

INDIAN NOTICES TO MARINERS



EDITION NO. 03 DATED 01 FEB 2016

(CONTAINS NOTICES 048 TO 059)

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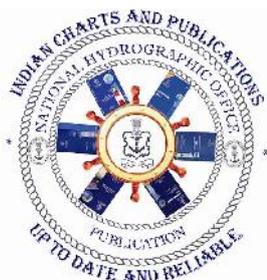
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CONTENTS

Section No.	Title
I	List of Charts Affected
II	Permanent Notices
III	Temporary and Preliminary Notices
IV	Marine Information
V	NAVAREA VIII Warnings in force
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)

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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**

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 Charts that are available for mariners in the market is as follows:-

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title, Limits & Description</i>	<i>Scale</i>	<i>Folio</i>	<i>Price</i>
2024	31-12-2015	TADRI ANCHORAGE LIMITS 14° 24'.90N; 74° 13'.18E. 14° 33'.75N; 74° 23'.80E.	30,000	3	Rs. 1870.00
		HONAVAR ANCHORAGE LIMITS 14° 13'.20N; 74° 18'.10E. 14° 19'.00N; 74° 27'.00E.	25,000		
2057	31-12-2015	PLANS ON THE GUJARAT COAST; MAHUVA BANDAR Limits 20° 59'.00N; 71° 45'.00E. 21° 05'.25N; 71° 51'.50E.	25,000	2	Rs. 1870.00
		SIMAR ANCHORAGE Limits 20° 45'.00N; 71° 08'.11E. 20° 47'.70N; 71° 12'.00E.	25,000		
408 (INT 7446)	31-12-2015	CHOWRA ISLAND TO NANCOWRY HARBOUR Limits 07° 48'.00N; 92° 44'.00E. 08° 40'.00N; 94° 04'.00E.	1,50,000	6	Rs. 1870.00

2. The new edition Indian Chart that is available for mariners in the market is as follows:-

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title, Limits & Description</i>	<i>Scale</i>	<i>Folio</i>	<i>Price</i>
2011	31-12-2015	APPROACHES TO JAIGARH & ANGRE PORTS Limits 17° 15'.00N; 73° 07'.00E. 17° 21'.60N; 73° 16'.00E.	25,000	3	Rs. 1870.00

3. The Indian Charts permanently withdrawn are as follows:-

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title</i>	<i>On Publication of New Chart/ Edition</i>	<i>Date of Publication</i>
2011	31-05-2014	APPROACHES TO JAIGARH & ANGRE PORTS	2011	31-12-2015
2024	30-09-2005	TADRI ANCHORAGE	2024	31-12-2015
		HONAVAR ANCHORAGE		
2057	31-10-2007	MAHUVA BANDAR	2057	31-12-2015
		SIMAR ANCHORAGE		
408	31-12-2002	CHOWRA ISLAND TO NANCOWRY HARBOUR	408 (INT 7446)	31-12-2015

4. The new edition Indian Electronic Navigational Chart that is available for mariners in the market is as follows:-

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN62034P	2034	HAZIRA PORT	28-01-2016

VI

5. 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>
IN62034P	2034	HAZIRA PORT	06-03-2013

6. The forthcoming Indian Charts are as follows:-

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
2101 (INT 7347)	APPROCHES TO HAZIRA	37,500	New Chart
2518	MANDA BAY	25,000	New Edition

Availability of ENCs

The complete folios of Official Indian ENCs are distributed worldwide through JEPPESEN MARINE (formerly C-MAP), UKHO and Norwegian Hydrographic Service. UKHO distributes Indian ENCs 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:

<p>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</p>	<p>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</p>
<p>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</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>

SECTION – I

The list of charts affected by the Notices 048 to 059 contained in this edition is as follows:

CHART NUMBER	FOLIO NO.	NOTICE NO.
21	2	054 (T), 055 (T)
22 (INT 752)	3	054 (T), 056 (T)
23	1	054 (T)
32 (INT 754)	5	056 (T)
41 (INT 757)	6	059 (T)
214	3	054 (T)
254 (INT 7331)	2	055 (T)
257 (INT 7343)	3	054 (T)
259 (INT 7356)	3	056 (T)
268 (INT 7353)	4	054 (T)
273	4	054 (T)
292 (INT 7021)	2	054 (T), 055 (T)
293 (INT 7022)	3	054 (T)
354 (INT 7408)	5	057 (T)
355 (INT 7405)	5	057 (T), 058 (T)
391	5	057 (T), 058 (T)
2020	3	054 (T)
2022 (INT 7345)	3	054 (T)
2034 (INT 7349)	2	048
2036 (INT 7352)	3	050
2047	4	054 (T)
2055	2	049
2074	3	051
2077	3	051
2101	2	048
2103	3	050
2519	1	053
4019	7	052
7703 (INT 703)	1	054 (T)
7705 (INT 705)	1	054 (T)

SECTION – II
PERMANENT NOTICES

***048 (03/16) INDIA – WEST COAST – Hazira Port – Channel – Buoys – Lights.**

Source: Hazira Port.

Chart 2101 [previous update 111/15]

Insert  *Fl.R.2s4M* 21° 05′.23N., 72° 36′.12E.

Amend buoy to; *Fl.G.2s4M* 21° 04′.88N., 72° 36′.26E.

Delete  *Fl.R.4s4M* 21° 05′.31N., 72° 36′.10E.

Chart 2034 (INT 7349) [previous update 045/15]

Insert  *Fl.R.2s4M* 21° 05′.27N., 72° 36′.08E.

Amend light to; *Fl.R.2s11m4M* 21° 05′.45N., 72° 36′.84E.

light to; *Fl.G.2s11m4M* 21° 05′.09N., 72° 37′.03E.

buoy to; *Fl.G.2s4M* 21° 04′.90N., 72° 36′.23E.

Delete  *Fl.R.4s4M* 21° 05′.32N., 72° 36′.07E.

***049 (03/16) INDIA – WEST COAST – Muldwarka Port – Port limit.**

Source: Muldwarka Port.

Chart 2055 [previous update 175/15]

Insert Port limit, pecked line, joining: (a) 20° 45′.55N., 70° 39′.74E. (Shore)

20° 45′.13N., 70° 39′.91E.

20° 44′.18N., 70° 39′.08E.

20° 43′.65N., 70° 38′.60E.

20° 43′.31N., 70° 39′.21E.

20° 43′.08N., 70° 39′.88E.

20° 43′.78N., 70° 40′.00E.

20° 44′.87N., 70° 40′.21E.

20° 45′.70N., 70° 39′.95E.

20° 45′.62N., 70° 39′.83E.

20° 45′.59N., 70° 39′.75E.

(a) above

Legend, “*Mul Dwarka Port Limit*”, centered on: 20° 44′.22N., 70° 40′.08E.

20° 44′.98N., 70° 39′.79E.

20° 43′.30N., 70° 39′.25E.

***050 (03/16) INDIA – WEST COAST – Dighi Port – Cautionary Note.**

Source: Dighi Port.

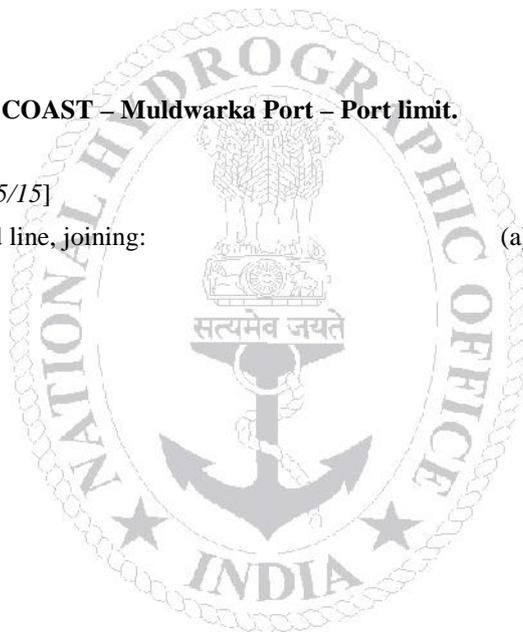
Chart 2036 (INT 7352) [previous update 040/16]

Insert legend, *Lesser Depths* (see Note), centered on : 18° 17′.64N., 72° 53′.58E.

18° 17′.77N., 72° 56′.00E.

18° 16′.73N., 72° 58′.26E.

accompanying note, “*Lesser Depths Reported*”, centered on: 18° 20′.65N., 72° 57′.60E.



050 (03/16) INDIA – WEST COAST – Dighi Port – Cautionary Note. Continued.*Chart 2103** [previous update 201/14]

Insert	legend, <i>Lesser Depths</i> (see Note), centered on :	18° 17′.64N., 72° 53′.58E.
		18° 17′.77N., 72° 56′.00E.
		18° 16′.73N., 72° 58′.26E.
	accompanying note, “Lesser Depths Reported”, centered on:	18° 19′.10N., 72° 58′.60E.

***051 (03/16) INDIA – WEST COAST – Pawas Bay – Ranpar Port – Leading Marks – Turning Circle.**

Source: Ratnagiri Port.

Chart 2077 [previous update 178/15]

Insert	 (12)	(a)	16° 53′.92N., 73° 17′.83E.
	 (10)		16° 53′.52N., 73° 17′.20E.
	pecked line, joining:	(a)	above
		(b)	16° 53′.30N., 73° 16′.84E. and 16° 53′.33N., 73° 16′.71E. 16° 53′.00N., 73° 16′.19E. and 16° 53′.17N., 73° 16′.82E. 16° 52′.85N., 73° 16′.30E.
	firm lime, joining:	(b)	above
	limit of turning circle, pecked line, radius 170M centered on:		16° 52′.93N., 73° 16′.24E.
	legend, “Turning Circle”, centered on:		16° 53′.25N., 73° 16′.76E.
	legend, “2 Poles ≠ 057°-237°”, centered on:		16° 53′.25N., 73° 16′.76E.
Delete	limit of turning circle, pecked line, centered on:		16° 53′.07N., 73° 16′.45E.
	legend, “Turning Circle”, centered on:		16° 53′.25N., 73° 16′.85E.
	pecked line, joining:		16° 53′.25N., 73° 16′.85E.
			16° 53′.15N., 73° 16′.23E.
			16° 53′.33N., 73° 16′.79E.
			and
			16° 52′.97N., 73° 16′.32E.
			16° 53′.15N., 73° 16′.86E.
			and
		(c)	16° 53′.05N., 73° 16′.26E.
		(d)	16° 53′.22N., 73° 16′.55E.
	legend, “251°-071°”, along:	(c)-(d)	

Chart 2074 [previous update 178/15]

Insert	 (12)	(a)	16° 53′.915N., 73° 17′.826E.
	 (10)		16° 53′.524N., 73° 17′.200E.
	pecked line, joining:	(a)	above
		(b)	16° 53′.300N., 73° 16′.842E. and 16° 53′.327N., 73° 16′.709E. 16° 53′.004N., 73° 16′.192E. and 16° 53′.173N., 73° 16′.815E. 16° 52′.850N., 73° 16′.298E.
	firm lime, joining:	(b)	above
	limit of turning circle, pecked line, radius 170M centered on:		16° 52′.930N., 73° 16′.240E.
	legend, “Turning Circle”, centered on:		16° 53′.250N., 73° 16′.762E.
			16° 53′.250N., 73° 16′.762E.

***051 (03/16) INDIA – WEST COAST – Pawas Bay – Ranpar Port – Leading Marks – Turning Circle. Continued.**

	legend, “2 Poles \neq 057°-237°”, centered on:	16° 53′.070N., 73° 16′.454E.
Delete	limit of turning circle, pecked line, centered on:	16° 53′.250N., 73° 16′.850E.
	legend, “Turning Circle”, centered on:	16° 53′.250N., 73° 16′.850E.
	pecked line, joining:	16° 53′.150N., 73° 16′.230E.
		16° 53′.330N., 73° 16′.790E.
		and
		16° 52′.970N., 73° 16′.315E.
		16° 53′.150N., 73° 16′.860E.
		and
		(c) 16° 53′.052N., 73° 16′.262E.
		(d) 16° 53′.218N., 73° 16′.552E.
	legend, “251°-071°”, along:	(c)-(d)

***052(03/16) ANDAMAN SEA – BURMA – Gulf of Martaban – Rangoon River & Approaches – Buoy.**

Source: Myanmar Hydrographic Centre.

Chart 4019 [previous update 33/16]

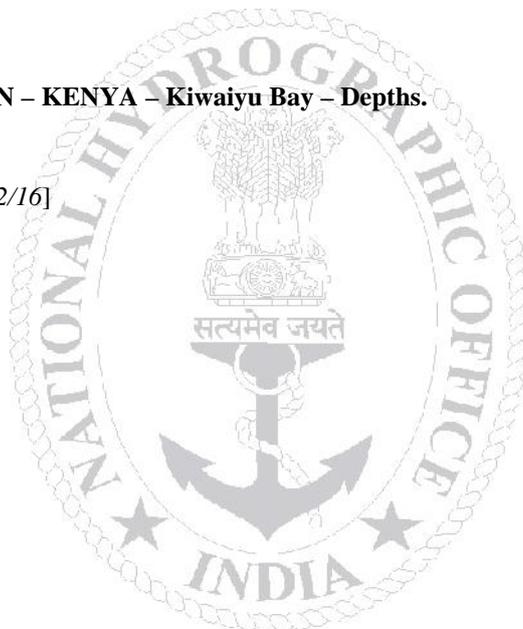
Insert		16° 37′.96N., 96° 15′.52E.
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***053 (03/16) INDIAN OCEAN – KENYA – Kiwaiyu Bay – Depths.**

Source: NHO.

Chart 2519 [previous update 032/16]

Insert	depth, 16 ₇	02° 06′.12S., 41° 14′.53E.
	depth, 17	02° 06′.26S., 41° 14′.20E.
	depth, 14 ₂	02° 06′.39S., 41° 13′.83E.
	depth, 14 ₈	02° 06′.66S., 41° 14′.06E.



SECTION – III
TEMPORARY AND PRELIMINARY NOTICES

***054 (T) (03/16) INDIA – WEST COAST – Arabian Sea – Data Buoys. Tsunami Buoy.**

Source: NIOT - Chennai.

1. Following yellow coloured data buoys characteristics FL(4)15s4M, 3m diameter and 3.5m height mast with radar reflector & mast carrying sensor laid in following positions:

Buoy No.	Position	Charts affected
*AD02/ MB	15° 00′.00N., 69° 00′.00E.	7705 (INT 705)
AD04/ MB	08° 00′.00N., 73° 00′.00E.	22 (INT 752), 23, 273
*AD06/OB	18° 30′.00N., 67° 30′.00E.	21, 292 (INT 7021)
*AD07/OB	15° 00′.00N., 69° 00′.00E.	7705 (INT 705)
*AD08/ OB	12° 00′.00N., 68° 30′.00E.	7703 (INT 703), 7705 (INT 705)
*AD09/ OB	08° 00′.00N., 73° 00′.00E.	22 (INT 752), 23, 273
*AD10/ OB	10° 19′.00N., 72° 30′.00E.	22 (INT 752), 273, 268 (INT 7353)
CB02/ CB	10° 52′.00N., 72° 12′.00E.	22 (INT 752), 268 (INT 7353), 273, 2047
CB04/ CB	15° 23′.00N., 73° 45′.00E.	22 (INT 752), 293 (INT 7022), 257 (INT 7343), 214, 2022 (INT 7345), 2020
CALVAL/ MB	10° 36′.00N., 72° 17′.00E.	22 (INT 752), 273, 268 (INT 7353)
TB12/ TB	20° 38′.00N., 67° 05′.00E.	21, 292 (INT 7021)
STB02/ TB	20° 48′.00N., 65° 25′.00E.	21

2. All vessels operating in vicinity are to maintain a clearance of 01 NM off the moored buoys.

3. All positions are in WGS 84 datum.

4. * Indicates new/revised entry.

Former INM 201(T)/15 is cancelled.

***055(T) (03/16) INDIA – WEST COAST – Approaches to Gulf of Khambhat – Survey Operation.**

Source: NHO.

1. Survey vessels Focus Surveyor and Focus Explorer will carry out seismic survey in below mentioned area till **26 Jun 16**:

Sl. No.	Position	Sl. No.	Position
(i)	21° 00′.00N., 72° 13′.33E.	(xvi)	21° 20′.54N., 72° 38′.27E.
(ii)	21° 01′.97N., 72° 13′.29E.	(xvii)	21° 21′.20N., 72° 38′.05E.
(iii)	21° 05′.32N., 72° 13′.22E.	(xviii)	21° 24′.61N., 72° 37′.93E.
(iv)	21° 08′.28N., 72° 17′.28E.	(xix)	21° 26′.00N., 72° 37′.90E.
(v)	21° 06′.01N., 72° 20′.12E.	(xx)	21° 26′.00N., 72° 31′.58E.
(vi)	21° 04′.04N., 72° 20′.15E.	(xxi)	21° 26′.00N., 72° 30′.00E.
(vii)	21° 05′.10N., 72° 24′.00E.	(xxii)	21° 26′.50N., 72° 29′.51E.
(viii)	21° 05′.10N., 72° 28′.00E.	(xxiii)	21° 37′.85N., 72° 18′.35E.
(ix)	21° 06′.76N., 72° 28′.20E.	(xxiv)	21° 30′.00N., 72° 16′.35E.
(x)	21° 09′.67N., 72° 33′.77E.	(xxv)	21° 15′.40N., 72° 05′.21E.
(xi)	21° 14′.19N., 72° 37′.85E.	(xxvi)	21° 11′.50N., 72° 07′.50E.
(xii)	21° 16′.00N., 72° 37′.85E.	(xxvii)	21° 00′.00N., 71° 45′.00E.
(xiii)	21° 16′.00N., 72° 39′.55E.	(xxviii)	21° 00′.00N., 72° 02′.00E.
(xiv)	21° 16′.39N., 72° 39′.61E.	(xxix)	21° 00′.00N., 72° 06′.25E.
(xv)	21° 19′.05N., 72° 38′.78E.		

2. The vessels will deploy 04 sea bottom seismic cables of length up to 16 KMS with a separation of 400 MTR with direction 340°. All cables are marked by buoy.

3. Vessels are requested to give a wide berth to the vessels and navigate with caution.

Charts affected – 21 – 292 (INT 7021) – 254 (INT 7331).

***056(T) (03/16) INDIA – WEST COAST – Badagara to Kochi (Cochin) – Survey Operation.**

Source: HQODAG.

1. Research vessels Samudra Shaudhikama (call sign; VWSK) will carry out 3D seismic survey in below mentioned areas till **20 Mar 16**:

Area 1		Area 2	
Sl. No.	Position	Sl. No.	Position
(i)	09° 17′.52N., 76° 09′.63E.	(i)	09° 52′.69N., 75° 44′.74E.
(ii)	09° 18′.66N., 76° 13′.62E.	(ii)	09° 57′.83N., 75° 57′.82E.
(iii)	08° 59′.51N., 76° 21′.73E.	(iii)	10° 09′.82N., 75° 52′.69E.
(iv)	08° 58′.49N., 76° 18′.24E.	(iv)	10° 05′.50N., 75° 40′.18E.
Area 3			
(i)	10° 05′.50N., 75° 40′.18E.		
(ii)	10° 09′.82N., 75° 52′.69E.		
(iii)	10° 22′.15N., 75° 48′.06E.		
(iv)	10° 18′.13N., 75° 35′.56E.		

2. The vessels will be towing shallow seismic sparker survey equipment at a distance of 25 Mtr and marine magnetometer fish at a distance of 100 Mtr from the stern of the vessel.

3. Vessels are requested to give a wide berth to the vessels and navigate with caution.

Charts affected – 22 (INT 752) – 32 (INT 754) – 259 (INT 7356).

***057(T) (03/16) INDIA – EAST COAST – Sacramento Shoal to Kalingapatnam – Survey Operation.**

Source: HQODAG.

1. Research vessel Boa Thalassa (call sign; ZCXX6) will carry out 3D seismic survey in below mentioned area till **01 Mar 16**:

Sl. No.	Point	Position
(a)	Point A	16° 34′.00N., 82° 17′.60E.
(b)	Point B	16° 41′.60N., 82° 30′.67E.
(c)	Point C	16° 05′.97N., 82° 30′.40E.
(d)	Point D	16° 06′.06N., 82° 17′.39E.

2. The vessel will deploy seabed nodes at a distance of 01 KM apart and towing one deep towed source up to a distance of 02 KM behind the vessel.

3. Vessels are requested to give a wide berth of 02 NM around the vessel and navigate with caution.

Charts affected – 391 – 354 (INT 7408) – 355 (INT 7405).

***058(T) (03/16) INDIA – EAST COAST – Ramaypatnam to Sacramento Shoal – Survey Operation.**

Source: HQODAG.

1. Research vessels Brahmaputra, Dolphin, Kohinoor 1 and Ganesh will carry out 3D seismic survey in below mentioned area till **31 Jul 16**:

Sl. No.	Position	Sl. No.	Position
(i)	16° 20′.70N., 81° 39′.08E.	(viii)	16° 19′.97N., 82° 06′.79E.
(ii)	16° 19′.80N., 81° 43′.67E.	(ix)	16° 16′.62N., 82° 04′.49E.
(iii)	16° 22′.79N., 81° 50′.41E.	(x)	16° 16′.06N., 81° 06′.76E.
(iv)	16° 24′.33N., 81° 58′.14E.	(xi)	16° 14′.31N., 81° 48′.46E.
(v)	16° 29′.27N., 82° 06′.86E.	(xii)	16° 14′.92N., 81° 48′.87E.
(vi)	16° 26′.13N., 82° 04′.33E.	(xiii)	16° 15′.21N., 81° 47′.87E.
(vii)	16° 21′.73N., 82° 06′.78E.	(xiv)	16° 15′.23N., 81° 39′.06E.

2. The vessels will deploy 04 sea bottom seismic cables of length up to 16 KMS with a separation of 400 MTR with direction 340°. All cables are marked by buoy.

3. Vessels are requested to give a wide berth to the vessels and navigate with caution.

Charts affected – 391 – 355 (INT 7405).

***059(T) (03/16) INDIA – ANDAMAN SEA– Drilling Operation.**

Source: Myanmar Hydrographic Office.

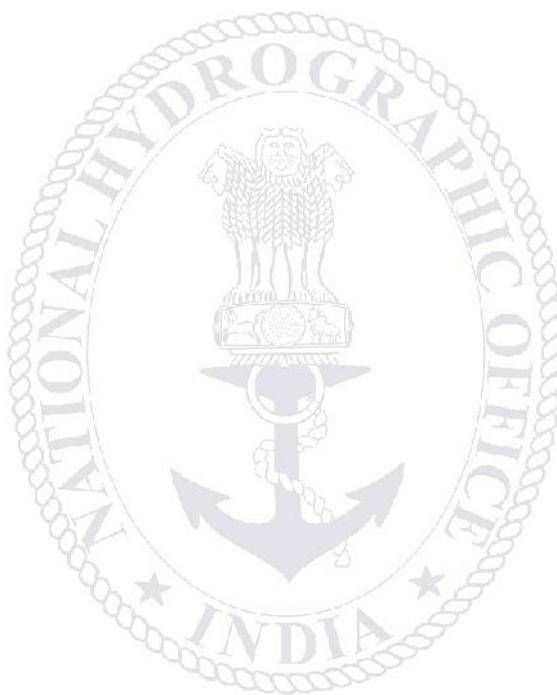
1. Drilling operation will be carried out by West Vencedor (call sign; 3FLT6) in below mentioned co-ordinate till **30 Jul 16**:

Sl. No.	Point	Position
(a)	Yetagun A Platform	13° 02′.96N., 96° 52′.12E.

2. During the drilling period unauthorized navigation, anchoring, fishing and trawling are prohibited within 4 KM from above mentioned area.

3. Mariners are advised to navigate with caution.

Charts affected – 41 (INT 757).



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).

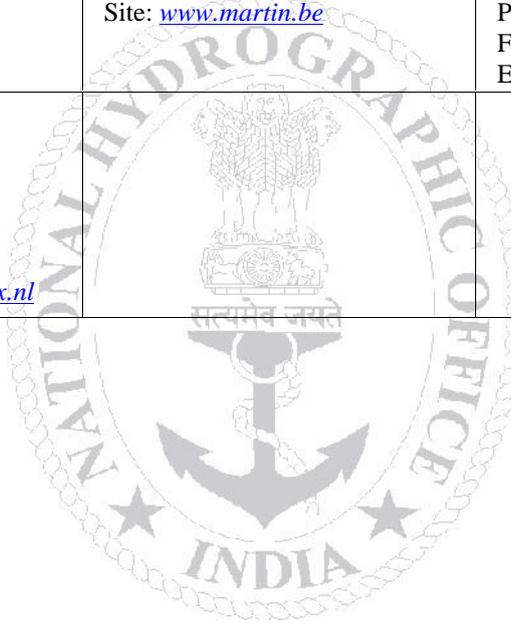
The unauthorized holders of Thuraya/ Iridium and other such Satellite phones can be prosecuted under Sec 6 of Indian Wireless Act and Sec 20 of Indian Telegraph Act.

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, Seetammappeta, 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 31 Jan 16:

2015 SERIES – 124 287 288 298 334 386 439 445 486 498 567 582 616 633 646 672 706 728 729 735 770 787 876 899 900
2016 SERIES – 003 013 014 015 016 020 027 031 039 044 054 058 059 062 063 064 065 068 069 070 071 072 073 074 075 076

3. NAVAREA VIII Warnings issued during the period from 16 Jan to 31 Jan 16 (both dates inclusive) are as tabulated below:–

040. Indian Ocean – NE of Rodrigues I. Chart INT 71. White semi submerged yacht Young Epilepsy sighted on 16 Jan in vicinity of 15-49.8 S 066-15.3E (.) 2. Cancel this MSG 191000 UTC Jan 16.																																
041. India West Coast – Okha. Charts 21 2068 INT 71. Firing practice by Naval Coast Battery scheduled on 21 Jan 16 from 0530-0730 UTC. 2. Danger area extending seaward up to 12 NM within bearing 300 to 020 from 22-28.04N 069-04.99E. Safe flying Ht 13 KM. 3. Cancel this MSG 210830 UTC Jan 16.																																
042. India West Coast – Kochi. Charts 22 260 INT 71. Firing by Naval Coast Battery scheduled on <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><u>Date</u></th> <th style="text-align: left;"><u>Time (UTC)</u></th> </tr> </thead> <tbody> <tr> <td>19 Jan 16</td> <td>0900-1200 and 1230-1430</td> </tr> <tr> <td>20 Jan</td> <td>0330-0730</td> </tr> <tr> <td>22 Jan</td> <td>0900-1200</td> </tr> <tr> <td>29 Jan</td> <td>0900-1200</td> </tr> </tbody> </table> 2. Firing area bounded by 09-57.5N 075-59.5E, 09-57.7N 076-14.2E, 09-44.0N 076-17.5E, 09-42.5N 076-09.5E. Safe flying Ht 10 KM. 3. Cancel NAVAREA VIII 896/15 and this MSG 291300 UTC Jan 16.	<u>Date</u>	<u>Time (UTC)</u>	19 Jan 16	0900-1200 and 1230-1430	20 Jan	0330-0730	22 Jan	0900-1200	29 Jan	0900-1200																						
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20 Jan	0330-0730																															
22 Jan	0900-1200																															
29 Jan	0900-1200																															
043. India West Coast – Arabian Sea. Charts 22 293 INT 71. Firing by Naval Ships scheduled on 19 Jan 16 from 0130-0530 UTC in area bounded by 14-08N 073-15E, 14-40N 073-15E, 14-40N 072-42E, 14-08N 072-42E. 2. Safe flying height 10 KM. 3. Cancel this MSG 190630 UTC Jan 16.																																
044. India West Coast – MUMBAI ODA. Charts 255 INT 71. MV Albatross-19 progressing geophysical survey till 18 Feb 16 in areas bounded by (a) 19-40.7N 071-17.7E, 19-39.9N 071-21.8E, 19-15.8N 071-26.4E, 19-19.7N 071-10.6E (b) 19-13.3N 072-05E, 19-13.4N 072-07.4E, 19-04.8N 072-09.1E, 19-04.7N 072-05.6E (c) 18-39.9N 072-12.4E, 18-39.9N 072-22E, 18-32.5N 072-12.4E. 2. Wide berth around vessel requested.																																
045. Lakshadweep Sea – Minicoy. Charts 2006 INT 71. DGPS (08-16N 073-02E) off on 20 Jan from 0230-1230 UTC. 2. Cancel this MSG 201330 UTC Jan 16.																																
046. Cancel NAVAREA VIII 032/16 and this MSG.																																
047. Cancel NAVAREA VIII 893/15 and this MSG. INTM 040/16 refers.																																
048. India West Coast. Charts 21 293 INT 71. Rig list correct at 211000 UTC Jan 16 <table style="width: 100%; border: none;"> <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</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</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> </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	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	JINDAL STAR	19-15.26N 071-21.90E	JT ANGEL	22-36.89N 068-26.06E
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048. Continued.	
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	18-47.46N 071-59.99E NEW
SAGAR GAURAV	20-20.45N 071-15.40E NEW
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	19-06.54N 071-22.35E
TRIDENT XII	19-25.23N 071-16.99E
VICTORY DRILLER	18-31.95N 072-15.23E
VIRTUE-I	19-26.06N 071-24.26E NEW
VALIANT DRILLER	19-38.88N 071-21.03E
2.	Wide berth requested.
3.	Cancel NAVAREA VIII 028/16.
049. NE Indian Ocean.	Chart INT 71. Moored buoy Rama adrift 210340 UTC Jan 16 in vicinity of 01-37.9S 089-19.4E.
2.	Cancel this MSG 241000 UTC Jan 16.
050. India West Coast – Gulf of Khambhat.	Charts 207 INT 71. Narmada channel buoys no. 02 (20-36.5N 071-58.4E), 03 (drifted position 22-45.1N 072-04.8E), 04 (20-44.5N 072-02.5E), 07(20-56.4N 072-06.9E), 09 (21-02.5N 072-09.2E) unlit and buoy no. 06 (20-52.8N 072-06E) retrieved.
2.	Cancel NAVAREA 408 514 737/15.
051. India East Coast – Narasapur.	Charts 355 INT 71. Antervadi (16-19 N 081-44 E) RACON and DGPS inoperative.
2.	Cancel NAVAREA 556 573.
052. Cancel NAVAREA viii 894/15 and this MSG.	
053. NAVAREA VIII Warnings in Force as on 22 Jan 16	
2015	– 124 287 288 298 334 386 439 445 486 498 567 582 616 633 646 672 706 728 729
	735 770 787 829 854 876 886 899 900
2016	– 003 007 013 014 015 016 020 027 029 031 038 039 042 044 048 049 050 051
	052
(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.gov.in .
(c)	Cancel this MSG 291000 UTC Jan 16.
054. India West Coast – Gulf of Khambhat to Mumbai ODA.	Charts 292 INT 71. SV Fugro mapper progressing survey till 25 Feb 16 in block of 1 KM around 21-03N 072-25E, 18-42N 072-20E, 19-19N 071-20E, 20-32N 072-09E, 18-39N 072-13E, 19-10N 070-57E, 18-09N 072-07E, 18-35N 072-17E, 19-35N 071-19E, 18-55N 072-18E (.)
2.	Wide berth around vessel requested.
055. Andaman Sea – off South Andaman.	Charts 473 INT 71. Firing practice scheduled daily from 28 – 29 Jan 16 from 0430-0930 UTC in danger area bounded by 11-50N 093-40E, 11-50N 094-20E, 12-00N 093-40E, 12-00N 094-20E. Safe flying Ht 5 KM.
2.	Cancel this MSG 291030 UTC Jan 16.
056. India East Coast – off Gopalpur.	Charts 353 INT 706. Army air firing scheduled from 280130-280730, 280830 - 281630, 290130 - 290730, 300830-291630, 300130 - 300730, 300830 - 301200, 310130-310730, 310830 - 311200 UTC Jan 16 in danger 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 6100 M.
2.	Cancel this MSG 311300 UTC Jan 16.
057. Bay of Bengal – off Trincomalee.	Chart INT 71. SLFV Minuli Duwa reported adrift in vicinity of 09-14N 081-42E.
2.	Cancel this MSG 281000 UTC Jan 16.
058. India West Coast – Narmada Channel in Gulf of Khambhat.	Charts 207 INT 71. Buoy no. 2 (20-36.5N 071-58.4E), 4 (20-44.5N 072-02.5E), 7(20-56.4N 072-06.9E), 9 (21-02.5N 072-09.2E) unlit. Buoy no. 3 (20-45.2N 072-04.1E), 5 (20-47.1N 072-07.2E) retrieved. Buoy 6 relaid 20-52.70N 072-06.36E.
2.	Cancel NAVAREA 050/16.
059. Andaman Sea – Yangon River Approaches.	Charts 410 INT 71. MV Dong Thein Phu silver sunk in position 16-11.65N 096-19.49E. 1 NM clearance from wreck advised.

060.	India East Coast – Chennai. Charts 3004 INT 706. Firing from Naval Coast Battery scheduled on 29 Jan 16 from 0530 - 0730 UTC.
2.	Danger sector extending up to 11 NM between bearing 045 and 075 from 13-07.02N 080-18.01E. Safe flying Ht 12.8 KM.
3.	Cancel this MSG 290830 UTC Jan 16.
061.	India West Coast. Charts 292 INT 71. Rig list correct at 271000 UTC Jan 16.
	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
	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 19-19.37N 072-02.07E NEW
	GREAT DRILL CHAARU 18-59.30N 072-16.58E
	HARVEY H WARD 18-48.40N 072-20.00E
	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 18-47.46N 071-59.99E
	SAGAR GAURAV 20-20.45N 071-15.40E
	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 19-06.54N 071-22.35E
	TRIDENT XII 19-25.23N 071-16.99E
	VICTORY DRILLER 18-31.95N 072-15.23E
	VIRTUE-I 19-26.06N 071-24.26E
	VALIANT DRILLER 19-38.88N 071-21.03E
2.	Wide berth requested.
3.	Cancel NAVAREA VIII 048.
062.	India East Coast – Bay of Bengal. Charts 391 INT 706. Rig list correct at 271004 UTC Jan 16.
	ABAN II 16-23.24N 082-01.39E NEW
	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
2.	Wide berth requested.
3.	Cancel NAVAREA VIII 038.
063.	Bay of Bengal – off Myanmar. Charts 371 INT 706. Ramform Sovereign progressing seismic survey in area bounded by 19-07N 092-04E, 18-05N 092-04E, 18-05N 094-00E, 19-07N 093-11E. Vessel towing 12 cables 8.1 KM long .
2.	Wide berth requested.
064.	South Indian Ocean – Tanzania. Chart INT 70 BA 663. Stbd buoy in position 05-03.47S 039-13.07E missing.
2.	Caution advised.
065.	North Andaman Sea – Charts 41 INT 706. SV Polarcus Asima progressing seismic survey till 31 Mar 16 in area bounded by 13-48.64N 095-45.93E, 13-48.75N 095-51.06E, 13-24.51N 095-51.07E, 13-24.46N 095-20.70E.
2.	Wide berth requested.
066.	Indian Ocean – SW of Reunion. Chart INT 700. Yellow buoy adrift 21-38S 055-07E.
2.	Cancel this MSG 291000 UTC Jan 16.
067.	Cancel NAVAREA VIII 829/15 051/16 and this MSG.
068.	India West Coast – Kochi Port. Charts 2004 INT 71. Wooden yacht Golden Cat of 34 x 16 Ft sunk in position 09-55.4N 076-13.3E. All crew rescued.
069.	India West Coast – off Okha to Navibandar. Charts 204 205 252 INT 71. Firing from Kathiawar range scheduled daily till 29 Feb 16 from 0230-0930 UTC in danger area bounded by 22-12.00N 068-36.33E, 21-15.50N 069-04.00E, 21-09.00N 069-40.00E, 21-15.50N 069-42.50E, 22-05.75N 068-49.00E.
2.	Cancel NAVAREA VIII 854/15 and this MSG 291030 UTC Feb 16.

070.	India West Coast – off Porbandar. Charts 292 INT 71. RV Samudra Ratnakar Progressing survey till 26 Feb 16 in area bounded by 20-46.01N 067-59.31E, 21-33.82N 068-33.36E, 21-36.80N 069-14.28E, 20-43.69N 069-09.88E.
2.	Wide berth requested.
071.	India West Coast – Kochi. Charts 220 INT 71. Firing by Naval Coast Battery scheduled on
	Date Time (UTC)
	02 Feb 16 0900-1200
	05 Feb 0900-1200
	09 Feb 0900-1200 and 1230-1430
	12 Feb 0900-1200
	16 Feb 0900-1200
	19 Feb 0900-1200
	23 Feb 0900-1200 and 1230-1430
	26 Feb 0900-1200
2.	Danger area bounded by 09-57.5N 075-59.5E, 09-57.7N 076-14.2E, 09-44.0N 076-17.5E, 09-42.5N 076-09.5E. Safe flying Ht 10 KM.
072.	India West Coast – Mumbai High. Charts 255 INT 71. HLS 2000 will progress platform installation till 02 Feb in 19-34.68N 071-23.15E.
2.	Cancel NAVAREA VIII 029/16.
073.	India East Coast – off Gopalpur. Charts 353 INT 706. Army air firing scheduled from 02 - 05 and 07 - 11 Feb 16 daily from 0130 – 0730 and 0830 - 1200 UTC in danger area bounded by (a) 19-14.6N 084-53.7E (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.	Cancel this MSG 111300 UTC Feb 16.
074.	India West Coast. Charts 292 INT 71. Rig list correct at 291000 UTC Jan 16.
	ABAN ICE 18-55.01N 070-18.95E
	ABAN III 19-29.98N 071-16.28E NEW
	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
	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 19-19.37N 072-02.07E
	GREAT DRILL CHAARU 18-59.30N 072-16.58E
	HARVEY H WARD 18-48.40N 072-20.00E
	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 18-47.46N 071-59.99E
	SAGAR GAURAV 20-20.45N 071-15.40E
	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 19-06.54N 071-22.35E
	TRIDENT XII 19-25.23N 071-16.99E
	VICTORY DRILLER 18-31.95N 072-15.23E
	VIRTUE-I 19-26.06N 071-24.26E
	VALIANT DRILLER 19-38.88N 071-21.03E
2.	Wide berth requested.
3.	Cancel NAVAREA VIII 061.
075.	<u>NAVAREA VIII Warnings in Force as on 29 Jan 16</u>
	2015 – 124 287 288 298 334 386 439 445 486 498 567 582 616 633 646 672 706 728 729 735 770 787 876 899 900
	2016 – 003 013 014 015 016 020 027 031 039 044 054 058 059 062 063 064 065 068 069 070 071 072 073 074
(a)	NAVAREA VIII warnings less than 42 days promulgated via SafetyNet.
(b)	Text of NAVAREA VIII warnings in force including those which no longer broadcast available in www.hydrobharat.nic.in .
(c)	Cancel this MSG 051000 UTC Feb 16.

076. India East Coast – off Visakhapatnam. Charts 31 32 308 354 3002 3012 INT 706. International Fleet Review 2016 is scheduled from 30 Jan - 08 Feb 16. Indian and foreign Naval ships are anchored/ manoeuvring at high speed in area bounded by 17-41.30N 083-17.20E, 17-42.13N 083-18.40E, 17-43.75N 083-20.75E, 17-44.78N 083-20.95E, 17-40.80N 083-23.20E, 17-48.40N 083-24.00E, 17-39.60N 083-29.80E, 17-34.50N 083-21.60E.

2. Shipping to exercise caution and fishing vessels to keep clear off the area.
3. Cancel this MSG 091000 UTC Feb 16.

SECTION – VI
CORRECTIONS TO SAILING DIRECTIONS (PILOTS)

NIL

SECTION – VII
CORRECTIONS TO LIST OF LIGHTS

No	Name & Location	Position (Lat-Long)	Characteristics	Ht. mts	Range miles	Structure & Height (mts)	Remarks
D7082.4	- - Yachting marina.	20 56.32 S 55 17.24 E	FI G 2.5s	6	1	Green and white post 2	*
D7082.5	- - -	20 56.34 S 55 17.25 E	FI R 2.5s	6	1	Red and white post 2	*
D7363.467	- - S Breakwater. End	24 31.99 N 54 21.72 E	FI Y 5s	..	..	Beacon	*
D7363.6	- - SW Corner	24 31.05 N 54 21.61 E	FI Y 5s	7	..	Beacon	*
D7363.705	- SW corner. Breakwater. S End	24 30.98 N 54 21.60 E	FI Y 5s	..	..	Beacon	*
D7363.708	- - Jetty. S End	24 30.94 N 54 21.66 E	FI Y 5s	..	..	Beacon	*
D7363.71	Deleted; remove from list						
D7363.72	Deleted; remove from list						
D7363.73	Deleted; remove from list						
D8858	Deleted; remove from list						
GULF OF GUBAL. ASHRAFI OLFIELD							
D8859.1	- Hilal - B	27 50.21 N 33 43.61 E	Mo(U)W 15s	..	10	Platform	
	- -	..	Horn Mo(U) 30s				
	- -	..	Racon	..	..		ILRS Vol 2 Station 74422.5
	- -	..	Mo(U)R 15s				
F0476.2	- - - N Breakwater	21 05.45 N 72 36.84 E	FI R 2s	11	4	Red beacon	*
F0476.25	- - - S Breakwater	21 05.09 N 72 37.03 E	FI G 2s	11	4	Green beacon	*
THA RUA PHUKET							
F1174	- Ko Taphao Noi	07 49.93 N 98 25.42 E	FI(2)W 20s	67	20	White concrete tower 12	*
F1178	Chatchawanwachira- oak. (Ko Nom Sao Noi)	08 18.65 N 98 30.97 E	FI W 3s	26	9	White concrete tower 2	fl 0.3. *
F1183	Patachotwachirapha (Ko Lanta Yai)	07 28.10 N 99 05.88 E	FI(3)W 15s	36	10	White concrete tower 11	(fl 0.5, ec 1.5) x 2, fl 0.5, ec 10.5 *
F1184	- Ko Nok (Kantang)	07 16.26 N 99 28.46 E	FI W 3s	12	10	White metal framework tower 8	fl 0.22 *
F1292.2	Krueng Teunom	04 26.83 N 95 47.86 E	FI R 7.5s	34	14	Red beacon	fl 0.8

7. 2

		*						
F1616.5	-- N	03 00.91 N 100 51.89 E	Fl W 3s Racon	30	15	White round tower on piles	ILRS Vol 2 Station 79860 TD 2015	*
	---		
F1685.78	- Banyan	01 13.35 N 103 41.58 E	Fl(2) W 10s	11	5	Black 8 on black beacon, red band	Ra refl. Isolated danger mark	*
*	*	*	*	*	*	*		*
F1701.9	Deleted; remove from list							
K0877	- Muara Siberut	01 35.90 S 99 12.20 E	Fl W 7s	45	15	White framework tower 12	fl 0.5 TE 2015	*
K0877.5	- Ug Sikabai	01 35.40 S 99 15.40 E	Fl W 5s	14	12	White beacon	fl 0.5 TE 2015	*

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)

RADAR BEACONS

PAGE 6, Egypt (Red Sea Coast) (Contd....)
above 74425 East Zeit Oil Field, Platform C
insert:

Helal B Quay Lt	27°50'.21 N 33°43'.61E					Q	74422.5
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INP 31(5), 2011

(Last correction: Edition No. 16 dated 16 Aug2015)

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.gov.in, msi-inho@navy.gov.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.

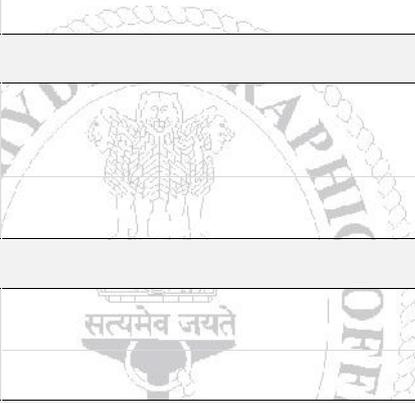
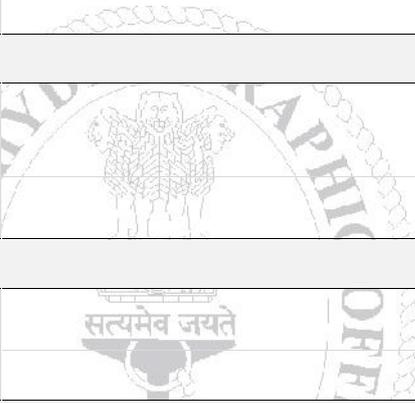
Please Note: - An acknowledgement will be sent by National Hydrographic Office for Hydrographic Notes received. When a Notice to Mariners is issued, the sender's ship or name is quoted as authority unless the information is also received from other authorities/foreign Notices to Mariners. Further communication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

To accompany Indian Notice to Mariners 050/16

Chart 2036 (INT 7352)

Lesser Depths Reported

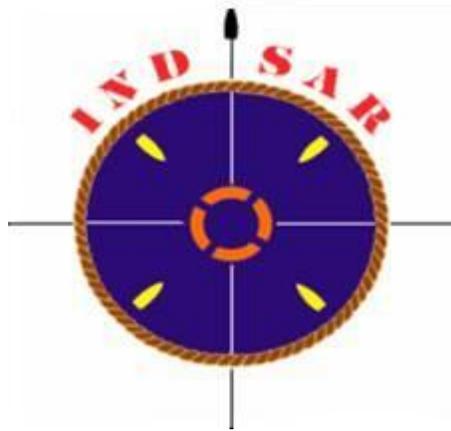
Lesser depths reported during survey carried out by Port in 2014.
Port Authorities should be consulted for the latest information on
depths in the area.

To accompany Indian Notice to Mariners 050/16

Chart 2103

Lesser Depths Reported

Lesser depths reported during survey carried out by Port in 2014.
Port Authorities should be consulted for the latest information on
depths in the area.



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