



INDIAN NOTICES TO MARINERS



EDITION NO. 08 DATED 16 APR 2021

(CONTAINS NOTICES 098 TO 106)

REACH US 24 x 7



msis-inho@navy.gov.in
inho@navy.gov.in



+91-135-2748373



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



Commander (H)
Maritime Safety Information Services
+91- 135 - 2746290-117

WWW

www.hydrobharat.gov.in

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

FEEDBACK: msis-inho@navy.gov.in



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



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II

MARINER'S OBLIGATION AND A CHART MAKER'S PLEA

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

**Chief Hydrographer
to the Government of India**

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 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 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>
-NIL -					

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>
-NIL -					

3. The Indian Chart that is permanently withdrawn is 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>
-NIL -				

4. The new 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>
-NIL -			

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

<i>ENC Cell Name</i>	<i>Chart No.</i>	<i>Title</i>	<i>Issue Date</i>
IN2292AA	292	DWARAKA TO MUMBAI	12-04-2021
IN2351PR	351	PARADIP TO PUSSUR RIVER	12-04-2021
IN62055P	2055	MUL DWARAKA PORT	12-04-2021

6. 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>
IN2292AA	292	DWARAKA TO MUMBAI	11-02-2020
IN2351PR	351	PARADIP TO PUSSUR RIVER	11-01-2021
IN62055P	2055	MUL DWARAKA PORT	23-02-2015

VI

7. The forthcoming Indian Charts are as follows:-

<i>Chart No</i>	<i>Title</i>	<i>Scale</i>	<i>Remarks</i>
259	BADAGARA TO KOCHI	3,00,000	NEW CHART
353	KALINGAPATNAM TO GOPALPUR	3,00,000	NEW EDITION
2126	BITRA ISLAND	25,000	NEW CHART
4182	CAMPBELL BAY AND ANDERSON BAY	25,000	NEW EDITION
4184	TRINKAT CHAMPLONG BAY	25,000	NEW EDITION
4185	PIGEON ISLAND	25,000	NEW CHART
4253	DILIGENT STRAIT TO KOTRARA ANCHORAGE	60,000	NEW CHART
4254	RUTLAND ISLAND TO LITTLE ANDAMAN ISLAND	60,000	NEW CHART

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:

United Kingdom Hydrographic Office Admiralty Way, Taunton, Somerset TA1 2DN, UK Tel: +44 (0) 1823 337900 Fax: +44 (0) 1823 330561, 1823 284077 Web site: www.hydro.gov.uk	Navico Norway AS Elganeveien 1, 4370 Egersund, Norway Ph: +47 51 464700, +91 2262233326 Mob: +91 9820238542 Fax: +47 51 464701, +91 2267939504 Email: enc@c-map.com , info@c-map.co.no Website: www.c-map.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 Telangana 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 098 to 106 contained in this edition is as follows:-

CHART NUMBER	FOLIO NO.	NOTICE NO.
21	2	098
31(INT 756)	5	102 (T), 106 (T)
32 (INT 754)	5	103 (P)
202	2	105 (T)
206	2	098
210	3	105 (T)
211	3	105 (T)
223	4	103 (P)
224	5	103 (P)
251(INT 7318)	2	105 (T)
253 (INT 7328)	2	098, 105 (T)
254 (INT 7331)	3	105 (T)
255 (INT 7334)	3	105 (T)
256 (INT 7340)	3	105 (T)
262 (INT 7365)	5	103 (P)
271	2	105 (T)
292 (INT 7021)	2	098, 105 (T)
293 (INT 7022)	3	105 (T)
351(INT 7419)	5	101
352 (INT 7416)	5	100
354 (INT 7408)	5 सत्यमेव जयते	104 (T)
355 (INT 7405)	5	104 (T)
391	5	104 (T)
2008	3	099
2055	2	098
2120	3	099
2353	3	099
3042	5	104 (T)

SECTION – II**PERMANENT NOTICES*****098 (08/21) INDIA – WEST COAST – Mul Dwarka Port – Wreck, Leading Line and Legend.**

Source: IH-102, INS Jamuna.

Chart 21 [previous update 093/21]Insert  20° 45'·30N., 070° 38'·33E.Delete  20° 45'·20N., 070° 38'·30E.**Chart 292 (INT 7021)** [previous update 191/20]Insert  20° 45'·304N., 070° 38'·335E.**Chart 253 (INT 7328)** [previous update 078/21]Insert  20° 45'·304N., 070° 38'·335E.Delete  20° 45'·200N., 070° 38'·341E.**Chart 206** [previous update 232/19]Insert  20° 45'·304N., 070° 38'·335E.Delete  20° 45'·200N., 070° 38'·341E.**Chart 2055** [previous update 120/18]Insert  20° 45'·304N., 070° 38'·335E.pecked line, , joining;firm line, , joining;

legend, “2Lts#341”, centered on;

20° 45'·240N., 070° 40'·120E.

20° 45'·430N., 070° 40'·041E.

Move  Oc.R.10s37m3M from 20° 45'·976N., 070° 39'·852E.

to 20° 45'·978N., 070° 39'·846E.

 Oc.Bu.5s20m1M from 20° 45'·362N., 070° 39'·892E.

to 20° 45'·387N., 070° 39'·917E.

Delete  20° 45'·200N., 070° 38'·341E.pecked line, , joining;

20° 45'·700N., 070° 39'·940E.

firm line, , joining;

20° 45'·700N., 070° 39'·940E.





20° 45'·231N., 070° 40'·091E.

legend, “2Lts#343”, centered on;

20° 45'·430N., 070° 40'·015E.



098 (08/21) INDIA – WEST COAST – Mul Dwarka Port – Wreck, Leading Line and Legend. (Continued)*Chart 2055 (North Jetty) [previous update 120/18]**

Insert	pecked line,  , joining;	20° 45′·800N., 070° 39′·912E.
		20° 45′·701N., 070° 39′·947E.
Delete	firm line,  , joining;	20° 45′·701N., 070° 39′·947E.
		20° 45′·563N., 070° 40′·000E.
	legend, “2Lts#341”, centered on;	20° 45′·639N., 070° 39′·975E.
		20° 45′·800N., 070° 39′·909E.
Delete	pecked line,  , joining;	20° 45′·703N., 070° 39′·940E.
		20° 45′·703N., 070° 39′·940E.
	firm line,  , joining;	20° 45′·518N., 070° 40′·000E.
		20° 45′·584N., 070° 39′·980E.
	legend, “2Lts#343”, centered on;	

***099 (08/21) INDIA – WEST COAST – Karwar Port – Buoys.**

Source: Karwar Port.

Chart 2353 [previous update 162/19]







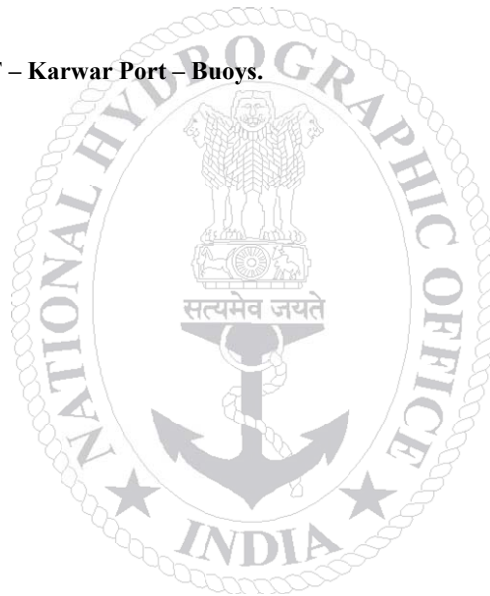
Insert	 <i>Fl.G.5s</i>	14° 48′·64N., 074° 05′·67E.
	 <i>Fl.R.5s</i>	14° 48′·76N., 074° 05′·67E.
	 <i>Fl.G.5s</i>	14° 48′·65N., 074° 06′·57E.
	 <i>Fl.R.5s</i>	14° 48′·77N., 074° 06′·57E.
	 <i>Fl.G.5s</i>	14° 48′·56N., 074° 06′·87E.
	 <i>Fl.R.5s</i>	14° 48′·60N., 074° 07′·14E.

Chart 2008 [previous update 162/19]

Insert	 <i>Fl.G.5s</i>	14° 48′·64N., 074° 05′·67E.
	 <i>Fl.R.5s</i>	14° 48′·76N., 074° 05′·67E.
	 <i>Fl.G.5s</i>	14° 48′·65N., 074° 06′·57E.
	 <i>Fl.R.5s</i>	14° 48′·77N., 074° 06′·57E.



***099 (08/21) INDIA – WEST COAST – Karwar Port – Buoys. (Continued)**

Insert  *Fl.G.5s* 14° 48'·56N., 074° 06'·87E.


 *Fl.R.5s* 14° 48'·60N., 074° 07'·14E.

Chart 2120 [previous update 100/18]

Insert  *Fl.G.5s* 14° 48'·64N., 074° 05'·67E.

 *Fl.R.5s* 14° 48'·76N., 074° 05'·67E.

 *Fl.G.5s* 14° 48'·65N., 074° 06'·57E.

 *Fl.R.5s* 14° 48'·77N., 074° 06'·57E.

 *Fl.G.5s* 14° 48'·56N., 074° 06'·87E.

 *Fl.R.5s* 14° 48'·60N., 074° 07'·14E.

***100 (08/21) INDIA – EAST COAST – Gopalpur to Paradip – Port Limit and Legend.**

Source: NHO, Dehradun.

Chart 352 (INT 7416) [previous update 078/21]

Insert Pecked line, , joining; 19° 21'·94N., 085° 03'·85E.(Shore)

19° 20'·50N., 085° 05'·00E.

19° 13'·80N., 084° 56'·02E.

19° 15'·34N., 084° 54'·44E.(Shore)

Legend, “*Limit of Port of Gopalpur*”, centered on;

19° 18'·46N., 085° 01'·80E.

***101 (08/21) INDIA – EAST COAST – Paradip to Pussur River – Buoys.**

Source: BNHOC Notice No. 13/2021.

Chart 351 (INT 7419) [previous update 087/21]

Delete  *Fl(2)R.12s*
HANS-2 21° 50'·82N., 089° 28'·73E.

 *Fl.G.10s*
HANS-3 21° 50'·82N., 089° 29'·30E.

Section – III**TEMPORARY AND PRELIMINARY NOTICES**

***102(T) (08/21) INDIAN OCEAN – Bay of Bengal – Northern Portion (Krishnapatnam to Bassein River) – wreck.**

Source: BNHOC Notice No. 14(T)/2021.

Insert



21° 42'·70N., 91° 25'·00E.

Chart Affected – 31(INT 756).

***103(P) (08/21) INDIA – SOUTH EAST COAST – GULF OF MANNAR – Manappad to Setukkarai – Construction Activities.**

Source: IH 102, INS Jamuna.

1. Various construction activities viz Construction of Breakwater, Jetty, Erection of piles is in progress in the port limit of Udangudi Port.
2. Mariners are advised to navigate with caution and contact local port authorities for more information.

Charts affected – 224 –223– 262 (INT 7365) – 32 (INT 754).

***104 (T) (08/21) INDIA – EAST COAST – Bay of Bengal – Oil Rigs.**

Source: NCD, Mumbai.

1. List of Oil Rigs is as follows:-

Rig Name	Position
Aban II	16° 40'·40N., 82° 24'·30E.
Deep Driller 8	16° 40'·13N., 82° 25'·73E.
DDKG 1	16° 31'·69N., 82° 35'·90E.
SSV Louisiana	16° 06'·95N., 82° 19'·78E.
Olinda Star	16° 27'·45N., 82° 25'·60E.
Platinum Explorer	15° 08'·82N., 82° 07'·28E.

2. All vessels operating in vicinity are to maintain a clearance of 01 NM off the oil rigs.
3. All positions referred to WGS 84 datum.

Charts Affected – 391 – 354 (INT 7408) – 355 (INT 7405) – 3042.

Former INTM 081(T)/21 is cancelled.

***105 (T) (08/21) INDIA – WEST COAST – Arabian Sea – Oil Rigs.**

Source: NCD, Mumbai.

1. List of Oil Rigs is as follows:-

Rig Name	Position
Aban III	18° 54'.75N., 71° 49'.57E.
Aban IV	19° 27'.80N., 71° 16'.83E.
CE Thornton	19° 34'.17N., 71° 25'.12E.
Discovery 1	19° 10'.06N., 71° 46'.56E.
DS Fortune	19° 12'.87N., 72° 06'.78E.
DS Fossil	20° 11'.52N., 71° 52'.25E.
FG McIntok	19° 24'.05N., 71° 18'.90E.
Foresight Driller IX	18° 55'.88N., 72° 18'.31E.
Great Drill Chaaya	19° 12'.51N., 72° 02'.24E.
Great Drill Chauru	19° 36'.38N., 71° 47'.81E.
Great Drill Chetna	22° 33'.31N., 68° 26'.35E.
Harvey H Ward	18° 55'.81N., 72° 00'.92E.
Jindal Explorer	18° 39'.22N., 70° 58'.86E.
Jindal Star	18° 38'.79N., 72° 14'.94E.
Jindal Supreme	19° 16'.50N., 71° 28'.45E.
JT Angel	19° 33'.52N., 71° 24'.80E.
Parameswara	20° 06'.74N., 71° 42'.27E.
Ron Tappmeyer	18° 08'.49N., 72° 22'.07E.
Sagar Bhushan	19° 13'.40N., 71° 13'.75E.
Sagar Jyoti	19° 01'.68N., 72° 21'.87E.
Sagar Kiran	19° 17'.46N., 71° 13'.47E.
Sagar Ratna	19° 23'.54N., 71° 48'.27E.
Sagar Shakti	19° 25'.22N., 71° 24'.97E.
Sagar Udhay	19° 17'.71N., 71° 02'.86E.
Trident 2	19° 16'.19N., 71° 23'.30E.
Valiant Driller	19° 16'.73N., 71° 25'.53E.
Victory Driller	19° 16'.46N., 71° 26'.77E.
Vivekananda 1	19° 11'.99N., 72° 11'.00E.
Vivekananda 2	20° 13'.31N., 71° 54'.79E.
Virtue 1	19° 25'.86N., 71° 12'.20E.

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

3. All positions referred to WGS 84 datum.

Charts Affected – 292 (INT 7021) – 293 (INT 7022) – 271 – 251 (INT 7318) – 253 (INT 7328) – 254 (INT 7331) – 255 (INT 7334) – 256 (INT 7340) – 210 – 211 – 202.**Former INTM 096 (T)/21 is cancelled.**

***106 (T) (08/21) INDIAN OCEAN – Bay of Bengal – Northern Portion (Krishnapatnam to Bassein River) – Survey Operation.**

Source: Myanmar Notice 09/2021.

1. Semi – Submersible Survey will be carried out by Semi – Submersible Rig **Deepwater Nautilus (Call Sign: D5UE8)** till **31 Oct 21** in the area bounded by the following coordinates:-

Sl. No.	Position
(a)	19° 56′·57N., 092° 19′·40E.
(b)	19° 43′·40N., 092° 19′·25E.
(c)	19° 42′·73N., 092° 32′·79E.
(d)	19° 56′·03N., 092° 33′·47E.

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

3. Mariners are advised to navigate with caution.

Charts affected – 31 (INT 756).



SECTION – IV

MARINE INFORMATION

1. NAVTEX TRANSMISSION

Status of MSI Promulgation by NAVTEX Stations is as follows:-

Mauritius (Cassis)	- Operational
Seychelles (Mahe)	- Operational
Bangladesh (Kuakata)	- Operational

Following new NAVTEX stations along the Indian coast have commenced operations:-

INTERNATIONAL NATIONAL NAVTEX FREQUENCY - 518 kHz								
Sl.	Station Name	B1	Broad Cast Timings in UTC					
(a)	Veraval	H	0110	0510	0910	1310	1710	2110
(b)	Vengurla Point	J	0130	0530	0930	1330	1730	2130
(c)	Muttam Point	L	0150	0550	0950	1350	1750	2150
(d)	Porto Novo	O	0220	0620	1020	1420	1820	2220
(e)	Vakalpudi	Q	0240	0640	1040	1440	1840	2240
(f)	Balasore	S	0300	0700	1100	1500	1900	2300
(g)	Keating Point	V	0330	0730	1130	1530	1930	2330

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 crews 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: - mrcc-west@indiancoastguard.nic.in. 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.

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.

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 are published in the fortnightly Indian Notices to Mariners.

(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) **Traffic Separation Schemes (TSS):** The TSS is mandatory for all Indian and foreign flag ships and vessels entering and leaving.

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/ IRIIDIUM AND SATELLITE PHONE**

(a) 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.

(b) 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).

(c) 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.

8. **ADVISORY FOR ALL VESSELS NAVIGATING INDIAN WATERS**

(a) All vessels navigating in Indian waters are cautioned to keep a sharp look-out for fishing vessels and small crafts, as there have been several incidents of collisions with such vessels in the past resulting in loss of innocent lives as well as damage to property.

(b) It is further cautioned that all vessels need to exercise extreme care while navigating during hours of darkness as such vessels are generally of primitive built (wood/fibre/etc) due to which it may not be detected on ship's radar, especially during adverse weather conditions. Also, such vessels may not be properly lit, or sometimes, only one vessel may be lit among multiple vessels in a cluster.

(c) The general areas of concern on the west coast of India are the areas of convergence and divergence of traffic, mainly between Mangalore to Kanyakumari (Cape Comorin). Further, in these areas, additional caution needs to be exercised and wide berth be given to all such vessels.

(d) All fishing vessels are also cautioned to avoid fishing in areas having high density traffic. All fishing vessels are also required to always maintain proper lookout by sight, hearing and by all available means and comply with all applicable provisions of Collision Regulations.



List of Indian Chart Agents

<p>OSA Books and Periodicals R-246, Greater Kailash –I, New Delhi - 110 048 Tel/Fax: +91-11-26418643, 46557337, Mob: 9971093992 Email: rpani246@gmail.com</p>	<p>M/s VDO Marine Instruments Shanghar Building, PO Bag No – 645, 45/271, Corner of Bristow & Naval Road, Willingdon Island, Kochi – 682 003 Tel: +91 484 2667157 Fax: +91 484 2667121 Email: atmain@md4.vsnl.net.in</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>SMS Marine Private Ltd 505, Raheja Arcade, Sector 11, CBD Belapur, Navi Mumbai – 400 614 Tel: +91-22-62233326, Fax: 022-67939504 Mobile: +91 9820 238 542 Email: info@c-map.co.in , raj.chakravorty@smsmap.com Web: www.smsmaps.co.in</p>
<p>M/s C & C Marine Combine 25 Bank Street, 1st Floor, Fort Mumbai - 400 023 Tel: 91-22- 22660017/0018/0525/1937 Ext: 32 Tel: 91-22-22672143 Fax: 91-22-22670896 Email: vijay@ccmarine.in, sales@ccmarine.in</p>	<p>M/s Global Marine Infratech Pvt. Ltd. Siksha Sandan, Ground Floor, Plot No. ND7, VIP Area, IRC Village, Bhubaneswar – 751015 Tel: +91-674-2550599, Fax: +91-674-2551899 Cell:- +91-9337477799, 7077702499 Email: tusarkantha@gmiindia.in Web: www.gmiindia.in</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>L. R. Marine Services 301, 3rd Floor, Biryia House, 265, Perin Nariman Street, Fort, Mumbai - 400 001. Tel: +91-22-2269 1535, Fax: +91-22-66359148 Cell No: +91 8108926880/ +91 98214 60258 Email: lrcharts@gmail.com, lrmarine@live.com</p>
<p>M/s Lift o Marine Allen's Mansion, C6, Nungi Station Road, Bata Nagar, Kolkata – 700 140 Tel: +91 9836972027 Fax: 033 24924283 Email: sankar@liftomarine.org, liftomarine77@gmail.com Web: www.liftomarine.org</p>	<p>IC Technologies Limited 8-2-350/5/B-22, Road No. 3, Banjara Hills, Hyderabad – 500 034, Telangana Tel: +91 40 39144444 Fax: +91 40 39144455 Email: somnath.marthi@iictechnologies.com Web: www.iictechnologies.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 – 2020.

2. NAVAREA VIII Warnings in force as on 15 Apr 21:-

<u>2020 SERIES</u> - 116 329 333 384 442 444 515 526 593 630 664 690 691 751 753 757
<u>2021 SERIES</u> - 016 017 025 030 057 079 138 147 170 180 181 205 213 226 229 232 237 238 244 246 250 259 266 267 272 278 281 283 284 285 286 288 289 290 292 293 295 296 297 298 299

3. NAVAREA VIII Warnings issued during the period from 01 Apr to 15 Apr 21 (both dates inclusive) are as tabulated below:-

270. Cancel NAVAREA VIII MSG 207/21 and this MSG.
271. NAVAREA VIII - Warnings in force as on 01 Apr 2021:- <u>2020 Series</u> - 116 329 333 384 442 444 480 515 526 593 630 664 690 691 751 753 757 <u>2021 Series</u> - 016 017 025 030 057 079 138 147 170 180 181 205 213 215 220 226 227 229 232 235 237 238 244 246 250 259 263 266 267 268 269 270 (A) NAVAREA VIII warnings less than 42 days promulgated via safetynet. (B) Text of NAVAREA VIII warning inforce including those which no longer broadcast available in www.hydrobharat.gov.in. 2. Cancel this MSG 091000 UTC Apr 21.
272. India West Coast – off Mumbai. Charts IN 211 255 292 INT 7334. Samudra Sarvekshak progressing geotechnical investigation in vicinity of 18-42.61N 072-21.52E, 18-42.77N 072-21.37E, 18-42.72N 072-21.16E, 18-42.51N 072-21.09E, 18-42.36N 072-21.25E, 18-42.41N 072-21.46E. Wide berth requested. 2. Cancel this MSG 301830 UTC Apr 21.
273. Andaman Sea – off Myanmar. Charts BA 818 830 INT 7433. Myanmar naval exercise scheduled from 04 to 10 Apr 21 in danger area bounded within (A) 16-40N to 18-20N and 091-52E TO 093-36E (B) 16-10N TO 16-40N and 093-06E to 093-36E (C) 17-15.5N to 17-39.5N and 094-7.5E TO 094-25E. Wide berth from area advised. 2. Cancel this MSG 101830 UTC Apr 21.
274. India East Coast – off Chennai. Charts IN 32 313 356 357 INT 7400. Firing by CG aircraft scheduled on 07, 08, 09 Apr 21 from 0130 to 1130 UTC in danger area bounded within 12-49N to 12-59N and 080-46E TO 081-26E. Wide berth from area advised. 2. Cancel this MSG 091230 UTC Apr 21.
275. Andaman Sea – off Barren. Charts IN 41 473 INT 7031. Firing by CG aircraft scheduled on 08, 09 Apr 21 from 0330 to 0930 UTC in danger area bounded within 11-50N to 12-00N and 093-40E to 094-10E. Wide berth from area advised. 2. Cancel this MSG 091030 UTC Apr 21.
276. India West Coast – off Porbandar. Charts IN 204 205 252 271 291 292 INT 7325. IAF firing from Kathiawar range scheduled 06 to 09 Apr 21 from 0330 to 1030 UTC in danger area bounded by 22-12N 068-36.33E, 21-15.5N 069-04E, 21-09N 069-40E, 21-15.5N 069-42.5E, 22-05.75N 068-49E. Wide berth from area advised. 2. Cancel this MSG 091130 UTC Apr 21.
277. Indian Ocean Southern Part. Charts IN 7070 7073 INT 70. Space debris predicted 260 NM on either side of Centreline joining 27-25S 062-10E, 34-10S 070-20E, 44-30S 086-10E, 49-45S 100-45E, 52-25S 111-55E, 53-35S 124-50E, 53-05S 139-35E, 52-00S 149-35E, 50-10S 157-15E from 07 to 15 Apr 21 from 1508 to 1912 UTC Apr 21. 2. Cancel this MSG 152012 UTC Apr 21.
278. India West Coast. Charts IN 21 211 212 255 256 293 INT 7334. Rig move. Vivekanand 1 (19-11.99N 072-11.00E), Ron Tappmeyer (18-08.49N 072-22.07E). Refer to 096(T) of INTM 07/21. Wide berth requested.
279. Indian Ocean. Charts IN 7071 7707 INT 707. Man overboard reported from MV Aphrodite L between approximate positions 01-47S 084-54E and 01-19S 085-29E AT 050800 UTC Apr 21. Mariners to keep sharp lookout. 2. Cancel this MSG at 120800 UTC Apr 21.
280. India West Coast – off Mormugao. Charts IN 22 214 215 257 293 2078 7705 INT 705. Firing scheduled from 090330 UTC to 090730 UTC Apr 21 in danger sector extending upto 15 NM between bearing 220 to 260 from 15-24.7N 073-47.05E. Wide berth from area advised. 2. Cancel this MSG 090830 UTC Apr 21.
281. India East Coast – Palk Bay. Chart IN 33 315 316 317 358 INT 7394. Survey operations being progressed in area

<p>281. Continued. bounded by 09-43.45N 079-01E, 09-43.45N 079-25.12E, 09-57N 079-35E, 09-57.24N 079-37E, 10-28N 079-37E, 10-28N 079-01E. Wide berth requested.</p> <p>2. CANCEL THIS MSG 061830 UTC MAY 21</p>
<p>282. Cancel NAVAREA VIII MSG 480/20 and this MSG.</p>
<p>283. India East Coast. Charts IN 355 3031 INT 7405. Rig move. Olinda Star (16-27.45N 082-25.6E). Wide berth requested.</p>
<p>284. India West Coast. Charts IN 21 255 292 INT 7334. Rig move. Greatdrill Chaaya (19-12.51N 072-02.24E). Refer to 096(T) of INTM 07/21. Wide berth requested.</p>
<p>285. India West Coast – off Mumbai. Charts IN 21 255 292 293 INT 7021. HLS-2000 progressing hookup activities in area bounded by 18-49.2N 072-09.49E, 18-48.81N 072-28.67E, 18-11.65N 072-27.91E, 18-18.98N 072-08.8E. Wide berth requested.</p> <p>2. Cancel NAVAREA VIII MSG 220/21 and this MSG 251830 UTC Apr 21.</p>
<p>286. Indian West Coast – Mormugao Port. Charts 214 215 257 293 2020 2022 2078 INT 7346. Abandoned barge MV Surya reported sunk near mooring dolphin No. 1 & 2. Wide berth requested.</p>
<p>287. India West Coast – off Daman. Charts IN 21 210 255 292 INT 7021. RV Akademik Primakov progressing seismic survey in area bounded by 19-33.32N 072-21.03E, 19-37.24N 072-20.13E, 20-11N 072-18.41E, 20-11.33N 072-32.48E, 19-32.91N 072-32.64E. Vessel towing 8 streamers of 3.5 NM. Wide berth of 5.5 NM requested.</p> <p>2. Cancel this MSG 121830 UTC Apr 21.</p>
<p>288. India West Coast – off Porbandar. Charts IN 204 205 252 271 291 292 INT 7325. Firing by Indian Coast Guard scheduled on 11, 15, 16, 17 Apr 21 from 0300 to 1000 UTC in danger area bounded by 21-32N 069-24E, 21-12N 069-24E, 21-14N 069-05E, 21-32N 068-56E. Wide berth from area advised.</p> <p>2. Cancel this MSG 171100 UTC Apr 21.</p>
<p>289. NAVAREA VIII - Warnings in force as on 09 Apr 2021:- 2020 Series - 116 329 333 384 442 444 515 526 593 630 664 690 691 751 753 757 2021 Series - 016 017 025 030 057 079 138 147 170 180 181 205 213 226 227 229 232 235 237 238 244 246 250 259 266 267 268 272 273 277 278 279 281 283 284 285 286 287 288 (A) NAVAREA VIII warnings less than 42 days promulgated via safetynet. (B) Text of NAVAREA VIII warning inforce including those which no longer broadcast available in www.hydrobharat.gov.in.</p> <p>2. Cancel this MSG 161000 UTC Apr 21.</p>
<p>290. Bay of Bengal – off Myanmar. Charts BA 817 INT 7430. MV Fugro Mariner progressing geotechnical survey in area bounded by 19-40.35N 092-32.58E, 19-40.33N 092-32.61E, 19-40.33N 092-32.61E, 19-40.31N 092-32.6E. Wide berth of 2.2 NM requested.</p> <p>2. Cancel this MSG 051930 UTC May 21.</p>
<p>291. Cancel NAVAREA VIII MSG 227/21 and this MSG.</p>
<p>292. India West Coast – off Mumbai. Charts IN 21 255 292 293 INT 7334. Allianz Commander progressing hookup activities in vicinity of position 19-10.62N 070-57.65E. Wide berth requested.</p> <p>2. Cancel this MSG 311830 UTC May 21.</p>
<p>293. Andaman Sea – off Barren. Charts IN 41 473 INT 7031. Firing by CG aircraft scheduled on 15, 16 Apr 21 from 0330 to 0930 UTC in danger area bounded within 11-50N to 12-00N and 093-40E to 094-10E. Wide berth from area advised.</p> <p>2. Cancel this MSG 161030 UTC Apr 21.</p>
<p>294. India West Coast – Okha. Charts IN 21 202 203 2068 INT 7319. Firing scheduled on 15 Apr 21 from 0530 to 0730 UTC in danger sector extending upto 12 NM within bearing 270 to 020 from 22-28.75N 069-04.05E. Wide berth from area advised.</p> <p>2. Cancel this MSG 150830 UTC Apr 21.</p>
<p>295. India West Coast – off Mumbai. Charts IN 21 255 292 293 INT 7021. Great ship Rashi progressing pipeline survey in area bounded by area 1 (A) 18-57.05N 072-29.76E (B) 19-10.77N 071-22.91E (C) 19-28.09N 071-06.75E (D) 19-40.86N 071-19.45E (E) 19-29.12N 072-14.17E (F) 19-01.68N 072-28.22E, area 2 (A) 18-52.33N 072-34.77E (B) 18-59.28N 072-32.61E (C) 18-51.14N 072-40.38E and area 3 (A) 18-48.52N 072-38.93E (B) 18-48.74N 072-41.71E (C) 18-48.08N 072-42.62E (D) 18-46.37N 072-41.24E. Wide berth requested.</p> <p>2. Cancel this MSG 171830 UTC May 21.</p>
<p>296. India East Coast – off Paradip. Charts IN 31 351 INT 7419. Firing by CG aircraft scheduled on 14, 15, 16 Apr 21 from 0330 to 0530 UTC and 0830 to 1030 UTC in danger area bounded within 20-20N to 20-35N and 088-40E to 089-00E. Wide berth from area advised.</p> <p>2. Cancel this MSG 161130 UTC Apr 21.</p>
<p>297. India West Coast - off Mormugao. Charts IN 22 213 215 257 293 INT 7343. Firing scheduled on 15, 16 Apr 21 from 0300 to 0700 UTC in danger areas bounded by (A) 14-57.43N 072-53.81E, 14-31.48N 072-57.72E, 14-51.35N 073-31.86E, 15-08.14N 073-31.86E, 15-07.14N 073-07.38E (B) 15-44.04N 072-53.58E, 15-53.04N 073-11.58E, 14-58.04N 073-37.58E, 14-50.05N 073-18.58E. Wide berth from area advised.</p>

297. Continued.
2. Cancel this MSG 160800 UTC Apr 21.
298. India East Coast – off Kakinada. Charts IN 31 354 391 INT 756. Firing scheduled on 19, 20 Apr 21 from 0030 to 1730 UTC in danger area bounded within 14-20N to 16-40N and 083-30E to 085-40E. Wide berth from area advised.
2. Cancel this MSG 201830 UTC Apr 21.
299. Cancel NAVAREA VIII MSG 268/21 and this MSG.

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
F0413	- Mul Dwarka Port. Breakwater. Head	20 45.18 N 70 39.96 E	Fl(3)W 10s	25	5		TE 2021
F0413.05	-- Turning Circle Rear *	20 45.39 N 70 39.92 E *	Oc Bu 5s	20	1	Δ on beacon	*
F0413.1	-- S Jetty. S head	20 45.24 N 70 39.98 E	Oc R 10s	20	1		TE 2021
F0413.15	--- N head	20 45.39 N 70 39.92 E	Iso Bu 5s	13	1	Δ on beacon	TE 2021
F0413.4	-- Port. Ldg Lts 341°. Front. *	20 45.82 N 70 39.82 E *	Iso W 10s	29	3	Δ on beacon	*
F0413.41	---- Rear. 310m from front *	20 45.99 N 70 39.76 E *	Oc W 10s	37	3	∇ on beacon	
F0413.5	-- Starboard. Ldg Lts 341°. Front *	20 45.85 N 70 39.89 E *	Iso R 10s	29	3	Δ on beacon	
F0413.51	---- Rear. 280m from front *	20 45.98 N 70 39.85 E *	Oc R 10s	37	3	∇ on beacon	
F0755.5	Kavaratti Island	10 33.67 N 72 38.77 E	Fl W 5s	40	21	White concrete tower 38	<i>fl 0.3</i>
-	-	..	Racon	ILRS Vol 2 Station 79060 TD 2021
F1222.55	Bampoka Island	08 13.45 N 93 14.75 E	Fl(2)W 20s	43	16	Red Metal Framework tower, white bands 12	<i>fl 1 ec 2, fl 1, ec 16</i>
F1223.4	- Katchall West Bay	07 55.60 N 93 19.50 E	Fl(3)W 15s	17	10	Black and white metal trestle tower 12	<i>(fl 0.5, ec1) x 2, fl 0.5, ec 11.5</i>


SECTION – VIII
CORRECTION TO LIST OF RADIO SIGNALS

INP 31(1), 2019

(Last correction: Edition No. 06 dated 16 Mar 2021)

PAGE 21, COAST RADIO STATIONS, INDONESIA (Sumatera).

Insert Entry below 'MEULABOH (PKA21)'

MEULABOH 2 (PKA25) 96°07'.71E	04°08'.82N
 +62 655 21434	
NOTE(S): Closed Sundays and public holidays.	

RT (MF)

	Transmits	Receives	Hours of Watch
	2182	2182	HX
	2690	2090	

RT (HF)

	Transmits	Receives	Hours of Watch
	6215	6215	
	6510 (Ch 604)	6209	

**PAGE 21, COAST RADIO STATIONS, INDONESIA (Sumatera),
MUNTOK (PKC7).**

Delete entry and replace by:

MUNTOK (PKC7) 105°09'.07E	02°03'.37S		
MMSI 005251509	DSC VHF MF		
		Email: sropmuntok@gmail.com	
NOTE(S): Closed Sundays and public holidays.			

VHF

		Ch 12 14 20 22	
		Ch 16	H24
		Ch 68	

RT (MF)

	Transmits	Receives	Hours of Watch
	2182	2182	H24

RT (HF)

	Transmits	Receives	Hours of Watch
	6215	6215	0000-0100 0500-0600 0800-0900
	6227	6227	0000-0600 0930-1000
	6510 (Ch 604)	6209	0100-0130 0200-0230 1300-1400

**PAGE 30, COAST RADIO STATIONS, INDONESIA (Sumatera),
TEMBILAHAN (PKP45), Contact table.**

Delete table and replace by:

TEMBILAHAN (PKP45) 103°09'.68E	00°19'.01S		
MMSI 005250094	DSC VHF		
NOTE(S): Closed Sundays and public holidays.			

INP 31(2), 2019

(Last correction: Edition No.05 dated 01 Mar 2021)

**Page 16, RADAR BEACON, IRAN,
78400 Jazireh-ye Qeys Lt.**

Delete Entry

(Source: BA 14/21)

(08/21)

INP 31(5), 2017

(Last correction: Edition No. 05 dated 01 Mar 2020)

NIL

INP 31(6), 2018

(Last correction: Edition No. 05 dated 01 Mar 2021)

NIL

SECTION – IX

REPORTING OF NAVIGATIONAL DANGERS

Appeal to all Mariners

1. Mariners at sea whilst on passage, or whilst entering / leaving ports / Harbour 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 : msis-inho@navy.gov.in, 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.

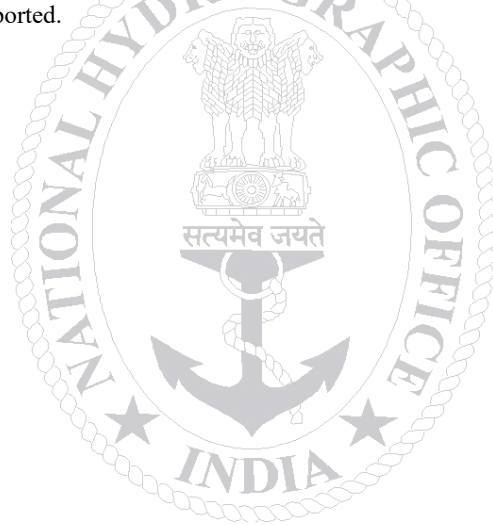
As a check that apparently shoal soundings are not due to echoes received beyond the set's nominal range, soundings should be continued until reasonable agreement with charted soundings is reached. However, soundings received after one or more rotations of the stylus can still be useful and should be 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 102A 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, on receipt. 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.

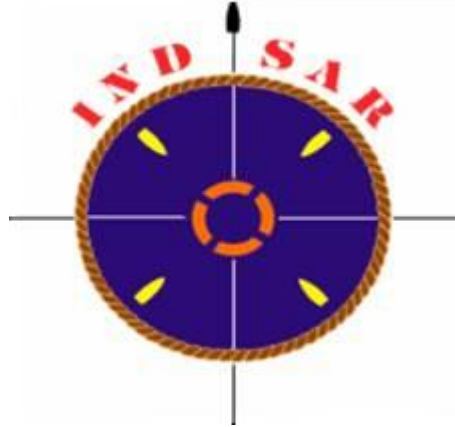


HYDROGRAPHIC NOTE		IH.102 (Revised 2012)	
For Forwarding information for Indian Charts, ENC's and Publications and reporting of ENC related issues			
Date		Ref. Number	
Name of the Ship or Sender			
Address			
Tel/FAX/E-mail address			
Observation Date		Time (UTC/IST)	
Object of Changes Observed (Tick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

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: mrcc-west@indiancoastguard.nic.in

NATION WIDE SAR TELE: 1554 (LAND LINE)

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

AFTN: VABBYXYC