



# INDIAN NOTICES TO MARINERS FOR 2006

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(CONTAIN NOTICES 551 TO 579)

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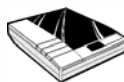
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## CONTENTS

<u>Section No.</u>	<u>Title</u>	<u>Page No.</u>
I.	List of Charts Affected	04
II.	Permanent Notices	05
III.	Temporary and Preliminary Notices	17
IV.	Marine Information	21
V.	Radio Navigational Warnings	23
VI.	Corrections to List of Sailing Direction	24
VII.	Corrections to List of Lights	25
VIII.	Corrections to List of Radio Signals	27
IX.	Use of GPS for Navigation using Local (Everest) Datum charts.	28
X.	Reporting of Navigational Dangers.	29

**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 Govt. of India at the following address/fax number, 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 N to M editions 1, 7, 13 and 19.

**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 ON 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 01 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.

**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 XI 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.
- (d) A star indicates that corresponding field to be amended and all stars indicate that new light to be inserted.

**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.

Indian ENC's are now available in IHO's S-63 Data Protection Scheme also, in addition to CM-93 SENC format.

Contact Details:-

**C-Map India:** C-Map India Private Limited  
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**C-Map Norway:** [market@c-map.no](mailto:market@c-map.no)

**SECTION – I**  
**List of charts affected by**  
**The Notices 551 to 579 contained in this Edition**

<b>INDIAN H.O. Chart No.</b>	<b>Folio No.</b>	<b>Notice No.</b>	<b>ADMIRALTY Chart No.</b>	<b>Folio No.</b>	<b>Notice No.</b>
20	1	563, 577(P)	1223	40	560, 578(T)
23	4	579(T)	1224	40	559, 577(P)
205	2	551	1312	46	575
220	3	553	1789	46	575
245	1	563	2403	45	574
246	1	563	2441	40	563
259 (INT 7356)	3	553	2851	40	556, 563
260 (INT 7362)	3	553	2858	40	559, 577(P)
268 (INT 7353)	4	552	2882 (INT 7264)	40	559, 577(P)
272	4	552	2883	40	559, 562, 577(P)
289	1	563	2884 (INT 7278)	40	561
290	1	563	2886	40	559, 577(P)
356 (INT 7400)	5	551	2887 (INT 7232)	40	563
2004 (INT 7359)	3	553	3171	40	576(T)
2029 (INT 7358)	3	553	3173	40	563
2045 (INT 7360)	3	553	3174	40	563, 576(T)
2088	1	555	3411 (INT 7218)	40	576(T)
2095	2	563	3713	40	576(T)
3024	5	554	3715	40	576(T)
7707 (INT 707)	1	579(T)	3718	40	558, 559, 577(P)
8004	1	557, 563	3719	40	559, 577(P)
8005	1	563	3773	40	559, 560, 577(P), 578(T)
			3774	40	559, 577(P)
			3775	40	559, 577(P)
			3776	40	559, 577(P)
			3777	40	559, 577(P)
			3788	40	559, 577(P)
			3790 (INT 7252)	40	559, 577(P)
			3812	40	559, 577(P)
			3833	45	574
			3842 (INT 7292)	40	561
			3951	40	576 (T)
			4030	45	570
			4032	45	572, 573
			4033	45	568, 568, 570
			4034	45	567, 569, 571, 572
			4035	45	569, 571, 573
			4036	45	573
			4039	45	573, 574
			4040	45	573, 574
			4041	45	571
			4044	45	564, 565, 566

**SECTION – II: PERMANENT NOTICES**  
**INDIAN HYDROGRAPHIC CHARTS AND PUBLICATIONS**

\*551 (23/06)

**I (a): NEW EDITION INDIAN CHARTS**

Source: NHO, Dehradun.

<i>Chart No.</i>	<i>Date of Publication</i>	<i>Title, Limits &amp; Description</i>	<i>Scale</i>	<i>Folio</i>	<i>Price</i>
<b>205</b>	30-09-2006	<b>NAVIBANDAR TO VERAVAL</b> <u>Limits:</u> 20° 49'.00N; 69° 02'.00E. 21° 39'.00N; 70° 25'.00E.	1:150,000	2	Rs. 1360.00
<b>356 (INT 7400)</b>	30-09-2006	<b>CHENNAI (MADRAS) TO RAMAYPATNAM</b> <u>Limits:</u> 12° 36'.00N; 80° 00'.00E. 15° 23'.50N; 81° 50'.00E.	1:300,000	5	Rs. 1360.00

**I (b) INDIAN CHARTS PERMANENTLY WITHDRAWN**

<i>Chart to be withdrawn</i>	<i>Date of Publication</i>	<i>Main Title</i>	<i>On Publication of New Edition</i>	<i>Date of Publication</i>
<b>205</b>	30-04-2001	<b>NAVIBANDAR TO VERAVAL</b>	<b>205</b>	30-09-2006
<b>356 (INT 7400)</b>	31-08-2004	<b>CHENNAI (MADRAS) TO RAMAYPATNAM</b>	<b>356 (INT 7400)</b>	30-09-2006

**I (c) CHARTS AFFECTED BY THE FOREGOING**

NIL

\*551 (23/06) (continued)

Source: NHO, Dehradun

**II (a) NEW INDIAN ELECTRONIC NAVIGATIONAL CHARTS**

Sl. No.	Cell Name	Chart No.	Title	Publication Date
<b>COASTAL</b>				
1	IN3211SM	211	Satpati to Murud Janjira	30-06-2005

**II (b) NEW EDITION ELECTRONIC NAVIGATIONAL CHARTS:**

Sl. No.	Cell Name	Chart No.	Title	Publication Date
<b>HARBOUR</b>				
1	IN52009B	2009	Belekeri Anchorage	15-06-2006
2	IN53024B	3024	Bavanapadu Anchorage	30-09-2005

**II (c) ELECTRONIC NAVIGATIONAL CHARTS PERMANENTLY WITHDRAWN:**

Sl. No.	Cell Name	Chart No.	Title	Publication Date
<b>HARBOUR</b>				
1	IN52009B	2009	Belekeri Anchorage	31-08-2000
2	IN53024B	3024	Bavanapadu Anchorage	15-03-2001

**AVAILABILITY OF ENCs:**

The complete folios of Official Indian ENCs are being distributed worldwide through C-MAP. Updates will be available both through CDs and Real Time via Satellite to allow fully automatic updating of ENC/SENC. Mariners and other ENC users may contact the under mentioned for further details:

Chief Hydrographer to the Government of India National Hydrographic Office 107-A, Rajpur Road Dehradun- 248 001, INDIA Telephone: +91 135 2747365 Fax: +91 135 2748373 Email: inho@dataone.in Web site: www.hydrobharat.nic.in	OR	Director C-Map India Private Limited 505, Raheja Arcade Sector 11 CBD, Belapur Navi Mumbai- 400 614, INDIA Telephone: +91 22 65103668 Fax: +91 22 67939504 Email: info@c-map.co.in Web site: <a href="http://www.c-map.co.in">www.c-map.co.in</a>
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**\*552 (23/06) INDIA OCEAN – Central Lakshadweep – Bitra Island - Light.**

Indian Light List Vol. F and K 2003;-F 0750

Source: Navarea VIII 697/06

(HJ/1030/17)

**Chart 268 (INT 7353) [previous update 448/06]**

Amend light to, Fl(2)W10s33m9M

11° 35'·80N., 72° 11'·40E.

**Chart 272 [previous update 70/06]**

Amend light to, Fl10s9M


11° 35'·80N., 72° 11'·40E.

**\*553 (23/06) INDIA – West Coast – Kochi (cochin) harbour – buoys.**


Source: Navarea VIII – 709/06 and Kochi Port Trust.

(HJ/930/93)


**Chart 260 (INT 7362) [previous update 156/06]**

Move		FL.10s7m10M Fairway	from:	09° 57'·74N., 76° 08'·87E.
			to:	09° 57'·80N., 76° 09'·09E.


**Chart 259 (INT 7356) [previous update 47/06]**

Move		FL.10s7m10M Fairway	from:	09° 57'·74N., 76° 08'·87E.
			to:	09° 57'·80N., 76° 09'·09E.


**Chart 220 [previous update 88/04]**











Move		FL.10s7m10M Fairway	from:	09° 57'·74N., 76° 08'·87E.
			to:	09° 57'·80N., 76° 09'·09E.

**Chart 2029 (INT 7358) [previous update 332/06]**



Move		FL.10s7m10M Fairway	from:	09° 57'·74N., 76° 08'·87E.
			to:	09° 57'·80N., 76° 09'·09E.

**Chart 2004 (INT 7359) [previous update 306/04]**

Move		FL.10s7m10M Fairway	from:	09° 57'·74N., 76° 08'·87E.
			to:	09° 57'·80N., 76° 09'·09E.

		FL.G.5s No 1	from:	09° 57'·80N., 76° 10'·62E.
			to:	09° 57'·77N., 76° 10'·47E.
		FL.R.5s No 2	from:	09° 57'·92N., 76° 10'·65E.
			to:	09° 57'·90N., 76° 10'·57E.
		FL.G.5s No 3	from:	09° 57'·86N., 76° 11'·44E.
			to:	09° 57'·84N., 76° 11'·42E.
		FL.R.5s No 4	from:	09° 57'·99N., 76° 11'·45E.
			to:	09° 57'·99N., 76° 11'·47E.
		FL.G.5s No 5	from:	09° 57'·92N., 76° 12'·33E.
			to:	09° 57'·89N., 76° 12'·14E.
		FL.R.5s No 6	from:	09° 58'·02N., 76° 12'·37E.
			to:	09° 58'·03N., 76° 12'·18E.
		FL.G.5s No 7	from:	09° 57'·97N., 76° 13'·28E.
			to:	09° 57'·95N., 76° 13'·23E.
		FL.R.5s No 8	from:	09° 58'·10N., 76° 13'·24E.
			to:	09° 58'·08N., 76° 13'·30E.
		FL.G.5s No 9	from:	09° 58'·03N., 76° 14'·12E.
			to:	09° 58'·03N., 76° 14'·07E.
		FL.R.5s No 10	from:	09° 58'·15N., 76° 14'·33E.
			to:	09° 58'·15N., 76° 14'·15E.

**Chart 2045 (INT 7360) [previous update 283/01]**

Move		FL.G.5s No 9	from:	09° 58'·03N., 76° 14'·12E.
			to:	09° 58'·03N., 76° 14'·07E.
		FL.R.5s No 10	from:	09° 58'·15N., 76° 14'·33E.
			to:	09° 58'·15N., 76° 14'·15E.

**\*554 (23/06) INDIA – East Coast – Bavanapadu Anchorage – Secondary Control Point – Fishing Harbour.**

Source: NHO, Dehradun

(HJ/1029/85)

**Chart 3024** [previous update 465/06]

Delete Secondary control point 18° 33'·77N., 84° 21'·55E.

18° 33'·69N., 84° 21'·15E.

Insert



18° 33'·68N., 84° 21'·11E.

**555 (23/06) OMAN - Gulf of Oman - Seeb North-eastwards - Submarine cable.**

Source: BA Notice 5063/06.

(HJ/1132/31)

**Chart 2088** [previous update 448/06] WGS84 DATUM

Insert submarine cable, ~~~~ , joining: 23° 40'·90N., 58° 11'·50E.

(shore)

23° 45'·84N., 58° 14'·90E.

**556 (23/06) OMAN - Port Sohar - Al Hambiyyah Eastwards - Buoy.**

Source: BA Notice 5066 /06.

(HJ/1132/43)

**BA Chart 2851 (plan B, Port Sohar)** [previous update 507/06] WGS84 DATUMInsert  Fl(2+1)G.6s 24° 33'·10N., 56° 37'·55E.**557 (23/06) UNITED ARAB EMIRATES - Jazirat al Hamra' Northwards - Pilot boarding place. Depth.**

Source: BA Notice 5064/06.

LRS Vol. 6, INP31, 2005

(HJ/1132/54)

**Chart 8004** [previous update 469/06] WGS84 DATUMMove  from: 25° 44'·60N., 55° 47'·60E.

to: (a) 25° 46'·00N., 55° 47'·00E.

Delete depth 7<sub>3</sub>, adjacent to: (a) above**558 (23/06) SAUDI ARABIA - East Coast - Port of Jubail (Al Jubayl) - King Fahd Industrial Port-Buoy.**

Source: BA Notice 5163 /06.

(HJ/1133/70)

**BA Chart 3718** [previous update 369/06]Delete  Fl.G.4s No 17<sup>a</sup> 27° 04'·71N., 49° 40'·87E.**559 (23/06) SAUDI ARABIA - East Coast - Legends.**

Source: BA Notice 5062/06.

(HJ/1133/81)

**BA Chart 1224 (plan B, Ra's Al Khafji-Terminal)** [previous update 311/05]

Insert legend, See INM577(P)/06, between: 28° 28'·70N., 48° 33'·80E.

28° 28'·70N., 48° 36'·40E.

**BA Chart 1224** [previous update 311/05]

Insert legend, See INM577(P)/06, between: 28° 28'·90N., 48° 43'·00E.

28° 28'·90N., 48° 47'·00E.

**BA Chart 2858** [previous update 91/06]

Insert legend, See INM577(P)/06, between: 28° 14'·0N., 49° 43'·0E.

28° 14'·0N., 50° 20'·0E.

and

27° 10'·0N., 50° 51'·0E.

27° 10'·0N., 51° 18'·0E.



**559 (23/06) SAUDI ARABIA - East Coast - Legends. (continued)****BA Chart 2882 (INT 7264)** [previous update 506/06]Insert legend, See *INM577(P)/06*, between:

28° 34'·5N., 49° 08'·0E.  
 28° 34'·5N., 49° 19'·5E.  
 and  
 28° 14'·5N., 49° 41'·0E.  
 28° 14'·5N., 49° 54'·0E.  
 and  
 27° 15'·5N., 50° 15'·0E.  
 27° 15'·5N., 50° 28'·0E.

**BA Chart 2883** [previous update 489/06] UNDETERMINED DATUMInsert legend, See *NM577(P)/06*, between:

27° 03'·0N., 50° 23'·0E.  
 27° 03'·0N., 50° 36'·0E.  
 and  
 26° 45'·5N., 50° 14'·0E.  
 26° 45'·5N., 50° 24'·0E.

**BA Chart 2886** [previous update 489/06]Insert legend, See *NM577(P)/06*, between:

27° 03'·0N., 50° 23'·0E.  
 27° 03'·0N., 50° 39'·0E.  
 and  
 26° 46'·0N., 50° 14'·5E.  
 26° 46'·0N., 50° 24'·0E.

**BA Chart 3718** [previous update 558/06]Insert legend, See *NM577(P)/06*, between:

27° 06'·95N., 49°39'·05E.  
 27° 06'·95N., 49°40'·35E.

**BA Chart 3719** [previous update 489/06]Insert legend, See *NM577(P)/06*, between:

27° 21'·60N., 49° 43'·90E.  
 27° 21'·60N., 49° 48'·50E.  
 and  
 27° 10'·10N., 49° 41'·60E.  
 27° 10'·10N., 49° 44'·80E.  
 and  
 26° 58'·30N., 50° 01'·30E.  
 26° 58'·30N., 50° 06'·00E.

**BA Chart 3773** [previous update 401/06]Insert legend, See *NM577(P)/06*, between:

28° 41'·00N., 48° 54'·80E.  
 28° 41'·00N., 48° 59'·80E.  
 and  
 28° 32'·00N., 48° 45'·20E.  
 28° 32'·00N., 48° 52'·20E.

**BA Chart 3774** [previous update 494/06]Insert legend, See *NM577(P)/06*, between:

28° 31'·60N., 49° 11'·00E.  
 28° 31'·60N., 49° 19'·00E.  
 and  
 28° 11'·10N., 49° 04'·60E.  
 28° 11'·10N., 49° 13'·00E.  
 and  
 28° 09'·40N., 49° 35'·00E.  
 28° 09'·40N., 49° 43'·00E.

**BA Chart 3775** [previous update 492/06]Insert legend, See *NM577(P)/06*, between:

27° 54'·60N., 49° 20'·20E.  
 27° 54'·60N., 49° 27'·80E.  
 and  
 27° 22'·20N., 49° 42'·20E.  
 27° 22'·20N., 49° 49'·80E.

**BA Chart 3776** [previous update 488/06]Insert legend, See *NM577(P)/06*, between:

26° 55'·30N., 50° 07'·60E.  
 26° 55'·30N., 50° 08'·95E.

**559 (23/06) SAUDI ARABIA - East Coast - Legends. (continued)****BA Chart 3777** [previous update 488/06]Insert legend, See *INM577(P)/06*, between:

27° 07'·10N., 50° 24'·00E.  
 27° 07'·10N., 50° 28'·20E.  
 and  
 26° 59'·60N., 50° 05'·20E.  
 26° 59'·60N., 50° 09'·30E.  
 and  
 26° 37'·50N., 50° 20'·20E.  
 26° 37'·50N., 50° 23'·70E.

**BA Chart 3788** [previous update 489/06]Insert legend, See *INM577 (P)/06*, between:

27° 09'·00N., 49° 40'·20E.  
 27° 09'·00N., 49° 45'·20E.  
 and  
 27° 03'·60N., 50° 24'·00E.  
 27° 03'·60N., 50° 32'·00E.  
 and  
 26° 37'·50N., 50° 17'·80E.  
 26° 37'·50N., 50° 23'·00E.

**BA Chart 3790 (INT 7252)** [previous update 486/06]Insert legend, See *INM577 (P)/06*, between:

26° 41'·00N., 50° 15'·20E.  
 26° 41'·00N., 50° 21'·20E.

**BA Chart 3812** [previous update 312/06]Insert legend, See *INM577 (P)/06*, between:

26° 41'·80N., 50° 12'·80E.  
 26° 41'·80N., 50° 14'·00E.  
 and  
 26° 37'·60N., 50° 10'·80E.  
 26° 37'·60N., 50° 12'·30E.

**560 (23/06) KUWAIT -Mina' Ash Shu'aybah South-eastwards and Mina' Ahmadi North-eastwards -Legends.**

Source: BA Notice 5231/06.

*(HJ/1133/91)***BA Chart 1223 (Plan A, Mina' 'Abd Allah, Mina' Ash Shu' Aybah and Mina' Al Ahmadi)**

[ previous update 527/06]

Insert legend, See *INM578 (P)/06*, centred on:

29° 08'·80N., 48° 12'·60E.  
 29° 08'·50N., 48° 18'·70E.  
 29° 05'·80N., 48° 12'·80E.  
 29° 05'·60N., 48° 19'·80E.  
 29° 01'·80N., 48° 10'·90E.

**BA Chart 1223 (Plan B, Mina' Ash Shu' Aybah and Mina' Al Ahmadi)** [ previous update 527/06]Insert legend, See *INM578 (P)/06*, centred on:

29° 01'·950N., 48° 10'·650E.

**BA Chart 3773** [previous update 559/06]Insert legend, See *INM578 (P)/06*, centred on:


29° 08'·70N., 48° 1'·20E.  
 29° 06'·30N., 48° 20'·00E.

**561 (23/06) ARABIA - Approaches to Shaṭṭal' Arab - Wrecks.**

Source: BA Notice 5093 /06.

*(HJ/1133/91)***BA Chart 2884 (INT 7278)** [previous update NE Oct 2006]Insert  CRANE

29° 50'·4N., 48° 46'·9E.

**BA Chart 3842 (INT 7292)** [previous update 528/06]Insert  CRANE (47) with radar conspicuous symbol (a)

29° 50'·45N., 48° 46'·93E.

Delete  close SE of:

(a)above

**562 (23/06) IRAN - South West Coast - Ra's-e Khan North-westward - Depths.**

Source: BA Notice 5258/06.

(HJ/1132/89)

**BA Chart 2883** [previous update 559/06]

Insert depth 47 enclosed by 50m contour

28° 23'·4N., 50° 38'·9E.

28° 21'·1N., 50° 41'·0E.

**563 (23/06) IRAN - Strait of Hormuz and Approaches - Jask to Jazireh-ye Tonb-e Kuchek - Lights. Light-beacon.**

Source: BA Notice 5065/06.

Indian Light List Vol. D &amp; E, 2003, D: 7713, 7703, 7704, 7339

(HJ/1132/52)

**Chart 20** [previous update 494/06] UNDETERMINED DATUM

Amend range of light to, 12M

25° 38'·0N., 57° 46'·0E.

range of light to, 18M

26° 16'·0N., 55° 18'·0E.

light to, Fl.10s12M

26° 37'·8N., 55° 54'·0E.

26° 14'·6N., 55° 09'·0E.

**Chart 290** [previous update 507/00] WGS84 DATUM

Amend light to, Fl(2)12M

25° 38'·18N., 57° 45'·85E.

**Chart 246** [previous update 317/03] WGS84 DATUM

Amend light to, Fl(2)15s32m12M

25° 38'·18N., 57° 45'·85E.

**Chart 245** [previous update 251/06] WGS84 DATUM

Amend light to, Fl(2)15s32m12M

25° 38'·18N., 57° 45'·85E.

**Chart 2095 (Plan : Jask Bay)** [previous update 96/04] WGS84 DATUM

Amend light to, Fl(2)15s32m12M

25° 38'·18N., 57° 45'·85E.

**Chart 8004 (Plan)** [previous update 557/06] WGS84 DATUM

Amend light to, Fl(2)15s32m12M

25° 38'·18N., 57° 45'·85E.

**Chart 289** [previous update 487/06] WGS84 DATUM

Amend light to, Fl.10s18M

26° 16'·2N., 55° 18'·0E.

light to, Fl.10s12M

26° 14'·6N., 55° 08'·8E.

range of light to, 18M

26° 37'·8N., 55° 54'·0E.

**Chart 8004** [previous update 557/06] WGS84 DATUM

Amend light to, Fl(2)15s12M

25° 38'·0N., 57° 46'·0E.

light to, Fl.10s75m18M

26° 16'·2N., 55° 18'·0E.

light to, Fl.10s25m12M

26° 14'·6N., 55° 08'·8E.

range of light to, 18M

26° 37'·8N., 55° 54'·0E.

**Chart 8005** [previous update 144/06] WGS84 DATUM

Amend range of light to, 18M

26° 37'·8N., 55° 54'·0E.

**BA Chart 2441** [previous update 100/00]

Amend light to, Fl.10s75m18M

26° 16'·2N., 55° 18'·0E.

light-beacon to, Fl.10s25m12M

26° 14'·6N., 55° 09'·0E.

**BA Chart 2851** [previous update 556/06]

Amend range of light to, 12M

25° 38'·00N., 57° 46'·00E.

**BA Chart 2887 (INT 7232)** [previous update 469/06]

Amend light to, Fl.10s75m18M

26° 16'·2N., 55° 18'·0E.

light to, Fl.10s25m12M

26° 14'·6N., 55° 09'·0E.

**BA Chart 3173** [previous update 145/06]

Amend range of light to, 18M

26° 37'·9N., 55° 54'·1E.

**BA Chart 3174** [previous update 505/06]

Amend range of light to, 18M


26° 37'·9N., 55° 54'·1E.

**564 (23/06) MALAYSIA - Peninsular Malaysia, East Coast - Johor Strait - Ordnance Reach - Submarine pipeline. Legend.**

Source: BA Notice 5192/06.

(HJ/927/16)

**BA Chart 4044** [previous update 534/06]

Insert submarine pipeline  joining: 1° 29'·06N., 103° 48'·10E. (shore)

(a) 1° 28'·93N., 103° 48'·07E.

(b) 1° 28'·21N., 103° 47'·68E.

1° 27'·77N., 103° 47'·44E.

1° 27'·71N., 103° 47'·49E. (shore)

legend, *Gas* (see Note), along: (a)-(b)above

**565 (23/06) SINGAPORE – Ordnance Reach – Depths.**

Source: BA Notice 5191/06.

(HJ/927/16)

**BA Chart 4044** [previous update 564/06]


Substitute depth 9<sub>2</sub> enclosed by 10m contour for depth 9<sub>8</sub> enclosed by 10m contour 1° 27'·69N., 103° 47'·15E.


**566 (23/06) SINGAPORE -Serangoon Harbour - Loyang jetty North-eastwards - Buoyage.**


Source: BA Notice 5190/06.

(HJ/927/16)

**BA Chart 4044 (plan A, Serangoon Harbour)** [ previous update 565/06 ]

Insert  *Fl(2)Y.2s PCG L1* 1° 23'·230N., 103° 58'·170E.

 *Fl(2)Y.8s PCG L2* 1° 23'·245N., 103° 58'·216E.

 *Fl(2)Y.10s PCG L3* 1° 23'·267N., 103° 58'·245E.

**567 (23/06) SINGAPORE -East Jurong Channel - Pasir Panjang Terminal North-westwards - Buoy.**

Source: BA Notice 5200/06.

(HJ/927/16)

**BA Chart 4034** [previous update 536/06]




Insert  *Fl.Y.10s Retan Empat* 1° 17'·511N., 103° 45'·042E.

**568 (23/06) SINGAPORE - Jurong Island - Ayer Chawan Basin - Submarine power cable. Submarine cable.**

Source: BA Notice 5196/06.

(HJ/927/16)

**BA Chart 4033** [previous update 538/06]

Substitute   $\int$   for  joining: 1° 16'·811N., 103° 42'·459E. (shore)

1° 16'·766N., 103° 42'·348E.

1° 16'·748N., 103° 42'·254E. (shore)

**569 (23/06) SINGAPORE - East Jurong Channel - Pasir Panjang Terminal and Pasir Panjang Fairway - Depths. Dredged depths.**

Source: BA Notice 5199/06.

(HJ/927/16)

**BA Chart 4034** [previous update 567/06]

Insert	depth 14 <sub>9</sub>	(a)	1° 16'·631N., 103° 46'·649E.
	depth 14 <sub>9</sub> and extend 15m contour N to enclose		1° 16'·577N., 103° 46'·673E.
Amend	dredged depth to, 15.0m(2006), centred on:		1° 16'·775N., 103° 46'·184E.
			1° 17'·077N., 103° 46'·222E.
			1° 16'·764N., 103° 46'·069E.
Delete	depth 14 <sub>4</sub> , close SSW of:		(a)above
	depth 14 <sub>3</sub> , close NNE of:		(a)above

**BA Chart 4035** [previous update 542/06]

Insert	depth 14 <sub>9</sub>	(a)	1° 16'·631N., 103° 46'·649E.
	depth 14 <sub>9</sub> and extend 15m contour N to enclose		1° 16'·577N., 103° 46'·673E.
Delete	depth 14 <sub>4</sub> , close SSW of:		(a)above
	depth 14 <sub>3</sub> , close NNE of:		(a)above

**570 (23/06) SINGAPORE -West Jurong Channel -Depth.**

Source: BA Notice 5194/06.

(HJ/927/16)

**BA Chart 4030** [previous update 538/06]

Insert	depth 12		1° 16'·464N., 103° 39'·463E.
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**BA Chart 4033** [previous update 568/06]

Insert	depth 12		1° 16'·464N., 103° 39'·463E.
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**571 (23/06) SINGAPORE - Singapore Island - Tanjong Berlayar West and North-westwards - Depth. Obstruction. Wrecks.**

Source: BA Notice 5198/06.

(HJ/927/16)

**BA Chart 4034** [previous update 569/06]

Substitute	⑧	Wk for depth 10 <sub>3</sub>	1° 15'·760N., 103° 48'·019E.
Delete	⑩ <sub>4</sub>	Obstn.	1° 15'·991N., 103° 47'·914E
	⑥ <sub>4</sub>	Wk	1° 15'·788N., 103° 48'·216E.

**BA Chart 4035** [previous update 569/06]

Substitute	⑧	Wk for depth 10 <sub>3</sub>	1° 15'·760N., 103° 48'·019E.
Delete	⑩ <sub>4</sub>	Obstn.	1° 15'·991N., 103° 47'·914E
	⑥ <sub>4</sub>	Wk	1° 15'·788N., 103° 48'·216E.

**BA Chart 4041** [previous update 544/06]

Substitute	⑧	Wk	1° 15'·76N., 103° 48'·02E.
Delete	⑩ <sub>4</sub>	Obstn.	1° 15'·99N., 103° 47'·91E
	⑥ <sub>4</sub>	Wk	1° 15'·79N., 103° 48'·22E.

**572 (23/06) SINGAPORE -Jurong Island - Sakra Basin -Dredged area. Dredged depths.**

Source: BA Notice 5197/06.

(HJ/927/16)

**BA Chart 4032** [previous update 540/06]

Insert	dredged area, pecked line, joining:	(a)	1° 15'·659N., 103° 43'·219E. (shore)
		(b)	1° 15'·644N., 103° 43'·211E.
		(c)	1° 15'·675N., 103° 43'·156E.
		(d)	1° 15'·689N., 103° 43'·163E. (shore)
	dredged depth, 3.0m(2006), within:	(a)-(d)	above
Amend	dredged depth to, 7.7m(2006), centred on:		1° 15'·853N., 103° 42'·830E.
	dredged depth to, 10.8m(2006), centred on:		1° 15'·898N., 103° 42'·749E.
			1° 15'·942N., 103° 42'·667E.
	dredged depth to, 1.8m(2006) , centred on:		1° 15'·723N., 103° 43'·109E.
	dredged depth to, 6.8m(2006), centred on:		1° 15'·765N., 103° 43'·019E.
Delete	depth 3 <sub>5</sub> , adjacent to:	(c)	above

**BA Chart 4034** [previous update 571/06]

Insert	dredged area, pecked line, joining:	(a)	1° 15'·659N., 103° 43'·219E. (shore)
		(b)	1° 15'·644N., 103° 43'·211E.
		(c)	1° 15'·675N., 103° 43'·156E.
		(d)	1° 15'·689N., 103° 43'·163E. (shore)
	dredged depth, 3.0m(2006), within:	(a)-(d)	above
Amend	dredged depth to, 7.7m(2006), centred on:		1° 15'·853N., 103° 42'·830E.
	dredged depth to, 10.8m(2006), centred on:		1° 15'·898N., 103° 42'·749E.
	dredged depth to, 1.8m(2006) , centred on:		1° 15'·723N., 103° 43'·109E.
	dredged depth to, 6.8m(2006), centred on:		1° 15'·765N., 103° 43'·019E.
Delete	depth 3 <sub>5</sub> , adjacent to:	(c)	above



**573 (23/06) SINGAPORE - Sinki Fairway - Pulau Busing to Pulau Bukom Kechil - Works. Light. Buoyage. Maritime limit. Beacon.**

Indian Light List Vol. F &amp; K, 2003, F 1690.65

Source: BA Notice 5195/06.

(HJ/927/16)

**BA Chart 4032** [previous update 572/06]

Substitute	 Busing (disused) for	 Busing	1° 14'·200N., 103° 44'·305E.
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**BA Chart 4035** [previous update 571/06]

Insert	maritime limit, pecked line, joining:		1° 13'·919N., 103° 45'·540E. (shore)
			1° 13'·925N., 103° 45'·577E.
			1° 13'·871N., 103° 45'·645E.
			1° 13'·836N., 103° 45'·653E. (shore)
			and
			1° 13'·529N., 103° 45'·773E. (shore)
		(a)	1° 13'·381N., 103° 45'·785E.
		(b)	1° 13'·369N., 103° 45'·563E.
			1° 13'·397N., 103° 45'·500E. (W border)

**573 (23/06) SINGAPORE - Sinki Fairway - Pulau Busing to Pulau Bukom Kechil - Works. Light. Buoyage. Maritime limit. Beacon. (continued)**

legend, Works in progress (2006), centred on:  $1^{\circ} 13' \cdot 460N., 103^{\circ} 45' \cdot 610E.$



*Fl(4)Y.15s Ular 1*

(a)above



*Fl.Y.4s Ular 2*

(b)above

**BA Chart 4036** [previous update 287/06]

Insert maritime limit, pecked line, joining:  $1^{\circ} 13' \cdot 470N., 103^{\circ} 45' \cdot 778E.$   
(N border)

(a)  $1^{\circ} 13' \cdot 381N., 103^{\circ} 45' \cdot 785E.$

(b)  $1^{\circ} 13' \cdot 369N., 103^{\circ} 45' \cdot 563E.$

$1^{\circ} 13' \cdot 470N., 103^{\circ} 45' \cdot 339E.$

(N border)

legend, Works in progress (2006), centred on:



*Fl(4)Y.15s Ular 1*

$1^{\circ} 13' \cdot 435N., 103^{\circ} 45' \cdot 595E.$

(a)above



*Fl.Y.4s Ular 2*

(b)above

**BA Chart 4039** [previous update 544/06]

Insert maritime limit, pecked line, joining:  $1^{\circ} 13' \cdot 529N., 103^{\circ} 45' \cdot 773E.$   
(shore)

(a)  $1^{\circ} 13' \cdot 381N., 103^{\circ} 45' \cdot 785E.$

(b)  $1^{\circ} 13' \cdot 369N., 103^{\circ} 45' \cdot 563E.$

$1^{\circ} 13' \cdot 526N., 103^{\circ} 45' \cdot 215E.$

legend, Works in progress (2006), centred on:



*Fl(4)Y.15s Ular 1*

$1^{\circ} 13' \cdot 480N., 103^{\circ} 45' \cdot 520E.$


(a)above



*Fl.Y.4s Ular 2*

(b)above

**BA Chart 4040** [previous update 540/06]

Substitute  Busing (disused) for  Busing  $1^{\circ} 14' \cdot 20N., 103^{\circ} 44' \cdot 31E.$

**574 (23/06) SINGAPORE STRAIT – Western Part – Nipa Transit Anchorage – Buoyage**

Source: BA Notice 5193/06.

(HJ/927/16)

**BA Chart 2403** [previous update 509/06]

Insert  *Fl(2)Y.6s*  $1^{\circ} 09' \cdot 10N., 103^{\circ} 38' \cdot 60E.$   
(maritime limit)



*Fl.Y.5s*

$1^{\circ} 05' \cdot 50N., 103^{\circ} 40' \cdot 80E.$

(maritime limit)



*Fl.Y.3s*

$1^{\circ} 04' \cdot 50N., 103^{\circ} 38' \cdot 90E.$

(maritime limit)



*Fl.Y.4s*

$1^{\circ} 07' \cdot 30N., 103^{\circ} 34' \cdot 20E.$



*Fl(4)Y.10s*

$1^{\circ} 09' \cdot 50N., 103^{\circ} 35' \cdot 60E.$

**574 (23/06) SINGAPORE STRAIT – Western Part – Nipa Transit Anchorage – Buoyage (continued)****BA Chart 3833** [previous update 537/06]

Insert		<i>Fl(2)Y.6s</i>	1° 09'·10N., 103° 38'·60E. (maritime limit)
		<i>Fl.Y.5s</i>	1° 05'·50N., 103° 40'·80E. (maritime limit)
		<i>Fl.Y.3s</i>	1° 04'·50N., 103° 38'·90E. (maritime limit)
		<i>Fl.Y.4s</i>	1° 07'·30N., 103° 34'·20E.
		<i>Fl(4)Y.10s</i>	1° 09'·50N., 103° 35'·60E.

**BA Chart 4039** [previous update 573/06]

Insert		<i>Fl(2)Y.6s</i>	1° 09'·10N., 103° 38'·60E. (maritime limit)
		<i>Fl.Y.5s</i>	1° 05'·50N., 103° 40'·80E. (maritime limit)
		<i>Fl.Y.3s</i>	1° 04'·50N., 103° 38'·90E. (maritime limit)
		<i>Fl.Y.4s</i>	1° 07'·30N., 103° 34'·20E.
		<i>Fl(4)Y.10s</i>	1° 09'·50N., 103° 35'·60E.

**BA Chart 4040** [previous update 573/06]

Insert		<i>Fl(2)Y.6s</i>	1° 09'·10N., 103° 38'·60E. (maritime limit)
		<i>Fl(4)Y.10s</i>	1° 09'·50N., 103° 35'·60E.




**575 (23/06) INDONESIA - Sumatera - East Coast - Pulau-Pulau Lingga - Selat Berhala North-westwards - Karang Speke- Buoy. Rock. Light-beacon. Light.**

Source: BA Notice 5067 /06.




Indian Light List Vol. F &amp; K, 2003, K 0978

(HJ/827/95)

**BA Chart 1312** [previous update 546/06]

Substitute		for		<i>Fl.3s12M</i> enclosed by danger line	(a)	0° 36'·8S., 104° 06'·0E..
Insert		<i>Fl(2)5s</i> , close SE of:				(a) above

**BA Chart 1789** [previous update 459/06]

Insert		<i>Fl(2)5s</i>				0° 37'·0S., 104° 06'·4E..
Substitute		for		<i>Fl.3s12M</i> enclosed by danger line and associated symbol, radar reflector		0° 36'·8S., 104° 06'·0E..



**SECTION – III: TEMPORARY AND PRELIMINARY NOTICES****576(T) (23/06) UNITED ARAB EMIRATES - North and East Coasts - Data buoys.**

Source: BA Notice 5123(T)/06

(HJ/1132/46)

1. Lit weather buoys have been established in the following positions:

24° 54'·00N., 53° 02'·00E.

24° 35'·07N., 54° 20'·12E.

24° 30'·22N., 52° 16'·01E.

25° 18'·11N., 55° 14'·02E.

25° 58'·07N., 56° 01'·10E.

25° 34'·04N., 56° 23'·02E.

2. A wide berth is requested.
3. Former Notice 549(T)/06 is cancelled.

**BA Charts affected- 3171 -3174 -3411 (INT 7218) -3713-3715-3951****577(P) (23/06) SAUDI ARABIA - East Coast - - Buoyage. Restricted areas.**

Source: BA notice 5061(P)/06

(HJ/1133/70)

**1. Buoyage**The following special purpose light-buoys, *Q.Y.*, have been established in the following positions (WGS84 Datum):

## a) Berri Oilfield

<i>Buoy Name</i>	<i>Position</i>
BRRI-1	27° 20'·32N., 49° 38'·41E.
BRRI-2	27° 20'·23N., 49° 42'·69E.
BRRI-3	27° 12'·25N., 49° 48'·06E.
BRRI-4	27° 10'·12N., 49° 46'·27E.
BRRI-5	27° 09'·95N., 49° 46'·14E.
BRRI-6	27° 09'·18N., 49° 45'·49E.
BRRI-8	27° 05'·03N., 49° 36'·93E.
BRRI-9	27° 06'·00N., 49° 35'·82E.
BRRI-10	27° 07'·44N., 49° 37'·49E.
BRRI-11	27° 07'·55N., 49° 37'·50E.
BRRI-12	27° 07'·55N., 49° 38'·99E.
BRRI-13	27° 07'·44N., 49° 39'·01E.
BRRI-14	27° 08'·72N., 49° 42'·59E.
BRRI-15	27° 08'·85N., 49° 42'·65E.
BRRI-16	27° 09'·00N., 49° 37'·50E.
BRRI-17	27° 09'·00N., 49° 36'·01E.
BRRI-18	27° 09'·74N., 49° 36'·01E.

## 2.

## a) Manifah Oilfield

<i>Buoy Name</i>	<i>Position</i>
MNIF-1	27° 52'·70N., 48° 52'·80E.
MNIF-2	27° 51'·45N., 48° 56'·26E.
MNIF-3	27° 49'·26N., 48° 59'·62E.
MNIF-4	27° 46'·94N., 49° 03'·17E.
MNIF-5	27° 43'·35N., 49° 06'·57E.
MNIF-6	27° 39'·77N., 49° 09'·97E.
MNIF-7	27° 36'·04N., 49° 08'·77E.

## b) Saffaninyah

<i>Buoy Name</i>	<i>Position</i>
SFNY-1	28° 05'·48N., 48° 42'·71E.
SFNY-2	28° 09'·97N., 48° 43'·64E.
SFNY-3	28° 15'·88N., 48° 45'·00E.
SFNY-4	28° 21'·84N., 48° 47'·32E.
SFNY-5	28° 23'·18N., 48° 49'·30E.

**577(P) (23/06) SAUDI ARABIA - East Coast - - Buoyage. Restricted areas. (continued)**

SFNY-6	28° 25'·14N., 48° 54'·13E.
SFNY-7	28° 27'·08N., 48° 58'·91E.
SFNY-8	28° 23'·85N., 49° 00'·14E.
SFNY-9	28° 21'·04N., 49° 01'·22E.
SFNY-10	28° 16'·26N., 48° 57'·36E.
SFNY-11	28° 11'·51N., 48° 53'·52E.
SFNY-12	28° 06'·12N., 48° 51'·70E.
SFNY-13	28° 00'·74N., 48° 50'·04E.

3.

## a) Zuluf Oilfield

<i>Buoy Name</i>	<i>Position</i>
ZULF-1	28° 28'·60N., 49° 02'·67E.
ZULF-2	28° 29'·24N., 49° 04'·29E.
ZULF-3	28° 28'·23N., 49° 08'·80E.
ZULF-4	28° 29'·12N., 49° 16'·47E.
ZULF-5	28° 30'·00N., 49° 24'·12E.
ZULF-6	28° 25'·42N., 49° 24'·53E.
ZULF-7	28° 22'·58N., 49° 21'·68E.
ZULF-8	28° 19'·68N., 49° 18'·69E.
ZULF-9	28° 18'·89N., 49° 13'·85E.
ZULF-10	28° 18'·52N., 49° 08'·48E.
ZULF-11	28° 22'·05N., 49° 05'·17E.
ZULF-12	28° 25'·32N., 49° 03'·92E.

## b) Marjan Oilfield

<i>Buoy Name</i>	<i>Position</i>
MRJN-1	28° 19'·11N., 49° 22'·63E.
MRJN-2	28° 20'·24N., 49° 27'·05E.
MRJN-3	28° 21'·36N., 49° 31'·54E.
MRJN-4	28° 25'·51N., 49° 34'·36E.
MRJN-5	28° 29'·73N., 49° 37'·21E.
MRJN-6	28° 33'·86N., 49° 40'·04E.
MRJN-7	28° 27'·96N., 49° 42'·01E.
MRJN-8	28° 26'·22N., 49° 44'·69E.
MRJN-9	28° 21'·38N., 49° 42'·15E.
MRJN-10	28° 16'·53N., 49° 39'·60E.
MRJN-11	28° 11'·78N., 49° 37'·12E.
MRJN-12	28° 13'·49N., 49° 32'·27E.
MRJN-13	28° 15'·20N., 49° 27'·46E.
MRJN-14	28° 16'·91N., 49° 22'·63E.

## b) Khafji-Oilfield

<i>Buoy Name</i>	<i>Position</i>
SB-1	28° 29'·41N., 48° 31'·08E.
SB-2	28° 31'·59N., 48° 34'·69E.
SB-3	28° 24'·22N., 48° 40'·96E.
SB-4	28° 23'·05N., 48° 34'·49E.
SB-6	28° 25'·38N., 48° 47'·44E.
SB-7	28° 28'·75N., 48° 47'·92E.
SB-8	28° 32'·15N., 48° 49'·03E.
SB-9	28° 30'·32N., 49° 07'·01E.

**577(P) (23/06) SAUDI ARABIA - East Coast -- Buoyage. Restricted areas. (continued)**

## d) Hout Oilfield

<i>Buoy Name</i>	<i>Position</i>
SB-10	28° 42'·23N., 48° 50'·34E.
SB-11	28° 45'·05N., 48° 51'·50E.
SB-12	28° 50'·42N., 49° 08'·54E.
SB-13	28° 47'·43N., 49° 08'·13E.
SB-14	28° 44'·45N., 49° 07'·79E.

**4. Restricted areas**

Restricted areas have been established around Oilfields and terminal installations, bounded by the following positions: (WGS84 Datum):

## a) Ra's Tannurah, Ra's Al Ju'aymah terminal and Qatif Oilfield.

26° 41'·20N., 50° 03'·80E.  
 26° 35'·12N., 50° 09'·93E.  
 26° 40'·14N., 50° 15'·94E.  
 26° 43'·50N., 50° 14'·29E.  
 26° 44'·50N., 50° 07'·60E.  
 26° 46'·80N., 50° 06'·30E.  
 26° 51'·40N., 50° 09'·50E.  
 26° 57'·47N., 50° 09'·80E.  
 27° 00'·40N., 50° 07'·30E.  
 27° 01'·50N., 50° 01'·24E.  
 26° 55'·81N., 49° 55'·11E.  
 26° 51'·30N., 49° 54'·10E.

## b) Saffaninyah Oilfield

27° 59'·80N., 48° 47'·50E.  
 28° 00'·74N., 48° 50'·04E.  
 28° 11'·51N., 48° 53'·52E.  
 28° 21'·04N., 49° 01'·22E.  
 28° 27'·08N., 48° 58'·91E.  
 28° 23'·18N., 48° 49'·30E.  
 28° 21'·84N., 48° 47'·32E.  
 28° 15'·88N., 48° 45'·00E.  
 28° 09'·97N., 48° 43'·64E.  
 28° 05'·48N., 48° 42'·71E.  
 28° 01'·00N., 48° 41'·80E.

## c) Zuluf Oilfield

28° 28'·60N., 49° 02'·67E.  
 28° 29'·24N., 49° 04'·29E.  
 28° 28'·23N., 49° 08'·80E.  
 28° 29'·12N., 49° 16'·47E.  
 28° 30'·00N., 49° 24'·12E.  
 28° 25'·42N., 49° 24'·53E.  
 28° 22'·58N., 49° 21'·68E.  
 28° 19'·68N., 49° 18'·69E.  
 28° 18'·89N., 49° 13'·85E.  
 28° 18'·52N., 49° 08'·48E.  
 28° 22'·05N., 49° 05'·17E.  
 28° 25'·32N., 49° 03'·92E.

**577(P) (23/06) SAUDI ARABIA - East Coast - - Buoyage. Restricted areas. (continued)**

5.

## a) Marjan Oilfield

28° 19'·11N., 49° 22'·63E.  
 28° 20'·24N., 49° 27'·05E.  
 28° 21'·36N., 49° 31'·54E.  
 28° 25'·51N., 49° 34'·36E.  
 28° 29'·73N., 49° 37'·21E.  
 28° 33'·86N., 49° 40'·04E.  
 28° 27'·96N., 49° 42'·01E.  
 28° 26'·22N., 49° 44'·69E.  
 28° 21'·38N., 49° 42'·15E.  
 28° 16'·53N., 49° 39'·60E.  
 28° 11'·78N., 49° 37'·12E.  
 28° 13'·49N., 49° 32'·27E.  
 28° 15'·20N., 49° 27'·46E.  
 28° 16'·91N., 49° 22'·63E.

6. Existing restricted areas located within the new limits should be deleted.

**Chart affected - 20**

**BA Charts affected -1224 -2858 -2882 (INT 7264) -2883 -2886 -3718 -3719 -3773 -3774 -3775 -3776 -3777 -3788 -3790 (INT 7252) -3812**

**578 (T) (23/06) KUWAIT - Mina -Ash Shu'aybah South-eastwards and Mi-na -Al Ah,madi-North-eastwards - Dredging area. Mooring buoys. Works. Pier. Submarine pipelines.**

Source: BA Notice 5230(P)/06

(HJ/1133/91)

1. The Kuwait Oil Company is constructing new crude oil export facilities within the two areas detailed below:
  - a) Area 1 -to include dredging, pipe laying, diving operations and new SPM's (No's 23 & 24) within the following positions:
 

29° 08'·50N., 48° 07'·95E.(shore)  
 29° 09'·50N., 48° 10'·00E.  
 29° 09'·00N., 48° 21'·00E.  
 29° 05'·00N., 48° 21'·00E.  
 29° 05'·00N., 48° 12'·00E.  
 29° 04'·20N., 48° 08'·95E.(shore)
  - b) Area 2 - includes the extension of the Petroleum Products Pier (Berth No's 34 & 35) within the following positions
 

29° 02'·23N., 48° 09'·85E.(pier)  
 29° 02'·50N., 48° 10'·41E.(pier)  
 29° 01'·80N., 48° 10'·83E.  
 29° 01'·80N., 48° 09'·45E.(shore)
2. Numerous vessels are involved with the construction operations. Mariners are requested to give them a wide berth, and to navigate with extreme caution within these areas.

**BA Charts affected- 1223 -3773****579(T) (23/06) INDIAN OCEAN - Data buoys.**

Source: BA Notice 5126(T)/06

(HJ/928/19)

1. The National Oceanic and Atmospheric Administration (NOAA) maintains an array of buoys called Autonomous Temperature Line Acquisition System (ATLAS) in the Indian Ocean.
2. The ATLAS buoys, orange and white bands, Q(2-3 metre toroid buoy), which make up the array are located in the following positions:
 

1° 31'·2N., 90° 06'·8E.  
 0° 02'·3N., 89° 52'·8E.  
 1° 34'·2N., 80° 33'·5E.  
 0° 01'·1N., 80° 31'·7E.  
 1° 30'·3S., 80° 32'·4E.
3. Mariners are advised to give all mooring positions a 5 nautical mile berth.
4. Former Notice 294 (T)/06 is cancelled.

**Charts affected- 23-7707 (INT 707)**

**SECTION – IV: MARINE INFORMATION****Tsunami Notices****52 (T) (01/05) INDIAN OCEAN, BAY OF BENGAL – Changes in bathymetry and Coastline.**

Source: NHO, Dehradun  
(HJ/NM/Gen)

1. Major changes likely to have occurred in topography of coastline and bathymetry in Andaman & Nicobar islands, coasts of Andhra Pradesh, Tamilnadu, Kerala, Maldives and Srilanka as a consequence of recent earthquakes followed by Tsunami waves in South Asia. Number of uncharted wrecks/obstructions may also be encountered. Mariners are advised to exercise utmost caution and contact local authorities while approaching these areas.

**Charts affected: All Indian charts of Andaman & Nicobar Islands, coast of Andhra Pradesh, Tamilnadu, Kerala, Maldives and Srilanka**

**\*88 (T) (03/05) INDIA – Nicobar Islands – Katchall Island – Approaches to East Bay – Beacon.**

Source: PMB A & N Islands  
(HJ/928/76)

1. It is informed that all the three sets of beacons/buoys in East Bay including the jetty and approach has been totally damaged and sunk.
2. Mariners are advised to exercise caution and contact local port authorities for the latest information.
3. Former INM 339 (P)/04 is cancelled.

**Charts affected: 4011 - 4017**

**\*105 (T) (03/05) INDIA – Andaman Sea – Nicobar Islands – Approaches to East Bay – Jetty..**

Source: Hydrographic Note, INS Sandhayak  
(HJ/928/76)

1. It is reported that East Bay Jetty at approx position 07° 58'.68N., 93° 23'.73E. is destroyed due to Tsunami disaster.

**Charts affected: 4011**

**\*106 (T) (03/05) INDIA – Andaman Sea – Andaman and Nicobar Islands – Beacon. Buoy.**

Source: Port Management Board, Andaman and Nicobar & Hydrographic Note, INS Sandhayak  
(HJ/928/86)

1. Following buoys/beacons were reported totally damaged and sunk post Tsunami disaster:
 

<u>Nancowry Island</u>	
(d) North east lighted beacon	08° 01'.60N., 93° 33'.80E.
(e) Reid Point beacon	08° 01'.48N., 93° 33'.35E.
(f) Mayo Point beacon	08° 01'.60N., 93° 32'.53E.
<u>Mayabundar Island</u>	
(g) Takla west beacon	12° 55'.53N., 92° 53'.46E.
<u>Port Blair</u>	
(h) Bamboo flat beacon	11° 41'.33N., 92° 43'.20E.
(i) Range flat beacon	11° 41'.21N., 92° 43'.06E.
2. Mariners to exercise caution while navigating through this area.

**Charts affected: 4005 – 4006 – 4008 – 4012 – 4016**

**134 (T) (05/05) SRILANKA – South Coast – Great Basses Reef and Little Basses Reef – Lights.**

Source: B.A. notice 746(T)/05  
(HJ/929/68)

1. The lights at Great Basses Reef (6° 10'.9N., 81° 28'.8E.) and Little Basses Reef (6° 24'.4N., 81° 43'.8E.) have been extinguished until further notice.

**Charts affected: 23 – 32 (INT 754) – 33 – 264 – 359.**

**\*135 (T) (05/05) ANDAMAN SEA – INDIA – Little Andaman Islands – Hut Bay – Coast line. Jetty. Light.**

Source: INS Sandhayak

*(HJ/1028/07)*

1. It is reported that the coastline in the area had undergone drastic changes. The Hut Bay breakwater has been breached at several places. The entire approach road and breakwater light at position 10° 35'.81N., 92° 33'.83E. has been destroyed. The passenger jetty is not safe to approach as the wreck of the fallen crane is a hazard to navigation.
2. Mariners are to exercise caution while navigating through this area.

**Charts affected: 4010****\*160 (T) (06/05) INDIA – Andaman Sea – Nicobar Island – Campbell Bay – Rock.**

Source: Hydrographic Note, INS Tillanchang, INS Sandhayak

*(HJ/928/76)*

1. It is reported that following rocks have been found at position
  - (a) New Rock 07° 01'.370N., 093° 55'.310E.
  - (b) Sunken boat 06° 59'.870N., 093° 55'.560E.
2. The Leading transit mark 323° on the beach was broken and damaged. The Chisen point light are non-operational. The seaward end of the breakwater is sunk.

**Charts affected: 409 – 471 – 472 (INT 7032) – 4035.**

**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 NAVAREA warnings in force as on 28 Nov 2006, covering the entire world are listed below against the respective NAVAREA

<b><u>NAVAREA No.</u></b>	<b><u>LOCATION</u></b>	<b><u>LAST NAVAREA</u></b>	<b><u>NAVAREA IN FORCE</u></b>
I	N.E. Atlantic	324	<b>2005 series:</b> 402 468. <b>2006 series:</b> 073 221 236 261 277 280 286 295 306 315 317 318 319 321 324.
II	E. Atlantic	375	<b>2006 series:</b> 049 131 181 205 271 297 322 337 354 359 360 364 371 372 374 375.
III	Mediterranean	560	<b>2006 series:</b> 513 516 525 526 533 534 535 536 537 538 539 541 542 545 546 547 549 552 556 559 560.
IV	N.W. Atlantic	Nil	<b>2006 series:</b> 262.
V	W. Atlantic	Nil	<b>2006 series:</b> Nil.
VI	S.W. Atlantic	Nil	<b>2006 series:</b> Nil.
VII	S.E. Atlantic	138	<b>2006 series:</b> 086 126 127 129 134 137 138.
VIII	Indian Ocean	724	<b>2006 Series:-</b> 174 175 260 303 345 365 474 564 570 593 594 605 607 619 624 626 629 632 633 642 646 649 653 659 662 670 672 678 679 680 682 695 697 699 700 705 706 707 708 709 711 712 713 716 717 718 719 720 721 722 723 724.
IX	Persian Gulf, Red Sea, NW Arabian Sea	Nil	<b>2005 Series:</b> 120 211 237 <b>2006 series:</b> 011 014 024 025 032 036 047 053 063 076 077 083 093 094 095 101 106 107 109 116 121 143 145 147 148 149 150 157 175 177 179.
X	Australia, New Guinea	Nil	<b>2006 series:</b> 001.
XI	Malacca Strait, China Sea, N. Pacific	506	<b>1996 series:</b> 0925 <b>1998 series:</b> 0655 <b>1999 series:</b> 0053 0187 0310 0613 <b>2000 series:</b> 0677 <b>2001 series:</b> 0182 0775 <b>2003 series:</b> 0106 0303 0304 <b>2004 series:</b> 0246 0271 0361 0555 0571 <b>2005 series:</b> 0005 0271 0307 0322 0331 0332 0335 0345 0351 0395 0474 0481 0497 <b>2006 series:</b> 0005 0050 0052 0058 0060 0075 0083 0090 0123 0127 0139 0224 0241 0250 0251 0276 0277 0303 0343 0389 0406 0414 0456 0458 0460 0461 0462 0464 0465 0466 0468 0469 0470 0471 0472 0478 0479 0480 0481 0491 0493 0497 0499 0500 0501 0503 0505 0506.
XII	N.E. Pacific	Nil	<b>2006 series:</b> Nil
XIII	N.W. Pacific	Nil	<b>2006 series:</b> Nil
XIV	S.W. Pacific	Nil	<b>2005 series:</b> 070 <b>2006 series:</b> 008
XV	S.E. Pacific	Nil	Nil
XVI	E. Pacific	Nil	Nil
Hydropacs	Pacific, Indian Ocean	Nil	<b>2006 series:</b> 375 524 1049 1812.
Hydrolants	Atlantic, Mediterranean	Nil	<b>2006 series:</b> 1394 2029.

**SECTION – VI: CORRECTIONS TO SAILING DIRECTION**

-NIL-





## SECTION – VII: CORRECTIONS TO INDIAN LIST OF LIGHTS

<u>No</u>	<u>Name &amp; Location</u>	<u>Position (Lat-Long)</u>	<u>Charact- eristics</u>	<u>Ht. mts.</u>	<u>Range miles</u>	<u>Structure &amp; Height (mts)</u>	<u>Remarks</u>
<b>D6473-25</b>	Remove from list						
<b>D6483-32</b>	- Mhlatuze. LM11. Front	28 47-41 S 32 01-35 E	Q R		..	.. Metal pole 10	
*	*	*	*	*	*	*	*
<b>D6483-321</b>	- Mhlatuze. LM12. Rear 100m from front	28 47-39 S 32 01-29 E	F G		..	.. Metal pole 10	
*	*	*	*	*	*	*	*
<b>D6483-33</b>	- Mhlatuze. General Cargo Quay. NW	28 47-46 S 32 01-75 E	F G		..	.. Metal pole 7	
*	*	*	*	*	*	*	*
<b>D6483-34</b>	- Mhlatuze. General Cargo Quay. SE	28 47-65 S 32 02-13 E	F G		..	.. Metal pole 7	
*	*	*	*	*	*	*	*
<b>D6483-35</b>	- Dry Bulk Terminal. Jetty. W	28 47-69 S 32 02-99 E	Q G		..	.. Metal pole 7	
*	*	*	*	*	*	*	*
<b>D6483-36</b>	- Dry Bulk Terminal. Jetty. E	28 47-69 S 32 03-02 E	Q R		..	.. Metal pole 7	
*	*	*	*	*	*	*	*
<b>D6483-37</b>	- Combi Terminal. NE	28 47-25 S 32 03-26 E	F R		..	.. Metal pole 7	
*	*	*	*	*	*	*	*
<b>D6664</b>	- SS9	8 31-01 S 39 28-73 E	Fl Y		..	5 Platform	
*	*	*	*	*	*	*	*
<b>D6664.1</b>	- SS5	8 31-41 S 39 28-88 E	Fl Y		..	5 Platform	
*	*	*	*	*	*	*	*
<b>D6664.2</b>	- SS7	8 32-04 S 39 29-24 E	Fl Y		..	5 Platform	
*	*	*	*	*	*	*	*
<b>D6664-3</b>	- Riser Platform	8 31-30 S 39 29-39 E	Fl Y		..	5 Platform	
*	*	*	*	*	*	*	*
<b>D7314-05</b>	- Breakwater	16 56-77 N 54 00-99 E	Q Y	..	..	..	(T) until November 2007
	*	*	*				*

<b>D7314-5</b>	- Container Berth. W end	16 56-57 N 54 00-03 E	Fl Y 5s *	2	5	.. *	Marks W limit of dredged area *
<b>D7340</b>	- Operation Jetty. S *	26 21-74 N 56 21-45 E *	Fl(4)G 10s *	6	3	Grey metal post 2 *	 *
<b>F0750</b>	<b>Bitra Island</b>	11 35.8 N 72 11.4 E	Fl(2)W 10s *	33	9	White metal framework tower, red bands 30	
<b>F1167-51</b> *	Ban Thap Lamu. Dir Lt B 161-5° *	8 34-73 N 98 13-60 E *	F WRG *	11	5	Red beacon, white stripe *	In line with unlit red beacon (A), white stripe. <b>(P) 2006</b> *
<b>F1167-61</b> *	Ban Thap Lamu. Dir Lt D 205-8° *	8 34-32 N 98 12-92 E *	F WRG *	24	5	Red beacon, white stripe *	In line with unlit red beacon (C), white stripe. <b>(P) 2006</b> *
<b>F9527-498</b> *	- Kikeh Oilfield *	5 52-00 N 114 18-40 E *	Lit *	..	..	Platform *	In line with unlit red beacon (C), white stripe. <b>(P) 2006</b> *



**SECTION – VIII: CORRECTION TO LIST OF RADIO SIGNALS****VOLUME 1, INP 31(1), 2005***(Last correction: Edition No. 20 dated 16 Oct 2006)***PAGE 34, ANDAMAN and NICOBAR ISLANDS (India), CAMPBELL BAY MRSC.**

Delete entry and replace by:

<b>CAMPBELL BAY MRSC</b>			
07°00' N 93°55' E	MMSI 004194410	DSC VHF	
 +91 3193 264235		 +91 3193 264205 & 264215	
Inmarsat C(IOR) 441907910=CPCB X Inmarsat mini M(IOR) 762483771		E-Mail:	762483773@inmarsat.vsnl.com

**BA Notice- 45/06****23/06****PAGE 35, ANDAMAN and NICOBAR ISLANDS (India), DIGLIPUR MRSC (MRCC PORT BLAIR).**

After Port Blair, traffic list Insert new entry:

<b>DIGLIPUR MRSC</b>			
13°18' N 93°04' E	MMSI 004194408	DSC VHF	
 +91 3192 272259		 +91 3192 272345	
Inmarsat C(IOR) 441908110=DGPR X Inmarsat mini M(IOR) 762483768		E-MAIL:	762483770@inmarsat.vsnl.com

**BA Notice- 45/06****23/06****VOLUME 2, INP 31(2), 1995***(Last correction: Edition No. 22 dated 16 Nov 2006)***NIL****BA, VOLUME 3 Part 1, NP 283(1), 2006/07***(Last correction: Edition No. 15 dated 01 Aug 2006)***NIL****VOLUME 5, INP 31(5), 1997***(Last correction: Edition No. 19 dated 01 Oct 2006)***NIL****VOLUME 6, INP 31, 2005***(Last correction: Edition No. 19 dated 01 Oct 2006)***NIL****BA, VOLUME 7, 1999/00-PART 2***(Last correction: Edition No. 16 dated 16 Aug 2000)***NIL****VOLUME 8, INP 31(8), 1999***(Last correction: Edition No. 05 dated 01 Mar 2006)***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) [ Enclosed with editions 1,7,13 & 19 of N to M ]**

### **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: - [nhd@sancharnet.in](mailto:nhd@sancharnet.in); [incho@dataone.in](mailto:incho@dataone.in); [incho\\_marinesafety@dataone.in](mailto:incho_marinesafety@dataone.in)  
[incho\\_navwarnings@dataone.in](mailto:incho_navwarnings@dataone.in); [incho\\_helpdesk@dataone.in](mailto:incho_helpdesk@dataone.in)  
Fax No.: (0135) 2748373  
WEB: [www.hydrobharat.nic.in](http://www.hydrobharat.nic.in)

### **Instructions for filling up Form IH 102 (Enclosed with editions 1,7,13 & 19 of N to M)**

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.	<b>a) NAME OF THE PORT</b> : b) Location : <b>Lat:</b> _____, <b>Long:</b> _____ c) Listing in Guide to Port Entry: <b>Yes/No.</b> _____ <b>Sl. No.:</b> _____	
2.	<b>NAME AND ADDRESS OF PORT AUTHORITIES</b> a) Name b) Address c) Phone d) Fax e) E-mail	
3.	<b>GENERAL REMARKS</b> 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.	<b>ANCHORAGES</b> a) Type / Purpose b) Minimum Depth at anchorage c) Shelter afforded d) Holding ground e) Recommended pilotage to the anchorage	
5.	<b>PILOTAGE</b> a) Authority for requests. b) Embarkation position c) Regulations d) Documents to be provided	
6.	<b>DIRECTIONS</b> a) Entry and berthing information. b) Tides (Height) c) Tidal Streams. d) Navigational aids.	
7.	<b>POLLUTION CONTROL</b> a) Local regulations in force (if any)	

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

18. <b>PORT AUTHORITY</b> Designation, address and telephone number.	
19. <b>SMALL CRAFT FACILITIES</b> a) Information and facilities for small craft /yachts visiting the port. b) Yacht clubs, berths etc.	
20. <b>SHORE LEAVE</b>	
21. <b>CLUBS / RECREATION / INFORMATION KIOSKS</b> – Their location.	
22. <b>VIEWS</b> (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 :** [nhd@sancharnet.in](mailto:nhd@sancharnet.in); [incho@dataone.in](mailto:incho@dataone.in) / [incho\\_marinesafety@dataone.in](mailto:incho_marinesafety@dataone.in)  
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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:**

	<b>Date/Time of observation</b>	<b>Charted</b>	<b>Observed</b>	<b>Position/Area</b>
<b>(a) Bathymetry:</b>				
(i) Depth - .....	.....	.....	.....	.....
(ii) Depth Contour - .....	.....	.....	.....	.....
(iii) Channel Depth - .....	.....	.....	.....	.....
<b>(b) Navigational Dangers:</b>				
(i) New Shoals.....	.....	.....	.....	.....
(ii) New Rocks.....	.....	.....	.....	.....
(iii) New Reefs.....	.....	.....	.....	.....
(iv) New Wrecks.....	.....	.....	.....	.....
(v) New Nav-aid (Specify) - .....	.....	.....	.....	.....
<b>(c) Casualties to existing Nav-Aids:</b>				
(i) Buoys.....	.....	.....	.....	.....
(ii) Lights.....	.....	.....	.....	.....
(iii) Fog signals.....	.....	.....	.....	.....
(iv) Racons.....	.....	.....	.....	.....
(v) Transit Marks .....	.....	.....	.....	.....
(vi) Leading Lines.....	.....	.....	.....	.....
(vii) Clearance bearings.....	.....	.....	.....	.....
<b>(d) Designated Areas:</b>				
(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 to the Government of India

National Hydrographic Office

107 A, Rajpur Road

PO Box No. 75,

Dehradun- 248001

(UTTARANCHAL), INDIA

E Mail : [nhd@sancharnet.in](mailto:nhd@sancharnet.in); [incho@dataone.in](mailto:incho@dataone.in) / [incho\\_marinesafety@dataone.in](mailto:incho_marinesafety@dataone.in)

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*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	<b>Metres</b>	<b>Inches</b>	
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	<b>Inches</b>	<b>Feet</b>	<b>Metres</b>	<b>Factors</b>		
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	<b>Fthms</b>	<b>Metres</b>	<b>Feet</b>	<b>Metres</b>		
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	<b>Factor = 1 m = 3.280839895 feet or</b>					
37	121.391	20.232	93	305.118	50.853	<b>39370078740 inches = 0.546806649 fthm</b>					
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						