

**LEGEND:**

- GENERAL
  - UTM GRID INTERSECTION (WGS84)
  - GEOGRAPHICAL GRID INTERSECTION (WGS 84)
  - KILOMETRE POST
- MATCH LINE
- SECTION C-D Channel level : 14.80m (Without Tolerance)
- Emergency Anchorage Area Maintained level : 14.00m (Without Tolerance)
- BATHYMETRY
  - WATER DEPTH IN METRES & DECIMITRES BELOW CHART DATUM

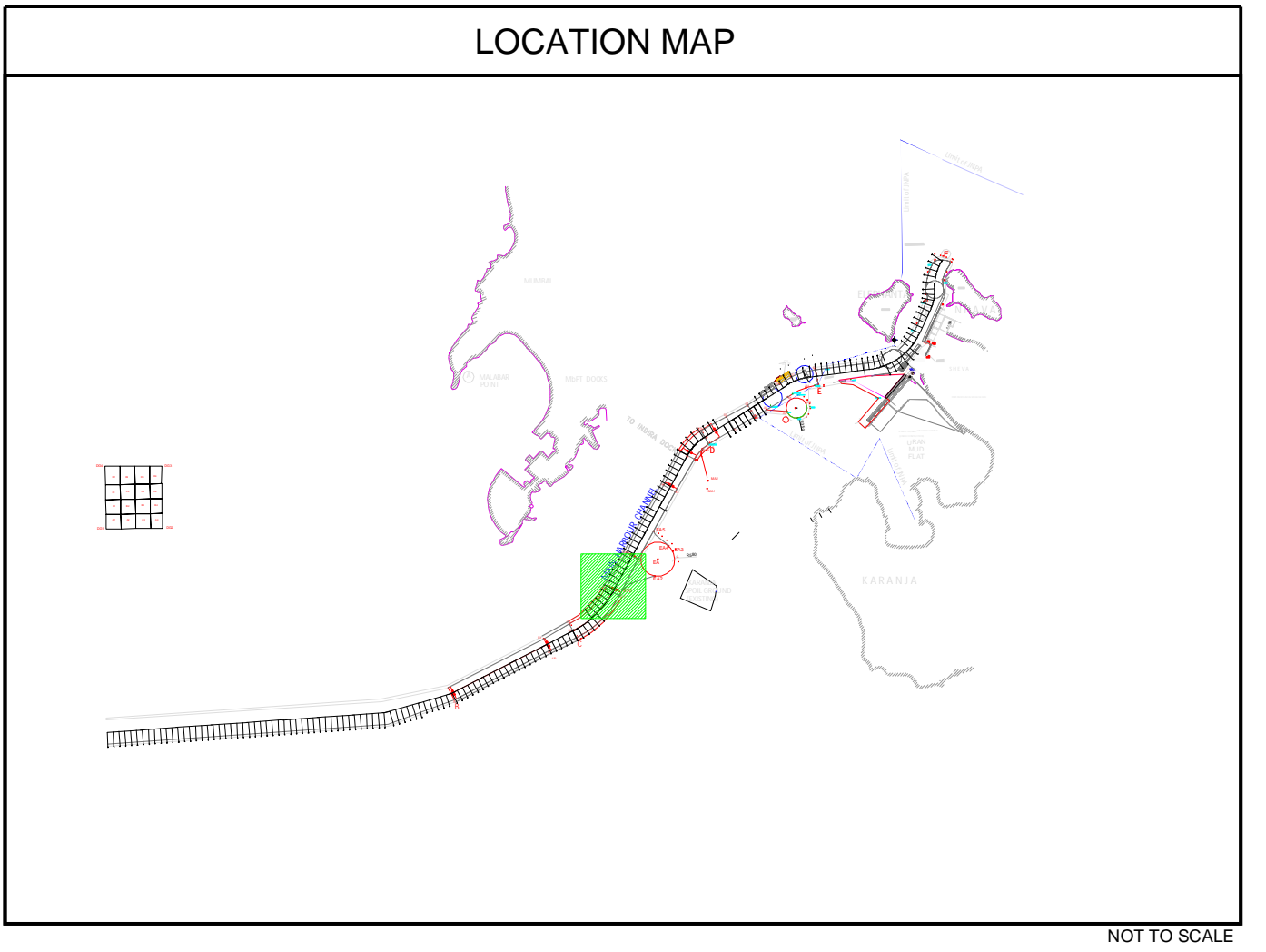
- NOTES:**
- SURVEY WAS CARRIED OUT BY SURVEY VESSEL "MS QUEEN"
  - POSITION FIXING WAS DERIVED FROM SEPENTRIO ASTERIX POSITIONING SYSTEM
  - HORIZONTAL DATUM MULTIBEAM ECHOSOUNDING WAS DELIVERED TO CHART BY ARES SURVEY
  - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JNPA LANDING, UTI, BPA & SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM
  - BENCH MARK AT JNPA LANDING, UTI (BOLANDI) IS 2.735 m ABOVE CHART DATUM. BPA - 6.70m, Sunk Rock - 5.70m
  - MOTION SENSOR OBTAINS WAS USED TO COMPENSATE SEA SWELL
  - SURVEY AREA COORDINATES WERE PROVIDED BY THE CLIENT IN ACAD DRAWING
  - ALL JOINT POINT SURVEYS ARE JOINTLY CARRIED OUT BETWEEN JNPA, NTPCW, ITM, DCA & ISDP.
  - ALL PLOTTED DATA IN 10m X10m GRID SIZE.

**GEODEIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM	WGS84
GEODEIC DATUM	WGS84
ELLIPSOID	WGS84
Semi major axis	6378137.000 m
Semi minor axis	6356752.314 m
Inverse flattening	298.2572226
PROJECTION	Universal Transverse Mercator
Central Meridian	72° 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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**PROJECT**  
**JOINT POST SURVEY - 2024**  
**MULTI-BEAM BATHYMETRIC SURVEYS**  
**IN NAVIGATIONAL AREA OF JN PORT**  
**NAVI MUMBAI & MUMBAI PORT CHANNEL**  
**WEST COAST OF INDIA**  
**FY 2023-24**  
 BATHYMETRIC SECTION C-D  
 CHANGE 17.000 - 19.200

**SCALE**  
 HORIZONTAL SCALE 1 : 2000

**Map Scale:** 1:2000

**Scale Bar:** 0m, 20m, 40m, 60m, 80m, 100m, 120m, 140m, 160m, 180m, 200m

**Vessel: MS QUEEN | Survey Date: 14th, 30th Mar & 9th Apr 2024 | Authorized Signatory**

Rev. No.	Date	Description	Checked	Approved
0	07-04-2024	Issued For Approval		

Drawing No: 6148-SU-PO-095-CD