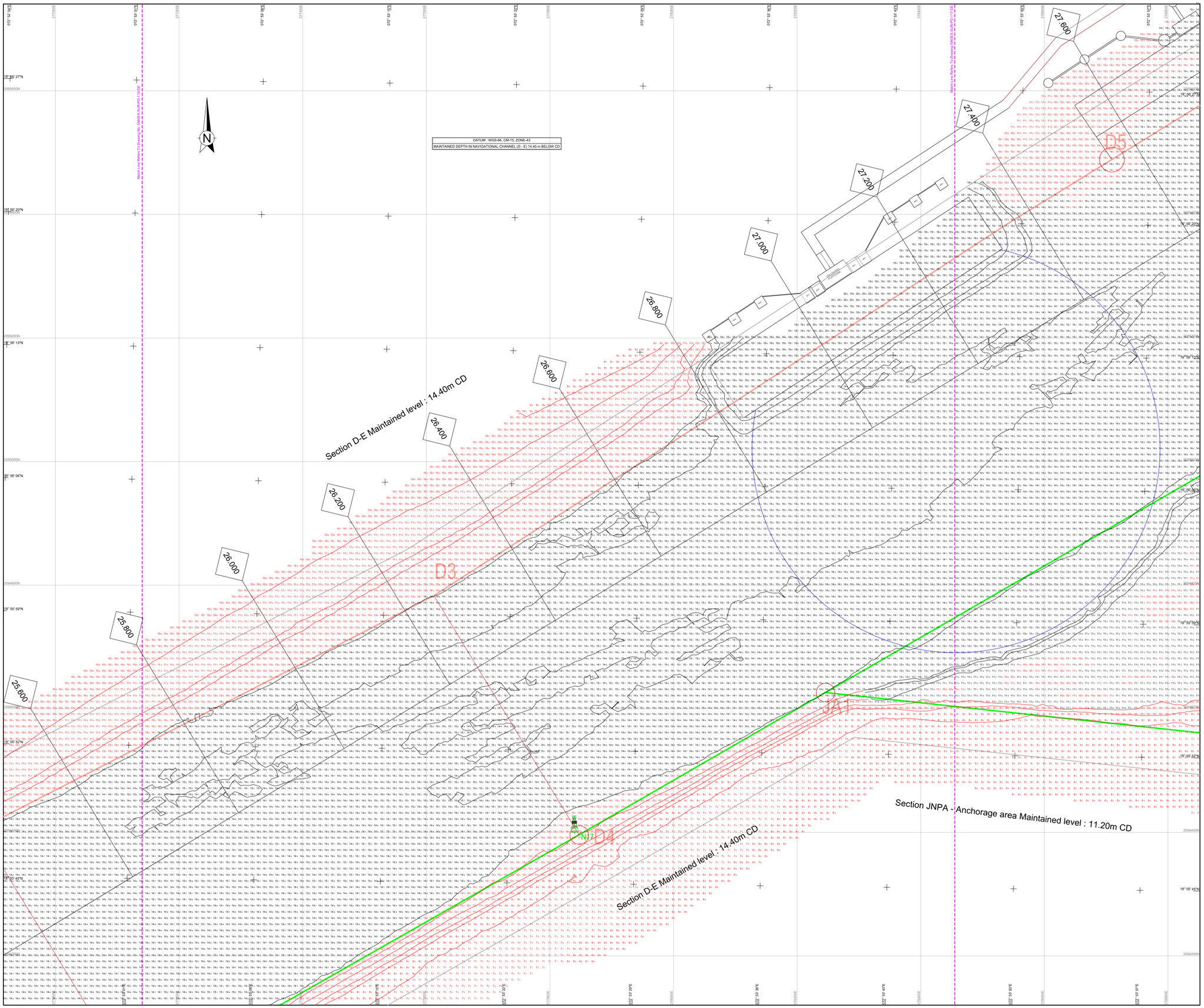


## LEGEND:

### GENERAL

UTM GRID INTERSECTION (WGS84)

GEOGRAPHICAL GRID INTERSECTION (WGS 84)

KILOMETRE POST

MATCH LINE

TOE LINE OF CHANNEL

Section D-E Maintained level : 14.40m( ±15 cm Tolerance)

Section JNPA Anchorage Area Maintained level : 11.20m ( ±15 cm Tolerance)

### BATHYMETRY

WATER DEPTH IN METRES & DECIMETRES BELOW CHART DATUM

BATHYMETRY CONTOUR

## NOTES:

1) SURVEY WAS CARRIED OUT BY SURVEY VESSEL "ME QUEEN"
2) POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO ASTERX POSITIONING SYSTEM.
3) KONGSBERG EM2040C MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY.
4) OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JNPA LANDING JETTY, BPX AND SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM
5) BENCH MARK AT JNPA LANDING JETTY (BOLLARD) IS 7.375 m ABOVE CHART DATUM. BPX = 6.70m, Sunk Rock = 5.783m.
6) MOTION SENSOR OCTANS WAS USED TO COMPENSATE SEA SWELL.
7) SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN ACAD DRAWING.
8) ALL JOINT POST SURVEYS CARRIED OUT JOINTLY BETWEEN - JNPA, NTCPWC (IITM), DCI & ISDPL.
9) ALL PLOTTED DATA IN 10m x 10m GRID SIZE.

## GEODETIC PARAMETERS

| | | |
|---|---|---|
| HORIZONTAL CO-ORDINATE SYSTEM | : | WGS84 |
| GEODETIC DATUM | : | WGS84 |
| ELLIPSOID | : | WGS84 |
| Semi major axis | : | 6378137.000 m |
| Semi minor axis | : | 6356752.314 m |
| Inverse flattening | : | 298.2572236 |
| PROJECTION | : | Universal Transverse Mercator |
| Central Meridian (CM) | : | 75° E (Zone 43) |
| Latitude of Origin | : | 0° |
| False Easting | : | 500000 m |
| False Northing | : | 0 m |
| Scale factor at CM | : | 0.99960 |

## REFERENCE DRAWINGS

| Rev. No. | Date: | Drawing No. | Description: |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

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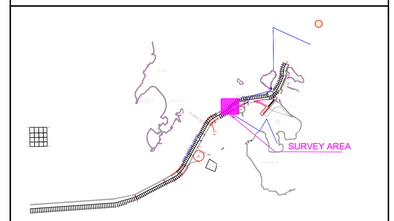
## LOCATION MAP




NOT TO SCALE

CLIENT

JAWAHARLAL NEHRU PORT AUTHORITY

ADMINISTRATION BUILDING,
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NAVI MUMBAI - 400 707

Tel. : 022 6781 4156/ 6781 4154 , Fax.: 022 6781 4178

CONSULTANT

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IIT MADRAS

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PROJECT

# JOINT POST SURVEY - MAR 2023
# MULTI-BEAM BATHYMETRY SURVEYS
# IN NAVIGATIONAL AREA OF JN PORT
# NAVI MUMBAI & MUMBAI PORT CHANNEL
# WEST COAST OF INDIA
# FY 2022-23

BATHYMETRY CHART (SECTION D-E)

CHAINAGE 26.000 - 27.600

SCALE

**HORIZONTAL SCALE 1 : 2000**

40m 0m 40m 80m 120m 160m 200m

**Vessel :** ME QUEEN

Survey Date : 12th,13th,28th Mar & 01 Apr 2023

| Rev. No: | Date: | Description: |
|---|---|---|
| 0 | 03-04-2023 | Issued For Approval |

Authorized Signatory

| Prepared by ISDPL | Approved by ISDPL | Project In-Charge DCI | NTCPWC IIT MADRAS | JNPA | JNPA | JNPA |
|---|---|---|---|---|---|---|

Drawing No: 5940EX-SUR-PO-118-DE

Chart: | Encl: | P.Size: A0