

# INDIAN

CHARTS AND PUBLICATIONS  
(Original, Authentic and most up-to-date)



REACH US 24 HOURS A DAY



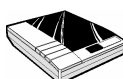
E-mail to

[nho@sancharnet.in](mailto:nho@sancharnet.in)  
[nhd@sancharnet.in](mailto:nhd@sancharnet.in)



Write to

National Hydrographic Office  
107-A, Rajpur Road  
Dehradun – 248 001  
INDIA



Fax to

+91- 135 - 748373



Contact Person

Asst Hydrographer  
Marine Safety Services  
+91- 135 - 747360-65



visit

[www.hydroindia.org](http://www.hydroindia.org)

## INDIAN NOTICES TO MARINERS Edition No. 02, dated 15 JAN 2003 (Notices 51 – 67)

### CONTENTS

- I. Index of Charts Affected.
- II. Permanent Notices.
- III. Temporary and Preliminary Notices.
- V. Radio Navigational Warnings.
- VII. Correction to List of Lights.
- VIII. Correction to List of Radio Signals.

Mariners are requested to notify the Chief Hydrographer to the Government of India, National Hydrographic Office, Post Box No. 75, Dehradun -248001, INDIA [Fax: 0091- (135) - 748373 Grams: Hydro Dehradun immediately on the discovery of new dangers or suspected dangers to navigation and of changes or defects in aids to navigation. A Hydrographic Note (IH 102), which is a convenient form on which to send in a report, is attached with Notices to Mariners Editions dated 1<sup>st</sup> January, 1<sup>st</sup> April, 1<sup>st</sup> July and 1<sup>st</sup> October.

KR Srinivasan  
Rear Admiral  
Chief Hydrographer  
to the Government of India

(Published on 1<sup>st</sup> and 15<sup>th</sup> of every month)

Government of India Copyright. Permission not required to make copies of these Notices but such copies are not to be sold.

## EXPLANATORY NOTES

**Charts** The Notices in section II give instructions for the corrections of Indian and Admiralty Charts including the information on new Indian Charts and Publications. Geographical positions refer to the largest scale chart unless otherwise stated. Bearings are true reckoned clockwise from 000° to 359°; those relating to lights are from seaward. Symbols referred to are those shown on the chart 5020.

Alterations to depth contours, deletion of depths to make way for new detail, etc; are not mentioned unless they have some navigational significance.

Blocks and notes, if any, accompanying notices in Section II are placed after Section VIII.

**Temporary and Preliminary Notices** These are indicated by (T) and (P) after the notice number and are placed in Section III. A list of those in force published quarterly and text are published in Annual Edition of Indian Notices to Mariners. Charts are not corrected for them before issue, they should be corrected in pencil on receipt.

**Original Information** A star adjacent to the number of a notice indicates that the notice is based on original information.

**Sailing Directions** Corrections or 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** When a light is affected by a notice its Lights List number is quoted. The correction of the Light List is given in Section VII and should be incorporated as per instructions given on page 11 of the list of Lights. It may be published in earlier or later Edition than the chart correcting notice.

The range of a light is the nominal range; geographical range is given in parenthesis if 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** Updating information is published by fortnightly Notices to Mariners supplemented by the radio warnings for items of immediate importance. It should be borne in mind that they may be based on reports which can not always be verified before promulgation, and that is some time necessary to be selective and promulgate only the more important items to avoid over loading users; the reminder being included in the revised Edition of the charts and publications 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** Indian Notices to Mariners contains important information and should be used to keep the specified charts and books up to date.

### **THE USE OF CHARTS AND ASSOCIATED PUBLICATIONS**

**Reliance on Charts and Associated Publications** While every effort is made to ensure the accuracy of the information on Indian charts and other publication, it should be appreciated that it may not always be complete and up-to-date. The mariners must be the final judge of the reliance he can place on the information given, bearing in mind his particular circumstances, local pilotage guidance and judicious use of available navigational aids.

**Charts** Charts should be used with prudence; there are areas where the source data are old incomplete or of poor quality. The mariners should use largest scales appropriate for his particular purpose; apart from being the most detailed, the larger scale are usually corrected first. When extensive information (such as new hydrographic survey) is received, some months must elapse before it can be fully incorporated in published charts.

On small-scale charts of ocean areas where hydrographic information is, in many cases still sparse, charted shoal may be in error as regards position, least depth and extent. Undiscovered dangers may exist particularly away from well-established routes.

**Further Guidance** The mariner's Hand Book (NP 100) gives full explanation of the limitation of charts. In their own interest, all users should study it.

## I

### INDEX OF CHARTS AFFECTED (Edition No. 02 dated 15 Jan 2003)

| <b>INDIAN<br/>Chart No.</b> | <b>Folio<br/>No.</b> | <b>Notice No.</b> | <b>ADMIRALTY<br/>Chart No.</b> | <b>Folio No.</b> | <b>Notice No.</b> |
|-----------------------------|----------------------|-------------------|--------------------------------|------------------|-------------------|
| 203                         | 2                    | 61(T)             | 717 (INT 7061)                 | 38               | 53                |
| 225                         | 4                    | 54                | 792                            | 45               | 67(T)             |
| 250                         | 2                    | 52                | 2403                           | 45               | 66(P)             |
| 301                         | 5                    | 57                | 2570                           | 45               | 59                |
| 313                         | 5                    | 55, 62 (P)        | 3833                           | 45               | 66(P)             |
| 351                         | 5                    | 57                | 4030                           | 45               | 59, 66(P)         |
| 403                         | 6                    | 63(T)             | 4031                           | 45               | 66(P)             |
| 404                         | 6                    | 64(T)             | 4032                           | 45               | 66(P)             |
| 408                         | 6                    | 65(T)             | 4033                           | 45               | 59                |
| 409                         | 6                    | 64(T)             | 4037                           | 45               | 60                |
| 451                         | 7                    | 58                | 4038                           | 45               | 66(P)             |
| 2013                        | 2                    | 51                | 4039                           | 45               | 66(P)             |
| 2019                        | 2                    | 52                | 4040                           | 45               | 66(P)             |
| 2031                        | 2                    | 51, 61(T)         |                                |                  |                   |
| 2055                        | 2                    | 61(T)             |                                |                  |                   |
| 2068                        | 2                    | 61(T)             |                                |                  |                   |
| 3001 (INT 7402)             | 5                    | 55, 62 (P)        |                                |                  |                   |
| 3004 (INT 7403)             | 5                    | 62 (P)            |                                |                  |                   |
| 3010                        | 5                    | 56                |                                |                  |                   |
| 3011                        | 5                    | 57                |                                |                  |                   |
| 3013                        | 5                    | 57                |                                |                  |                   |
| 3028                        | 5                    | 55                |                                |                  |                   |
| 4001                        | 6                    | 63(T)             |                                |                  |                   |
| 4004                        | 6                    | 64(T)             |                                |                  |                   |
| 4005                        | 6                    | 65(T)             |                                |                  |                   |
| 4013                        | 6                    | 64(T)             |                                |                  |                   |
| 4014                        | 6                    | 63(T)             |                                |                  |                   |
| 4015                        | 6                    | 64(T)             |                                |                  |                   |
| 4017                        | 6                    | 65(T)             |                                |                  |                   |

## II

### PERMANENT NOTICES

#### INDIAN HYDROGRAPHIC CHARTS AND PUBLICATIONS

**\*51 (02/03)**

**(a): NEW INDIAN CHARTS**

| <i>Chart No.</i> | <i>Date of Publication</i> | <i>Title, Limit &amp; Description</i>  | <i>Scale</i> | <i>Folio</i> | <i>Price (Rs)</i> |
|------------------|----------------------------|--|--------------|--------------|-------------------|
| 2013             | 30.11.2002                 | INDIA – WEST COAST<br>GULF OF KACHCHH<br>PORT OF OKHA<br><u>Limits</u><br>22° 26'.70N., 22° 31'.00N.<br>69° 03'.50E., 69° 07'.00E. | 1:12 500     | 2            | 1000.00           |
| 2031             | 15.04.2002                 | INDIA - WEST COAST<br>GULF OF KACHCHH<br>OKHA HARBOUR<br><u>Limits</u><br>22° 24'.00N., 22° 37'.00N.<br>68° 48'.50E., 69° 10'.00E. | 1:37 500     | 2            | 1000.00           |

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

Chart to be withdrawn

Main Title

On Publication of New Chart

2013

PORT OF OKHA

2013

2031

OKHA HARBOUR

2031

(NHO Dehradun: HJ/NM/Pub)

**\*52 (02/03)**

**MISCELLANEOUS UPDATES TO CHARTS**

Chart No.

Last Correction

Details

250

398/02

Refer INM 398/02, amend chart correction column for chart 250 (327/02) to 250 (b-d) (327/02)

2019

338/02

Refer INM 134/02, insert chart 2019 (d, f) in chart correction column.

(NHO, Dehradun: HJ/NM/Gen)

**53 (02/03) INDIAN OCEAN – Seychelles Group – Coetivy Northeastwards – Depth**

Insert depth 49m enclosed by 50m approximate contour

6° 42'.7S., 56° 31'.7E.

**Chart** [*Last correction*]: – **B.A. 717** (INT 7061) [192/02]

(B.A. Notice 84/03: HJ/832/33)


## II


**\*54 (02/03) SRILANKA – West Coast – Colombo westwards to Gallo South westwards – Depth**

**Refer INM 349/02**

Delete depth 177m 06° 22'.20N., 79° 45'.50E.  
**Chart** [*Last correction*]: – 225 [419/02] (NHO, Dehradun: HJ/930/60)

**\*55 (02/03) INDIA – East coast – Ennore Port – Data buoys**


Insert Test Buoy 1  with radar reflector and  
beacon light *Fl (5) 15s 4M* (a) 13° 14'.00N., 80° 20'.90E.


SW6  Data buoy with radar reflector and  
beacon light *Fl (5) 15s 4M* (b) 13° 11'.40N., 80° 22'.80E.



**Note :- Mariners are strongly advised not to anchor or trawl in the operation circle 500m of moored data buoys.**

**Chart** [*Last correction*]: – 3028 [441/02] – 3001 (INT 7402) [450/02] – 313 [441/02] (NIOT Chennai: HJ/1029/39)

**\*56 (02/03) INDIA – East coast – Approaches to Paradip Port – Anchorage areas**

Insert circular limit, Tanker Anchorage, radius 0.75 NM, packed line, centred on: (a) 20° 11'.5N., 86° 45'.0E.  
legend, *Tanker* , centred on: (b) (a) above

circular limit, General Anchorage, radius 0.75 NM, packed line, centred on: (c) 20° 11'.5N., 86° 42'.0E.  
legend, *General* , centred on: (d) I above

delete former limit of Tanker Anchorage area centred on: (e) 20° 13'.0N., 86° 44'.1E.  
former limit of General Anchorage area centred on: (f) 20° 13'.0N., 86° 42'.7E.  
legend, Tanker , centred on: (g) (e) above  
legend, General , centred on: (h) (f) above

**Chart** [*Last correction*]: – 3010 (Plan, Paradip Port (*e-h*)) & 3010 [263/01] (Paradip Port Trust: HJ/1129/03)

**\*57 (02/03) INDIA – East Coast – Hugli River Channel – Buoys**

**Cancel Former INM 361(T)/01 and 418(T)/01**

Insert Port hand C. Diamond Sand buoy (C.D.S.) (a) 22° 09'.73N., 88° 12'.02E.  
Port hand L. Diamond Sand buoy (L.D.S.) (b) 22° 08'.79N., 88° 12'.28E.  
Port hand Jiggerkhali Flat buoy (J.F) *Q. Fl. R* (c) 22° 06'.28N., 88° 12'.22E.  
Starboard hand U. Rangafala buoy (U.R) (d) 22° 03'.35N., 88° 12'.88E.  
Port hand Lower Rangafala buoy (L.R) (e) 22° 00'.51N., 88° 11'.51E.  
Port hand L. Mud Point buoy (L.M.P.) (f) 21° 54'.60N., 88° 06'.59E.  
Starboard hand Eastern Bedford Sand buoy (E.B.S) (g) 21° 53'.85N., 88° 05'.84E.  
Port hand U. Bedford Sand buoy (U.B.S) *Fl(2) 15s* (h) 21° 52'.92N., 88° 04'.99E.  
Starboard hand Maragoalia Crossing buoy (M.C– I) *Fl 7s* (i) 21° 51'.22N., 88° 02'.95E.

## II

|       |  |      |                            |
|-------|--|------|----------------------------|
|       | Starboard hand Maragoalia Crossing buoy (M.C- V) <i>Fl 7s</i>      | (j)  | 21° 46'.41N., 88° 03'.57E. |
|       | Port hand W. Maragoalia Crossing buoy (W.M.C) <i>Q Fl. R</i>       | (k)  | 21° 45'.68N., 88° 03'.47E. |
|       | Port hand Bedford Sand No. VI buoy <i>Fl. R(2)10s</i>              | (l)  | 21° 43'.95N., 88° 02'.59E. |
|       | Starboard hand Lower Bedford Flat buoy (L.B.F)                     | (m)  | 21° 43'.46N., 88° 02'.86E. |
|       | Port hand Sagar Dumping buoy (S.D) <i>Q. Fl. R</i>                 | (n)  | 21° 37'.28N., 88° 00'.52E. |
|       | Starboard hand Nayachara – I buoy (N-I)                            | (o)  | 22° 02'.31N., 88° 11'.54E. |
|       | Port hand Balari – III buoy (B-III)                                | (p)  | 22° 01'.72N., 88° 08'.53E. |
|       | Starboard hand Balari –IV buoy (B-IV)                              | (q)  | 22° 01'.31N., 88° 07'.39E. |
|       | Starboard hand Lower Eastern Haldia buoy (L.E.H) <i>Fl. 7s</i>     | (r)  | 22° 00'.81N., 88° 05'.13E. |
|       | Port hand U. Sandla Flat buoy (U.S.F) <i>Q Fl</i>                  | (s)  | 21° 59'.42N., 88° 02'.82E. |
|       | Starboard hand Auckland Boat buoy (A.B.B) <i>Fl. G 7s</i>          | (t)  | 21° 49'.78N., 87° 59'.72E. |
|       | Port hand Sagar Dumping buoy (S.D) <i>Q Fl R</i>                   | (u)  | 21° 37'.28N., 88° 00'.52E. |
|       | Port hand Middleton –II buoy <i>Fl(3).10s</i>                      | (v)  | 21° 35'.39N., 88° 03'.85E. |
|       | Port hand Middleton –VI buoy                                       | (w)  | 21° 32'.40N., 88° 05'.86E. |
|       | Port hand Eastern Channel Lt Vessel <i>Fl 10s Racon (O)</i>        | (x)  | 21° 04'.19N., 88° 11'.21E. |
| Move  | Port hand U. Diamond Sand buoy (U.D.S) <i>Fl (2)10s</i> From:      | (y)  | 22° 10'.70N., 88° 11'.30E. |
|       | to:  | (z)  | 22° 10'.63N., 88° 11'.35E. |
|       | Port hand C. Rangafala buoy (C.R) From:                            | (aa) | 22° 01'.86N., 88° 12'.03E. |
|       | to:  | (ab) | 22° 01'.87N., 88° 12'.28E. |
|       | Port hand U. Silver Tree buoy (U.S.T) From:                        | (ac) | 21° 58'.73N., 88° 09'.80E. |
|       | to:  | (ad) | 21° 59'.41N., 88° 10'.62E. |
|       | Starboard hand U. Mud Point buoy (U.M.P) From:                     | (ae) | 21° 55'.63N., 88° 07'.52E. |
|       | to:  | (af) | 21° 55'.62N., 88° 07'.37E. |
|       | Port hand Western Bedford Sand buoy <i>Q Fl</i> From:              | (ag) | 21° 54'.31N., 88° 04'.79E. |
|       | to:  | (ah) | 21° 54'.28N., 88° 04'.80E. |
|       | Port hand Maragoalia Crossing buoy (MC-IV) <i>Fl R(2)10s</i> From: | (ai) | 21° 47'.17N., 88° 03'.14E. |
|       | to:  | (aj) | 21° 47'.09N., 88° 03'.13E. |
|       | Port hand YBY No. III Sagar buoy <i>Q. Fl</i> From:                | (ak) | 21° 39'.25N., 88° 01'.54E. |
|       | to:  | (al) | 21° 38'.19N., 88° 01'.54E. |
|       | Port hand Nayachara G.W -I buoy (N.G –I) From:                     | (am) | 22° 02'.18N., 88° 10'.51E. |
|       | to:  | (an) | 22° 02'.13N., 88° 10'.50E. |
|       | Port hand Balari buoy – I (B-I) From:                              | (ao) | 22° 02'.15N., 88° 09'.85E. |
|       | to:  | (ap) | 22° 02'.16N., 88° 09'.86E. |
|       | Starboard hand Upper Eastern Haldia buoy. <i>Fl 7s</i> From:       | (aq) | 22° 01'.37N., 88° 06'.23E. |
|       | to:  | (ar) | 22° 01'.38N., 88° 06'.21E. |
|       | Starboard hand Cent. Eastern Haldia buoy. From:                    | (as) | 22° 01'.05N., 88° 05'.71E. |
|       | to:  | (at) | 22° 01'.08N., 88° 05'.76E. |
|       | Port hand Sandla Flat buoy (S.F) <i>Fl R (2)10s</i> From:          | (au) | 21° 58'.57N., 88° 02'.34E. |
|       | to:  | (av) | 21° 58'.57N., 88° 02'.43E. |
|       | Port hand Auckland Spur buoy (A.S) <i>LFl.10s</i> From:            | (aw) | 21° 47'.08N., 87° 58'.12E. |
|       | to:  | (ax) | 21° 47'.08N., 87° 58'.10E. |
|       | Starboard hand Middleton buoy No-I <i>Q Fl</i> From:               | (ay) | 21° 35'.73N., 88° 04'.37E. |
|       | to:  | (az) | 21° 35'.79N., 88° 04'.37E. |
|       | Starboard hand Middleton buoy No-III <i>Fl G 7s</i> From:          | (ba) | 21° 34'.00N., 88° 05'.50E. |
|       | to:  | (bb) | 21° 34'.14N., 88° 05'.61E. |
| Amend | Port hand Jellingham No- II buoy to <i>Q Fl</i>                    | (bc) | 21° 55'.24N., 88° 01'.01E. |
|       | Port hand Jellingham No-III to <i>Fl(3)15s</i>                     | (bd) | 21° 51'.51N., 88° 00'.06E. |
|       | Starboard hand Middleton Fairway buoy to <i>Fl.10s</i>             | (be) | 21° 37'.58N., 88° 02'.78E. |

## II

|        |   |      |                            |
|--------|---|------|----------------------------|
| Delete | Port hand C. Diamond Sand buoy (C.D.S) Fl (3)15s          | (bf) | 22° 09'.70N., 88° 12'.00E. |
|        | Port hand L. Diamond Sand buoy (L.D.S) Fl (2)10s          | (bg) | 22° 08'.79N., 88° 12'.27E. |
|        | Port hand Jiggerkhali Flat buoy (JF) Fl (2)10s            | (bh) | 22° 06'.30N., 88° 12'.20E. |
|        | Starboard hand U. Rangafala (U.R)                         | (bi) | 22° 03'.31N., 88° 12'.88E. |
|        | Port hand Lower Rangafala buoy (L.R) Fl (2)10s            | (bj) | 22° 00'.51N., 88° 11'.56E. |
|        | Port hand L. Mud Point buoy (L.M.P) Fl (2)10s             | (bk) | 21° 54'.61N., 88° 06'.60E. |
|        | Starboard hand Eastern Bedford Sand buoy (E.B.S) Fl.7s    | (bl) | 21° 53'.86N., 88° 05'.71E. |
|        | Port hand U. Bedford Sand buoy (U.B.S) Fl R(T) 10s        | (bm) | 21° 52'.96N., 88° 04'.68E. |
|        | Starboard hand Maragoalia Crossing-I buoy                 | (bn) | 21° 51'.24N., 88° 02'.95E. |
|        | Starboard hand Maragoalia Crossing-V buoy (MC-V) Q Fl     | (bo) | 21° 46'.92N., 88° 03'.46E. |
|        | Port hand Bedford Sand buoy No-VI Fl 7s                   | (bp) | 21° 43'.94N., 88° 02'.59E. |
|        | Starboard hand Lower Bedford Flat buoy (LBF) Fl G 7s      | (bq) | 21° 43'.46N., 88° 02'.86E. |
|        | Port hand Sagar buoy No-IV Fl(2)10s                       | (br) | 21° 37'.23N., 88° 02'.23E. |
|        | Port hand Sagar Dumping (S.D) Q R                         | (bs) | 21° 37'.50N., 88° 00'.50E. |
|        | Starboard hand Nayachara – I (N-I) buoy FIG 3s            | (bt) | 22° 02'.30N., 88° 11'.54E. |
|        | Port hand Balari-III buoy (B-III) Fl (2)10s               | (bu) | 22° 01'.68N., 88° 08'.50E. |
|        | Starboard hand Balari –IV buoy (B-IV) Fl 7s               | (bv) | 22° 01'.31N., 88° 07'.40E. |
|        | Starboard hand Lower Eastern Haldia buoy Fl 15s           | (bw) | 22° 00'.78N., 88° 05'.13E. |
|        | Port hand U. Sandla Flat (U.S.F) Q                        | (bx) | 21° 59'.24N., 88° 02'.78E. |
|        | Starboard hand Lady Cradoc buoy Fl G 7s                   | (by) | 21° 57'.93N., 88° 02'.65E. |
|        | Starboard hand Auckland Boat Buoy (A.B.B.) Q. Fl          | (bz) | 21° 49'.78N., 87° 59'.68E. |
|        | Port hand Sagar Dumping buoy (S.D) Q R                    | (ca) | 21° 37'.50N., 88° 00'.50E. |
|        | Port hand Sagar No. IV Fl (2) 10s                         | (cb) | 21° 37'.23N., 88° 02'.23E. |
|        | Port hand Middleton – II Fl 7s                            | (cc) | 21° 35'.44N., 88° 03'.80E. |
|        | Port hand Middleton – VI Fl (3) R 5s                      | (cd) | 21° 32'.42N., 88° 05'.84E. |
|        | Port hand UpperGasper Lt Vessel buoy Fl (3) 30s           | (ce) | 21° 29'.87N., 88° 06'.61E. |
|        | Port hand Gasper Channel buoy Fl (2) 10s                  | (cf) | 21° 27'.00N., 88° 07'.13E. |
|        | Port hand Eastern Channel Lt. Vessel Fl 10s 12M Racon (O) | (cg) | 21° 01'.00N., 88° 11'.50E. |

**Chart** [Last correction]: – **3013** ( a-g, o-s, y- ah, am- av, bc, bf-bl, bt, bu-by ) [455/02] – **3011** (f-n, t-w, ae-al, aw-be bk-bs, bz-cf ) [455/02]– **301** (h, v-x, ak, al, ay-bb, be,bm, br, cb-cg ) [198/02]– **351** (h, x, be, bm, ce, cg) [161/02]

(Kolkata Port Trust: HJ/1129/21)

### 58 (02/03) BURMA (MYANMAR) – Mouth of the Irrawaddy southwards – LANBY

|       |                           |                          |
|-------|---------------------------|--------------------------|
| Amend | Thuriya  to, Fl.7s 10m8M, | 15° 20'.2N., 95° 10'.5E. |
|-------|---------------------------|--------------------------|

**Chart** [Last correction]: – **451** [474/02]

List of light Vol. F, 1072

(B.A. Notice 5505/02: HJ/1028/54)

### 59 (02/03) SINGAPORE STRAIT – Singapore – Tuas View Southwestwards – Works; Buoyage

|        |  |     |  |
|--------|--|-----|--|
| Insert | limit of works area, pecked line, joining: | (a) | 1° 15'.163N., 103° 36'.980E.<br>(existing limit) |
|        |  | (b) | 1° 15'.100N., 103° 37'.010E. (scale)             |
|        |  | (c) | 1° 14'.232N., 103° 37'.422E. (buoy)              |
|        |  | (d) | 1° 14'.230N., 103° 37'.340E.                     |
|        |  |     | and  |
|        |  | (e) | 1° 16'.35N., 103° 36'.46E.<br>(existing limit)   |
|        |  | (f) | 1° 16'.01N., 103° 36'.34E.                       |
|        |  | (g) | 1° 15'.00N., 103° 36'.34E.                       |

## II

|        |   |     |                              |
|--------|---|-----|------------------------------|
|        | starboard-hand conical light-buoy without topmark,<br><i>Fl.G.4s HVB-6A</i> | (h) | 1° 15'.29N., 103° 36'.29E.   |
|        | starboard-hand conical light-buoy without topmark,<br><i>Fl.G.4s HVB-7A</i> | (i) | 1° 15'.57N., 103° 36'.29E.   |
|        | starboard-hand conical light-buoy without topmark,<br><i>Fl.G.4s HVB-8A</i> | (j) | 1° 15'.86N., 103° 36'.29E.   |
| Delete | former limit of works area, pecked line, joining:                           | (k) | (a) above                    |
|        |   | (l) | 1° 15'.138N., 103° 36'.930E. |
|        |   |     | and                          |
|        |   | (m) | (e) above                    |
|        |   | (n) | 1° 16'.35N., 103° 36'.62E.   |

**Chart** [*Last correction*]: – **B.A. 4030** (a,c,d,k,l) [39/03] – **4033** (a,b,k,l) [39/03] – **2570** (a,c-n) [318/02]  
(B.A. Notice 3069/02: HJ/927/16)

**60 (02/03) SINGAPORE STRAIT – Singapore – Pulau Sakijang Pelepah – Works**

|        |  |     |  |
|--------|--|-----|--|
| Insert | limit of works area, pecked line, joining:               | (a) | 1° 13'.449N., 103° 51'.401E.<br>(existing limit)<br>1° 13'.424N., 103° 51'.369E. (shore)<br>and<br>1° 13'.293N., 103° 51'.195E. (shore)<br>1° 13'.142N., 103° 51'.095E. (shore)<br>and<br>1° 13'.289N., 103° 50'.986E. (shore) |
|        |  | (b) | 1° 13'.474N., 103° 51'.029E.<br>(existing limit)   |
| Amend  | legend to, <i>Works in progress (2002)</i> , centred on: |     | 1° 13'.658N., 103° 51'.133E.   |
| Delete | former limit of works area, pecked line, joining:        | (a) | above<br>1° 13'.431N., 103° 51'.373E. (shore)<br>and<br>1° 13'.314N., 103° 51'.181E. (shore)<br>1° 13'.373N., 103° 51'.078E.   |
|        |  | (b) | above  |

**Chart** [*Last correction*]: – **B.A. 4037** [405/02]

(B.A. Notice 3071/02: HJ/927/16)

### III

#### TEMPORARY AND PRELIMINARY NOTICES

##### **\*61 (T) (02/03) INDIA – West Coast – Gulf of Kachchh – Buoys**

1. The Paga buoy is missing from position 22° 35'.4N., 69° 14'.4E.
2. The following buoys are unlit:
  - (a) Gurur buoy 22° 35'.50N., 68° 58'.00E.
  - (b) Chandri buoy 22° 37'.00N., 69° 07'.40E.
  - (c) Kachchh buoy 22° 38'.00N., 69° 12'.80E.
  - (d) VLCC bouy 22° 35'.70N., 69° 16'.40E.
  - (e) Mithapur bouy 22° 24'.70N., 68° 51'.80E.
3. Mariners to exercise caution.

**Chart affected – 2031– 2055 – 2068 – 203**

(Navarea VIII 013 & 015/03: HJ/1131/20)

##### **\*62 (P) (02/03) INDIA – East Coast – Chennai Harbour – Jetty, legend**

1. Chennai Port has undergone major changes with respect to berth as follows:
  - (a) Berth 4 & 5 have been demolished.
  - (b) The East Quay berth has been modernized and extended with a berthing face of 200 meters. The positions details as follows:
    - (i) 13° 05'.42N., 80° 18'.18E.
    - (ii) 13° 05'.44N., 80° 18'.21E.
    - (iii) 13° 05'.47N., 80° 18'.22E.
    - (iv) 13° 05'.52N., 80° 18'.24E.
    - (v) 13° 05'.57N., 80° 18'.25E.
    - (vi) 13° 05'.64N., 80° 18'.27E.
    - (vii) 13° 05'.67N., 80° 18'.28E.
    - (viii) 13° 05'.71N., 80° 18'.29E.
    - (ix) 13° 05'.74N., 80° 18'.30E.
  - (c) Construction work on berth No.4, at the demolished berth No. 4 and 5, of South Quay is in progress.
2. Mariners are advised to exercise caution

**Chart affected – 3004 – 3001 (INT 7402) – 313**

(INS Darshak Hydrographic Note: HJ/1029/39)

##### **\*63 (T) (02/03) INDIA – Bay of Bengal – Middle Andaman – Rangat Bay – Beacon**

1. An unlit beacon like structure (white in colour) observed along the lay of break water, appears to be marking the safe limit of the channel at Rangat harbour in position 12° 28'.99N., 92° 57'.44E.
2. Mariners are advised to exercise caution.

**Chart affected – 4001 – 4014 – 403**

(Hydrographic Note LCU 33: HJ/1028/27)

### III

**\*64 (T) (02/03) INDIA – Andaman Sea – Campbell bay and Havelock Island – Lights, dolphins**

1. Two lights have been installed both at Cerberus and Sunk rock each to warn ships of rock at harbour mouth. These lights form a transit of 324 similar to charted leading lights for entering Campbell Bay harbour. Similarity in orientation and characteristics with charted leading lights can be a cause of confusion. Mariners are requested to exercise caution The approximate positions and characteristics of these lights as follows:

(a) Cerberus rock light  $6^{\circ} 59'.06N., 93^{\circ} 56'.56E.$  *L Fl (6) W 10s*

(b) Sunk rock light  $6^{\circ} 58'.74N., 93^{\circ} 56'.80E.$  *Fl W 6s*

2. The numerous unlit concrete structures have been observed across the length of channel in Lacam harbour. These structures paint prominently on navigation radar and can be a source of confusion for vessels entering harbour at night. It appears that these structures (Dolphins) indicate shallow patches. The approximate positions as follows:

(a)  $12^{\circ} 03'.23N., 92^{\circ} 57'.85E.$

(b)  $12^{\circ} 03'.30N., 92^{\circ} 58'.51E.$

(c)  $12^{\circ} 02'.80N., 92^{\circ} 59'.16E.$

(d)  $12^{\circ} 02'.70N., 92^{\circ} 58'.52E.$

(e)  $12^{\circ} 02'.55N., 92^{\circ} 58'.90E.$

Mariners are to exercise caution

**Chart affected – 4004 – 4013– 4015 – 404– 409**

(Hydrographic Note INS Trinkat: HJ/928/66)

**\*65 (P) (02/03) INDIA – Andaman Sea – Noncowry Harbour – beacons**

1. Five in numbers unlit concrete beacon structures, dangerous for navigation at night, have been observed constructed / under construction for marking the channel limit of Noncowry harbour in positions as follows:

(a)  $8^{\circ} 02'.05N., 93^{\circ} 32'.41E.$

(b)  $8^{\circ} 01'.82N., 93^{\circ} 32'.275E.$

(c)  $8^{\circ} 01'.70N., 93^{\circ} 32'.90E.$

(d)  $8^{\circ} 02'.033N., 93^{\circ} 32'.85E.$

(e)  $8^{\circ} 01'.48N., 93^{\circ} 33'.64E.$

2. Mariners are to exercise caution

**Chart affected – 4005 – 4017– 408**

(Hydrographic Note LCU L-33: HJ/928/86)

### III

**66 (P) (02/ 03) SINGAPORE STRAIT – Indonesia and Singapore – Pulau Pemping Besar to Jurong Island – Submarine pipeline**

1. Mariners are advised that from 13 January 2003 to 13 February 2003 a submarine pipeline will be laid between the following positions:

1° 15'.093N., 103° 41'.883E.  
1° 14'.551N., 103° 41'.850E.  
1° 14'.016N., 103° 41'.775E.  
1° 13'.552N., 103° 41'.500E.  
1° 13'.195N., 103° 41'.095E.  
1° 12'.786N., 103° 40'.747E.  
1° 12'.317N., 103° 40'.476E.  
1° 11'.800N., 103° 40'.329E.  
1° 11'.257N., 103° 40'.330E.  
1° 10'.714N., 103° 40'.333E.  
1° 10'.210N., 103° 40'.521E.  
1° 09'.724N., 103° 40'.760E.  
1° 09'.221N., 103° 40'.958E.  
1° 08'.759N., 103° 41'.222E.  
1° 08'.433N., 103° 41'.653E.  
1° 08'.150N., 103° 42'.113E.  
1° 07'.868N., 103° 42'.573E.  
1° 07'.585N., 103° 43'.034E.  
1° 07'.329N., 103° 43'.509E.  
1° 07'.088N., 103° 43'.992E.  
1° 06'.847N., 103° 44'.475E.  
1° 06'.658N., 103° 44'.977E.  
1° 06'.707N., 103° 45'.510E.  
1° 06'.826N., 103° 46'.036E.  
1° 06'.945N., 103° 46'.562E.  
1° 06'.992N., 103° 47'.091E.  
1° 06'.603N., 103° 47'.440E.

**Chart affected – B.A. 4030 – 4031 – 4032 – 4033 – 4038 – 4039 – 4040 – 3833 – 2403**

(B.A. Notice 5556(P)/02: HJ/927/16)

**67 (T) (02/03) MALACCA STRAIT – Peninsular Malaysia – Pulau Pangkor Northeastwards – North West Channel – Depths**

1. Depths less than charted have been reported to exist in the vicinity of the following positions:

4° 15'.75N., 100° 33'.83E.  
4° 15'.72N., 100° 33'.83E.  
4° 15'.58N., 100° 34'.02E.

**Charts Affected: - B.A. 792**

(B.A. Notice 5552 (T) / 02: HJ/927/49)

**NAVIGATIONAL WARNINGS**

Refer to Notice No. 12 (Special Edition, Notice to Mariners – 1999). Navigational Warning pertaining to Navigational Warning Area (NAVAREA VIII) is reproduced in this section. Text of NAVAREA VIII known to be cancelled prior to the date indicated are not given. Serial numbers only of Navigational warnings in force, pertaining to other NAVAREAS are given.

(1) Navarea I (N.E. Atlantic)  
(14 Jan 2003)  
481 Received

(2) Navarea II (E. Atlantic)  
(14 Jan 2003)  
Nil

(3) Navarea III (Mediterranean)  
(14 Jan 2003)  
629 Received

(4) Navarea IV (N.W. Atlantic)  
(14 Jan 2003)  
439 (11,26)

(5) Navarea V (W. Atlantic)  
(14 Jan 2003)  
Nil

(6) Navarea VI (S.W. Atlantic)  
(14 Jan 2003)  
Nil

(7) Navarea VII (S.E. Atlantic)  
(14 Jan 2003)  
002 Received

(8) Navarea VIII (Indian Ocean)  
(14 Jan 2003)  
033 Received

2002 720

2003 002 003 004 010 011 013 014 015 016 017 018 019 020 021 022 023 024 025 026 029 030 031

**2002**

723 To 725. Cancelled.

**2003**

001. Cancelled.

002. India West Coast – Lakshadweep Sea-Minicoy Island. Charts 22 23 273 2006 INT 706. Minicoy DGPS station 08 - 16.0N., 073 - 01.5E. swithed on.

003. India West Coast – Arabian Sea. Charts 22 INT 705 INT 706. MV Sagar Deep II on passage from Cochin to Okha from 28 Dec 2002. Vessel recalibrating ranges of light houses of west coast during night passage and drifting / anchoring during day. Mariners to exercise caution.

004. India West Coast – Diu Head. Charts 21 206 207 253 292 2081. Diu Head racon 20-41.4N., 070-49.7E. off air.

005 to 009. Cancelled.

010. Andaman Sea-Nancowry Harbour. Charts 33 41 408 471 472 4005 4017 INT 706. Five unlit concrete structure, marking channel limits in following positions:  
 (a) 08-02.05N., 093-32.41E. (b) 08-01.82N., 093-32.28E.  
 (c) 08-01.70N., 093-32.90E. (d) 08-02.04N., 092-32.85E.  
 (e) 08-01.48N., 092-33.64E.  
 Dangerous for navigation at night.
011. India West Coast- Cochin. Charts 22 32 220 221 259 260 INT 706. Firing exercise by coast battery between 0330 UTC and 1530 UTC on 10 Jan and 14 Jan 2003 in area bounded by: 09-57.6 N., 075-59.5 E; 09-57.7 N., 076-14.2 E; 09-40.0N., 076-14.5 E; 09-42.5 N., 076-09.5 E. Safe flying height 10,000 metres. Cancel this message on 15 Jan 2003.
012. Cancelled.
013. India West Coast – Gulf Of Kachchh. Charts 203 271 2055 2068 INT 706. Paga buoy 22-35.4N., 069-14.4E. reported missing.
014. India West Coast - Gulf Of Kachchh. Charts 203 291 2080 2083 INT 705. Chank light 22-32.8N., 069-24.6E. unlit.
015. India West Coast – Gulf Of Kachchh. Charts 203 271 2055 2068 INT 706. Following buoys reported unlit.  
 (a) Gurur buoy 22-35.5N., 068-58.0E.  
 (b) Chandri buoy 22-37.0N., 069-07.4E.  
 (c) Kachchh buoy 22-38.0N., 069-12.8E.  
 (d) VLCC buoy 22-35.7N., 069-16.4E.  
 (e) Mithapur buoy 22-24.7N., 068-51.8E.
016. India East Coast – Nizamapatnam. Charts 31 32 355 356 3008 INT 706. Air to ground firing practice by Air Force station 15-50.5N., 080-29.5. between 0130 UTC and 1030 UTC on 16 Jan and 17 Jan 2003 in sector of 70 NM radius between 100 degree and 210 degree. The air space within the specified area is unsafe without any height restrictions. Cancel this message on 18 Jan 2003.
017. India West Coast – Mormugao. Charts 22 214 215 INT 706. Air to ground firing practice on land and sea by Air Crafts between 0230 UTC and 1230 UTC from 14 Jan to 21 Jan 2003 in area bounded by : 15 – 13.0N., 073 – 57.0E; 15 – 13.0N., 073 – 52.0E; 15 – 11.0N., 073 – 57.0E; 15 – 11.0N., 073 – 52.0E. Safe flying height 3,500 metres. Cancel this message on 22 Jan 2003.
018. India East Coast – Visakhapatnam. Charts 31 32 308 354 3002 3012 INT 706. Firing exercise by Coast battery from 0230 UTC to 0530 UTC, 1230 UTC to 1430 UTC on 16 Jan 2003 in area bounded by 17 – 42.2N., 083 – 18.6E; 17 – 42.1N., 083 – 29.9E; 17 – 36.7N., 083 – 28.5E; 17 – 32.7N., 083 – 24.3E. Safe flying height 13,000 metres. Cancel this message on 17 Jan 2003.
019. India West Coast – Pigeon Island. Charts 22 216 257 INT 706. Firing exercise by Naval ships and Aircrafts between 0230 UTC and 1130 UTC from 15 Jan to 21 Jan 2003 on Pigeon island. Danger area – Circle of 06 NM radius around the position 14 – 01.0N., 074 – 19.6E. Safe flying height 3,500 metres. Cancel this message on 22 Jan 2003.
020. India West Coast – Trivandrum. Charts 22 222 260 INT 706. Rocket launching from Thumba Equatorial Rocket Launching Station 08 – 31.9N., 076 – 52.1E. between 1230 UTC and 1500 UTC from 15 Jan to 16 Jan 2003. Danger zones – (a) Sector of 5NM radius between azimuth 190 degree and 300 degree from launcher. (b) Sector of 35NM and 75 NM radius between azimuth 220 degree and 260 degree from launcher. Cancel this message on 17 Jan 2003.
021. India East Coast – Bay of Bengal. Charts 31 33 INT 706. Firing exercise by Naval Ships from 0630 UTC to 0530 UTC on 14 Jan to 18 Jan 2003 in area bounded by 13 – 50N., 086 – 52E; 13 – 50N., 087 – 57E; 12 – 50N., 087 – 57E; 12 – 50N., 086 – 52E. Safe flying height 7,000 metres. Cancel this message on 19 Jan 2003.
022. India East Coast – Bay of Bengal. Charts 31 32 INT 706. Firing exercise by Naval Ships from 0630 UTC to 0530 UTC on 14 Jan to 18 Jan 2003 in area bounded by 16 – 00N., 084 – 30E; 15 – 00N., 084 – 30E; 16 – 00N., 086 – 00E; 15 – 00N., 086 – 00E. Safe flying height 7,000 metres. Cancel this message on 19 Jan 2003.
023. India East Coast – Bay of Bengal. Charts 31 32 INT 706. Firing exercise by Naval Ships from 0630 UTC to 0530 UTC on 14 Jan to 18 Jan 2003 in area bounded by 17 – 00N., 083 – 53E; 16 – 22N., 084 – 42E; 15 – 08N., 083 – 36E; 15 – 47N., 082 – 46E. Safe flying height 7,000 metres. Cancel this message on 19 Jan 2003.

V

024. India East Coast – Bay of Bengal. Charts 31 32 INT 706. Firing exercise by Naval Ships from 0630 UTC to 0530 UTC on 14 Jan to 18 Jan 2003 in area bounded by 13 – 05N., 083 – 50E; 13 – 05N., 084 – 50E; 12 – 05N., 084 – 50E; 12 – 05N., 083 – 50E. Safe flying height 7,000 metres. Cancel this message on 19 Jan 2003.

025. India East Coast – Bay of Bengal. Charts 31 33 INT 706. Firing exercise by Naval Ships from 0630 UTC to 0530 UTC on 14 Jan to 18 Jan 2003 in area bounded by 11 – 15N., 086 – 22E; 11 – 15N., 087 – 22E; 10 – 15N., 086 – 22E; 10 – 15N., 087 – 22E. Safe flying height 7,000 metres. Cancel this message on 19 Jan 2003.

026. India East Coast – Bay of Bengal. Charts 32 33 313 356 INT 706. Yellow coloured data buoy with light quick flashing 15 seconds and radar reflector deployed in following position:

- (a) TB- 1                                13 – 14.0N., 080 – 20.9E.
- (b) SW- 6                                13 – 11.4N., 080 – 22.8E.

Mariners are advised to keep clear by 500 metres.

027 & 028.            Cancelled.

029. India West Coast- Cochin. Charts 22 32 220 221 259 260 INT 706. Firing exercise by coast battery between 0330 UTC and 1530 UTC on 17 Jan and 21 Jan 2003 in area bounded by: 09-57.6 N., 075-59.5 E; 09-57.7 N., 076-14.2 E; 09-40.0N., 076-14.5 E; 09-42.5 N., 076-09.5 E. Safe flying height 10,000 metres. Cancel this message on 22 Jan 2003.

030. India East Coast – Charts 31 32 354 355 357 INT 706. Present position of oil rigs as on 13 Jan 2003 as follows

- A. Aban – II                            16-24.5 N., 082-00.7E
- B. Sagar Vijay                        16-01.1 N., 081-48.9E
- C. Discoverer –534                    16-36.7 N., 082-43.8E

Wide berth requested

031. India West Coast . Charts 21 22 209 210 211 255 292 INT 706 . Present position of oil rigs as on 13 Jan 2003 as follows:

- (1) PRIDE PENNVANIA                18-38.8N., 072-14.9E
- (2) HITDRILL                            19-21.9N., 071-12.7E
- (3) KEDARNATH                        20-59.1N., 072-33.1E
- (4) TRIDENT-II                         19-33.1N., 071-16.3E
- (5) IDA                                    19-20.9N., 071-24.5E
- (6) CE THORNTON                      20-48.7N., 072-22.9E
- (7) JT ANGEL                            19-26.6N., 071-20.6E
- (8) FRONTIER DUCTHESS              19-01.1N., 072-12.3E
- (9) FRONTIER ICE                      19-10.0N., 071-57.9E
- (10) PN III                                19-30.9N., 071-21.4E
- (11) SAGAR SAMRAT                    19-06.4N., 072-20.1E
- (12) SAGAR BHUSHAN                19-07.8N., 071-41.5E
- (13) SAGAR PRAGATI                  19-41.5N., 072-20.9E
- (14) SAGAR SHAKTI                    19-23.2N., 071-15.5E
- (15) SAGAR JYOTI                      19-37.4N., 071-21.7E
- (16) SAGAR RATNA                    19-35.4N., 071-16.8E
- (17) SAGAR KIRAN                    19-34.4N., 071-21.9E
- (18) SAGAR LAXMI                    18-55.9N., 072-18.3E
- (19) SAGAR UDAY                      19-35.0N., 071-23.7E
- (20) FGMC CLINTOK                    19-24.6N., 071-21.3E
- (21) PRIDE WEST VIRGINIA            19-23.0N., 071-27.4E
- (22) SAGAR GAURAV                  18-43.4N., 072-22.3E

Wide berth requested

032 & 033.            Cancelled

(9) Navarea IX (Persian Gulf, Red Sea, NW Arabian Sea)  
(14 Jan 2003)  
Nil

V

(10) Navarea X (Australia, New Guinea)

(14 Jan 2003)

Nil

(11) Navarea XI (Malacca Strait, China Sea, N. Pacific)

(14 Jan 2003)

Nil

(12) Navarea XII (N.E.Pacific)

(14 Jan 2003)

3286 (18) Received

(13) Navarea XIII (N.W.Pacific)

(14 Jan 2003)

Nil

(14) Navarea XIV (S.W. Pacific)

(14 Jan 2003)

Nil

(15) Navarea XV (S.E. Pacific)

(14 Jan 2003)

Nil

(16) Navarea XVI (E. Pacific)

(14 Jan 2003)

Nil

(17) Hydropacks

(14 Jan 2003)

2166 (81, 97) Received

(18) Hydrolants

(14 Jan 2003)

2572 (24) Received

## VII

### CORRECTIONS TO LIST OF LIGHTS

**Edition No. 02 dated 15 Jan 2003**

|                  |   |                              |                                |                |                    |   |   |
|------------------|---|------------------------------|--------------------------------|----------------|--------------------|---|---|
| <b>D 7314.2</b>  | - Container Terminal. E end. Channel Lead N. Dir Lt 267°<br>* | 16 56.9<br>54 00.6           | Dir Oc WG 10s                  | 8              | W 10<br>G 8        | ...   | ec 2.G257°-264°(7°),<br>GW264°-267°(3°), W267°-277°(10°)<br>*   |
| <b>D 7314.3</b>  | --Channel Lead S. Dir Lt 267°<br>*                            | 16 56.9<br>54 00.7           | Dir Oc WR 10s                  | 8              | W 10<br>R 8        | ...   | ec 2.W257°-267°(10°),<br>WR267°-270°(3°), R270°-277°(7°)<br>*   |
| <b>D 7329.75</b> | - SPM   | 25 12.7<br>56 23.2           | Mo(A)W 10s                     | ...            | 2<br>*             | Yellow mooring buoy<br>*                            |   |
| <b>D 7411.5</b>  | --  | 26 14.3<br>50 34.1           | Fl G 3s                        | 3              | ...                | Red beacon, white band on square concrete base<br>* |   |
| <b>F 0386</b>    | Chank Tapu. Off N side  | 22 32.8<br>69 24.6           | Fl W 15s                       | 12             | 11                 | White square concrete tower, black bands            | fl l. <b>TE 2003.</b><br>*  |
| <b>F 1072</b>    | <i>Thuriya Lt F</i>   | 15 20.3<br>95 10.5<br>*      | Fl W 7s<br>*                   | 10             | 8<br>*             | Black hull and light-tower<br>*                     | Ra refl. Riding light F W<br>*  |
| <b>F 1586</b>    | <b>-Pulau Angsa</b>   | 3 11.2<br>101 13.1           | Fl WR 10s<br>*                 | 36             | <b>22</b><br>11    | White round concrete tower<br>11                    | W145°-315°(170°), R315°-145°(190°) but partially obscured 323.5°-010.5°(47°) by large tower close by<br>*         |
| <b>F 1616.5</b>  | -   | 3 00.8<br>100 51.9           | Fl W 10s                       | 9              | 14                 | White buoyant beacon                                | Racon.<br><b>Reported Fl (2) W 10s (T) 2002</b>   |
| <b>F 1736.45</b> | <i>Remove from List</i>                                       |                              |                                |                |                    |   |   |
| <b>K 0808.5</b>  | - <b>Minni Minni.</b> Dir Lt 134°<br><br>----<br>*            | 7 20.0<br>72 29.0<br><br>... | Dir F WRG<br><br><i>By day</i> | ...<br><br>... | <b>20</b><br><br>9 | Round tower<br>14<br><br>...                        | G 133.2°-133.8°(0.6°),<br>W133.8°-134.2°(0.4°),<br>R134.2°-134.8°(0.6°).<br><b>TE 2002</b><br><b>TE 2002</b><br>* |

VIII

CORRECTION TO LIST OF RADIO SIGNALS

Edition No. 02 Jan 2003

VOL. 1, 1987

(Last correction: Edition No. 23 dated 01 Dec 2002)

NIL

VOL. 2, 1995

(Last correction: Edition No. 01 dated 01 Jan 2003)

NIL

B.A. VOL. 3 Part 1, NP 283(1), 2002/03

(Last correction: Edition No. 23 dated 01 Dec 2002)

NIL

VOL. 5, 1997/98

(Last correction: Edition No. 24 dated 15 Dec 2002)

NIL

VOL. 6, 1987

(Last correction: Edition No. 01 dated 01 Jan 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. 01 dated 01 Jan 2002)

|  |                            |             |
|--|----------------------------|-------------|
| Minicoy DGPS<br><i>Functioning Normal</i>                          | 08° 15'.98N., 73° 01'.57E. | <b>2186</b> |
| (DLL Kochi)  |                            | (02/03)     |
| Aguada DGPS station<br><i>Functioning Normal</i>                   | 15° 29'.50N., 73° 46'.40E. | <b>2174</b> |
| (DLL Mumbai)   |                            | (02/03)     |
| Gopnath Point DGPS, ID No. 102<br><i>On trial w.e.f. 26 Dec 02</i> | 21° 12'.2N., 72° 06'.6E.   |             |
| (Navarea VIII warning 720/02)                                      |                            | (02/03)     |