



INDIAN NOTICES TO MARINERS FOR 2004

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

EDITION No. 24 DATED 15 DEC 2004

(CONTAIN NOTICES 489 TO 509)

REACH US 24 HOURS A DAY



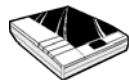
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Mariner's Obligation and A Chart maker's Plea: Observing Changes at sea proactively and reporting them promptly to the concerned charting agency, is an obligation that all mariners owe to the entire maritime community towards SOLAS. Mariners are, therefore, requested to notify the Chief Hydrographer to the Govt. of India at the following address/fax No, immediately on discovering new or suspected dangers to navigation, on observing changes/defects to navigational aids, and of short comings in Indian charts or publication. The Hydrographic Note [Form IH – 102] is a convenient form on which to notify such changes. Specimen form is attached at Section X with this notice.

**Chief Hydrographer
to the Government of India**

**National Hydrographic Office
Post Box No. 75
Dehradun 248 001
India**

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For the Indian Ocean Area
**INSIST OF INDIAN CHARTS AND
PUBLICATIONS**
(Original, Authentic and Most Up-to-date)

EXPLANATORY NOTES

Corrections to Charts and Publications The Notices in section I provide information on new Indian Charts and Publications where as section II and III contains 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°. Bearing to lights are from seaward.
- (c) Symbols referred to are those shown on the chart INT 1 (5020).
- (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 X.

Temporary and Preliminary Notices These are indicated by (T) and (P) after the Notice number, and are placed in Section III. A SI Nos. of those in force published quarterly on 1st Jan, 01 Apr, 01 Jul and 01 Oct, and their text are published in Annual Edition of Indian Notices to Mariners. These corrections are not inserted on the charts before they are issued to the users. They should be inserted in pencil, by the user, on receipt.

Source of Information A star adjacent to the number of a Notice indicates that the notice is based on original source of information.

Sailing Directions Corrections for the Sailing Directions are given in Section VI. A summary of corrections in force will be issued in Section VI of the Edition dated 1st January, 1st April, 1st July and 1st October.

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

- (a) these corrections should be incorporated as per instructions given on page 11 of the list of Lights.
- (b) Such correction notices to light of list 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.

Radio Signals The corrections in Section VIII should be cut and pasted in the appropriate volumes 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 can not 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 should be included in the forthcoming edition of N to M or the Chart/publication concerned.

Laws and Regulations While in the interest of the safety of shipping, the Hydrographic Office makes every endeavour 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 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) Where ever these differences have been ascertained, their average values are published as a cautionary Note on the chart concerned, as shifts in Latitude and Longitude values 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 & 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 danger.

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.

SECTION – I

List of charts affected by
the Notices 489 to 509 contained in this Edition

INDIAN H.O. Chart No.	Folio No.	Notice No.	ADMIRALTY Chart No.	Folio No.	Notice No.
20	1	506(P)	941A	46	504
22 (INT 752)	3	494	1312	46	504
31	5	508(T)	1353	45	500, 501
32 (INT 754)	5	508(T)	1358	45	500, 501
33	5	508(T)	2403	45	509(P)
201	2	491	2886	40	505(P)
202	2	491	3173	40	490
203 (INT 7319)	2	492	3471	46	504
211	3	496	3599	40	490, 506(P)
212	3	494	3790	40	505(P)
254	2	495	3833	45	509(P)
255 (INT 7334)	3	496	3933	45	502
256 (INT 7340)	3	494	3940	45	500
292 (INT 7021)	2	494, 495	3945	45	500, 501
293 (INT 7022)	2	494	3946	45	500, 503
313	5	508(T)	3947	45	503
315	5	508(T)	4039	46	509(P)
356	5	508(T)	4040	46	509(P)
2002 (INT 7351)	3	498, 507(P)	5502	32	509(P)
2005	2	491			
2016 (INT 7336)	3	496			
2020	3	494, 497			
2021	2	493			
2052 (INT 7350)	3	498, 507(P)			
2068	2	492, 493			
2078 (INT 7346)	3	494, 497			
2080	2	493			
3001 (INT 7402)	5	508(T)			
3012 (INT 7411)	5	499			
3028	5	508(T)			
8004	1	490, 506(P)			

SECTION – II: PERMANENT NOTICES.**INDIAN HYDROGRAPHIC CHARTS AND PUBLICATIONS*****489 (24/04)****(a) NEW PUBLICATION**Source: NHO, Dehradun
(HJ/NM/Pub)

Serial No.	Item	Date of Publication	Price
01	The Nautical Almanac - 2005	September 2004	Rs. 2370.00

(b): INDIAN NOTICES TO MARINERS – SPECIAL EDITION 2004**Page 25, Notice No.7, DISTRESS AND RESCUE AT SEA – STATUTORY DUTIES OF MASTERS OF SHIPS**Para 8, line No. 4, *replace as:*

Merchant Shipping Act 1958, Sec. 355 and Regulation 10 – Chapter V – SOLAS – 1974.

Page 35, Notice No.7, DISTRESS AND RESCUE AT SEA – SHIPS AND AIRCRAFT*Section 35 (c), Maritime Rescue Sub Centre (MRSC) and Maritime Rescue Sub Centre (MRSSC), delete MRCC Port Blair Row and replace by:*

MRCC PORT BLAIR CGRHQ(A&N)	03192 242948	03192 242948	Inmarsat C (IOR) 441908010 Inmarsat M (IOR) 641900910 E-mail pblcgrhqan@sancharnet.in pblmrccpb@sancharnet.in
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Page 53, Notice No.7, DISTRESS AND RESCUE AT SEA – APPENDIX - F

Replace the existing Tel and Fax No. of following stations as:

Agency	Tel No	Fax No
MRCC, PORT BLAIR	03192 242948	03192 242948

Indian Navy		
MOC (Mumbai)	022-22687075	022-22687486
MOC (Kochi)	0484-2662466	0484-2668257
MOC (Chennai)	044-25361289 044-25394240	044-25391389
MOC (Visakhapatnam)	0891-2760437 0891-2577240	0891-2577147
MOC (Port Blair)		03192-232785

Page 94, Notice No.14, SUBMARINE CABLES*Replace Para 1. as:*

1. Cautionary Note or the legend “Submarine Cable Area” appears on many charts, calling the attention of the mariners to the areas in which there are submarine cables.

Page 96, Notice No.16, INSTRUCTIONS REGARDING RENDERING REPORTS OF SHOALS OBTAINED BY ECHO SOUNDING

Para 2(a), line No. 2 & 3, *read mts as metres*

Page 102, WRITE-UP FOR FISHERMEN – Advice to fishermen

Line No 8, *replace* Address overleaf *as*:

Address:

The Programme Director
National Data Buoy Programme
National Institute of Ocean Technology
Velachery – Tambaram Road, Pallikaranai
Chennai – 601 302

Page 107, Notice No.20, INFORMATION ABOUT RADAR BEACONS

Replace line No. 2. *as*:

objects like light houses, light floats etc. They operate in ‘I’ band marine radar (9300 to 9500 MHz) and

Page 125 & 126, Notice No.26, NATIONAL CLAIMS TO MARITIME JURISDICTION

Replace text after, Limit of dependent territories have not been listed unless they differ from those of the metropolitan state *as*:

1. Employ straight baseline systems along all or a part of the coast.
 2. Claims archipelago status.
 3. Claims waters limits defined by geographic co-ordinates not related to distance from the coastline.
 4. Claims straight baseline system between points along the 18 metre isobath.
 5. Claims all waters south of 32° 30'N. in the Gulf of Sirte as internal waters.
 6. Claims 3nm in Korea Strait.
 7. Claims 6nm in Aegean Sea.
 8. Fishery limit extends to 50 metres isobath off the Gulf of Gabes.
 9. Special claim extends limit to include the deep water anchorage west of Helgoland.
 10. 150nm in west with a rhumb line between 52° 30'.00S, 63° 19'.25W and 54° 08'.68S, 60° 00'.00W.
 11. Certain islands in the Torres Strait retain 3nm territorial sea limit.
 12. Freedom to navigation and over flight is not curtailed beyond 12nm.
 13. Jurisdiction claimed to the limit of the pearl and sedentary fishery grounds.
 14. Bogskar has a 3nm territorial sea limit.
 15. Does not claim an EEZ in the Mediterranean, France only claim a 12nm fishery limit and Spain a fishery limit to median lines.
 16. Reduced to 3nm in the Torres Strait area.
 17. Reduced to 3nm in the Gulf of Honduras.
 18. Reduced to 3nm off Gaza.
 19. Only claims an EEZ in the Black Sea.
 20. Republic of Serbia and Montenegro.
 21. TS limit reduced in parts of the Gulf of Finland to preserve a 6nm wide high seas corridor.
 22. To maritime boundaries in areas exceeding 12nm.
 23. Reduced to 32nm west of the longitude of Ras Teres.
- * Indicates a state which has ratified or acceded to the U.N. Convention of the Law of the Sea. Which came into force on the 16 November 1994.
- ** Indicate a state which require prior permission or notification for entry of foreign warships into territorial sea.

(c): INDIAN NOTICES TO MARINERS – ANNUAL EDITION 2004



Notice No.29, Replace the details of following charts as below:

Chart No.	Title	Year of Publication/ New Edition	Notice to Mariners Numbers
214	Vengurla to Betul	2002	2002-319-400-453-.2003-146.2004-241
361	South Hatia Island to Naaf River	1992	1994-364.1995-58.1996-71-248.1997-41-226-465.1998-36-134-319-454.1999-228-275-330.2000-264.2001-415.2002-169-456-462-472.2004-228-312-402.
2031	Okha Harbour	2002	2003-51-143-168.2004-129-329.
2046	Vengurla Anchorage; Redi Anchorage	1997	Nil
4035	Casurina Bay, Campbell Bay	2003	2003-255-324.2004-379
4037	Chowra I. to Tilanchang I.	2003	2003-255

490 (24/04) IRAN – Eastern entrance to Khuran (Clarence Strait) – Jazireh-ye Qeshm – Koveh North-eastwards – Buoy.

Source: B.A. Notice 5303/04
(HJ/1132/73)


Chart 8004 [previous update 295/04]

Insert	 Fl(3)	(a)	26° 57'.00N., 56° 18'.04E.
Delete	 Fl.R.12s		27° 01'.00N., 56° 08'.44E.
	red pillar light-buoy, Fl(3)15s, close NE of:	(a)	above

B.A. Chart 3173 [previous update 126/04]

Amend	light-buoy to, Fl(3)10s		26° 57'.08N., 56° 18'.09E.
Delete	 Fl.R.12s(non-IALA)		27° 01'.10N., 56° 08'.38E.

B.A. Chart 3599 [previous update 388/03]

Amend	light-buoy to, Fl(3)10s		26° 57'.08N., 56° 18'.09E.
Delete	 Fl.R.12s(non-IALA)		27° 01'.10N., 56° 08'.38E.

***491 (24/04) INDIA – West Coast – Approaches to Godia Creek – Depth. Height.**

Source: NHO, Dehradun

(HJ/1131/31)

Chart 201 [previous update 360/04]Substitute depth 9₆ for 9₅ 23° 16'.08N., 68° 19'.73E.**Chart 202** [previous update 374/04]Substitute depth 9₆ for 9₅ 23° 16'.08N., 68° 19'.73E.**Chart 2005** [previous update 271/02]Insert depth 7₂ 23° 11'.15N., 68° 32'.35E.

Substitute height (7) for (17) 23° 18'.96N., 68° 38'.94E.

Delete depth 7₄ 23° 11'.27N., 68° 32'.20E.depth 7₃ 23° 10'.88N., 68° 32'.20E.**492 (24/04) INDIA – West Coast – Gulf of Kachchh – Mandvi – Light.**

Light List Vol. F, 0357

Source: B.A. Notice 5447/04

(HJ/1131/20)

Chart 203 (INT 7319) [previous update 374/04]

Amend light to, Fl(3)30s36m19M 22° 49'.6N., 69° 20'.9E.

Chart 2068 [previous update 329/04]

Amend light to, Fl(3)30s36m19M 22° 49'.7N., 69° 20'.9E.

***493 (24/04) INDIA – West Coast – Gulf of Kachchh – Mundra Port – Pilot Boarding Place. Anchorage area. Legend.**

Source: Gujarat Maritime Board

(HJ/1131/20)

Chart 2021 [previous update 340/04]Insert  22° 42'.53N., 69° 42'.33E.

circular limit of anchorage area, radius 1.2 NM, -- ⚓ --,


centred on: 22° 41'.00N., 69° 43'.45E.

Delete existing anchorage area, radius 1.2 NM, centred on: 22° 41'.90N., 69° 39'.47E.

 22° 41'.89N., 69° 39'.81E. 22° 42'.88N., 69° 40'.68E.**Chart 2068** [previous update 492/04]Insert  22° 42'.53N., 69° 42'.33E.

circular limit of anchorage area, radius 1.2 NM, -- ⚓ --,

centred on: 22° 41'.00N., 69° 43'.45E.



Chart 2080 [previous update 306/03]Insert  22° 42'.53N., 69° 42'.33E.

circular limit of anchorage area, radius 1.2 NM, -- ⚓ --,

centred on: 22° 41'.00N., 69° 43'.45E.

494 (24/04) INDIA – West Coast – Arabian Sea – Data buoys.

Source: B.A. Notice 5417/04

*(HJ/1130/77)***Chart 22 (INT 752)** [*previous update 311/04*]Delete  *Fl(5)15s4M ODAS DS1* 15° 33'.0N., 69° 10'.0E. *Fl(2)5M ODAS SW2* 18° 35'.8N., 71° 02'.5E.**Chart 212** [*previous update 465/04*]Delete  *Fl(2)6s ODAS SW2* 17° 00'.97N., 73° 29'.22E.**Chart 256 (INT 7340)** [*previous update 399/04*]Delete  *Fl(2)6s ODAS SW2* 17° 00'.97N., 73° 29'.22E.**Chart 292 (INT 7021)** [*previous update 397/04*]Delete  *Q(5)20s ODAS SW2* 18° 35'.4N., 71° 03'.0E.**Chart 293 (INT 7022)** [*previous update 311/04*]Delete  *Fl(5)15s4M ODAS SW2* 17° 00'.0N., 72° 29'.6E.**Chart 2020** [*previous update 400/04*]Delete  *Fl(5)15s4M SW3* 15° 24'.30N., 73° 45'.30E.**Chart 2078 (INT 7346)** [*previous update 400/04*]Delete  *Fl(5)15s4M ODAS SW3* 15° 24'.30N., 73° 45'.30E.**495 (24/04) INDIA – West Coast – Gulf of Khambhat Southwards – Umargam – Radar beacon.**

LRS Vol 2, 7898.5

Source: Nav VIII 684/04

*(HJ/1130/07)***Chart 254** [*previous update 346/04*]

Insert radar beacon, Racon (M) at light 20° 11'.7N., 72° 45'.0E.

Chart 292 (INT 7021) [*previous update 494/04*]

Insert radar beacon, Racon (M) at light 20° 11'.7N., 72° 45'.0E.

***496 (24/04) INDIA – West Coast – Inner Approach to Mumbai – Wreck.**

Source: Nav VIII 748/04

*(HJ/1130/87)***Chart 211** [*previous update 310/04*]Insert  18° 49'.7N., 72° 47'.1E.**Chart 255 (INT 7334)** [*previous update 361/04*]Insert  18° 49'.7N., 72° 47'.1E.**Chart 2016 (INT 7336)** [*previous update 310/04*]Insert  18° 49'.7N., 72° 47'.1E.

497 (24/04) INDIA – West Coast – Port of Mormugao – Jetty. Legend.



Source: Mormugao Port Trust

(HJ/1130/56)

Chart 2020 [previous update 494/04]

Insert	jetty, firm line, joining	(a)	15° 24'.80N., 73° 47'.66E. (shore)
		(b)	15° 24'.88N., 73° 47'.72E.
		(c)	15° 24'.73N., 73° 47'.92E.
		(d)	15° 24'.67N., 73° 47'.88E. (shore)
	legend, “ <i>under reclamation</i> ”, within:		(a) – (d) above
Delete	all hydrographic details with in		(a) – (d) above

Chart 2078 (INT 7346) [previous update 494/04]

Insert	jetty, firm line, joining	(a)	15° 24'.80N., 73° 47'.66E. (shore)
		(b)	15° 24'.88N., 73° 47'.72E.
		(c)	15° 24'.73N., 73° 47'.92E.
		(d)	15° 24'.67N., 73° 47'.88E. (shore)
	legend, “ <i>under reclamation</i> ”, within:		(a) – (d) above
	legend, 		15° 24'.84N., 73° 47'.75E.
	legend, 		15° 24'.76N., 73° 47'.85E.
Delete	all hydrographic details along with legend, within:		(a) – (d) above

***498 (24/04) INDIA – West Coast – Ports of New Mangalore and Mangalore – Wreck.**

Source: Hydrographic Note, INS Sutlej

(HJ/1130/25)

Chart 2002 (INT 7351) [previous update 259/04]

Insert			12° 53'.20N., 74° 48'.77E.
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Chart 2052 (INT 7350) [previous update 241/04]

Insert			12° 53'.20N., 74° 48'.77E.
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499 (24/04) INDIA – East Coast – Visakhapatnam Harbour – Legend.

Source: Visakhapatnam Port Trust

(HJ/1029/76)

Chart 3012 (INT 7411) [previous update 437/04]

Insert	legend, “ <i>reclaimed area</i> ”, centred on:		17° 41'.59N., 83° 18'.19E.
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500 (24/04) MALACCA STRAIT – Peninsular Malaysia, west Coast – Permatang Sedepa (One Fathom Bank) North-westwards – Wrecks.

Source: B.A. Notice 5352/04

(HJ/927/29)

Note: B.A. Chart 3940: Certain Copies Only

B.A. Chart 1353 [previous update 471/04]

Insert  Wk (a) 2° 56'.6N., 100° 50'.6E.

Delete , adjacent to: (a) above

B.A. Chart 1358 [previous update 471/04]

Insert  Wk (a) 2° 56'.6N., 100° 50'.6E.

Delete , adjacent to: (a) above

B.A. Chart 3940 [previous update 125/03]

Insert  Wk (a) 2° 56'.55N., 100° 50'.55E.

Delete  PA, close SE of: (a) above

B.A. Chart 3945 [previous update 471/04]

Insert  Wk (a) 2° 56'.55N., 100° 50'.55E.

Delete  PA, adjacent to: (a) above

B.A. Chart 3946 [previous update 473/04]

Insert  Wk (a) 2° 56'.55N., 100° 50'.55E.

Delete  PA, adjacent to: (a) above

501 (24/04) MALACCA STRAIT – Peninsular Malaysia, West Coast – Permatang Angsa Westwards – Depth.

Source: B.A. Notice 5353/04

(HJ/927/39)

B.A. Chart 1353 [previous update 500/04]

Insert depth 9₄ enclosed by 10m contour 3° 13'.2N., 100° 52'.1E.

B.A. Chart 1358 [previous update 500/04]

Insert depth 9₄ enclosed by 10m contour 3° 13'.2N., 100° 52'.1E.

B.A. Chart 3945 [previous update 500/04]

Insert depth 9₄ enclosed by 10m contour 3° 13'.22N., 100° 52'.12E.

502 (24/04) INDONESIA – Sumatera – East Coast – Selat Bengkalis – Buoy.

Source: B.A. Notice 5457/04

(HJ/927/18)

B.A. Chart 3933 [previous update 316/04]

Substitute  Fl.G.7s No1 for  No 1 1° 45'.69N., 101° 51'.09E.

503 (24/04) MALAYSIA – Peninsular Malaysia, West Coast – Melaka – Water Islands – Light.

Light List Vol F, 1642

Source: B.A. Notice 5494/04

*(HJ/927/27)***B.A. Chart 3946** [*previous update 500/04*]

Insert ★ Fl.G.5s10m8M 2° 09'.2N., 102° 20'.2E.

B.A. Chart 3947 [*previous update 442/04*]

Insert ★ Fl.G.5s10m8M 2° 09'.2N., 102° 20'.2E.

504 (24/04) INDONESIA – Sumatera – East Coast – Pulau Bangka, North West Coast – T.Ular – Light.

Light List Vol K, 1000

Source: B.A. Notice 5306/04

*(HJ/827/84)***B.A. Chart 941A** [*previous update 446/04*]

Amend light to, Fl(2)30M 1° 57'.5S., 105° 07'.5E.

B.A. Chart 1312 [*previous update 422/04*]

Amend light to, Fl(2)13.5s30M 1° 57'.5S., 105° 07'.5E.

B.A. Chart 3471 [*previous update 445/04*]

Amend light to, Fl(2)13.5s44m30M 1° 57'.55S., 105° 07'.50E.

SECTION – III: TEMPORARY AND PRELIMINARY NOTICES**505 (P) (24/04) ARABIA – Bahrain Southwards – Dawhat Salwa – Beacons. Buoyage. Depths. Lights.**

Source: B.A. Notice 4761(P)/04.

(HJ/1132/69)

1. There are extensive changes to charted detail off the South-west and South-east coasts of Bahrain and in Dawhat Salwa.
2. mariners are advised to proceed with extreme caution when navigating in Bahraini waters S of latitude 26° 00'.0N as changes to depths and aids to navigation exist which are not charted.
3. Charts published by the Survey Directorate, Ministry of Housing, Municipalities and Environment, State of Bahrain should be consulted when navigating in this area.
4. Former Notice 335(P)/00 is cancelled.

Charts affected: B.A. 2886 - 3790**506 (P) (24/04) IRAN – Khuran (Clarence Strait) – Jetty. Buoyage. Depths. Drying heights. Pilot boarding place. Lights. Mooring buoys.**

Source: B.A. Notice 5302(P)/04.

(HJ/1132/73)

1. A new jetty (600m long) has been constructed at Ra's-e Koveh (26° 57'.0N., 55° 59'.1E.).
2. The approach to this jetty is marked by fourteen channel light-buoys, from a new safe-water light-buoy established in position 27° 02'.72N., 56° 09'.56E. The approach channel follows a course of 248° from the safe water light-buoy to position 26° 59'.33N., 56° 00'.36E., then 210° to the jetty.
3. The approach channel has been recently surveyed and the following significant shoal depths exist:

16 ₄ m	27° 02'.54N., 56° 09'.46E.
18 ₂ m	27° 01'.70N., 56° 07'.28E.
17 ₈ m	27° 01'.95N., 56° 06'.80E.
13 ₄ m	27° 00'.73N., 56° 04'.03E.
10 ₇ m	26° 58'.52N., 55° 59'.76E.
14 ₅ m	26° 57'.50N., 55° 58'.79E.
4. The Shahid Rajai (small vessels) pilot boarding place has moved from position 27° 04'.3N., 56° 09'.6E. to position 27° 04'.18N., 56° 09'.3E.
5. Mooring buoys have been established in the following positions:

27° 05'.38N., 56° 04'.18E.
27° 05'.39N., 56° 04'.14E.
6. The characteristic of light in Bandar-e Shahid Rajai has changed as follows:

Fl(3)G. 10s	27° 05'.53N., 56° 04'.08E.
-------------	----------------------------
7. Depths and drying heights less than charted exist in the western part of Khuran (Clarence Strait). The most significant of these are as follows:

drying height $\underline{0}_2$ m SD	26° 43'.8N., 55° 19'.4E.
drying height $\underline{0}_2$ m SD	26° 43'.6N., 55° 23'.7E.
drying height $\underline{0}_2$ m SD	26° 42'.7N., 55° 23'.6E.
3 ₅ m SD	26° 56'.4N., 55° 41'.9E.
4 ₃ m SD	26° 57'.5N., 55° 46'.2E.
8. An overhead power cable extends between positions 26° 58'.4N., 55° 44'.7E. and 26° 57'.0N., 55° 44'.9E. It is supported in the centre by a tower in position 26° 57'.8N., 55° 44'.8E.
9. Former Notice 136(P)/00 is cancelled.

Charts affected: 20 – 8004 – B.A. 3599***507 (P) (24/04) INDIA – West Coast – Port of New Mangalore and Mangalore – Depth.**

Source: Hydrographic Note, INS Sutlej.

(HJ/1030/25)

1. It is reported that lesser depth of 1.3m observed at approx. position 12° 53'.68N., 74° 48'.38E. due to water discharge through pipeline.
2. Dangerous to navigation. Mariners are advised to exercise caution while navigating in this area.

Charts affected: 2002 (INT 7351) – 2052 (INT 7350)

***508 (T) (24/04) INDIA – West and East Coast – Off Ratnagiri, Chennai, Ennore, Ramyapatnam, Machalipatnam, Paradip – Data Buoys.**

Source: NIOT, Chennai
(HJ/1029/39)

1. Following data collecting light buoys will be on station in the position given below until further notice.

<u>Buoy</u>	<u>Lat</u>	<u>Long</u>	<u>Colour</u>	<u>Light</u>
SW6	13° 11'.12N	080° 23'.26E	Yellow	Fl(2)5s4M
TB1	13° 10'.92N	080° 23'.28E	Yellow	Fl(2)5s4M
DS5	13° 59'.45N	083° 16'.28E	Yellow	Fl 4s4M
DS3	12° 09'.91N	090° 47'.78E	Yellow	Fl 4s4M
DS4	18° 21'.70N	087° 33'.58E	Yellow	Fl 4s4M
MB11	15° 02'.01N	087° 35'.10E	Yellow	Fl 4s4M

2. Mariners are advised to exercise caution and not to anchor or trawl in the operation 1000m of moored data buoy.
3. Former INM 305(T)/04 is cancelled.

Charts affected: 31 – 32 (INT 754) – 33 – 313 -315 -356 -3001 (INT 7402) - 3028

509 (P) (24/04) SINGAPORE STRAIT – Pulau Nipa – Anchorage area.

Source: B.A. Notice 5328(P)/04.

(HJ/927/16)

1. The Pulau Nipa Anchorage Area (PNAA) will be established in the separation zone of the Singapore Strait Traffic Separation Scheme on the 1 January 2005.
2. The limits of PNAA are as follows:
1° 09'.40N., 103° 36'.60E.
1° 09'.10N., 103° 38'.60E.
1° 05'.50N., 103° 40'.80E.
1° 04'.50N., 103° 38'.90E.
1° 06'.80N., 103° 35'.00E.
3. For working details of PNAA see Admiralty Sailing Directions.

Charts affected: B.A. 2403 – 3833 – 4039 – 4040 - 5502

SECTION – IV: MARINE INFORMATION**Ship Reporting System (INDSAR)**

A ship reporting system INDSAR has been activated w.e.f 01 Feb 2003 in the Indian Search and Rescue Region (ISRR), for timely position reporting which is critical for quick response and ensuring safety of life at sea. Mariners in the ISR Region are requested to pass relevant rescue information to the Maritime Rescue Coordinating Centre (MRCC) Mumbai on INMARSAT Code 43, or using any of the following Contact details:-

MRCC Mumbai contact details

Tel : 022-24376133
Fax : 022-24333727
INMARSAT : 00583 441 907 210
E-mail : indsar@vsnl.net

SECTION – V: NAVIGATIONAL WARNINGS IN FORCE

1. For details of NAVAREA limits and organization/coordination, please refer to Notice No. 12 of the Special edition of Indian Notice to Mariners – 2004.
2. NAVAREA Warnings in force :- The serial numbers of all the NAVAREAS warnings in force as on 15 Dec 2004, covering the entire world are listed below against the respective NAVAREA

<u>NAVAREA No.</u>	<u>Location</u>	<u>Last NAVAREA Sl. received</u>	
I	N.E. Atlantic	416	2001 series: 510 2003 series: 417. 2004 series: 220 222 242 255 317 349 356 367 375 376 383 385 392 394 402 404 411 413 414 415 416.
II	E. Atlantic	Nil	2002 series: 472 497.
III	Mediterranean	617	2004 series: 560 561 569 584 587 594 596 597 602 603 610 612 613 614 617.
IV	N.W. Atlantic	351	2003 series: 108. 2004 series: 128 198 243 323 328 329 333 342 346 350 351.
V	W. Atlantic	Nil	2004 series: 606
VI	S.W. Atlantic	Nil	Nil.
VII	S.E. Atlantic	147	2004 Series: 131 139.
VIII	Indian Ocean	760	2004 series: 630 644 645 647 656 659 678 684 686 687 692 696 697 698 702 703 711 712 717 718 721 722 723 730 731 737 738 739 740 741 745 748 752 753 754 755 756 757 758 759.
IX	Persian Gulf, Red Sea, NW Arabian Sea	211	2001 series : 312. 2003 series : 023 120 138 177 236 237 239 273. 2004 series : 025 036 070 079 088 107 109 134 135 151 156 167 184 187 194 196 206 207 224 231 232 233 235 239 243 248 249 250 251 254 255.
X	Australia, New Guinea	010	2004 series: 007 009.
XI	Malacca Strait, China Sea, N. Pacific	0545	1996 series: 0925. 1998 series: 0655 1999 series: 0053 0153 0187 0310 0613. 2000 series: 0555 0677 0687. 2001 series: 0182 0775 0863. 2002 series: 0839. 2003 series: 0106 0273 0303 0304 0566 0568 2004 series: 0026 0037 0083 0091 0246 0267 0271 0272 0283 0285 0321 0338 0339 0361 0366 0380 0402 0442 0473 0474 0484 0498 0499 0501 0502 0503 0504 0505 0506 0507

			0526 0530 0531 0532 0536 0537 0538 0539 0540 0541 0542 0543 0544 0545.
XII	N.E. Pacific	267	2004 series: 186 253 258 265 266 267.
XIII	N.W. Pacific	Nil	Nil
XIV	S.W. Pacific	074	2004 series: 052 063 073.
XV	S.E. Pacific	Nil	Nil
XVI	E. Pacific	Nil	1998 series: 151 2004 series: 166
Hydropacs	Pacific, Indian Ocean	1661	2001 series: 1976. 2002 series: 205 206. 2003 series: 207 506 993 1041 1330 1395 1699 1911 1982 2265. 2004 series: 23 278 455 694 727 754 763 778 795 801 890 891 904 932 948 967 981 988 996 1000 1011 1025 1033 1049 1050 1052 1066 1076 1081 1082 1092 1112 1115 1122 1123 1124 1138 1151 1152 1153 1155 1156 1157 1215 1238 1239 1254 1271 1273 1295 1305 1313 1324 1349 1363 1365 1390 1399 1400 1409 1453 1455 1458 1468 1471 1472 1475 1478 1490 1491 1495 1497 1507 1508 1509 1525 1529 1533 1538 1539 1540 1541 1542 1547 1548 1549 1550 1552 1553 1559 1563 1565 1569 1575 1576 1589 1592 1597 1598 1600 1601 1602 1603 1604 1606 1617 1618 1619 1621 1628 1630 1633 1634 1635 1636 1639 1640 1641 1642 1644 1647 1648 1649 1651 1652 1653 1654 1655 1656 1657 1658 1660 1661.
Hydrolants	Atlantic, Mediterranean	1703	2002 series: 245 246 . 2003 series: 604 1422 1472 2203 2406 2407 2408 2409 2410 2413 2414 2416 2418 2419 2420. 2004 series: 224 272 631 649 650 668 850 1019 1033 1084 1104 1136 1162 1214 1219 1235 1256 1279 1286 1382 1389 1404 1430 1454 1474 1504 1505 1510 1513 1525 1556 1569 1581 1586 1591 1598 1600 1607 1613 1618 1624 1627 1642 1643 1646 1651 1654 1659 1661 1665 1669 1670 1673 1677 1682 1683 1684 1686 1689 1690 1693 1694 1695 1696 1697 1700 1701 1702 1703.

SECTION – VI: CORRECTIONS TO SAILING DIRECTION

NIL

SECTION – VII: CORRECTIONS TO INDIAN LIST OF LIGHTS

<u>No.</u>	<u>Name & Location</u>	<u>Position (Lat-Long)</u>	<u>Charact- eristics</u>	<u>Ht. mts.</u>	<u>Range miles</u>	<u>Structure & Height (mts)</u>	<u>Remarks</u>
D 7091.2	-Jetee Est. Head	21 03.3 55 13.4	Oc(2)WR 6s	10	W 7 R 5	White structure, red top 8	<i>ec 1, lt 1, ec 1, lt 3.</i> W135°144'(9°), R144°- 135°(351°). Reduced range and red sector only shown during works in progress (T) 2004 *
D 7309	- Breakwater. Head	12 47.4 44 58.2	LFl G 5s *	...	10	Green GRP tower	<i>fl 2.</i> LFl G 10s (T) 2004 *
E 6035	-Gubal Island. Bluff Point	27 40.8 33 48.4	Fl W 5s	24	15	White GRP tower 10	Racon. TE/TR 2004 *
E 6036	Siyul Kebira Island	27 33.6 33 52.7	Fl(4)W 20s	15	15	White GRP tower, black stripe 10	TE 2004 *
F 0384	Kalubhar Tapu	22 26.3 69 35.2	Fl(3)W 15s	27	12	White round stone tower 20	<i>fl 0.75, ec 2.25, fl 0.75, ec 2.25, fl 0.75, ec 8.25</i> TE 2004 *
F 0489	Umargam	20 11.7 72 45.0	Fl W 15s	35	19	White concrete tower, red bands 30	<i>fl 1.3.</i> Storm Signals. Racon (M) *
F 0557.6	Chaul Kadu Reefs	18 35.8 72 50.9	Fl R 3s	17	4	White round masonry tower 17	<i>fl 0.3</i> *
F 0651	-Tippu Sultan Gudda (Aga Light)	13 39.6 74 39.5	Fl(2)W 10s	18	8	6-side column round hut 9	<i>fl 0.5, ec 1, fl 0.5, ec 8.</i> Shown 16.9-15/5 *
F 0952.8	<i>Remove from list</i>						
F 0964	Vakalapudi	17 00.8 82 17.1	Fl(3)W 15s	28	20	White round masonry tower, red bands 23	Storm signals. On trial *
F 1054	Kutubdia Island	21 51.80 91 50.72 *	Fl(2)W 10s	39	20	Red and white □ on metal framework tower	Racon. TE 2004 *
F 1205	-North Point	11 42.2 92 45.4	Fl(2)W 12s	72	20	White round metal tower, red diagonal stripes 35	<i>fl 0.3, ec 2.7, fl 0.3, ec 8.7</i> Racon (K) *
F 1642	Kuala Umbai	2 09.16 102 20.11 *	Fl G 5s *	10 *	8 *	Green △ on white concrete tower *	*

No.	Name & Location	Position (Lat-Long)	Charact- eristics	Ht. mts.	Range miles	Structure & Height (mts)	Remarks
F 1741	-	1 24.18 103 58.25	F R	Tower 58	*
*	*	*	*	*	*	*	*
F 1756	<i>Remove from List</i>						

SECTION – VIII: CORRECTION TO LIST OF RADIO SIGNALS**VOL. 1, 1987***(Last correction: Edition No. 17 dated 01 Sep 2004)***NIL****VOL. 2, 1995***(Last correction: Edition No.19 dated 01 Oct 2004)*

Kavarathi Lt Racon

10° 33'.7N., 72° 38'.9E

7904

Not Functioning

(DLL, Gandhinagar)

(24/04)

B.A. VOL. 3 Part 1, NP 283(1), 2002/03*(Last correction: Edition No. 19 dated 01 Oct 2003)***NIL****VOL. 5, 1997/98***(Last correction: Edition No. 20 dated 15 Oct 2004)***NIL****VOL. 6, 1987***(Last correction: Edition No. 18 dated 15 Sep 2003)***NIL****B.A. VOL. 7, 1997/98-PART 2***(Last correction: Edition No. 16 dated 15 Aug 2000)***NIL****VOL. 8, 1999***(Last correction: Edition No. 19 dated 01 Oct 2004)***NIL**

SECTION – IX: PLOTTING OF GPS POSITIONS IN INDIAN CHARTS

All mariners are advised to exercise extreme caution while using the Global Positioning System positions in WGS 84 datum on the Indian navigational charts produced in Everest datum. The variation in these parameters is considerable along the Indian coast and in Andaman & Nicobar and Lakshadweep islands (300 to 800 metres variations). Mariners are also advised to apply datum shift parameters (if available) on the Indian navigational charts before using Global Positioning System positions on Indian charts. These shift parameters are specified on the charts where observed, at a suitable position under legend note. Mariners are advised to use alternate methods of fixing while operating in restricted waters and in vicinity of dangers.

The Chief Hydrographer to the Govt. of India shall not be responsible for any marine accidents arising as a result of usage of GPS positions in WGS 84 datum in Indian navigational charts in Everest datum without the application of Datum Transformation Parameters/corrections where available or listed in the charts.

SECTION – X: REPORTING OF NAVIGATIONAL DANGERS

Instructions for raising Hydrographic Note (Form IH 102)

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,
Post Box No. 75, Dehradun - 248 001
(UTTARANCHAL), INDIA
e-mail: - nho@sancharnet.in
Fax No.: (0135) 2748373
WEB: www.hydrobharat.org

Instructions for filling up Form IH 102 (Overleaf)

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. When a position is defined by bearings (true or magnetic to be specified) more than two bearings should be used in order to provide a check. Distances observed by Radar should be corrected for index errors. Latitude and Longitude obtained from GPS / DGPS should specify the datum (WGS 84 or other). A copy / tracing from the largest scale chart may be used for forwarding details, with the corrections and additions being shown thereon in red.

Depth Reporting

4. When soundings are obtained using Echo Sounders, the echo-gram should be duly annotated with date, time, position and depth, etc., before enclosing it with the Form IH 102. It is important to state whether 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 applied where necessary. The make, name and type of echo sounder should also be given. Care should be taken to set the echo sounder to the largest scale / phase, so as to obtain maximum details of echo of the feature. Efforts should be made to identify and negate false echoes if any.

5. Reports, which cannot be confirmed or are lacking in certain details should not be withheld. Limitations or shortcomings should be duly notified in the form.

6. Reports on shoal soundings, uncharted dangers and navigational aids out of order should be reported through fastest available means at the mariner's discretion, and also be made by radio to the nearest coast radio station. The draught of modern tankers is such that any uncharted depth under 50 metres should be of sufficient importance to justify a radio message.

7. Port information should be forwarded on form IH 102a together with IH 102. Form 102a contains the information required for Sailing Direction and should be used as an *aide memoir*. Where there is insufficient space on the form, additional sheet should be used.

Please Note: - The receipt of all Hydrographic Notes will be duly acknowledged by the Hydrographic Office. Normally, the sender's ship or name is quoted as the source when the Notices to Mariners reporting the change is issued, unless the information is received through a foreign Notices to Mariners. Further communication from the Hydrographic Office to the sender of the hydrographic note will only be necessary to verify unusual features or abnormal values reported.

I.H. 102a (Revised 2003)

HYDROGRAPHIC NOTE FOR PORT INFORMATION

(For Reporting Changes to Port Information)

(To accompanying Form I.H. 102)

Name and address of ship / sender:

_____ **Ref No.:** _____
 _____ **Date :** _____

Fax No.: _____, **E-mail:** _____

1.	a) NAME OF THE PORT : b) Location : Lat: , Long: c) Listing in Guide to Port Entry: Yes/No. Sl. No.:	
2.	NAME AND ADDRESS OF PORT AUTHORITIES a) Name b) Address c) Phone d) Fax e) E-mail	
3.	GENERAL REMARKS a) Principal activities and trade b) Latest population figures and date c) Number of ships and tonnage handled per year d) Maximum size and draught of vessels handled. e) Copy of Port Handbook <i>if available.</i>	
4.	ANCHORAGES a) Type / Purpose b) Minimum Depth at anchorage c) Shelter afforded d) Holding ground e) Recommended pilotage to the anchorage	
5.	PILOTAGE a) Authority for requests. b) Embarkation position c) Regulations d) Documents to be provided	
6.	DIRECTIONS a) Entry and berthing information. b) Tides (Height) c) Tidal Streams. d) Navigational aids.	
7.	POLLUTION CONTROL a) Local regulations in force (if any)	

<p>8. TUGS</p> <ul style="list-style-type: none"> a) Number available b) Max. hp. c) Requesting authority d) Availability times e) Communication with Tugs f) Hiring Charges 	
<p>9. BERTHING AND WHARVES</p> <ul style="list-style-type: none"> a) Number of berths available b) Length, c) Depth alongside d) Facilities available. e) Procedures for requesting berthing and hiring charges 	
<p>10. CARGO HANDLING</p> <ul style="list-style-type: none"> a) Containers b) Lighters c) Roll on/ roll off, etc. 	
<p>11. CRANES</p> <ul style="list-style-type: none"> a) Brief details and max. capacity. b) Container handling facilities 	
<p>12. BRIDGES</p> <p>Vertical clearances</p>	
<p>13. REPAIRS</p> <ul style="list-style-type: none"> a) Hull, machinery and underwater b) Ship and boat yards c) Docking or Slipway facilities (Give size of vessels handled or dimensions) d) Hards and ramps. e) Divers / Diving Assistance 	
<p>14. RESCUE AND DISTRESS</p> <p>Salvage, lifeboat, coastguard, etc.</p>	
<p>15. SUPPLIES</p> <ul style="list-style-type: none"> a) Fuel with type and quantities available. b) Freshwater and rate of supply. c) Provisions d) Chart Agents 	
<p>16. SERVICES</p> <ul style="list-style-type: none"> a) Radio Telegrams/Telephony b) Medical. c) Quarantine d) Consuls. e) Ship chandlery and stevedores, f) Compass adjustment, g) Tank cleaning, h) Hull painting. j) Diving and underwater examination k) Police / Ambulance / Fire l) Navigational warnings and weather bulletins m) Garbage Disposal n) Telephones p) Waste oil disposal 	
<p>17. COMMUNICATIONS</p> <ul style="list-style-type: none"> a) Road, rail and air services available b) Nearest airport or airfield. c) Port Radio and Information service (Frequencies and operating hours) 	

18. PORT AUTHORITY Designation, address and telephone number.	
19. SMALL CRAFT FACILITIES a) Information and facilities for small craft /yachts visiting the port. b) Yacht clubs, berths etc.	
20. SHORE LEAVE	
21. CLUBS / RECREATION / INFORMATION KIOSKS – Their location.	
22. VIEWS (duly annotated) Photographs (where permitted) of the approaches, leading marks, the entrance to the harbour, etc. (Picture postcards may also be useful).	

Signature of Observer/Reporter.....

To

The Chief Hydrographer to the Government of India
National Hydrographic Office
107 A, Rajpur Road
PO Box No. 75,
Dehradun- 248001
(UTTARANCHAL), INDIA

E Mail : nho@sancharnet.com
Fax No.: 91- 0135- 2748373
WEB: www.hydrobharat.org

I.H. 102 (Revised 2003)

HYDROGRAPHIC NOTE

(For Reporting Navigational Dangers/ Changes observed at Sea by Mariners)

Date :
Ref. No:

Details of the Sender / Originator

1. **Name of ship or sender:**.....
2. **Address of sender:**
.....
.....
e-mail; Fax No.; Tel. No.:.....
.....
3. **General Locality:**
4. **Chart / Publication Affected:**
 - a) Chart published by INHO / UKHO / other (Specify):
 - b) Chart No.: Edition Date:
 - c) Latest Edition of Indian N to M held:.....

Details of Changes / Dangers Observed

- | 5. Object of Change: | Date/Time of
observation | Charted | Observed | Position/Area |
|---|-------------------------------------|----------------|-----------------|----------------------|
| (a) Bathymetry: | | | | |
| (i) Depth - | | | | |
| (ii) Depth Contour - | | | | |
| (iii) Channel Depth - | | | | |
| (b) Navigational Dangers: | | | | |
| (i) New Shoals..... | | | | |
| (ii) New Rocks..... | | | | |
| (iii) New Reefs..... | | | | |
| (iv) New Wrecks..... | | | | |
| (v) New Nav-aid (Specify) - | | | | |
| (c) Casualties to existing Nav-Aids: | | | | |
| (i) Buoys..... | | | | |
| (ii) Lights..... | | | | |
| (iii) Fog signals..... | | | | |
| (iv) Racons..... | | | | |
| (v) Transit Marks | | | | |
| (vi) Leading Lines..... | | | | |
| (vii) Clearance bearings..... | | | | |
| (d) Designated Areas: | | | | |
| (i) Exercise Areas | | | | |
| (ii) Prohibited Areas | | | | |
| (iii) Pilot Station | | | | |
| (iv) Anchorage | | | | |
| (v) Foul Ground | | | | |

- (e) Port Information:
- (i) Berthing
 - (ii) Cranage
 - (iii) Tugs
 - (iv) Dry Docks
 - (v) Repair Facilities
 - (vi) Pilotage
 - (vii) Fuel
 - (viii) Water
 - (ix) Any other (Specify) :.....
- (f) Environmental Data:
- (i) Met information
 - (ii) Tides and Tidal Stream
 - (iii) Pollutants
 - (iv) Effluents.....
 - (v) Marine Life / Habitats
- (g) Other changes, if any, with Details:

6. **Information on the Positions of Danger / Changes Reported above:**

- (a) Positioning System used:
- (b) Datum (WGS/Everest/ Local (Specify) :
- (c) Accompanying plots / photographs if any:

7. **Information on the Soundings / Depths Reported above:**

- a) Echo Sounder (Type) used:
- b) Draught of Vessel set on Echo Sounder:
- c) Observed water depth vis-à-vis charted depth:
- d) Echo-gram accompanying this report: Yes / No
- e) Whether voltage drop existed in equipment at observation time
- f) Data and Time of depth observation

8. **Limitations if any in Reporting the changes above**

Signature of the Master / Reporter

Date:

To

The Chief Hydrographer
National Hydrographic Office
107-A, Rajpur Road,
Post Box No. 75, Dehradun - 248 001
(UTTARANCHAL), INDIA

E-mail: - nho@sancharnet.in
Fax No.: (0135) 2748373
WEB: - www.hydrobharat.org

Please Note:

1. Please see over leaf for Instructions for filling up this form.
2. Photograph / Sketches / Diagram, etc duly annotated will be useful supporting document.
3. Please rush this information to the Chief Hydrographer to the Govt. of India at the address given above, by the fastest available means.

TABLE FOR CONVERTING FEET AND FATHOMS TO METRES

Feet	Fms	Metres	Feet	Fms	Metres	Feet	Fms	Metres	Feet	Fms	Metres
1		0.305	55		16.764	162	27	49.378	498	83	151.790
1.5	¼	0.457	56		17.069	168	28	51.206	504	84	153.619
2		0.610	57	9½	17.374	174	29	53.035	510	85	155.448
3	½	0.914	58		17.678	180	30	54.864	516	86	157.277
4		1.219	59		17.983	186	31	56.693	522	87	159.106
4.5	¾	1.372	60	10	18.288	192	32	58.522	528	88	160.934
5		1.524	61		18.593	198	33	60.350	534	89	162.763
6	1	1.829	62		18.898	204	34	62.179	540	90	164.992
7		2.134	63	10½	19.202	210	35	64.008	546	91	166.421
8		2.438	64		19.507	216	36	65.837	552	92	168.250
9	1½	2.743	65		19.812	222	37	67.666	558	93	170.078
10		3.048	66	11	20.117	228	38	69.494	564	94	171.907
11		3.353	67		20.422	234	39	71.323	570	95	173.736
12	2	3.658	68		20.726	240	40	73.152	576	96	175.565
13		3.962	69	11½	21.031	246	41	74.981	582	97	177.394
14		4.267	70		21.336	252	42	76.810	588	98	179.222
15	2½	4.572	71		21.641	258	43	78.638	594	99	181.051
16		4.877	72	12	21.946	264	44	80.467	600	100	182.880
17		5.182	73		22.250	270	45	82.296			
18	3	5.486	74		22.555	276	46	84.125	Metres	Inches	
19		5.791	75	12½	22.860	282	47	85.954			
20		6.096	76		23.165	288	48	87.782	0.10		3.937
21	3½	6.401	77		23.470	294	49	89.611	0.20		7.874
22		6.706	78	13	23.774	300	50	91.440	0.30		11.811
23		7.010	79		24.079	306	51	93.469	0.40		15.748
24	4	7.315	80		24.384	312	52	95.098	0.50		19.685
25		7.620	81	13½	24.689	318	53	96.926	0.60		23.622
26		7.925	82		24.994	324	54	98.755	0.70		27.559
27	4½	8.230	83		25.298	330	55	100.584	0.80		31.496
28		8.534	84	14	25.603	336	56	102.413	0.90		35.433
29		8.839	85		25.908	342	57	104.242	1.00		39.370
30	5	9.144	86		26.213	348	58	106.070			
31		9.449	87	14½	26.518	354	59	107.899			
32		9.754	88		26.822	360	60	109.728			
33	5½	10.058	89		27.127	366	61	111.557			
34		10.363	90	15	27.432	372	62	113.386			
35		10.668	91		27.737	378	63	115.214			
36	6	10.973	92		28.042	384	64	117.043			
37		11.278	93	15½	28.346	390	65	118.872			
38		11.582	94		28.651	396	66	120.701			
39	6½	11.887	95		28.956	402	67	122.530			
40		12.192	96	16	29.261	408	68	124.358			
41		12.497	97		29.566	414	69	126.187			
42	7	12.802	98		29.870	420	70	128.016			
43		13.106	99	16½	30.175	426	71	129.845			
44		13.411	100		30.480	432	72	131.674			
45	7½	13.716	102	17	31.090	438	73	133.502			
46		14.021	108	18	32.918	444	74	135.381			
47		14.326	114	19	34.747	450	75	137.160			
48		14.630	120	20	36.576	456	76	138.989			
49		14.935	126	21	38.405	462	77	140.818			
50		15.240	132	22	40.234	468	78	142.646			
51	8½	15.545	138	23	42.062	474	79	144.475			
52		15.850	144	24	43.891	480	80	146.304			
53		16.154	150	25	45.720	486	81	148.133			
54	9	16.459	156	26	47.549	492	82	149.962			

TABLE FOR CONVERTING METRES TO FEET AND FATHOMS

Mtrs	Feet	Fms	Metres	Feet	Fms	Metres	Feet	Fms	Metres	Feet	Fms
1	3.281	0.547	57	187.008	31.168						
2	6.562	1.094	58	190.289	31.715	5000	16404.20	2734.03			
3	9.843	1.640	59	193.570	32.262	6000	19685.04	3280.84			
4	13.123	2.187	60	196.850	32.808	7000	22965.88	3827.65			
5	16.404	2.734	61	200.131	33.355	8000	26246.72	4374.45			
6	19.685	3.281	62	203.412	33.902	9000	29527.56	4921.26			
7	22.966	3.828	63	206.693	34.449	10000	32808.40	5468.07			
8	26.247	4.374	64	209.974	34.996						
9	29.528	4.921	65	213.255	35.542	Inches	Feet	Metres	Factors		
10	32.808	5.468	66	216.535	36.089						
11	36.089	6.015	67	219.816	36.636	1	0.083	0.025	1 Inch=0.0254 m		
12	39.370	6.562	68	223.097	37.183	2	0.167	0.051	1 Foot=0.3048 m		
13	42.652	7.108	69	226.378	37.730	3	0.250	0.076	1 Fthm=1.8288 m		
14	45.932	7.655	70	229.659	38.276	4	0.333	0.102	or 6 feet		
15	49.213	8.202	71	232.940	38.823	5	0.417	0.127			
16	52.493	8.749	72	236.220	39.370	6	0.500	0.152			
17	55.774	9.296	73	239.501	39.917	7	0.583	0.178			
18	59.055	9.843	74	242.782	40.464	8	0.667	0.203			
19	62.336	10.389	75	246.063	41.010	9	0.750	0.229			
20	65.617	10.936	76	249.344	41.557	10	0.833	0.254			
21	68.898	11.483	77	252.625	42.104	11	0.917	0.279			
22	72.178	12.030	78	255.906	42.651	12	1.000	0.305			
23	75.459	12.577	79	259.186	43.198						
24	78.740	13.123	80	262.467	43.745	Fthms	Metres	Feet	Metres		
25	82.021	13.670	81	265.748	44.291						
26	85.302	14.217	82	269.029	44.838	200	365.760	700	213.360		
27	88.583	14.764	83	272.310	45.385	300	548.640	800	243.840		
28	91.864	15.311	84	275.591	45.932	400	731.520	900	274.320		
29	95.144	15.857	85	278.871	46.479	500	914.400	1000	304.800		
30	98.425	16.404	86	282.152	47.025	600	1097.280				
31	101.706	16.951	87	285.433	47.572	700	1280.160				
32	104.987	17.498	88	288.714	48.119	800	1463.040				
33	108.268	18.045	89	291.995	48.666	900	1645.920				
34	111.549	18.591	90	295.276	49.213	1000	1828.800				
35	115.829	19.138	91	298.556	49.759						
36	118.110	19.685	92	301.837	50.306	Factor = 1 m = 3.280839895 feet or					
37	121.391	20.232	93	305.118	50.853	39370078740 inches = 0.546806649 fthm					
38	124.672	20.779	94	308.399	51.400						
39	127.953	21.325	95	311.680	51.947						
40	131.234	21.872	96	314.961	52.493						
41	134.514	22.419	97	318.241	53.040						
42	137.795	22.966	98	321.522	53.587						
43	141.076	23.513	99	324.803	54.134						
44	144.357	24.059	100	328.084	54.658						
45	147.638	24.606	200	656.17	109.36						
46	150.919	25.153	300	984.25	164.04						
47	154.199	25.700	400	1312.34	218.72						
48	157.480	26.247	500	1640.42	273.40						
49	160.761	26.794	600	1968.50	328.08						
50	164.042	27.340	700	2296.59	382.76						
51	167.323	27.887	800	2624.67	437.45						
52	170.604	28.434	900	2952.76	492.13						
53	173.885	28.981	1000	3280.84	546.81						
54	177.165	29.528	2000	6561.68	1093.61						
55	180.446	30.074	3000	9842.52	1640.42						
56	183.727	30.621	4000	13123.36	2187.23						

