

**LEGEND:**

**GENERAL**

- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETRE POST
- MATCH LINE
- TOE LINE OF CHANNEL
- Section C/D Maintained level: 14.60m (+15 cm Tolerance)

**BATHYMETRY**

- WATER DEPTH IN METRES & DECIMETRES BELOW CHART DATUM
- BATHYMETRY CONTOUR

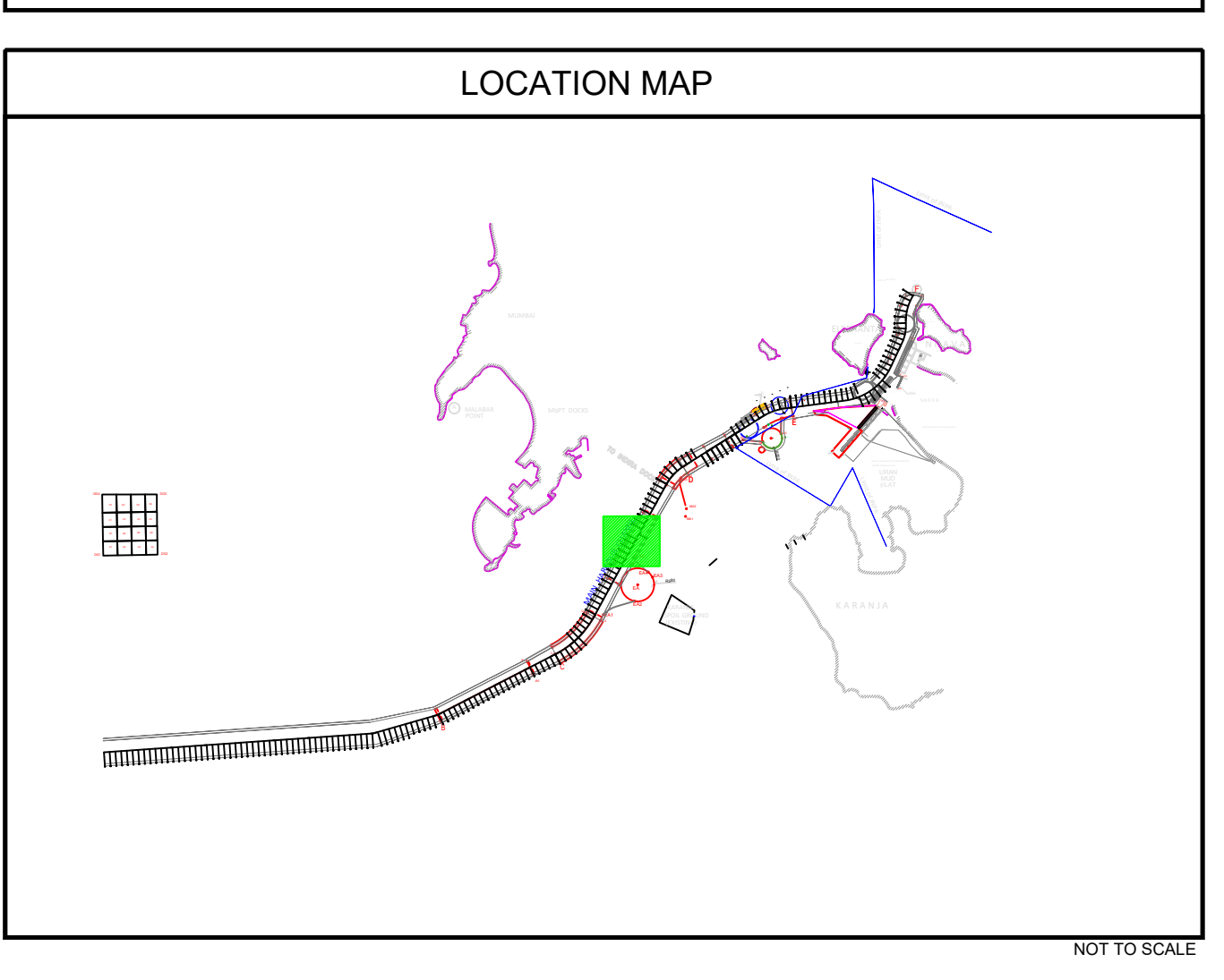
- NOTES:**
- 1) SURVEY WAS CARRIED OUT BY SURVEY VESSEL "MR QUEEN"
  - 2) POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO ASTERIX POSITIONING SYSTEM
  - 3) KONGBERG EMOBIC MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY
  - 4) OBSERVED FROM AUTOMATIC TIDE GAUGE INSTALLED AT JN PORT LANDING JETTY. BPA AND SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM.
  - 5) BENCH MARK AT JN PORT LANDING JETTY (BOLLARD) IS 3.75 m ABOVE CHART DATUM. BPH = 6.70m, Sunk Rock = 5.78m.
  - 6) MOTION SENSOR OCTANUS WAS USED TO COMPENSATE SEA SWELL.
  - 7) SURVEY AREA COORDINATES WERE PROVIDED BY THE CLIENT IN A CAD DRAWING.
  - 8) ALL JOINT POST SURVEYS CARRIED OUT JOINTLY BETWEEN JNPA, NTPCW (JTM, DCI & BDP).
  - 9) ALL PLOTTED DATA IN 10m x 10m GRID SIZE.

**GEODEIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM	WGS84
VERTICAL DATUM	ELLIPSOID
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°
Falses Easting	500000 m
Falses Northing	0 m
Scale factor at CM	0.99980

**REFERENCE DRAWINGS**

Rev. No.	Date	Drawing No.	Description



**CLIENT:** JAWAHARLAL NEHRU PORT AUTHORITY  
 ADMINISTRATION BUILDING, SHEVA, NAVI MUMBAI - 400 707  
 Tel.: 022 6781 4156/6781 4154, Fax.: 022 6781 4178

**CONSULTANT:** NATIONAL TECHNOLOGY CENTRE FOR PORTS WATERWAYS AND COASTS  
 IIT MADRAS  
 CHENNAI - 600 036  
 Tel: +91 44 22578915

**CONTRACTOR:** DREDGING CORPORATION OF INDIA LIMITED  
 DREDGE HOUSE, HB COLONY MAIN ROAD, SEETHAMMAHAR, VISAKHAPATNAM - 530 022  
 ANDHRA PRADESH STATE, INDIA  
 TEL: +91 0891-2523250 - 911 0891-2871230

**SUB-CONTRACTOR:** INTERNATIONAL SEAPORT DREDGING PVT LTD.  
 Ocean Square Plot No. 2-C(S.P)  
 Thiruvananthapuram Industrial Estate  
 Guindy, Chennai - 600032.  
 Tel Fax: +91(0)44 43 12 99 01

**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 C-D)  
 CHANNAJE 20.00 - 22.00

**SCALE:** HORIZONTAL SCALE 1 : 2000

**Version:** MR QUEEN | **Survey Date:** 15th to 16th Feb 2023 | **Authorised Signatory:**

Rev. No.	Date	Description	Author	Checked	Approved
0	02-04-2023	Issued For Approval			

**Drawing No:** 5946X-SUR-PO-123-CD | **Chart:** | **End:** | **P Size:** A0