



INDIAN NOTICES TO MARINERS FOR 2004

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

EDITION No. 19 DATED 01 OCT 2004

(CONTAIN NOTICES 368 TO 392)

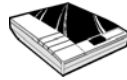
REACH US 24 HOURS A DAY



E-mail to
nho@sancharnet.in
nhd@sancharnet.in



Write to
National Hydrographic Office +91- 135 - 2748373
107-A, Rajpur Road
Dehradun – 248 001
INDIA



Fax to

+91- 135 - 2748373



Contact Person

Deputy Hydrographer
Marine Safety Services
+91- 135 - 2747360-65



visit
www.hydrobharat.org

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	11
IV.	Marine Information	19
V.	Radio Navigational Warnings	20
VI.	Corrections to List of Sailing Direction	22
VII.	Corrections to List of Lights	24
VIII.	Corrections to List of Radio Signals	26
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, 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

Govt. of India Copyright

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



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 368 to 392 contained in this Edition

INDIAN H.O. Chart No.	Folio No.	Notice No.	ADMIRALTY Chart No.	Folio No.	Notice No.
20	1	371	711 (INT 7737)	38	372
21	2	374	827	42	376
32 (INT 754)	5	376	1358	45	380
202	2	374	2149	46	384
203 (INT 7319)	2	374	2375	32	368
251 (INT 7318)	2	374	2523	40	371
256 (INT 734)	3	386 (T)	2886	40	371
259 (INT 7356)	3	375	2887	40	371
271	2	374	3043	32	368
289	1	371	3471	46	383, 384
351	5	378	3777	40	369
354 (INT 7408)	5	387 (T)	3783	40	370
355 (INT 7405)	5	387 (T)	3787 (INT 7245)	40	370
357 (INT 7397)	5	376, 377	3812	40	369
402	6	388 (T)	3946	45	380
409	6	390 (T), 391 (T)	3947	45	380
471	6	390 (T)	4034	45	381
472 (INT 7032)	6	390 (T), 391 (T)	4035	45	381
2003	3	375	4041	46	382
2004 (INT 7359)	3	385 (T)			
2045 (INT 7360)	3	385 (T)			
2053	3	375			
2088	1	373			
2097	1	373			
3009	5	387 (T)			
4003	6	388 (T)			
4013	6	389 (T)			
4016	6	389 (T)			
4034	6	391 (T)			
4035	6	379			
4036	6	390 (T)			
7071 (INT 71)	1	371			
7072 (INT 72)	1	371			
7705 (INT 705)	1	371			

SECTION – II: PERMANENT NOTICES.**368 (19/04) EGYPT – Red Sea Coast – Geziret Safaga Eastwards – Panorama Reef – Beacon.**

Source: BA Notice 4251/04.
(HJ/1134/65)

B.A. Chart 2375 [previous update 243/04]

Delete   PA 26° 45'.00N., 34° 04'.85E.
YB

B.A. Chart 3043 (Plan C, Approaches to Safaga) [previous update 333/01]

Delete   PA 26° 45'.00N., 34° 04'.85E.
YB

369 (19/04) SAUDI ARABIA – East Coast – Approaches to Ra’s Tannurah – Buoy.

Source: BA Notice 4154/04.
(HJ/1132/69)

BA Chart 3777 [previous update 125/03]

Move  Fl.G.6s No. 9 from: 26° 41'.94N., 50° 11'.75E.
G
to: 26° 42'.04N., 50° 11'.75E.

BA Chart 3812 [previous update 129/01]

Move  Fl.G.6s No. 9 from: 26° 41'.94N., 50° 11'.75E.
G
to: 26° 42'.04N., 50° 11'.75E.

370 (19/04) QATAR– Approaches to Mesaieed– Fairway – Pilot boarding place.

Source: BA Notice 4165/04.
(HJ/1132/48)

BA Chart 3783 [previous update N.E. 15/01/04]

Insert  24° 54'.69N., 51° 36'.60E.

BA Chart 3787 (INT 7245) [previous update 467/02]

Insert  24° 54'.69N., 51° 36'.60E.

371 (19/04) IRAN – Shah Allum Shoal – Light. Radar beacon. Rock. Note.

Light list Vol. D, 7683

LRS Vol 2, 7837

Source: BA Notice 4205/04.

(HJ/1132/67)

Chart 20 [previous update 343/04]





Substitute  Tower dest for  Fl(2)12M, and associated radar beacon, Racon (M) 26° 25'.4N., 52° 29'.9E.

Chart 289 [previous update 327/04]

Substitute  Tower dest for  Fl(2)10s 12M (see Note), and associated radar beacon, Racon (M) 26° 25'.4N., 52° 29'.9E.

Delete note, SHAH ALLUM SHOAL, centred on: 27° 39'.0N., 54° 46'.0E.

Chart 7071 (INT 71) [previous update 439/03]

Substitute  for  26° 25'.4N., 52° 29'.9E.



Chart 7072 (INT 72) [previous update 383/02]

Substitute  for  26° 25'.4N., 52° 29'.9E.

Chart 7705 (INT 705) [previous update 345/04]



Substitute  for  26° 25'.4N., 52° 29'.9E.

BA Chart 2523 [previous update 344/04]

Substitute  Tower dest for  Fl(2)10s 35m 12M (see Note), associated radar beacon, Racon (M) (3cm), and symbol, radar reflector 26° 25'.44N., 52° 29'.92E.

Delete note, SHAH ALLUM SHOAL, centred on: 25° 56'.50N., 51° 04'.50E.



BA Chart 2886 [previous update 344/04]

Substitute  Tower dest for  Fl(2)10s 35m12M (see note), associated radar beacon, Racon (M) and symbol, radar reflector 26° 25'.4N., 52° 30'.1E.

Delete note, SHAH ALLUM SHOAL, centred on: 25° 09'.2N., 50° 58'.0E.

legend (*see Note*), centred on: 26° 24'.3N., 52° 32'.7E.

BA Chart 2887 [previous update 253/04]

Substitute  Tower dest for  Fl(2)10s35m12M (see Note), associated radar beacon, Racon (M) and symbol, radar reflector 26° 25'.3N., 52° 29'.9E.


Delete note, SHAH ALLUM SHOAL, centred on: 26° 52'.0N., 55° 12'.0E.

372 (19/04) INDIAN OCEAN – Mauritius – South Coast– Bay Jacotet Southwards–Submarine cables.

Source: BA Notice 4246/04

(HJ/1132/92)

BA Chart 711 (INT 7737) [previous update 145/02]

Insert Submarine cable, , joining: (a) 20° 29'. 88S., 57° 26'.35E.(shore)
 20° 30'. 77S., 57° 26'.47E.
 20° 31'.10S., 57° 26'.15E.
 20° 31'.82S., 57° 26'.03E.
 and
 (a) above
 20° 30'. 77S., 57° 26'. 56E.
 20° 31'. 00S., 57° 26'. 43E.
 20° 31'. 82S., 57° 26'. 40E.

373 (19/04) OMAN– Bandar Khayran – Al Baab al Waaseh and Ra’s al Khayran South-eastwards-Marine farm. Recommended anchorage. Buoy.

Source: BA Notice 4107/04

(HJ/1132/31)

Chart 2088 [previous update 308/04]

Insert  23° 31'.15N., 58° 45'.40E.

Chart 2097 (plan D, Bandar Khayran) [previous update 308/04]

Insert limit of marine farm, pecked line, joining: 23° 31'.29N., 58° 44'.61E.
 23° 31'.23N., 58° 44'.50E.
 23° 31'.22N., 58° 44'.43E.
 23° 31'.24N., 58° 44'.33E.
 23° 31'.35N., 58° 44'.44E.
 (a) 23° 31'.39N., 58° 44'.54E.

Delete , close W of: (a) above

374 (19/04) INDIA – West Coast – Gulf of Kachchh – Depth.

Source: RoS INS Nirdeshak A(N) – 222

(HJ/1131/21)

Chart 21 [previous update 345/04]

Delete depth 19₈ enclosed by 20m contour 22° 30'.05N., 68° 48'.90E.

Chart 202 [previous update 360/04]

Delete depth 19₈ enclosed by 20m contour 22° 30'.5N., 68° 48'.9E.

Chart 203 (INT 7319) [previous update 77/04]

Delete depth 19₈ enclosed by 20m contour 22° 30'.5N., 68° 48'.9E.

Chart 251 (INT 7318) [previous update 360/04]

Delete depth 19₈ enclosed by 20m contour 22° 30'.5N., 68° 48'.9E.

Chart 271 [previous update 103/04]

Delete depth 19₈ enclosed by 20m contour 22° 30'.5N., 68° 48'.9E.

375 (19/04) INDIA – West Coast – Beypore – Radar beacon.

Light List vol. F, 0689
 LRS Vol. 2, 7904.7
 Source: Navarea VIII 480/04
 (HJ/1030/14)


Chart 259 (INT 7356) [previous update 362/04]

Insert  **Racon (G)** 11° 09'.42N., 75° 48'.40E.

Chart 2003 [previous update N.E. 31/03/96]

Insert  **Racon (G)** 11° 09'.42N., 75° 48'.40E.

Chart 2053 [previous update N.E. 31/06/02]

Insert  **Racon (G)** 11° 09'.42N., 75° 48'.40E.

376 (19/04) INDIA – East Coast – Bay of Bengal – Tirukkadaiyur – Radar beacon.

LRS Vol. 2, 7912.5
 Source: DGLL, Noida
 (HJ/1030/10)

Chart 32 (INT 754) [previous update 331/04]


Insert  **Racon (O)** 11° 04'.3N., 79° 50'.2E.

Chart 357 (INT 7397) [previous update 151/03]

Insert  **Racon (O)**, at  Chy (99) 11° 04'.3N., 79° 50'.2E.

B.A. Chart 827 [previous update 218/03]

Insert  **Racon (O)** 11° 04'.3N., 79° 50'.1E.

377 (19/04) INDIA – East Coast – Point Calimere to Chennai (Madras) – Wreck.

Source: RoS INS Darshak I(D) –102
 (HJ/1029/10)

Chart 357 (INT 7397) [previous update 376/04]

Insert  11° 11'.13N., 79° 54'.25E.

 11° 07'.05N., 79° 54'.12E.

378 (19/04) INDIA – East Coast – Approaches to Sandheads – Depth.

Source: RoS INS Darshak L(N) – 70
 (HJ/1129/10)

Chart 351 [previous update 347/04]

Insert  shoal 21° 27'.70N., 89° 12'.46E.

379 (19/04) INDIA – Andaman Sea – Nicobar Island – Campbell Bay – Wreck.

Source: RoS INS Sandhayak N(D) – 71
(HJ/928/76)

Chart 4035 [previous update 324/03]

Insert



07° 00'.05N., 93° 55'.82E.

380 (19/04) MALACCA STRAIT– Indonesia – Pulau Medang-T.Medang – Light.

Light List vol. F, 1395

Source: BA Notice 4232/04.

(HJ/927/28)

B.A. Chart 1358 [previous update 315/04]

Amend range of light to, 19M

2° 07'.49N., 101° 39'.45E.

B.A. Chart 3946 [previous update 315/04]

Amend range of light to, 19M

2° 07'.49N., 101° 39'.45E.

B.A. Chart 3947 [previous update 316/04]

Amend range of light to, 19M

2° 07'.49N., 101° 39'.45E.

381 (19/04) SINGAPORE – Pasir Panjang Wharves – Berth PW3 – Depth. Dredged area.

Source: BA Notice 4214/04.

(HJ/927/16)

B.A. Chart 4034 [previous update 166/04]

Insert maritime limit, pecked line, joining:

1° 16'.459N., 103° 47'.171E. (shore)

1° 16'.440N., 103° 47'.160E.

1° 16'.315N., 103° 47'.368E.

(existing limit)

Amend alongside depth to, 7.0m (2002), centred on:

1° 16'.390N., 103° 47'.269E.

Delete former maritime limit, pecked line, joining:

1° 16'.445N., 103° 47'.163E.

1° 16'.319N., 103° 47'.371E.

and

1° 16'.450N., 103° 47'.185E.

1° 16'.436N., 103° 47'.176E.

B.A. Chart 4035 [previous update 334/04]

Insert maritime limit, pecked line, joining:

1° 16'.459N., 103° 47'.171E. (shore)

1° 16'.440N., 103° 47'.160E.

1° 16'.315N., 103° 47'.368E.

(existing limit)

Amend alongside depth to, 7.0m (2002), centred on:

1° 16'.390N., 103° 47'.269E.

Delete former maritime limit, pecked line, joining:

1° 16'.445N., 103° 47'.163E.

1° 16'.319N., 103° 47'.371E.

and

1° 16'.450N., 103° 47'.185E.

1° 16'.436N., 103° 47'.176E.

382 (19/04) SINGAPORE STRAIT – Indonesia – Teluk Jodoh Northwards – Radar beacon.

Source: BA Notice 4163/04.

*(HJ/927/16)***B.A. Chart 4041** [*previous update 348/04*]Amend radar beacon to, *Racon (D)*, at light-buoy 1° 13'.45N., 103° 57'.70E.**383 (19/04) INDONESIA – Sumatera – East Coast – Selat Bangka –T. Selokan North-westwards – Wreck.**

Source: BA Notice 4136/04.

*(HJ/827/74)***B.A. Chart 3471** [*previous update 422/03*]Insert  *Wk* (a) 2° 21'.70S., 105° 35'.85E.Delete  *Mast*, close N of: (a) above**384 (19/04) INDONESIA – Sumatera – East Coast – Selat Bangka – P. Maspari Westwards and T. Labu Southwards – Wreck. Light.**

Light List Vol. K, 0986

Source: BA Notice 4137/04.

*(HJ/827/63)***B.A. Chart 2149** [*previous update 351/04*]Insert  3° 13'.00S., 106° 11'.20E.

Amend range of light to, 4M 3° 00'.50S., 106° 18'.55E.

B.A. Chart 3471 [*previous update 383/04*]Insert  3° 13'.00S., 106° 11'.20E.

Amend range of light to, 4M 3° 00'.50S., 106° 18'.55E.

SECTION – III: TEMPORARY AND PRELIMINARY NOTICES***385 (T) (19/04) INDIA – West Coast – Kochi (Cochin) Harbour – Buoys. Transit mark.**

Source: Hydrographic Note, INS Sutlej
(HJ/930/90)

1. It is reported that channel marking buoy No 1, No 4 and No 8 are unlit and buoy No 10 Fl R 35s instead of Fl R 5s.
2. Aft transit mark light (09° 58'.60N., 76° 16'.17E.) with low luminescence is visible only from approx. 1 mile distance.
3. Mariners are advised to exercise caution.

Charts affected: 2004 (INT 7359) – 2045 (INT 7360)

***386 (T) (19/04) INDIA – West Coast – Murud-Janjira Harbour to Malvan – Seismic Survey.**

Source: Nav VIII 575/04
(HJ/1030/67)

1. Seismic survey is in progress by MV Sagar Sandhini from 20 Sep 2004 to 20 Jan 2005 in area bounded by

Block A	16° 41'.4N., 72° 19'.4E.	16° 43'.9N., 72° 45'.7E.
	16° 31'.2N., 72° 30'.8E.	16° 28'.7N., 72° 24'.7E.
Block B	16° 56'.2N., 71° 58'.9E.	16° 58'.5N., 72° 04'.8E.
	16° 51'.6N., 72° 07'.6E.	16° 49'.2N., 72° 01'.7E.
2. Vessel towing 2 x 6,000 metres long streamer cables with photosensitive flashers and long yellow buoys.
3. All vessels operating in vicinity to maintain a clearance of 05 NM radius from the ship and exercise caution.

Charts affected: 256 (INT 7340)

***387 (T) (19/04) INDIA – East Coast – Kakinada Port – Light.**

Source: Nav VIII 528/04
(HJ/1029/77)

1. Vakalapudi light house 17° 00'.83N., 82° 17'.06E. reported unlit. A new standby light with reduce range 10NM exhibited.

Charts affected: 354 (INT 7408) – 355 (INT 7405) – 3009

***388 (T) (19/04) INDIA – Andaman Sea – Little Andaman Islands – Port Cornwallis – Wreck. Buoy.**

Source: CGS Ganga Devi
(HJ/1028/36)

1. It is reported that, a wreck of approx 15 metres at 13° 16'.90N., 93° 01'.60E. and a concrete buoy at 13° 17'.43N., 93° 02'.55E. exists in the Ariel Bay.
2. Mariners are advised to exercise caution while navigating in this area.

Charts affected: 402 – 4003

***389 (T) (19/04) INDIA – Andaman Sea – Neill Island – Jetty.**

Source: INLCU L-37
(HJ/928/76)

1. The Neill Island jetty (11° 50'.25N., 93° 02'.00E.) has been extended to 90 m in length in north-east direction.
2. Mariners are advised to navigate with caution and consult local port authorities for the latest information.

Charts affected: 4013 – 4016

***390 (T) (19/04) INDIA – Andaman Sea – Nicobar Islands – Approaches to Pulo Millow – Light.**

Source: Nav VIII 483/04
(HJ/928/76)

1. A new general light has exhibited on trial basis in position 07° 23'.7N., 93° 45'.6E. with flash white every ten seconds at Menchel Island.

Charts affected: 409 – 471 – 472 (INT 7032) – 4036

***391 (T) (19/04) INDIA – Andaman Sea – Little Nicobar Islands – Kabra Island – Light.**

Source: INLCU L-37

(HJ/928/76)

1. It is reported that characteristics of Kabra Island light (07° 17'.3N., 93° 50'.3E.) is changed to Fl 10s.

Charts affected: 409 – 472 (INT 7032) – 4034*** 392 (T) (19/04)****Temporary and Preliminary Notices***(in force as on 01 Oct 2004)***INM 290 (T)/04 is Cancelled.****1. AFRICA EAST COAST, MADAGASCAR, RED SEA, ARABIA, PERSIAN GULF, PAKISTAN**

<u>Notice No.</u>	<u>Charts Affected</u>	<u>Description</u>
228(P)/94	B.A.642 1003	Mozambique – Dredge Channel Buoys.
335(P)/00	BA 3790 2886	ARABIA – Bahrain Southwards – Dawhat Salwa – Depths; Aids to navigation
336(P)/00	BA 3796 3792 3798 3790 2886	ARABIA – Bahrain – Mina Sulman and Approaches – Reclamation; Port developments; Depths; Aids to navigation; Wrecks; Obstructions; Submarine power cables; Restricted areas
81(T)/01	2050	PAKISTAN – Karachi Harbour – Upper Harbour and Bunker Island – Wrecks
149(T)/01	B.A. 3410 3412 3175 3176	ARABIA – United Arab Emirates – Sharjah (Ash Shariqah) – Dredging; Depths
386(T)/01	289	ARABIA – Iran – Abu-Musa – Light-float
254(P)/02	B.A. 642 1003 1811 2930 2938 4172	AFRICA, East Coast – Mozambique – Source data
255(P)/02	B.A. 3775	ARABIA – Saudi Arabia – Ra's Abu 'Ali to Ra's as Saffaniyah – Wellheads; Depths; Posts; Obstructions
277(P)/02	B.A. 3774	ARABIA – Saudi Arabia – Ra's Al Khafji Terminal –Positions
293(T)/02	B.A. 3739 3176 2887 2889	ARABIA – United Arab Emirates-Mina' Jabal ' Ali Northeastwards –Radar reflector
460(P)/02	B.A. 11 2882	ARABIA – Iran – Jazirat –ye Khark and Jaziereh-ye-Kharku – Depths
483(P)/02	B.A. 3713 3715	ARABIA – United Arab Emirates Abu Dhabi Northeastwards (Abu Zaby) – Approaches to Umm an Nar – Buoyage; Lights; Leading line
87 (P)/03	288 20 B.A. 2523 2883 2886	ARABIA – Qatar – Al Shaheen Oilfield – Platforms; Submarine pipeline
118 (P)/03	B.A. 81	RED SEA – Sudan – Sawakin – Berths
196 (P)/03	B.A. 12 801	GULF OF AQUABA – Mersa Morakh Northeastwards to Jordan – El 'Aqaba Industrial Port – Submarine pipeline.
207 (T)/03	B.A. 671 2968 (INT 7000)	SOMALIA – Muqdisho (Moghadishu) – Port development. Pilot boarding place.
221 (P)/03	8010 B.A. 143 157 (INT 7006) 452 (INT 7117) 453 (INT 7116) 1925 1926 3661	RED SEA – East of Jabal Zuqar Island, west and south of Hanish al Kubra, Babel Mandeb – Traffic separation schemes. Routeing measures.
297 (P)/03	288 289 B.A. 3736 (INT 7258) 3737 (INT 7255)	BAHRAIN – Mina' Salman and Approaches – Depths. Wrecks. Reclamation area. Rocks.
327 (P)/03	288 B.A. 3842 3844 3845 3846	ARABIA – Shatt al' Arab – Outer Bar to Khorramshahr – Depth Information. Wrecks. Obstructions.
328 (P)/03	288 B.A. 3842 3844 3845 3846	ARABIA – Shatt al' Arab – Outer Bar to Khorramshahr – Depth Information. Wrecks. Obstructions.
339 (P)/03	B.A. 3783 3787	QATAR – Mesaieed and Approaches – Channel depths. Berths. Dredged area. Buoyage. Anchorage areas. Restricted areas. Submarine pipeline. Mooring buoys. Area to be avoided. Jetty. Light. Outfall.

396 (T)/03	200 250 2049 2093 B.A. 58 (INT 7314) 59 (INT 7316)	PAKISTAN – Port Muhammad Bin Qasim – Maintained channels. Buoyage. Depths. Light beacons. Radar beacon.
411 (P)/03	20 289 8004 B.A. 2887 2889 3176 3412 3739 (INT 7220)	UNITED ARAB EMIRATES – Mina’ Jabal ’Ali Northeastwards and Northwestwards – Reclamation areas. Restricted areas. Buoyage. Submarine cables.
441 (T)/03	B.A. 3787	QATAR – Approaches to Doha (Ad Dawhah) – Buoyage. Light-beacons.
46 (T)/04	B.A. 1235 1238	IRAQ – Khawr ’Abd Allah – Depths.
105 (P)/04	20 288 B.A. 1235 1265 2884 (INT 7278) 3773	IRAQ – Khawr ’Abd Allah – Danger areas.
106 (P)/04	20 289 B.A. 3410 3412	UNITED ARAB EMIRATES – Sharjah – Hamriyah – Dredged areas. Light-beacons. Buoyage. Works.
136 (P)/04	20 B.A. 3599	IRAN – Eastern entrance to Khuran (Clarence Strait) – Jazireh-ye-Qeshm Koveh – Jetty. Buoyage. Depths.
172 (P)/04	B.A. 1358 3933 3947 4041	SINGAPORE STRAIT – Malacca Strait – Indonesia – Pulau Batam. North Coast to Sumatra, East Coast, Dumai – Submarine Cable.
271 (P)/04	B.A. 724	INDIAN OCEAN – Seychelles – La Digue – La Passe – Breakwater.
272 (P)/04	B.A. 1235 (INT 7289) 1265 (INT 7291) 2884 (INT 7278) 3773	IRAQ – Khawr al Amaya Terminal and Al Basrah (Al Bakr) Terminal – Maritime limits.
273 (P)/04	B.A. 1238	IRAQ – Khawr Az Zubayr – Depths.
338 (P)/04	8004 B.A. 2887 2889 3175 3176 3411 3412 3739 (INT 7220)	UNITED ARAB EMIRATES – Approaches to Dubayy – Works.
352 (P)/04	20 288 B.A. 1224 2882 2884 (INT 7278) 3773 3774	SAUDI ARABIA – East Coast – Approaches to Ra’s al Khafji – Traffic separation scheme.
353 (P)/04	20 289 8004 B.A. 2851 3171	IRAN – Off Ra’s al Kuh – Traffic separation scheme.

2. INDIA WEST COAST - INDIAN OCEAN

110(T)/92	2018 2080 203	India –West Coast –Approaches to Kandla Light buoy amended.
302(T)/97	2001 2015 2016	India –West Coast –Bombay Harbour – Cross Island – Mooring buoy
52(T)/98	2016 211	India –West Coast –Bombay Harbour: Buoy
75(T)/98	256	India –West Coast –Angria bank: Buoy
354(T)/98	2016 211	India –West Coast –Bombay Harbour – Buoy
448(P)/98	2016 2076 2015 211 255	India –West Coast –Bombay Harbour – Wreck
162(P)/99	217 2002 2052	India –West Coast – New Mangalore & Approaches – Dredging; New Construction
260(T)/99	255	India West Coast – Approaches to Bombay – Bombay high, Oilfield development area – Platform
96(T)/00	2008 215	India – West Coast – Karwar Harbour and Approaches – Wrecks
131(T)/00	2016 211 255	India – West Coast – Bombay Harbour – Wreck
201(T)/00	2033 2060 2080 203	India – West Coast – Gulf of Kachchh – Munde Reef – Lighterage area; Chemical and Gas anchorage area
270(P)/00	2008	India – West Coast – Karwar Harbour – Works
319(P)/00	B.A. 711 689 4700	Indian Ocean – Mauritius – Fish aggregating devices
356(T)/00	B.A. 1495	Indian Ocean – La Reunion, Northcoast – Cap Bernurd – Buoy
400(T)/00	211 255	India – West Coast – Off Bombay Harbour – Wreck
424(T)/00	211 255	India – West Coast –Approaches to Bombay Harbour – Wreck

38(T)/01	2008 215	India – West Coast – Karwar Harbour and Approaches – Works
103(T)/01	2008 2009 215 216	India – West Coast – Karwar Harbour and Approaches – Buoy
195(T)/01	2013 2031	India – West Coast – Gulf of Kuchchh – Okha Harbour – Buoy
223(T)/01	2020	India – West Coast – Marmugao – St. George’s Islands – Buoy
271(T)/01	2078 2020 2022	India – West Coast – Bombay Harbour – Wreck
315(P)/01	269	Indian Ocean – British Indian Ocean Territory – Chagos Archipelago – Depths
330(P)/01	2076 2016	India – West Coast – Mumbai Harbour – Jawahar Lal Nehru Port – Port Development
358(T)/01	2078 (INT 7346) 2020 2022	India – West Coast – Port of Mormugao – Fouls
359(P)/01	B.A. 722	Indian Ocean – Seychelles – Mahe – Vectoria and approaches – Dredging; Works
407(T)/01	2100 2056 2081	India – West Coast – Pipavav Port – Prohibited Area, Leading Transit
83(T)/02	B.A. 713 711	Indian Ocean – Mauritius – Port Louis – Lights
102(P)/02	2044 2101	India – West Coast – Approaches to Hazira – Submarine pipeline
142(P)/02	2101 2044 208 209	India – West Coast – Gulf of Khambhat – Oil Field Developments; Anchoring Prohibited Area.
294(P)/02	2008 2009 215	India – West Coast – Off Karwar – Prohibited Area
337(T)/02	2045 (INT 7360) 2004 2029 (INT 7358) 220	India – West Coast – Port of Cochin – Channel depths, buoys
353(T)/02	7070 (INT 70) 7073 (INT 73) 7707 (INT 707)	Indian Ocean – Maldives to Sumatera – Triton Observation buoys
371(T)/02	223 262	India – South Coast – Southeast of Kolachel Port – Submerged Object
372(P)/02	224 317 262	India – South Coast – North of Gulf of Mannar – Depths
409 (P)/02	2008 257 (INT 7343) 216	India – West Coast – Bingo Bay – Dredging; Depths
446 (T)/02	2025 217 258 (INT 7348)	India – West Coast – Approaches to Manglore Harbour – Sunken Pontoon
484 (T)/02	2040 204 205 252 (INT 7325)	India – West Coast – Porbandar Harbour – Buoy
159 (T)/03	B.A. 2757 2741 563	INDIAN OCEAN – Comores – Ile de Mayotte – Fish aggregating devices
161 (T)/03	2076 2015 (INT 7337) 2016 211	India – West Coast – Approaches to Mumbai Harbour – Wave Rider buoys
176 (P)/03	2076 2016	India – West Coast – Jawaharlal Nehru Port – Jetty
197 (T)/03	211 255 292 21	INDIA WEST COAST – Approaches to Mumbai – Neelam Heera and Ratna Oilfield area
209 (T)/03	2040	INDIA – West Coast – Porbandar Anchorages – Depths
211 (T)/03	211 255 (INT 7334) 292 2016 2076	INDIA – West Coast – Mumbai Harbour – Buoy
220 (T)/03	7702 (INT 702)	INDIA – Indian Ocean – Chagos Archipelago to Madagasikara – La Reunion to Mauritius – Submarine cable
224 (T)/03	21 22 211 255 (INT 7334) 292 2016	INDIA – West Coast – Approaches to Mumbai Harbour – Wreck
225 (T)/03	2022	INDIA – West Coast – Port of Mormugao – Data buoy
233 (T)/03	21 292 7705 (INT 705)	INDIA – West Coast – Arabian Sea – Data buoy
234 (T)/03	2101 2019 2044 209 208	INDIA – West Coast – Approaches to Hazira – Buoy
270 (T)/03	2082 2039	INDIA – West Coast – Dahej Harbour – Breakwater
355 (T)/03	209 2019 2101	INDIA – West Coast – Approaches to Hazira – Drying Patch, Lighterage area.
356 (T)/03	21 292	INDIA – West Coast – Dwaraka to Bombay – Buoy.
379 (T)/03	268 (INT 7353) 273	INDIA – Indian Ocean – Central Lakshadweep – Databuoy.
413 (P)/03	268 (INT 7353) 273 2007	INDIA – Lakshadweep – Androth Island – Breakwater. Beacon.

47 (T)/04	2056 2081 2100	INDIA – West Coast – Pipavav West Channel – Buoy.
48 (T)/04	207 254	INDIA – West Coast – Diu Head to Gopnath Point – Danger to navigation.
62 (P)/04	220 259 (INT 7356) 260 (INT 7362) 2004 2045	INDIA – West Coast – Cochin harbour – Buoys.
92 (T)/04	208 209 2019 2044	INDIA – West Coast – Approaches to Magdalla – Submarine Pipeline.
93 (T)/04	22 273	INDIA – West Coast – Arabian Sea – Off Minicoy Island – Buoy.
108 (T)/04	203 (INT 7319) 271 2031 2068 7705 (INT 705)	INDIA – West Coast – Gulf of Kachchh – Buoy.
110 (T)/04	2044	INDIA – West Coast – Gulf of Khambat (Cambay) – Southern Portion – Antenna Tresel Tower.
121 (P)/04	208 209 254 2019 2044 2101	INDIA – West Coast – Approaches to Magdalla – Drilling.
137 (T)/04	21 203 2068 7705 (INT 705)	INDIA – West Coast – Gulf of Kachchh – Ballast Split.
139 (T)/04	2020 2022 2078 (INT 7346)	INDIA – West Coast – Port of Mormugao – Buoy.
195 (T)/04	292 (INT 7021)	ARABIAN SEA – Muscat to Bombay – Data Buoy.
198 (T)/04	272	INDIA – West Coast – Bombay to Cape Comorin – Data Buoy.
199 (T)/04	22	INDIA – West Coast – Bombay to Cape Comorin – Data Buoy.
200 (T)/04	207 254	INDIA – West Coast – Diuhead to Gopinath Point – Narmada Banks – Buoy.
201 (T)/04	214 2020 2022 2078	INDIA – West Coast – Approaches to Mormugao and Panaji – Data buoy.
216 (T)/04	219 258 (INT 7348) 272	INDIA – West Coast – Off Badagara – Wreck.
230 (T)/04	2031 2068	INDIA – West Coast – Gulf of Kachchh – Buoys.
231 (T)/04	203 (INT 7319) 2060 2068	ARABIAN SEA – India – Gulf of Kachchh – Lighterage operations.
233 (T)/04	207 253 254 292	INDIA – West Coast – Approaches to Gulf of Khambat – Buoyage.
234 (T)/04	2015 2016 211 255 292	INDIA – West Coast – Port of Mumbai – Prongs Reef – Buoys.
235 (T)/04	2004	INDIA – West Coast – Cochin Harbour – Kochi (Cochin) Entrance Channel – Buoyage.
236 (T)/04	217 258 (INT 7348) 2002 (INT 7351) 2052 (INT 7350)	INDIA – West Coast – Ports of New Mangalore and Mangalore – Intimation.
237 (T)/04	216 2024	INDIA – West Coast – Honavar Port – Intimation.
238 (T)/04	216 217 258 (INT 7348) 2073	INDIA – West Coast – Bhatkal, Malpe – Intimation.
274 (P)/04	2002 (INT 7351)	INDIA – West Coast – Ports of New Mangalore and Mangalore – Deep Draft Berth.
285 (T)/04	214 257 (INT 7342) 2020 2022 2078 (INT 7346)	INDIA – West Coast – Port of Mormugao – Buoyage.
300 (T)/04	B.A. 1495 (INT 7736) 1497 (INT 7735)	INDIAN OCEAN – La Reunion – Approaches to La Reunion – Fish havens.
301 (P)/04	B.A. 1495 (INT 7736) 1497 (INT 7735)	INDIAN OCEAN – La Reunion – North West Coast – Anchorage areas. Restricted areas. Submarine cables.
302 (T)/04	2013 2031 2055 2068	INDIA – West Coast – Gulf of Kachchh – Port of Okha – Buoy.
303 (P)/04	22 (INT 752) 214 257 (INT 7343) 2020 2022 (INT 7345) 2078 (INT 7346)	INDIA – West Coast – Port of Mormugao – Jetty.
304 (T)/04	206	INDIA – West Coast – Veraval to Diu Head – Off Mul Dwaraka – Danger to Navigation.
305 (T)/04	31 32 (INT 754) 33 313 315 356 3001 (INT 7402) 3028	INDIA – West and East Coast – Off Ratnagiri, Chennai, Ennore, Ramyapatnam, Machalipatnam, Paradip – Data Buoy.

320 (P)/04	2039 2082	INDIA – West Coast – Gulf of Khambat – Dahej harbour – Outfall. Buoy.
321 (T)/04	257 (INT 7343) 2022 (INT 7345)	INDIA – West Coast – Approaches to Mormugao – Buoy.
354 (P)/04	2021 2068	INDIA – West Coast – Gulf of Kachchh – Mundra Port – Anchorage area. Submarine pipeline. Buoy.

3. INDIA EAST COAST - ANDAMAN NICOBAR, SRI LANKA

247(P)/95	4030 405 473	India –Andaman Islands – Depth; Rocks
163(T)/99	41 451	India – Andaman Sea – Gulf of Martaban – Oil Development Area
360(T)/99	3012 3002	India –East Coast – Visakhapatnam Harbour – Buoy
57(T)/00	2075	India –Southeast Coast – Tuticorin Harbour – Buoy
81(T)/00	452 451 411 410 41	India–Andaman Sea – Gulf of Martaban – Wreck
146(P)/00	3018 360	Bangladesh –Approaches to Pussur River –Zulfiquar Channel –Buoyage;Depths
82(T)/01	2075	India – Southeast Coast – Tuticorin Harbour – Buoy
317(P)/01	3012 (INT 7411)	India – East Coast – Visakhapatnam Harbour – Port Developments
318(T)/01	315 316 317 358	India – East Coast – Palk Strait – Wreck
122(T)/02	2075 224 262	India – South East Coast – Tuticorin Harbour – OTEC Plant
209(T)/02	3004 (INT 7403) 3001	India – East Coast – Chennai harbour – Madhusudan Dry Dock– Berth
210(T)/02	4003 402	India – North Andaman Islands – Port Cornwallis – Beacon under construction
261(T)/02	354 (INT 7408) 31 32	India – East Coast – Sacramento Shoal to Kalingapatnam – Unexploded Charges
295(T)/02	3012 (INT 7408) 3002 (INT 7408)	India – East Coast – Visakhapatnam Harbour – Berth, Intimation
391 (T)/02	3012 (INT 7411) 3002 (INT 7410)	India – East Coast – Visakhapatnam Harbour – Emergency Anchorage Area
430 (T)/02	3012 (INT 7411) 3002 (INT 7410)	India – East Coast – Visakhapatnam Harbour – Berth
431 (T)/02	3011 301	India – East Coast – Hugli River – Buoy
448 (T)/02	4012 4006 4016 404 405	India – Andaman Sea – Port Blair Harbour – Salvage Operation
63 (T)/03	4001 4014 403	India – Bay of Bengal – Middle Andaman – Rangat Bay – Beacon
64 (T)/03	4004 4013 4015 404 409	India – Andaman Sea – Campbell bay and Havelock Island – Lights, dolphins
65 (T)/03	4005 4017 408	India – Andaman Sea – Noncowry Harbour – beacons
91 (T)/03	3012 (INT 7411) 3002 (INT 7410)	India – East Coast – Vishakhapatnam outer harbour – Berth
124 (T)/03	3012 (INT 7411)	India – East Coast – Vishakhapatnam Inner Harbour – Bulk
162 (T)/03	2075 (INT 7366) 2037 263 262 224 32	India – Southeast Coast – Tuticorin Harbour – Damaged Barge Shiva-2
227 (T)/03	3010	INDIA – East Coast – Approaches to Paradip Port – Berths
252 (P)/03	3008 3026 355 (INT 7405) 356 31 32 (INT 754)	INDIA – East Coast – Vadarevu Anchorage – Light
269 (P)/03	4012 4006 4016	INDIA – South Andaman Islands – Port Blair – Jetty
299 (P)/03	2063	SRILANKA – West Coast – Colombo Harbour and Approaches – Dredged area. Buoyage. Channel limits. Berths.
330 (P)/03	225 263 264 2063	SRILANKA – West Coast – Ona Gala Shoal Northweswards – Mooring Buoy. Submarine Pipeline. Restricted areas.
342 (T)/03	355	INDIA – East Coast – Ramaypatnam to Sacramento Shoal – Unexploded charges.
343 (P)/03	4032	INDIA – Nicobar Islands – Sawai Bay and Malacca Anchorage – Breakwater, Beacon.

380 (T)/03	315 316 358	INDIA AND SRILANKA – Palk Strait – Wreck.
398 (T)/03	472 (INT 7032)	INDIA – Bay of Bengal and Andaman Sea – Nicobar Islands – Buoy.
414 (P)/03	31	INDIA – East Coast – Off Paradip – Databuoy.
424 (T)/03	308 354 (INT 7408)	INDIA – East Coast – Outer Approaches to Vishakhapatnam – Unexploded charges.
445 (T)/03	409 4035	INDIA – Andaman Sea – Nicobar Island – Campbell Bay – Danger to Navigation.
49 (T)/04	356	INDIA – East Coast – Off False Divi Point- Danger to Navigation.
51 (T)/04	308 354 (INT 7408)	INDIA – East Coast – Outer approaches to Vishakhapatnam – Seismic Survey.
52 (T)/04	31 353 (INT 7413)	INDIA – East Coast – Kalingapatnam to Gopalpur – Unexploded Charges.
63 (T)/04	409 4035	INDIA – Andaman Sea – Nicobar Islands – Campbell Bay – Danger to navigation.
76 (P)/04	355 (INT 7405) 3008 3026	INDIA – East Coast – Nizampatnam Anchorage – Construction.
95 (T)/04	354 (INT 7408) 355 (INT 7405)	INDIA – East Coast – Off Sacramento Shoal – Seismic Survey.
122 (T)/04	31 354 (INT 7408) 7706 (INT 706)	INDIA – East Coast – Sacramento shoal to Kalingapatnam – Explosives.
141 (T)/04	3013	INDIA – East Coast – Hugli River, Haldia to Kukrahati Reach – Buoy.
175 (T)/04	32 (INT 754)	INDIA – SRILANKA – Palk Bay Western Portion – Wreck.
177 (T)/04	31 32 (INT 754) 354 (INT 7408)	INDIA – East Coast – Off Kakinada – Research work.
193 (T)/04	225 2064	SRILANKA – West Coast – Colombo, Weligama Bay and Beruwala Point Westwards – Depths. Wreck. Rocks. harbour limit. Port development.
202 (T)/04	354 (INT 7408)	INDIA – East Coast – Sacramento Shoal to Kalingapatnam – Explosives.
203 (T)/04	355 (INT 7405) 356	INDIA – East Coast – Bay of Bengal – Moorings.
219 (T)/04	31 (INT 706)	INDIA – East Coast – Bay of Bengal – Wreck.
240 (T)/04	4006 4012	INNER HARBOUR – Port Blair – Floating Dock.
287 (P)/04	3010	INDIA – East Coast – Paradip Port – Breakwater.
288 (T)/04	351 352 (INT 7416)	INDIA – East Coast – Bay of Bengal – Drilling Operations.
289 (T)/04	404 4016	INDIA – Andaman Island – Kotara Anchorage to Port Blair – Wreck.
322 (P)/04	225 2067 B.A. 819 3700	SRILANKA – South Coast – Galle Harbour and Approaches – Maintained channels. Depths. Buoyage. Leading lights.
323 (T)/04	3028	INDIA – East Coast – Ports of Ennore – Jetty.
339 (P)/04	4011 4017	INDIA – Nicobar Islands – Katchall Island – Approaches to East Bay – Beacons.
355 (P)/04	308 354 (INT 7408) 3002 (INT 7410) 3012 (INT 7411)	INDIA – East Coast – Vishakhapatnam Harbour – Berth.
356 (P)/04	4019	MYANMAR – Rangoon River – Wreck. Depths. Port development. Lights.
366 (T)/04	313 356	INDIA – East Coast – Off Pulicat – Unexploded Charges.
367 (T)/04	308 354 (INT 7408)	INDIA – East Coast – Outer approaches to Visakhapatnam – Unexploded Charges.

4. MALACCA STRAIT, SINGAPORE STRAIT AND SUMATERA

245(P)/00	B.A 3833 3948 3949 2403 1358 3543 1312	SINGAPORE STRAIT and SOUTH CHINA SEA – Singapore to Peninsular Malaysia, East Coast – Selat Durian, Selat Pengelap and P. Tinggi Eastwards – Submarine cable
144(P)/02	B.A. 918	INDONESIA – Jawa, North Coast – Merak Southwards – Jetty; Pilot boarding place; Anchorage area
374 (P)/02	B.A. 934	INDONESIA – Jawa, North Coast – Tanjungpriok – Depths, Works
432 (T)/02	B.A. 4030 4031 4032 4033 4034 4035 2570 4039 4040 4041 4044	SINGAPORE STRAIT – Singapore – Jurong Island, Pulau Busing, Pulau Bukom, Pulau Sebarok and Sembawang – Restricted areas
67 (T)/03	B.A. 792	MALACCA STRAIT – Peninsular Malaysia – Pulau Pangkor Northeastwards – North West Channel – Depths

206 (P)/03	B.A. 2403 3833 4030 4031 4032 4038 4039 4040 5502	SINGAPORE STRAIT – Singapore – Jurong Island Southwards – Tanker mooring buoys. Restricted areas. Submarine pipelines.
283 (P)/03	B.A. 4030 4031 4032	SINGAPORE STRAIT – Indonesia and Singapore –Pulau Pemping Besarto Jurong Island –Submarine pipeline.
344 (T)/03	B.A. 1358 3947	MALACCA STRAIT – Malaysia – Water Islands to Tanjour Tohor – Dredging area
345 (T)/03	B.A. 1311 1312 2403 2414 3543	MALAYSIA – Peninsular East Coast – Singapore Strait, Eastern Approaches – North Channel – Ramunia Shoals – Dredging area.
381 (P)/03	B.A. 3482 (INT 550) 3543	MALAYSIA – Peninsular East Coast – Tapis Oilfield Southwestwards – Offshore installations.
382 (T)/03	B.A. 4038 4034 4044	SINGAPORE – West Coast and Pulau Ubin, North Coast – Works.
383 (T)/03	33 41 B.A. 400 1353 2760 2777 2917 3574 3919 3920	INDONESIA –Sumatera – North and Northwest Coasts – Restricted area.
144 (P)/04	B.A. 3833 4038	MALAYSIA – Peninsular Malaysia, West Coast – Pelabuhan Tanjung Pelepas – Buoyage. Dredged areas. Port developments.
145 (P)/04	B.A. 3948	INDONESIA – Sumatera – East Coast – Pulau Batam Southwards – Submarine pipeline.
194 (P)/04	B.A. 3948	INDONESIA – Sumatera – East Coast – Pulau Batam Southwards – Submarine Pipeline.
276 (P)/04	B.A. 3833 4030 4031 4038 4039 4040	SINGAPORE STRAIT – Singapore – Raffles Shoal – Depths. Works.

Cancelled Notices

<u>Area</u>	<u>Notice No.</u>	<u>Ref. No.</u>
1	146/04	INM 290/04
2	208/03	INM 300/04
3	341/03	INM 305/04
3	94/04	INM 305/04
2	286/04	INM 305/04
2	296/00	INM 310/04
1	442/04	INM 338/04
3	331/04	INM 339/04
3	325/04	INM 356/04
3	324/04	INM 363/04

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 01 Oct 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	337	2001 series: 510 2003 series: 261 417. 2004 series: 220 222 240 242 255 257 281 287 288 290 301 303 305 312 313 314 316 317 319 325 327 332 334 335 336 337.
II	E. Atlantic	Nil	2002 series: 472 497 2004 series: 266.
III	Mediterranean	486	2004 series: 393 401 402 403 409 430 432 447 448 453 454 455 459 463 466 467 472 474 475 476 477 478 479 485 486.
IV	N.W. Atlantic	275	2003 series: 108. 2004 series: 128 198 226 232 243 265 270 271 272 273 274 275.
V	W. Atlantic	Nil	2001 series: 1368. 2003 series: 1346. 2004 series: 606
VI	S.W. Atlantic	Nil	Nil.
VII	S.E. Atlantic	126	2004 Series: 111 114 115 116 118 121 123 124 125 126.
VIII	Indian Ocean	594	2004 series: 412 436 439 450 454 462 464 470 481 482 483 484 485 511 519 520 523 527 528 531 532 538 539 545 546 551 556 560 561 562 575 576 577 585 586 587 588 590 591 592 593 594.
IX	Persian Gulf, Red Sea, NW Arabian Sea	224	2001 series : 312. 2003 series : 023 120 138 177 236 237 239 273. 2004 series : 025 036 070 079 088 107 109 133 134 135 151 156 167 184 187 192 194 196 205 206 207 208 214 217 218 221 223 224.
X	Australia, New Guinea	010	2004 series: 007 009 010.
XI	Malacca Strait, China Sea, N. Pacific	0422	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 0074 0083 0091 0227 0246 0267 0271 0272 0283 0285 0321 0331 0338 0339 0350 0361 0366 0367 0380 0389 0390 0391 0393 0394 0395 0396 0397 0398 0399 0402 0415 0416 0418 0419 0420 0421.
XII	N.E. Pacific	227	2004 series: 186 197 218 225 226 227.
XIII	N.W. Pacific	Nil	Nil
XIV	S.W. Pacific	062	2004 series: 052 054 057 059 062.
XV	S.E. Pacific	Nil	Nil
XVI	E. Pacific	Nil	1998 series: 151 2004 series: 166
Hydropacs	Pacific, Indian Ocean	1316	2001 series: 1976. 2002 series: 205 206 2330. 2003 series: 207 506 993 998 1041 1330 1395 1699 1911 1982 2265. 2004 series: 23 278 329 402 455 694 727 754 763 776 778 779 795 801 817 840 842 843 890 891 904 910 932 940 948 967 981 988 996 1000 1011 1025 1033 1044 1049 1050 1052 1066 1076 1081 1082 1084 1089 1090 1092 1096 1101 1107 1112 1113 1115 1122 1123 1124 1127 1128 1135 1138 1139 1143 1146 1151 1152 1153 1155 1156 1157 1167 1177 1180 1182 1192 1193 1214 1215 1216 1218 1219 1220 1221 1222 1225 1227 1229 1232 1233 1238 1239 1244 1254 1263 1265 1266 1268 1271 1272 1273 1274 1275 1278 1281 1282 1284 1285 1286 1288 1289 1293 1295 1297 1298 1305 1306 1309 1310 1311 1312 1313 1314 1316.
Hydrolants	Atlantic, Mediterranean	1340	2002 series: 245 246 . 2003 series: 604 1422 1472 1999 2203 2297 2406 2407 2408 2409 2410 2413 2414 2416 2418 2419 2420. 2004 series: 224 272 631 649 650 668 805 850 952 1018 1019 1033 1042 1051 1077 1084 1087 1092 1103 1104 1105 1121 1130 1136 1141 1146 1162 1174 1195 1199 1214 1219 1220 1231 1235 1240 1241 1250 1251 1252 1256 1265 1266 1269 1271 1272 1274 1276 1279 1280 1286 1290 1297 1298 1300 1303 1308 1311 1314 1320 1323 1325 1326 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340.

SECTION – VI: CORRECTIONS TO SAILING DIRECTION**Corrections affecting Indian Sailing Directions***(In force as on 01 Oct 2004)*

INP/NP Page No.	Title	INM Edition No.
1.	<u>West Coast of India Pilot (Edition 2003)</u>	
224	Mumbai (Bombay) Approaches – Offshore routes	18/04
249	Jafarabad Harbour – Clinker Jetty	10/04
251	Pipavav Bandar and Pipavav Port - Jetty	16/04
297	Port Muhammad Bin Qasim – Pilot Boarding Station	16/04

Corrections affecting Admiralty Sailing Directions*(in force as on 01 Oct 2004)*

3	<u>Africa Pilot Vol. III (13th Edition 1980)</u>	
3	South Africa - Withdrawal of Decca Chain coverage	10/98
2,70,86, 113,121, 228,270	South Africa - Practice and Exercise area	21/97
119	Africa - Richards Bay - Pilotage - Helicopter Rendezvous Areas	02/97
21	<u>Bay of Bengal Pilot (10th Edition 1978)</u>	
3	Regulations for ship carrying dangerous and polluting goods	07/98
3	Regulations for Ship carrying dangerous and polluting goods	21/98
62	Kakinada - Port Facilities	17/97
73	Approaches to Hugli River - Pilotage	14/97
74-76	River Hugli Approaches – Buoyage	04/99
36	<u>Indonesia Pilot Vol. I (2nd Edition 1996)</u>	
44,45	Tanjungpriok - Anchorage Area	05/96
44	<u>Malacca Strait and West Coast of Sumatera Pilot (6th Edition 1987)</u>	
87,88	Malacca Strait and West Coast of Sumatera - Prohibited Area	16/94
148	Approaches to Pinang - Pulau Rimau light replaced	16/94
93,178		
228,245	Views and Quarantine Anchorage delete	16/94
231	Views and Quarantine Anchorage replaced	16/94
228,231	Singapore - Anchorage	15/95
228,230	Singapore - Anchorage Removed	04/96
4,45,46, 202,203,		
221	Singapore Strait - Rules for Vessels Navigating	08/96
247,248	Malacca Strait - Restricted Areas removed	28/96
46	Malacca Strait and West Coast of Sumatera - Singapore VTIS	07/97
238	Singapore - Pulau Seraya and Pulau Ayer Merban Pipeline Bridge	08/97
222,223,225,		
227,228	Singapore - Fairways and Anchorages	21/97
45,202	Singapore Strait - Crossing ferries	24/97
229,268	Singapore - Pilot area and boarding grounds	24/97
2	IMO Adopted Traffic Separation Schemes	04/99
44, 46	IMO Adopted Traffic Separation Schemes	04/99
202-203	IMO Adopted Traffic Separation Schemes	04/99

209, 222,		
224,233	Selat Pesek – Closure to through Traffic	04/99
234	Selat Pesek – General Information	04/99
235	Directions for Selat Pesek	04/99
127	Approaches to Phuket – Wreck	10/00
63	<u>Persian Gulf Pilot (12th Edition 1982)</u>	
2	Oman – Firing Practice Areas	21/98
3	Decca Chain 1C/MP (Gulf Chain) - Withdrawn	02/98
155	Mubarraz Oil Terminal - Pilotage and Anchorage	04/95
64	Seeb - Bayt al Barakat - Entry Prohibited Area	07/95
71	Fujayrah - Anchorage Regulations	12/95
119	Jazireh-ye Lavan Oil Terminal-Buoys	18/95
65	Said bin Sultan Naval Base-Name Change	21/95
122	Bandar Taheri (Kangan) - Offshore Terminal	21/95
165,167,		
168	Jubal az Zannah-Approaches:Facilities	08/96
165	Jubal az Zannah - Outer Anchorage area moved	13/96
178	Persian Gulf Pilot -Ra's Laffan Anchorage Areas, Pilots	25/96
217	AI Kuwait – Inner Shuwaykh Channel – Leading marks	21/98
242	Oman – Firing Practice Areas, see Appendix I	21/98
129-131	Jazireh-Ye Khark – Lights, marks, names	04/99
15,158, 159	Arzana Oilfield – Loading Terminal	05/99
71	Fujairah – Anchorages and Tanker Terminal	05/99
72,73	Khawr Fakkan – Pilots, Anchorages & Berths	05/99
64	<u>Red Sea and Gulf of Aden Pilot</u> <u>(12th Edition 1980 Revised 1987)</u>	
96	Hurghada-Direction-North Entrance	04/96
172	Moshtarak and Moutah - Pilot Boarding Points	05/96
70	Suez Canal - Tidal Set	
111,112	Safaga Island - Light beacon	23/96
172	Red Sea and Gulf of Aden - Marine Peace Park	07/97
249	Red Sea and Gulf of Aden - Mina Raysat entrance buoy	07/97
166	Sharm el Sheikh - Area to be avoided	08/97
104	Avocet Rock – Caution	04/99
100	<u>The Mariners Hand Book (6th Edition 1989)</u>	NP 2/96
136	Ocean Passage for the World (4th Edition 1987)	-

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 7456.2	-	27 56.0 49 40.7	Fl W 20s	15	8	Yellow framework tower 12	Destroyed (T) 2004 *
D 7585.53	-NEW OIL PIER. Berth 4. N Dolphin ----	29 04.23 48 10.20 ...	Fl R 4s Horn Mo(U) 60s	...	6		 *
*	*	*	*	*	*	*	*
D 7585.55	-- Berth 2. S Dolphin	29 03.50 48 10.32	Fl R 4s	...	6		
*	*	*	*	*	*	*	*
D 7585.57	-- Berth 1. S Dolphin	29 03.49 48 10.27	Fl R 4s	...	6		
*	*	*	*	*	*	*	*
D 7705.6	<i>Abu Musa Lt F</i>	25 59.0 55 01.0	Fl W 12s	...	12	Yellow hull	Ra refl *
E 6035	- Gubal Island. Bluff Point	27 40.8 33 48.4	Fl W 5s	24	15	White GRP tower 10	Racon. TR 2004 *
E 8286	- Oil Platform. No 1 ---	28 04.0 33 23.1 ...	Mo(U)W 15s Horn Mo(U) 30s	12	10	Platform	TE/TR 2004 *
F 0755.5	Kavaratti Island	10 33.7 72 38.9	Fl W 5s	40	18	White concrete tower 38	<i>fl 0.3</i> Racon (K). TE 2004 *
F 9522.62	-- Tanker ---- ---	5 13.21 105 36.36 *	Mo(U)W 15s Mo(U)R 10s Horn Mo(D)	...	5 3 3 *	... ... ... *	Shown on bow and stern On bow *
F 9526.53	-- BAJT-I * *	4 40.96 113 53.80 *	Lit *	... *	... *	Platform *	 *
F 9526.533	-- BAJT-H * *	4 40.71 113 52.80 *	Lit *	... *	... *	Platform *	 *
F 9526.536	-- BAKP-B * *	4 40.56 113 51.00 *	Lit *	... *	... *	Platform *	 *
F 9527.42	-- Egret * *	4 59.26 114 12.19 *	Lit *	... *	... *	Platform *	 *

<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>
F 9527.485 *	- Maharaja Lela Oilfield. MLJ1 *	5 23.99 114 41.34 *	Lit *	...	...	Platform *	Racon *
K 0826	-No 1 (COM) *	12 06.33 96 51.81 *	Q W	3	3	△ on beacon *	
K 0826.1	- Griffiths (COM) *	12 06.74 96 51.68 *	Fl W 3s	7	2	▽ on beacon *	<i>fl 1</i>
K 0826.2	-No 2 (COM) *	12 06.57 96 51.92 *	Fl R 2.5s *	2	2	□ on beacon *	
K 0826.4	-No 3 (COM) *	12 06.68 96 51.87 *	Fl G 2.5s *	3	3	△ on beacon *	
K 0826.6	-No 4 (COM) *	12 06.70 96 51.91 *	Fl R 2.5s *	2	2	□ on beacon *	
K 0826.8	-No 5 (COM) *	12 06.77 96 51.82 *	Fl G 2.5s *	3	3	△ on beacon *	
K 0827	-No 6 (COM) *	12 06.84 96 51.80 *	Fl R 2.5s *	2	2	□ on beacon *	
K 0827.2	- (COM) *	12 06.78 96 52.00 *	Fl(4)W 10s *	3	3	Black beacon	
K 0827.4	-No 8 (COM) *	12 07.00 96 51.41 *	Fl R 2.5s *	2	2	□ on beacon *	
K 0828 *	-No 12 (COM) *	12 07.52 96 50.57 *	Fl R 2.5s *	...	...	□ on beacon *	
K 0829 *	- (COM) *	12 07.63 96 51.82 *	Fl(4) W 6s *	...	...	Beacon *	

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.18 dated 15 Sep 2004)**Page 32, OMAN section, insert:*

Port Sohar, Lt Buoy Racon 360°	Q	24° 32'.16N., 056° 37'.72E.	7644.5
(B.A. 37/04)			(19/04)

*Page 36, INDIA section***7888 Humani Point Radio Mast, Okha***Delete entry and replace by:*

Humani Point Lt, Okha Port Racon 355°30'-311°30' 15 n miles	O	22° 28'.55N., 069° 04'.21E.	7888
(B.A. 38/04)			(19/04)

Page 36, insert:

Veraval Lt Racon	K	20° 54'.64N., 070° 21'.21E.	7894.5
(B.A. 38/04)			(19/04)

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. 18 dated 15 Sep 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. 18 dated 15 Sep 2004)*

		tx fx (KHz)	
Pulicat DGPS Station Normal	13° 25'.2N., 080° 19'.6E.	319	
(DLL, Kakinada)			(19/04)
Keating Point DGPS Station Normal	09° 15'.4N., 092° 46'.5E.	317	2243
(DLL, Kakinada)			(19/04)

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	Fmt	Mtrs	Feet	Fmt	Mtrs	Feet	Fmt	Mtrs	Feet	Fmt	Mtrs
1		0.305	55		16.764	162	27	49.378	498	83	151.790
1.5		0.457	56		17.069	168	28	51.206	504	84	153.619
2		0.610	57	9	17.374	174	29	53.035	510	85	155.448
3		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		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	10	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	1	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	11	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	2	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	12	22.860	282	47	85.954			
20		6.096	76		23.165	288	48	87.782	0.10	3.937	
21	3	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	13	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	4	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	14	26.518	354	59	107.899			
32		9.754	88		26.822	360	60	109.728			
33	5	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	15	28.346	390	65	118.872			
38		11.582	94		28.651	396	66	120.701			
39	6	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	16	30.175	426	71	129.845			
44		13.411	100		30.480	432	72	131.674			
45	7	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	8	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	Mtrs	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 mtr		
12	39.370	6.562	68	223.097	37.183	2	0.167	0.051	1 Foot=0.3048 mtr		
13	42.652	7.108	69	226.378	37.730	3	0.250	0.076	1 Fthm=1.8288 mtr		
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 mtr = 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						