

LEGEND:

GENERAL

- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETER POST
- MATCH LINE
- TOE LINE OF CHANNEL

Section A-B Maintained level: 15.60m (+15 cm Tolerance)

BATHYMETRY

- WATER DEPTH IN METERS & DECIMETERS BELOW CHART DATUM
- BATHYMETRY CONTOUR

- SURVEY:**
- 1) SURVEY WAS CARRIED OUT BY SURVEY VESSEL "ME QUEEN"
 - 2) POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO RTK POSITIONING SYSTEM
 - 3) KONINGSBERG ENDRAK MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MEAS SURVEY.
 - 4) OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JNPA LANDING JETTY, BFK AND SUNK BUNK WERE USED FOR REDUCING SURVEY DEPTH TO CHART DATUM.
 - 5) BENCH MARK AT JNPA LANDING JETTY (BOLLARD) IS 3.735 m ABOVE CHART DATUM. JETTY, BFK AND SUNK BUNK + 5.783m
 - 6) MOTION SENSOR OBTAINS WAS USED TO COMPENSATE SEA SWELL.
 - 7) SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN A CAD DRAWING.
 - 8) ALL CLIENT OWNERS VESSELS CARRIED OUT JOINTLY BETWEEN - JNPA, JNPTW (JNPA, DO & SDFL).
 - 9) ALL PLOTTED DATA IN 10m x 10m GRID SIZE.

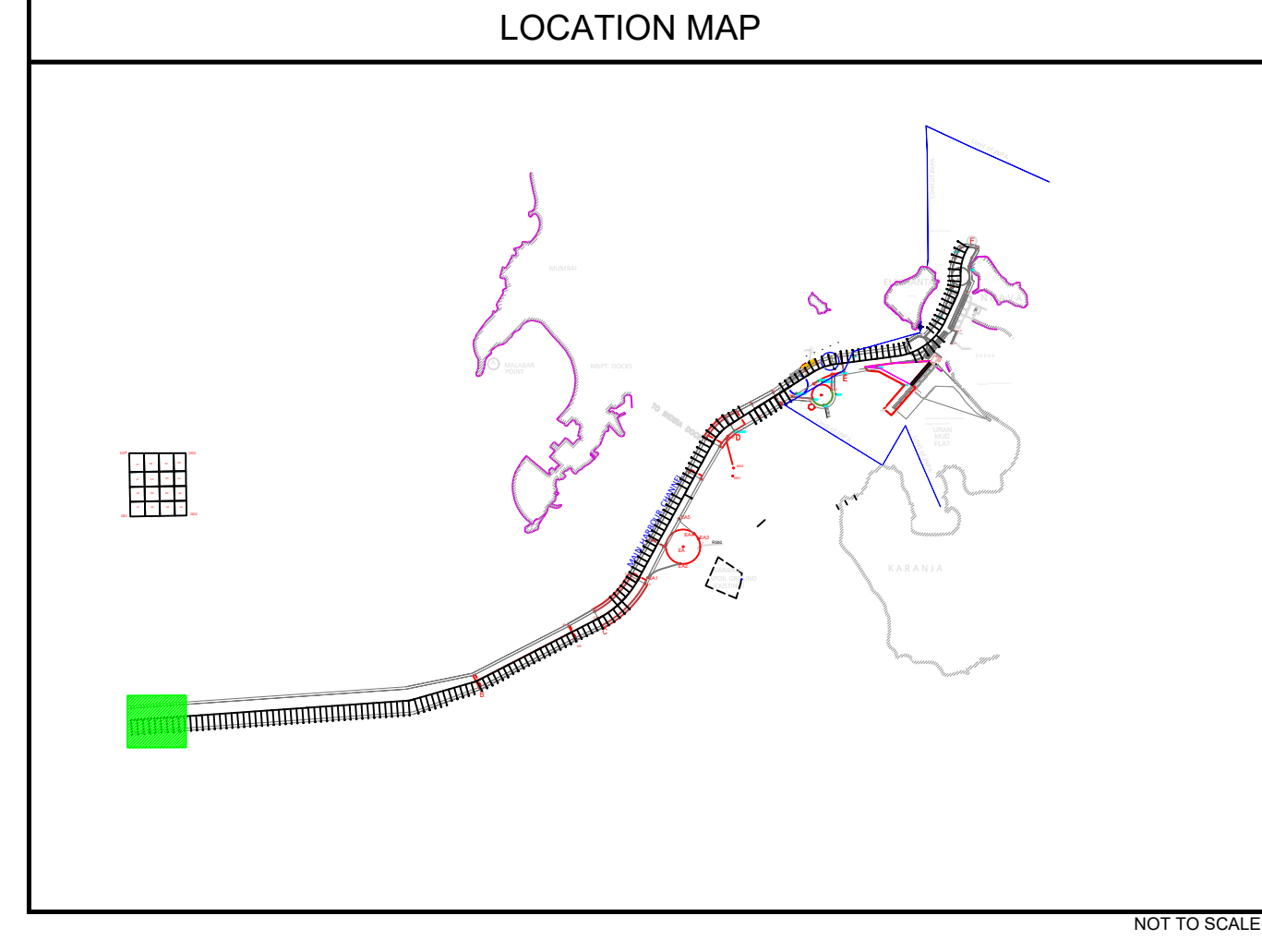
GEODEIC PARAMETERS

| | |
|-------------------------------|-------------------------------|
| HORIZONTAL CO-ORDINATE SYSTEM | WGS84 |
| VERTICAL CO-ORDINATE SYSTEM | WGS84 |
| ELLIPSOID | WGS84 |
| SEMI MAJOR AXIS | 6378137.000 m |
| SEMI MINOR AXIS | 6356752.314 m |
| INVERSE FLATTENING | 298.257222101 |
| PROJECTION | Universal Transverse Mercator |
| CENTRAL MERIDIAN (CM) | 75° E (Zone 43) |
| LATITUDE OF ORIGIN | 0° |
| FALSO EASTING | 500000.0 m |
| FALSO NORTHING | 0 |
| SCALE FACTOR AT CM | 0.99960 |

REFERENCE DRAWINGS

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

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CLIENT

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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 A-B)
CHANNELS: 00.00 - 01.70

SCALE

HORIZONTAL SCALE 1 : 2000

Revised

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

Drawing No: 5940EX-SUR-P-136-A8

Vessel: ME QUEEN | Survey Date: 29th to 31st Mar to 02 Apr 2023 | Authorized Signatory