25 Bank Street, 1st Floor, Mumbai - 400 023 Tel: 91-22- 22660525, 22661937, 22672143 Fax: 91-22-22670896 Email: ccmarine@vsnl.com, sales@ccmarine.in</p>	<p>Gujarat Pipavav Port Limited PO – Uchchayya, Dist – Amereli, Gujarat – 365 560 Tele: +91- 2794302400 Fax: 302413 (Only for Pipavav Port Chart)</p>
<p>M/s SVR Chart Agencies Door No.50-81-35/6, Santhipuram, Seetammapeta, Visakhapatnam – 530 016 Tele Fax: 0891-2799471, Cell: +91 9440132553, 9849120988, 9885308200 Email : mahalakshmitravels@hotmail.com</p>	<p>M/s Jeppesen India Pvt. Ltd 505, Raheja Arcade, Sector 11 CBD, Belapur, Navi Mumbai – 400 614 Tel: +91 22 6510 3668, Fax: +91 22 55939504 Mob: +9322238542 Email: RajShekhar.Chakravorty@jeppesen.com, info@jeppesen.com Website: www.jeppesen.com</p>
<p>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 : jmms@mtnl.net.in, charts@mtnl.net.in</p>	<p>M/s Global Marine Infratech Pvt. Ltd. Siksha Sandan, Ground Floor, ND-7, Bhubaneswar – 751015 Tel: +91-674-2550599, Fax: +91-674-2551899 Cell:- +919937064299 Email: ashiskantha@gmiindia.in Web: www.gmiindia.in</p>
<p>Lift o Marine Paper / Digital Charts Allen’s Mansion, Flat C6 Nungi Station Road Kolkata – 700 140, IN Tel: +91 9836972027 / 8902228463 Fax: 033 24924283 Email: sankar@liftmarine.org Web: www.liftmarine.org</p>	<p>M/s L. R. Marine Services 301, 3rd Floor, Birya House, 265, Perin Nariman Street, Fort, Mumbai - 400 001. Tel: +91-22-2269 1535, Fax: +91-22-6635 9148 Cell No: +91 8108926880/ +91 98214 60258 Email: lrcharts@gmail.com, lrmarine@live.com</p>
<p>M/s Engineering Logistics Executive Multi Services Elems Charts, Door No: 61-4-45-A/4, Prakash Nagar Malkapuram Visakhapatnam – 530 011 Mob: +91 9133871827 Email: sales@elemscharts.in Web: www.elemscharts.in</p>	<p>M/s IIC Technologies Limited B-2-350/5/B-22, Road No. 3, Banjara Hills, Hyderabad – 500 034 Tel: +91 4039144444 Fax: +91 4039144455 Email: somnath.marthi@iictechnologies.com Web: www.iictechnologies.com</p>
<p>M/s Aatash Computer & Communications Pvt. Ltd. 213, Devarc Commercial Complex Nr. Iscom Circle (above Woodland Showroom) S. G. Highway Ahmedabad – 380 015 Mob: +91 7926923982 Email: jyoti@aatash.com, zubin@aatash.com</p>	<p>M/s Zenith Surveys (I) Pvt. Ltd. Lakhani’s Plam View, First Floor, Office No. 889, Sector 48, Nerul, Navi Mumbai – 400 706 Tel/ Fax: +91-22- 27708011 Email: zenithsurveys703@gmail.com, nyvmane@yahoo.com Web: www.zenithsurvey.com</p>

SECTION – V
NAVAREA – VIII WARNINGS IN FORCE

1. For details of NAVAREA limits and organisation/coordination, please refer to Notice No. 12 of the Special edition of Indian Notice to Mariners – 2012.
2. NAVAREA VIII Warnings in force as on 15 Jan 16:

<u>2015 SERIES</u> – 124 287 288 298 334 386 408 439 445 486 498 514 556 567 573 582 616 633 646 672 706 728 729 735 737 770 787 829 854 871 876 886 892 894 896 899 900
<u>2016 SERIES</u> – 003 007 013 014 015 016 018 020 027 028 029 031 032 033 034 035 036 037 038

3. NAVAREA VIII Warnings issued during the period from 01 Jan to 15 Jan 16 (both dates inclusive) are as tabulated below:–

001. Wishing All Mariners Happy Sailing and Safe Navigation with Fair Winds and Following Seas in 2016. Shano Varuna.																																																																
2. Cancel this MSG 04 Jan 16.																																																																
002. Cancel Navarea VIII 897. India West Coast. Charts 21 22 293 INT 71. Rig list correct at 011000 UTC Jan 16.																																																																
<table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 70%;">ABAN ICE</td><td>18-55.01N 070-18.95E</td></tr> <tr><td>ABAN III</td><td>19-10.61N 070-57.71E</td></tr> <tr><td>ABAN IV</td><td>19-29.79N 071-19.83E</td></tr> <tr><td>CE THORNTON</td><td>19-40.10N 072-18.89E</td></tr> <tr><td>DISCOVERY-1</td><td>19-12.50N 072-02.24E</td></tr> <tr><td>DYNAMIC VISION</td><td>18-38.20N 071-00.92E NEW</td></tr> <tr><td>DEEP SEA FORTUNE</td><td>19-40.14N 072-00.34E</td></tr> <tr><td>DEEP SEA FOSSIL</td><td>19-14.25N 072-06.46E</td></tr> <tr><td>FG MCCLINTOCK</td><td>18-58.31N 071-29.99E</td></tr> <tr><td>GREAT DRILL CHAAYA</td><td>18-40.10N 072-13.59E</td></tr> <tr><td>GREAT DRILL CHETNA</td><td>21-37.38N 068-26.55E</td></tr> <tr><td>GREAT DRILL CHITRA</td><td>19-18.10N 072-02.43E</td></tr> <tr><td>GREAT DRILL CHAARU</td><td>18-59.30N 072-16.58E</td></tr> <tr><td>HARVEY H WARD</td><td>19-32.84N 071-22.80E</td></tr> <tr><td>JINDAL STAR</td><td>19-15.26N 071-21.90E</td></tr> <tr><td>JT ANGEL</td><td>22-36.89N 068-26.06E</td></tr> <tr><td>MERCURY FOCUS</td><td>21-18.12N 072-31.64E</td></tr> <tr><td>NOBLE ED HOLT</td><td>19-01.90N 071-32.57E</td></tr> <tr><td>PARAGON L-786</td><td>19-29.88N 071-24.70E</td></tr> <tr><td>PARAGON M 1161</td><td>18-54.75N 071-49.57E</td></tr> <tr><td>RON TAPMEYAR</td><td>18-47.47N 071-59.99E</td></tr> <tr><td>SAGAR GAURAV</td><td>19-07.88N 070-58.50E</td></tr> <tr><td>SAGAR SHAKTI</td><td>19-39.70N 071-04.71E</td></tr> <tr><td>SAGAR JYOTI</td><td>19-25.14N 071-15.83E</td></tr> <tr><td>SAGAR KIRAN</td><td>18-44.50N 072-19.63E</td></tr> <tr><td>SAGAR LAXMI</td><td>20-58.00N 071-33.00E</td></tr> <tr><td>SAGAR PRAGATI</td><td>20-58.00N 071-33.00E</td></tr> <tr><td>SAGAR UDAY</td><td>19-07.35N 072-06.45E</td></tr> <tr><td>TRIDENT XII</td><td>19-25.23N 071-16.99E</td></tr> <tr><td>VICTORY DRILLER</td><td>18-31.95N 072-15.23E</td></tr> <tr><td>VIRTUE-I</td><td>18-58.44N 071-37.44E</td></tr> <tr><td>VALIANT DRILLER</td><td>19-38.88N 071-21.03E</td></tr> </table>	ABAN ICE	18-55.01N 070-18.95E	ABAN III	19-10.61N 070-57.71E	ABAN IV	19-29.79N 071-19.83E	CE THORNTON	19-40.10N 072-18.89E	DISCOVERY-1	19-12.50N 072-02.24E	DYNAMIC VISION	18-38.20N 071-00.92E NEW	DEEP SEA FORTUNE	19-40.14N 072-00.34E	DEEP SEA FOSSIL	19-14.25N 072-06.46E	FG MCCLINTOCK	18-58.31N 071-29.99E	GREAT DRILL CHAAYA	18-40.10N 072-13.59E	GREAT DRILL CHETNA	21-37.38N 068-26.55E	GREAT DRILL CHITRA	19-18.10N 072-02.43E	GREAT DRILL CHAARU	18-59.30N 072-16.58E	HARVEY H WARD	19-32.84N 071-22.80E	JINDAL STAR	19-15.26N 071-21.90E	JT ANGEL	22-36.89N 068-26.06E	MERCURY FOCUS	21-18.12N 072-31.64E	NOBLE ED HOLT	19-01.90N 071-32.57E	PARAGON L-786	19-29.88N 071-24.70E	PARAGON M 1161	18-54.75N 071-49.57E	RON TAPMEYAR	18-47.47N 071-59.99E	SAGAR GAURAV	19-07.88N 070-58.50E	SAGAR SHAKTI	19-39.70N 071-04.71E	SAGAR JYOTI	19-25.14N 071-15.83E	SAGAR KIRAN	18-44.50N 072-19.63E	SAGAR LAXMI	20-58.00N 071-33.00E	SAGAR PRAGATI	20-58.00N 071-33.00E	SAGAR UDAY	19-07.35N 072-06.45E	TRIDENT XII	19-25.23N 071-16.99E	VICTORY DRILLER	18-31.95N 072-15.23E	VIRTUE-I	18-58.44N 071-37.44E	VALIANT DRILLER	19-38.88N 071-21.03E
ABAN ICE	18-55.01N 070-18.95E																																																															
ABAN III	19-10.61N 070-57.71E																																																															
ABAN IV	19-29.79N 071-19.83E																																																															
CE THORNTON	19-40.10N 072-18.89E																																																															
DISCOVERY-1	19-12.50N 072-02.24E																																																															
DYNAMIC VISION	18-38.20N 071-00.92E NEW																																																															
DEEP SEA FORTUNE	19-40.14N 072-00.34E																																																															
DEEP SEA FOSSIL	19-14.25N 072-06.46E																																																															
FG MCCLINTOCK	18-58.31N 071-29.99E																																																															
GREAT DRILL CHAAYA	18-40.10N 072-13.59E																																																															
GREAT DRILL CHETNA	21-37.38N 068-26.55E																																																															
GREAT DRILL CHITRA	19-18.10N 072-02.43E																																																															
GREAT DRILL CHAARU	18-59.30N 072-16.58E																																																															
HARVEY H WARD	19-32.84N 071-22.80E																																																															
JINDAL STAR	19-15.26N 071-21.90E																																																															
JT ANGEL	22-36.89N 068-26.06E																																																															
MERCURY FOCUS	21-18.12N 072-31.64E																																																															
NOBLE ED HOLT	19-01.90N 071-32.57E																																																															
PARAGON L-786	19-29.88N 071-24.70E																																																															
PARAGON M 1161	18-54.75N 071-49.57E																																																															
RON TAPMEYAR	18-47.47N 071-59.99E																																																															
SAGAR GAURAV	19-07.88N 070-58.50E																																																															
SAGAR SHAKTI	19-39.70N 071-04.71E																																																															
SAGAR JYOTI	19-25.14N 071-15.83E																																																															
SAGAR KIRAN	18-44.50N 072-19.63E																																																															
SAGAR LAXMI	20-58.00N 071-33.00E																																																															
SAGAR PRAGATI	20-58.00N 071-33.00E																																																															
SAGAR UDAY	19-07.35N 072-06.45E																																																															
TRIDENT XII	19-25.23N 071-16.99E																																																															
VICTORY DRILLER	18-31.95N 072-15.23E																																																															
VIRTUE-I	18-58.44N 071-37.44E																																																															
VALIANT DRILLER	19-38.88N 071-21.03E																																																															
2. wide berth requested.																																																																
003. South Indian Ocean. Chart INT 70. RV Pourquoi Pas will undertake scientific cruise from 03 Jan – 03 Feb 16 between 25S – 28S and 70E – 73E.																																																																
2. Wide berth of 04 NM requested.																																																																
3. Cancel this MSG 031830 UTC Feb 16.																																																																
004. Navarea VIII Warnings in Force as on 01 Jan 16																																																																
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;"><u>2015</u> – 124 287 288 298 334 386 408 439 445 486 498 514 556 567 573 582 616 633 635 644 646 672 706 708 720 728 729 735 737 770 787 793 829 848 854 857 866 870 871 876 880 885 886 892 893 894 896 899 900 901 902</td> </tr> <tr> <td><u>2016</u> – 001 002 003</td> </tr> </table>	<u>2015</u> – 124 287 288 298 334 386 408 439 445 486 498 514 556 567 573 582 616 633 635 644 646 672 706 708 720 728 729 735 737 770 787 793 829 848 854 857 866 870 871 876 880 885 886 892 893 894 896 899 900 901 902	<u>2016</u> – 001 002 003																																																														
<u>2015</u> – 124 287 288 298 334 386 408 439 445 486 498 514 556 567 573 582 616 633 635 644 646 672 706 708 720 728 729 735 737 770 787 793 829 848 854 857 866 870 871 876 880 885 886 892 893 894 896 899 900 901 902																																																																
<u>2016</u> – 001 002 003																																																																
(a) NAVAREA VIII warnings less than 42 days promulgated via SafetyNet.																																																																
(b) Text of NAVAREA VIII warnings inforce including those which no longer broadcast available on www.hydrobharat.nic.in .																																																																
(c) Cancel this MSG 081000 UTC Jan 16.																																																																

005. India West Coast – Arabian Sea. Charts 21 22 INT 71. Missile firing scheduled from 071430 – 091430 UTC Jan 16 in area bounded by 16-38.00N 071-32.00E, 17-49.18N 069-38.10E, 16-00.40N 068-23.68E, 14-49.23N 070-16.53E. 2. Cancel this MSG 091530 UTC Jan 16.
006. India East Coast – off Gopalpur. Charts 31 352 353 391 INT 706. Air defence firing and BPTA flight scheduled daily from 07 to 09 and 11 to 15 Jan 16 from 0130 -0730 and 0830 - 1100 UTC. 2. Firing area bounded by (a) 19-14.60N 084-53.70E (b) 19-07.39N 085-35.94E (c) 18-33.61N 084-53.74E and arc of 41 NM radius joining point b and c. Safe flying Ht 6.1 KM. 3. BPTA flight area bounded by 19-17.67N 084-55.21E, 19-10.75N 084-47.38E, 18-56.03N 084-52.64E, 19-12.33N 085-14.92E. Safe flying Ht 1.5 KM. 4. No over flight and vessels permitted in danger area. 5. Cancel this MSG 151200 UTC Jan 16.
007. India East Coast – Bay of Bengal. Charts 31 32 355 391 3026 INT 706. Firing from Suryalanka scheduled on 07, 08, 14, 15, 21, 22, 28, 29 Jan 16 from 0130 - 1630 UTC. 2. Danger area contained within radials 100 and 210 deg extending up to 110 KM from 15-50.5N 080-29.5E. 3. Cancel this MSG on 291730 UTC Jan 16.
008. Cancel NAVAREA VIII 708 720 866 870 901/15 and this MSG. INTM 184 (T)/15, 176/15, 035(T)/16, 036(T)/16 & 038(T)/16 refers.
009. India West Coast – Arabian Sea. Charts 22 215 216 257 272 INT 71. Firing by Naval Ships scheduled in areas: (a) 08 Jan 16 from 0430 - 0830 UTC in area bounded by 13-56.20N 074-13.60E, 14-07.20N 074-25.07E, 14-07.20N 074-13.60E, 13-55.20N 074-25.07E. (b) 08 Jan 16 from 0830 – 1430 UTC in area bounded by 14-08N 073-15E, 14-40N 073-15E, 14-40N 072-42E, 14-08N 072-42E. (c) 09 Jan 16 from 0430 - 1830 UTC in area bounded by 15-40N 071-59E, 16-21N 072-30E, 17-16N 071-04E, 15-56N 070-13E 15-57N 071-32E. 2. No vessels permitted in danger area. 3. Cancel this MSG 091930 UTC Jan 16.
010. Cancel NAVAREA VIII 902. India West Coast. Gulf of Kachchh. Charts 21 203 INT 71. Salaya channel buoys Mithapur (22-25.10N 068-51.89E) relaid, VLCC (22-35.85N 069-17.45E) and Gurur (22-35.47N 068-57.92E) retrieved.
011. Cancel NAVAREA VIII 635 644/15 and this MSG. INTM 166 174/15 refers.
012. Cancel NAVAREA 009/16 India West Coast – Arabian Sea. Charts 22 215 216 257 272 INT 71. Firing by Naval Ships scheduled in areas: (a) 08 Jan 16 from 0430 – 0830 UTC in area bounded by 13-56.20N 074-13.60E, 14-07.20N 074-25.07E, 14-07.20N 074-13.60E, 13-55.20N 074-25.07E. (b) 08 Jan 16 from 0830 – 1430 UTC in area bounded by 14-08N 073-15E, 14-40N 073-15E, 14-40N 072-42E, 14-08N 072-42E. (c) 09 Jan 16 from 0430 – 1830 UTC in area bounded by 15-40N 071-59E, 16-21N 072-30E, 17-12N 070-59E, 15-39N 069-57E 15-57N 071-32E. 2. No vessels permitted in danger area. 3. Cancel this MSG 091930 UTC Jan 16.
013. India East Coast – Bay of Bengal. Charts 31 355 INT 71. RV Boa Thalassa progressing seismic survey till 01 Mar 16 in area 16-34.00N 082-17.60E, 16-41.60N 082-30.67E, 16-05.97N 082-30.40E, 16-06.06N 082-17.39E. 2. Wide berth of 2 NM around vessel requested. 3. Cancel this MSG 011830 UTC Mar 16.
014. India West Coast – Mumbai High. Chart 21 292 INT 71. MV Ganga Dolphin progressing seabed survey till 04 Feb 16 in area 19-42N 070-56E, 19-39N 071-34E, 19-02N 071-33E, 19-05N 070-56E. 2. Wide berth around vessel requested. 3. Cancel this MSG 041830 UTC Feb 16.
015. India West Coast – Arabian Sea. Chart 22 INT 71. RV MGS Sagar progressing survey till 15 Feb 16 in areas 12-20.88N 073-40.62E, 11-11.63N 073-42.18E, 11-11.10N 074-56.82E, 12-22.62N 074-17.17E AND 11-11.10N 074-54.97E, 08-59.40N 074-53.59E, 08-59.03N 075-47.70E, 10-22.20N 075-38.22E, 11-10.98N 074-57.50E (.) 2. Wide berth around vessel requested. 3. Cancel this MSG 151830 UTC Feb 16.
016. India West Coast – off Kerala. Charts 22 259 INT 71. RV Samudra Shaudhikama progressing survey till 20 Mar 16 in areas bounded by 09-17.52N 076-09.63E, 09-18.66N 076-13.62E, 08-59.51N 076-21.73E, 08-58.49N 076-18.24E AND 09-52.69N 075-44.74E, 09-57.83N 075-57.82E, 10-09.82N 075-52.69E, 10-05.50N 075-40.18E and 10-05.50N 075-40.18E, 10-09.82N 075-52.69E, 10-22.15N 075-48.06E, 10-18.13N 075-35.56E. 2. Wide berth around vessel requested. 3. Cancel this MSG 201830 UTC Mar 16.
017. Cancel NAVAREA 006/16. India East Coast – off Gopalpur. Charts 31 353 INT 706. Air defence firing scheduled daily from 11-15 Jan 16 from 0130 -0730 and 0830 - 1100 UTC in area bounded by (a) 19-14.60N 084-53.70E (b) 19-07.39N 085-35.94E (c) 18-33.61N 084-53.74E and arc of 41 NM radius joining point b and c. Safe flying Ht 6.1 KM. 2. No vessels permitted in danger area. 3. Cancel this MSG 151200 UTC Jan 16.

<p>018. India West Coast – off Trivandrum. Charts 22 222 INT 71. Rocket launch from thumba (08-31.98N 076-52.05E) scheduled from 122345-130045, 131245-131345, 132345-140045, 141245-141345, 142345-150045, 151245-151345, 200530-200730 UTC Jan 16.</p> <p>2. Danger Zone (a) Sector of radius 05 NM from Thumba between azimuth 190 and 300. (b) Sector of radii 45 and 75 NM from Thumba between azimuth 220 and 260.</p> <p>3. Cancel this MSG 200830 UTC Jan 16.</p>																																																				
<p>019. India East Coast – off Chennai. Charts 356 357 INT 71. INS Sandhayak progressing Hydrographic Survey till 14 Jan 16 in area bounded by 12-59.4 080-15.0E, 13-26.0N 080-32.8E, 13-26.0N 080-15.0E, 12-59.4N 080-32.6E.</p> <p>2. Wide berth of 2 NM around ship and survey boat requested.</p> <p>3. Cancel this MSG 141830 Jan 16.</p>																																																				
<p>020. Bay of Bengal – Myanmar. Charts 371 INT 71. Deepwater Millennium progressing drilling ops in position 19-52.04N 091-54.03E till 28 Feb 16.</p> <p>2. Unauthorized navigation and fishing prohibited within 4 KM from drilling area.</p> <p>3. Cancel this MSG 281830 UTC Feb 16.</p>																																																				
<p>021. Cancel NAVAREA VIII 010/16 and this MSG. Salaya channel buoys Gurur (22-35.47N 068-57.92E) and VLCC (22-36.20N 069-16.60E) relaid.</p>																																																				
<p>022. NAVAREA VIII Warnings in Force as on 08 Jan 16 2015 Series – 124 287 288 298 334 386 408 439 445 486 498 514 556 567 573 582 616 633 646 672 706 728 729 735 737 770 787 793 829 848 854 871 876 880 885 886 892 893 894 896 899 900 2016 Series – 002 003 005 007 012 013 014 015 016 017 018 019 020 (a) NAVAREA VIII warnings less than 42 days promulgated via SafetyNet. (b) Text of NAVAREA VIII warnings inforce including those which no longer broadcast available in www.hydrobharat.nic.in. (c) Cancel this MSG 151000 UTC Jan 16.</p>																																																				
<p>023. India West Coast – Gulf of Kachchh. Charts 21 203 INT 71. Salaya channel buoy Ranwara (22-39.2N 069-19.8) retrieved.</p>																																																				
<p>024. Bay of Bengal – off Great Basses. Charts INT 71. SLFV Nadeeka reported adrift 080530 UTC Jan 16 in vicinity of 06-30N 082-11E.</p> <p>2. Cancel this MSG 121000 UTC Jan 16.</p>																																																				
<p>025. India West Coast – Gulf of Kachchh. Charts 203 INT 71. Salaya channel buoy Narara (22-35.9N 069-36.2E) and Ranwara (22-39.2N 069-19.8) retrieved.</p> <p>2. Cancel NAVAREA VIII 023/16.</p>																																																				
<p>026. India West Coast – Tapti ODA. Charts 21 292 INT 71. Red conical buoy reported adrift 081015 UTC Jan 16 in vicinity of 20-45.1N 072-05.05E.</p> <p>2. Cancel this MSG 121000 UTC Jan 16.</p>																																																				
<p>027. Andaman Sea – Yangon River. Charts 41 INT 706. D Silva buoy shifted to 16-38.04N 096-15.34E.</p>																																																				
<p>028. India West Coast. Charts 21 22 293 INT 71. Rig list correct at 111000 UTC Jan 16.</p> <table> <tbody> <tr><td>ABAN ICE</td><td>18-55.01N 070-18.95E</td></tr> <tr><td>ABAN III</td><td>19-10.61N 070-57.71E</td></tr> <tr><td>ABAN IV</td><td>19-29.79N 071-19.83E</td></tr> <tr><td>CE THORNTON</td><td>19-40.10N 072-18.89E</td></tr> <tr><td>DISCOVERY-1</td><td>19-12.50N 072-02.24E</td></tr> <tr><td>DYNAMIC VISION</td><td>18-38.20N 071-00.92E</td></tr> <tr><td>DEEP SEA FORTUNE</td><td>19-40.14N 072-00.34E</td></tr> <tr><td>DEEP SEA FOSSIL</td><td>19-01.73N 071-25.58E NEW</td></tr> <tr><td>FG MCCLINTOCK</td><td>18-58.31N 071-29.99E</td></tr> <tr><td>GREAT DRILL CHAAYA</td><td>18-40.10N 072-13.59E</td></tr> <tr><td>GREAT DRILL CHETNA</td><td>21-37.38N 068-26.55E</td></tr> <tr><td>GREAT DRILL CHITRA</td><td>19-18.10N 072-02.43E</td></tr> <tr><td>GREAT DRILL CHAARU</td><td>18-59.30N 072-16.58E</td></tr> <tr><td>HARVEY H WARD</td><td>18-48.40N 072-20.00E NEW</td></tr> <tr><td>JINDAL STAR</td><td>19-15.26N 071-21.90E</td></tr> <tr><td>JT ANGEL</td><td>22-36.89N 068-26.06E</td></tr> <tr><td>MERCURY FOCUS</td><td>21-18.12N 072-31.64E</td></tr> <tr><td>NOBLE ED HOLT</td><td>19-01.90N 071-32.57E</td></tr> <tr><td>PARAGON L-786</td><td>19-29.88N 071-24.70E</td></tr> <tr><td>PARAGON M 1161</td><td>18-54.75N 071-49.57E</td></tr> <tr><td>RON TAPMEYAR</td><td>19-00.63N 072-11.95E NEW</td></tr> <tr><td>SAGAR GAURAV</td><td>19-07.88N 070-58.50E</td></tr> <tr><td>SAGAR SHAKTI</td><td>19-39.70N 071-04.71E</td></tr> <tr><td>SAGAR JYOTI</td><td>19-25.14N 071-15.83E</td></tr> <tr><td>SAGAR KIRAN</td><td>18-44.50N 072-19.63E</td></tr> <tr><td>SAGAR LAXMI</td><td>20-58.00N 071-33.00E</td></tr> </tbody> </table>	ABAN ICE	18-55.01N 070-18.95E	ABAN III	19-10.61N 070-57.71E	ABAN IV	19-29.79N 071-19.83E	CE THORNTON	19-40.10N 072-18.89E	DISCOVERY-1	19-12.50N 072-02.24E	DYNAMIC VISION	18-38.20N 071-00.92E	DEEP SEA FORTUNE	19-40.14N 072-00.34E	DEEP SEA FOSSIL	19-01.73N 071-25.58E NEW	FG MCCLINTOCK	18-58.31N 071-29.99E	GREAT DRILL CHAAYA	18-40.10N 072-13.59E	GREAT DRILL CHETNA	21-37.38N 068-26.55E	GREAT DRILL CHITRA	19-18.10N 072-02.43E	GREAT DRILL CHAARU	18-59.30N 072-16.58E	HARVEY H WARD	18-48.40N 072-20.00E NEW	JINDAL STAR	19-15.26N 071-21.90E	JT ANGEL	22-36.89N 068-26.06E	MERCURY FOCUS	21-18.12N 072-31.64E	NOBLE ED HOLT	19-01.90N 071-32.57E	PARAGON L-786	19-29.88N 071-24.70E	PARAGON M 1161	18-54.75N 071-49.57E	RON TAPMEYAR	19-00.63N 072-11.95E NEW	SAGAR GAURAV	19-07.88N 070-58.50E	SAGAR SHAKTI	19-39.70N 071-04.71E	SAGAR JYOTI	19-25.14N 071-15.83E	SAGAR KIRAN	18-44.50N 072-19.63E	SAGAR LAXMI	20-58.00N 071-33.00E
ABAN ICE	18-55.01N 070-18.95E																																																			
ABAN III	19-10.61N 070-57.71E																																																			
ABAN IV	19-29.79N 071-19.83E																																																			
CE THORNTON	19-40.10N 072-18.89E																																																			
DISCOVERY-1	19-12.50N 072-02.24E																																																			
DYNAMIC VISION	18-38.20N 071-00.92E																																																			
DEEP SEA FORTUNE	19-40.14N 072-00.34E																																																			
DEEP SEA FOSSIL	19-01.73N 071-25.58E NEW																																																			
FG MCCLINTOCK	18-58.31N 071-29.99E																																																			
GREAT DRILL CHAAYA	18-40.10N 072-13.59E																																																			
GREAT DRILL CHETNA	21-37.38N 068-26.55E																																																			
GREAT DRILL CHITRA	19-18.10N 072-02.43E																																																			
GREAT DRILL CHAARU	18-59.30N 072-16.58E																																																			
HARVEY H WARD	18-48.40N 072-20.00E NEW																																																			
JINDAL STAR	19-15.26N 071-21.90E																																																			
JT ANGEL	22-36.89N 068-26.06E																																																			
MERCURY FOCUS	21-18.12N 072-31.64E																																																			
NOBLE ED HOLT	19-01.90N 071-32.57E																																																			
PARAGON L-786	19-29.88N 071-24.70E																																																			
PARAGON M 1161	18-54.75N 071-49.57E																																																			
RON TAPMEYAR	19-00.63N 072-11.95E NEW																																																			
SAGAR GAURAV	19-07.88N 070-58.50E																																																			
SAGAR SHAKTI	19-39.70N 071-04.71E																																																			
SAGAR JYOTI	19-25.14N 071-15.83E																																																			
SAGAR KIRAN	18-44.50N 072-19.63E																																																			
SAGAR LAXMI	20-58.00N 071-33.00E																																																			

028.	Continued. SAGAR PRAGATI 20-58.00N 071-33.00E SAGAR UDAY 19-06.54N 071-22.35E NEW TRIDENT XII 19-25.23N 071-16.99E VICTORY DRILLER 18-31.95N 072-15.23E VIRTUE-I 18-58.44N 071-37.44E VALIANT DRILLER 19-38.88N 071-21.03E 2. Wide berth requested. 3. Cancel NAVAREA VIII 002/16.
029.	India West Coast – Mumbai High. Charts 21 255 INT 71. HLS 2000 progressing jacket installation from 12 -29 Jan 16 at 19-34.68N 071-23.16E. 2. Cancel NAVAREA VIII 885/15.
030.	Cancel NAVAREA VIII 793 880/15 and this MSG.
031.	Lakshadweep Sea – N of Minicoy. Charts 273 INT 71. Moored buoy AD 04 deployed by NIOT 08-30N 073-07E.
032.	Bay of Bengal – Andaman Sea. Charts 32 33 41 INT 71 INT 706. PSLV launch scheduled from 20 – 22 Jan 16 between 0200-0600 UTC from 13-43.2N 080-13.8E. 2. Danger zone as follows Zone - 1: CIRCLE OF 10 NM AROUND LAUNCHER Zone - 2: 13-30N 080-30E, 13-50N 080-35E, 13-35N 081-30E, 13-15N 081-25E Zone - 3: 13-00N 082-10E, 13-30N 082-15E, 12-55N 084-05E, 12-25N 084-00E Zone - 4: 12-20N 084-05E, 13-00N 084-15E, 12-45N 085-10E, 12-05N 085-00E Zone - 5: 11-10N 088-25E, 11-45N 088-35E, 11-25N 089-40E, 10-50N 089-30E Zone - 6: 09-05N 094-50E, 09-55N 095-05E, 09-35N 096-00E, 08-45N 095-45E Zone - 7: 19-00S 134-00W, 17-00S 134-00W, 13-00S 112-00W, 07-00S 092-00W, 09-00S 092-00W, 15-00S 112-00W 3. Cancel this MSG 220700 UTC Jan 16.
033.	Cancel NAVAREA VIII 025/16 and this MSG. India West Coast – Gulf of Kachchh. Charts 203 INT 71. Salaya channel buoy Narara (22-35.970N 069-36.017E) and Ranwara (22-39.233N 069-19.790) relaid.
034.	North Indian Ocean. Chart INT 71. SLFV Nipuni reported adrift 14 Jan 16 in vicinity of 02-42N 077-54E. 2. Cancel this MSG 171000 UTC Jan 16.
035.	India West Coast – Arabian Sea. Charts 22 293 INT 71. Firing by Naval ships scheduled on 19 Jan 16 from 1030-1230 UTC in area bounded by 14-08N 073-15E, 14-40N 073-15E, 14-40N 072-42E, 14-08N 072-42E. 2. Safe flying Ht 10 KM. 3. Cancel this MSG 190630 UTC Jan 16.
036.	Cancel NAVAREA VIII 892/16 and this MSG.
037.	<u>NAVAREA VIII Warnings in Force as on 15 Jan 16</u> 2015 – 124 287 288 298 334 386 408 439 445 486 498 514 556 567 573 582 616 633 646 672 706 728 729 735 737 770 787 829 848 854 871 876 886 893 894 896 899 900 2016 – 003 007 013 014 015 016 018 020 027 028 029 031 032 033 034 035 036 (a) NAVAREA VIII warnings less than 42 days promulgated via SafetyNet. (b) Text of NAVAREA VIII warnings inforce including those which no longer broadcast available in www.hydrobharat.nic.in . (c) Cancel this MSG 221000 UTC Jan 16.
038.	India East Coast – Bay of Bengal. Charts 391. Rig list correct at 151005 UTC Jan 16. MPW RIG 805 16-40.12N 082-25.68E SAGAR RATNA 16-22.73N 082-01.39E SAGAR BHUSAN 16-31.49N 082-23.61E NEW 2. Wide berth requested. 3. Cancel NAVAREA VIII 848.

SECTION – VI
CORRECTIONS TO SAILING DIRECTIONS (PILOTS)

NIL

SECTION – VIII
CORRECTION TO LIST OF RADIO SIGNALS

INP 31(1), 2014

(Last correction: Edition No. 16 dated 16 Aug 2015)

NIL

INP 31(2), 2014

(Last correction: Edition No. 22 dated 16 Nov 2015)

NIL

INP 31(5), 2011

(Last correction: Edition No. 16 dated 16 Aug 2015)

NIL

INP 31(6), 2012

(Last correction: Edition No. 21 dated 01 Nov 2015)

NIL

SECTION – IX **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.gov.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.

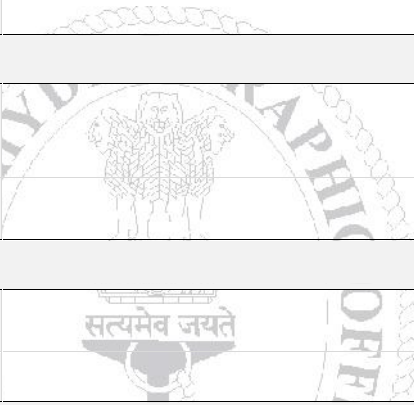
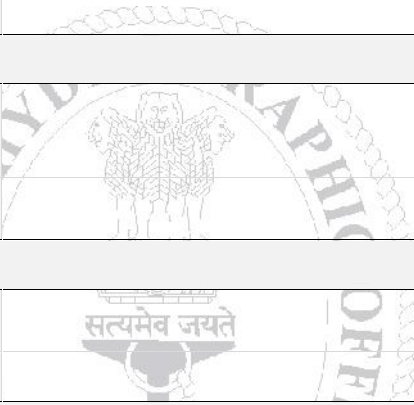
Please Note: - An acknowledgement will be sent by National Hydrographic Office for Hydrographic Notes received. When a Notice to Mariners is issued, the sender's ship or name is quoted as authority unless the information is also received from other authorities/foreign Notices to Mariners. Further communication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

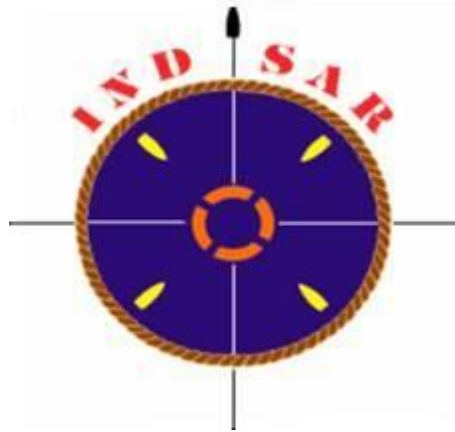


HYDROGRAPHIC NOTE				IH.102 (Revised 2012)	
For Forwarding information for Indian Charts, ENCs and Publications and reporting of ENC related issues					
Date		Ref. Number			
Name of the Ship or Sender					
Address					
Tel/FAX/E-mail address					
Observation Date		Time (UTC/IST)			
Object of Changes 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					

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

7. TUGS (Continued)	
Requesting authority	
Availability timing / Communication	
Hiring charges	
8. BERTHING AND WHARVES	
Type & Number of berths available	
Length	
Depth alongside	
Facilities available	
Procedure for requesting berth & hiring charges	
9. CARGO HANDLING	
Containers	
Lighters & Ro-Ro etc.	
10. CRANES	
Brief details of Max. lifting capacity, Height of boom at wharf level and Outreach	
Container handling facilities	
11. BRIDGES	
Vertical clearance	
12. REPAIRS	
Hull machinery and underwater	
Ship and Boat yards	
Docking or Slipway facilities (Size/ Dimensions of vessels handled)	
Hards and Ramps	
Divers / Diving assistance	
13. SERVICES	
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	

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



FOR 24 X 7 SAR ASSISTANCE IN INDIAN SRR

Email: indsar@vsnl.net

NATION WIDE SAR TELE: 1554 (LAND LINE)

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

AFTN: VABBYXYC