

**LEGEND:**

**GENERAL**

- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETRE POST
- ATCH LINE
- TIDE LINE OF CHANNEL

Section C-D Maintained level: 14.60m (+15 cm Tolerance)  
Emergency Anchorage Area 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 'M QUEEN'
  - 2) POSITION FIXING WAS CONTROLLED FROM SEPTENTRIO ASTERIX POSITIONING SYSTEM
  - 3) KONGBERG EMORAC MULTIBeam ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY
  - 4) OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT APJ ANCHORAGE JETTY (BPP) AND SLANK ROCKWIERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM
  - 5) BENCH MARK AT ANJANALAN JETTY (BOLLARD) IS 7.75m ABOVE CHART DATUM (BPP + 6.76m, Sank Rock 5 + 7.60m)
  - 6) MOTION SENSOR OBTAINS WAS USED TO COMPENSATE SEA SWELL
  - 7) SURVEY AREA COLOURED AREAS PROVIDED BY THE CLIENT W/ACROSS DRAWING
  - 8) ALL JOINT POST SURVEYS CARRIED OUT JOINTLY BETWEEN - JNPA, NTPWC, IITM, DCI & ISDP.
  - 9) ALL PLOTTED DATA IN 10m x 10m GRID SIZE.

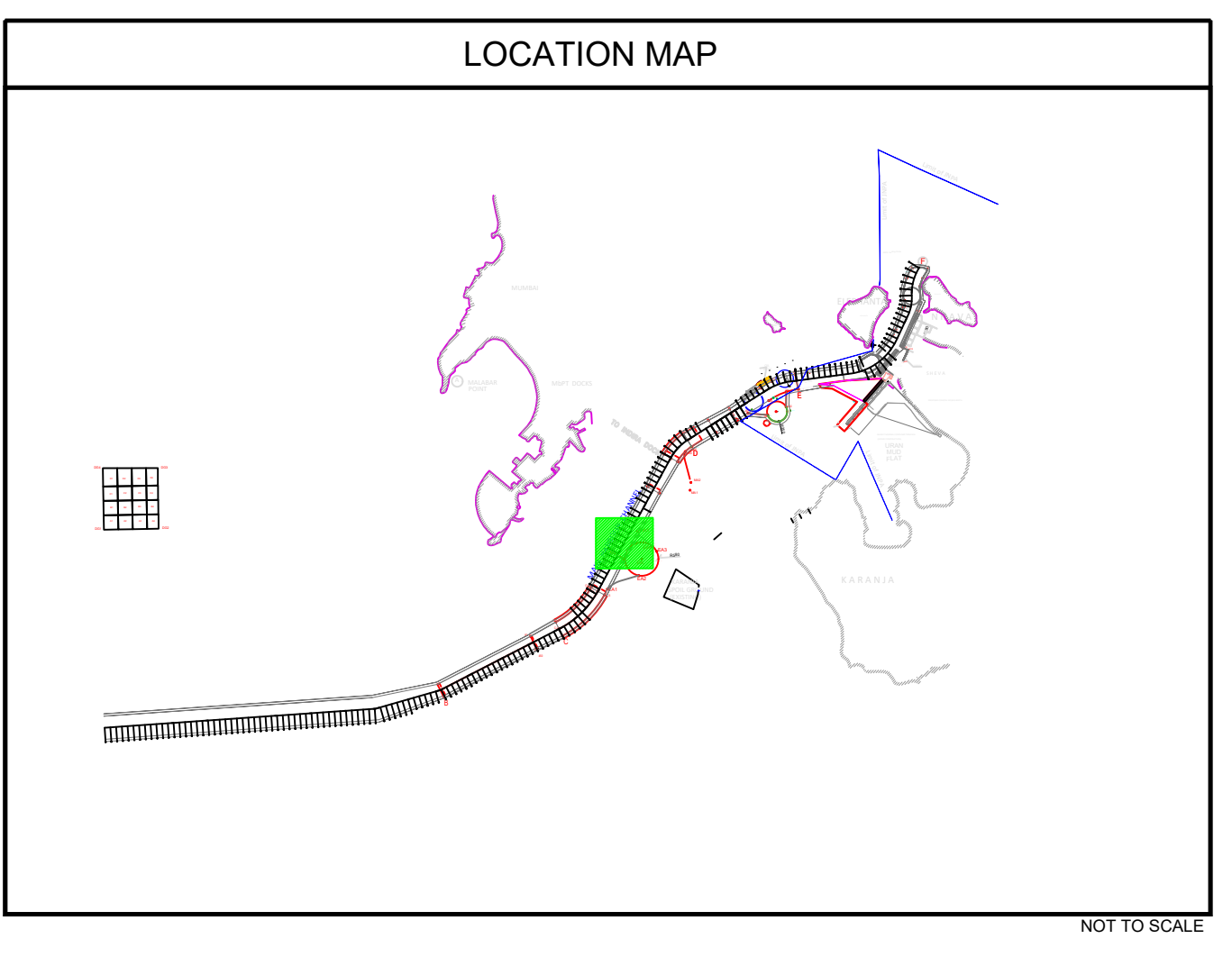
**GEODEIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM	WGS84
GEOCENTRIC DATUM	WGS84
ELLIPSOID	WGS84
Semi major axis	6378137.000 m
Semi minor axis	6356752.314 m
Inverse Flattening	298.2572236
Universal Transverse Mercator	75° E (Zone 43)
Central Meridian (CM)	Latitude of Origin
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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**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 C-D)  
CHANGAGE 19:200 - 20:600

**SCALE**

**HORIZONTAL SCALE 1 : 2000**

**Issued:** M. QUEEN      **Survey Date:** 10th to 16th June 2023      **Authorised Signatory**

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

Drawing No: 5948EX-SURP-124-CD      Chart:      Ect:      P: Size: AD