

DATUM - WGS84, CGRS, ZONE-43			
JNPA TURNING CIRCLE CENTRE POINT			
Rd. 30m, CHIRION			
EASTING	NORTHING	LATITUDE	LONGITUDE
284007.978	2090888.246	18°52'18.180	072°56'59.7
MAINTAINED DEPTH IN NAVIGATIONAL CHANNEL (E = 14.40m IN BELOW CD)			

**LEGEND:**

- GENERAL
- UTM GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETRE POST
- MATCH LINE
- SECTION E-F

Section E-F Maintained level: 14.40m (Without Tolerance)  
Berth Pockets Maintained level: 16.20m (Without Tolerance)

**BATHYMETRY**

WATER DEPTH IN METRES & DECIMITRES BELOW CHART DATUM

- NOTES:**
- SURVEY WAS CARRIED OUT BY SURVEY VESSEL 'ME QUEEN'
  - POSITION FIXING WAS CONTROLLED FROM SEPTENTOR ASTERIX POSITIONING SYSTEM
  - KONGSBERG ECHOLOG MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT BATHYMETRY
  - OBSERVED TIDE GAUGE WAS CALLED AT JNPA LANDING JETTY, BPS AND SUNRIK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM.
  - BENCH MARK AT JNPA LANDING JETTY (PROVISED BY 3.75m ABOVE CHART DATUM, BPS & 6.70m SunRIK Rock & 5.70m)
  - MOTION SENSOR PLATFORM WAS USED TO COMPENSATE SEA SWELL.
  - SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN A CAD DRAWING.
  - ALL JOINT POINT SURVEYS ARE JOINTLY CARRIED OUT BETWEEN - JNPA, NITPCW (ITEM), DCI & ISDPL.
  - ALL PLOTTED DATA IN 1:50,000 GRID SIZE.

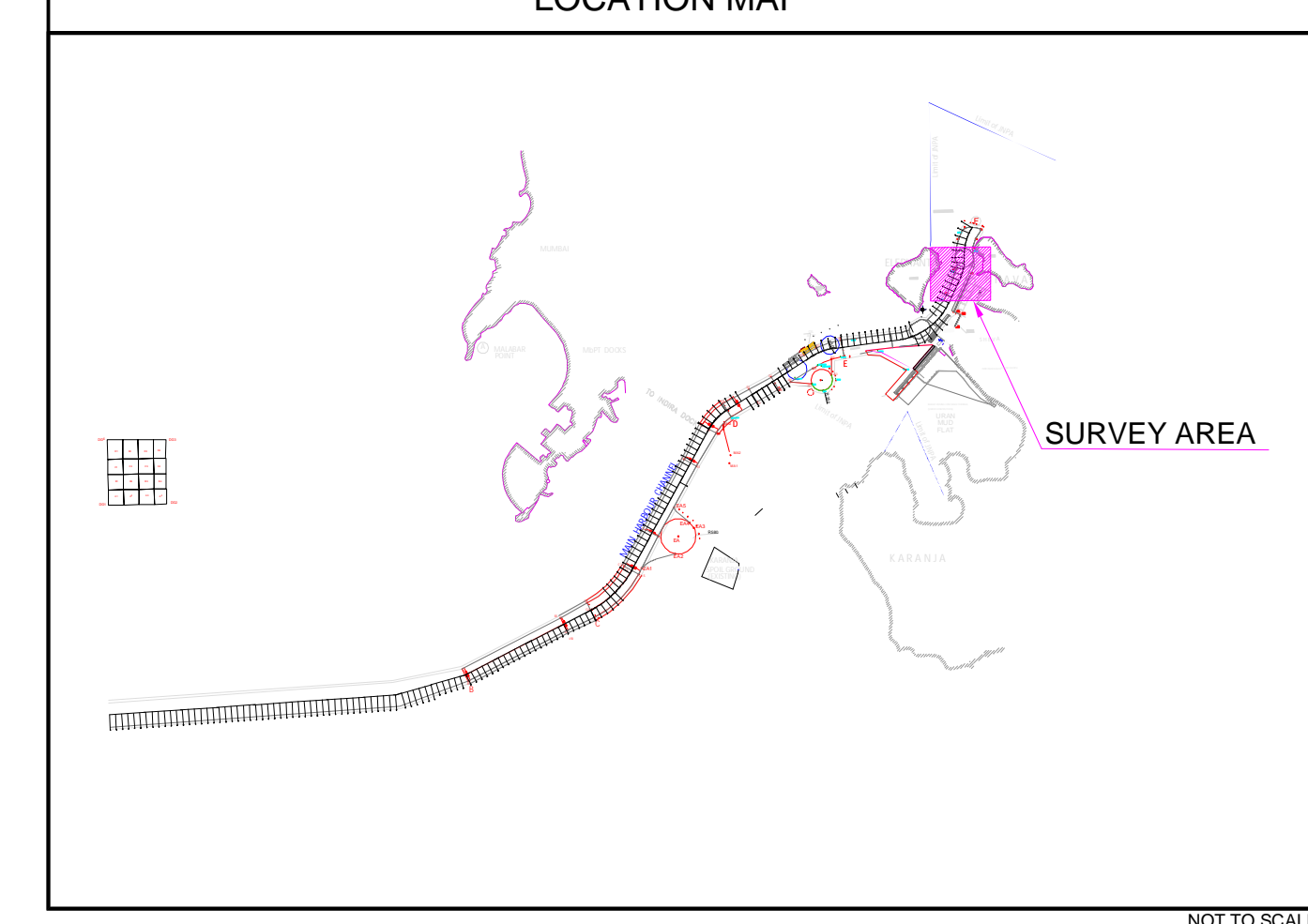
**GEODEIC PARAMETERS**

HORIZONTAL CO-ORDINATE SYSTEM	: WGS84
GEODEIC DATUM	: WGS84
Horizontal datum shift	: 0.000000 m
Semi major axis	: 6378137.000 m
Semi minor axis	: 6356583.814 m
Universal flattening	: 298.2572226
PROJECTION	: Universal Transverse Mercator
Central Meridian (CM)	: 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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**CLIENT**

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**PROJECT**

**JOINT POST SURVEY - 2024**  
**MULTI-BEAM BATHYMETRY SURVEYS**  
**IN NAVIGATIONAL AREA OF JN PORT**  
**NAVI MUMBAI & MUMBAI PORT CHANNEL**  
**WEST COAST OF INDIA**  
**FY 2023-24**  
**BATHYMETRY CHART SECTION E - F**  
**CHANNAGE 33,200 - 34,400**

**SCALE**

**HORIZONTAL SCALE 1 : 2000**

**Authorized Signatory**

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

Drawing No: **6148-SUR-PO-082-EF**