

**LEGEND:**

**GENERAL**

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

**BATHYMETRY**

- Section E-F Berth Pocket Maintained Level: 16.20m (+15 cm Tolerance)
- Section E-F Maintained Level: 14.40m (+15 cm Tolerance)
- SWB (Lagoon area Maintained Level): 10.70m (+15 cm Tolerance)
- SWB (100x100m Lagoon Area Maintained Level): 9.20m (+15 cm Tolerance)
- WATER DEPTH IN METRES & DECIMETRES BELOW CHART DATUM
- BATHYMETRY CONTOUR

- NOTES:**
- SURVEY WAS CARRIED OUT BY SURVEY VESSEL 'THE QUEEN'
  - POSITION FIXING WAS CONTROLLED FROM SEPTEMIOTR ASTERIX POSITIONING SYSTEM
  - KONGBERG EMOBAC MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT MBES SURVEY
  - OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JETA LANDING JETTY, BPX AND SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM
  - BENCH MARK AT JETA LANDING JETTY (BOLLARD) IS 7.375 m ABOVE CHART DATUM. BPX = 6.70m, Sunk Rock = 6.575m.
  - MOTION SENSOR OCTANS WAS USED TO COMPENSATE SEA SWELL
  - SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN ACAD DRAWING
  - ALL JOINT POST SURVEYS CARRIED OUT JOINTLY BETWEEN JNPA, NITPCW (UTM, CDI & ISPL)
  - ALL FLOTTED DATA IN 10m x 10m GRID SIZE

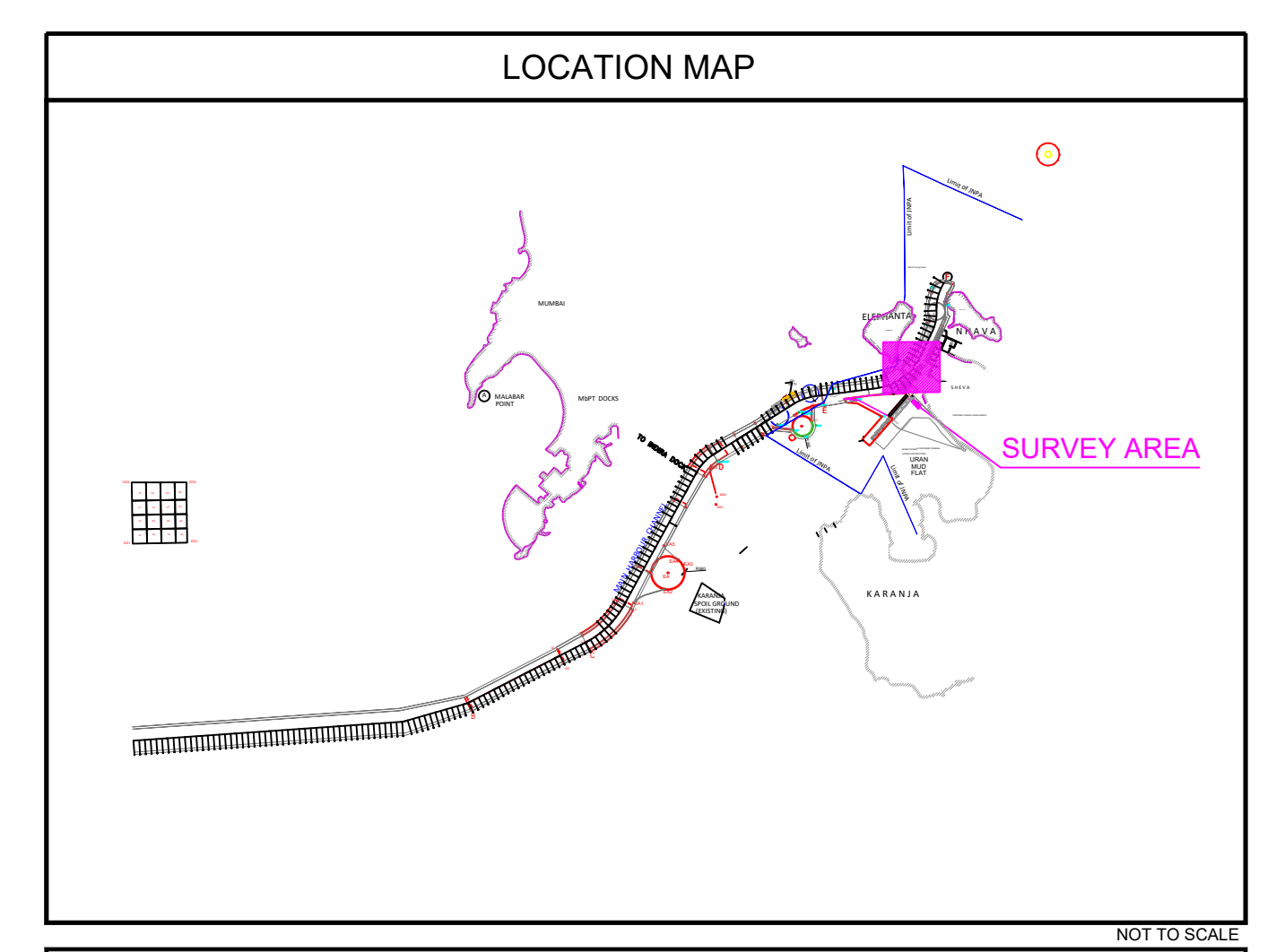
**GEODETTIC PARAMETERS**

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

**REFERENCE DRAWINGS**

Rev. No.	Date	Drawing No.	Description

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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 E-F LAGOON)  
 CHART NO. 31-200-33-200

**SCALE:** HORIZONTAL SCALE 1 : 2000

Version:	MFC-QUEEN	Survey Date:	21st, 23rd, 29th Mar & 6 to 10 Apr 2023	Authorised Signatory:	
Rev. No.:	0	Date:	05-04-2023	Description:	Issued For Approval
Drawing No.:	5946X-SUR-P10-114-SWB	Chart:		End:	