



### LEGEND:

**GENERAL:**

- 1:1M GRID INTERSECTION (WGS84)
- GEOGRAPHICAL GRID INTERSECTION (WGS 84)
- KILOMETRE POST
- MATCH LINE
- TOE LINE OF CHANNEL
- Bathymetry (Below Chart Depth)
- WATER DEPTH IN METRES & DECIMETRES BELOW CHART DATUM
- Section E-F Design Depth: 14.40m (Without Tolerance)
- E-F Berth Pocket Design Depth: 16.20m (Without Tolerance)
- Naree Jetty Design Depth: 3.0m (Without Tolerance)

**NOTES:**

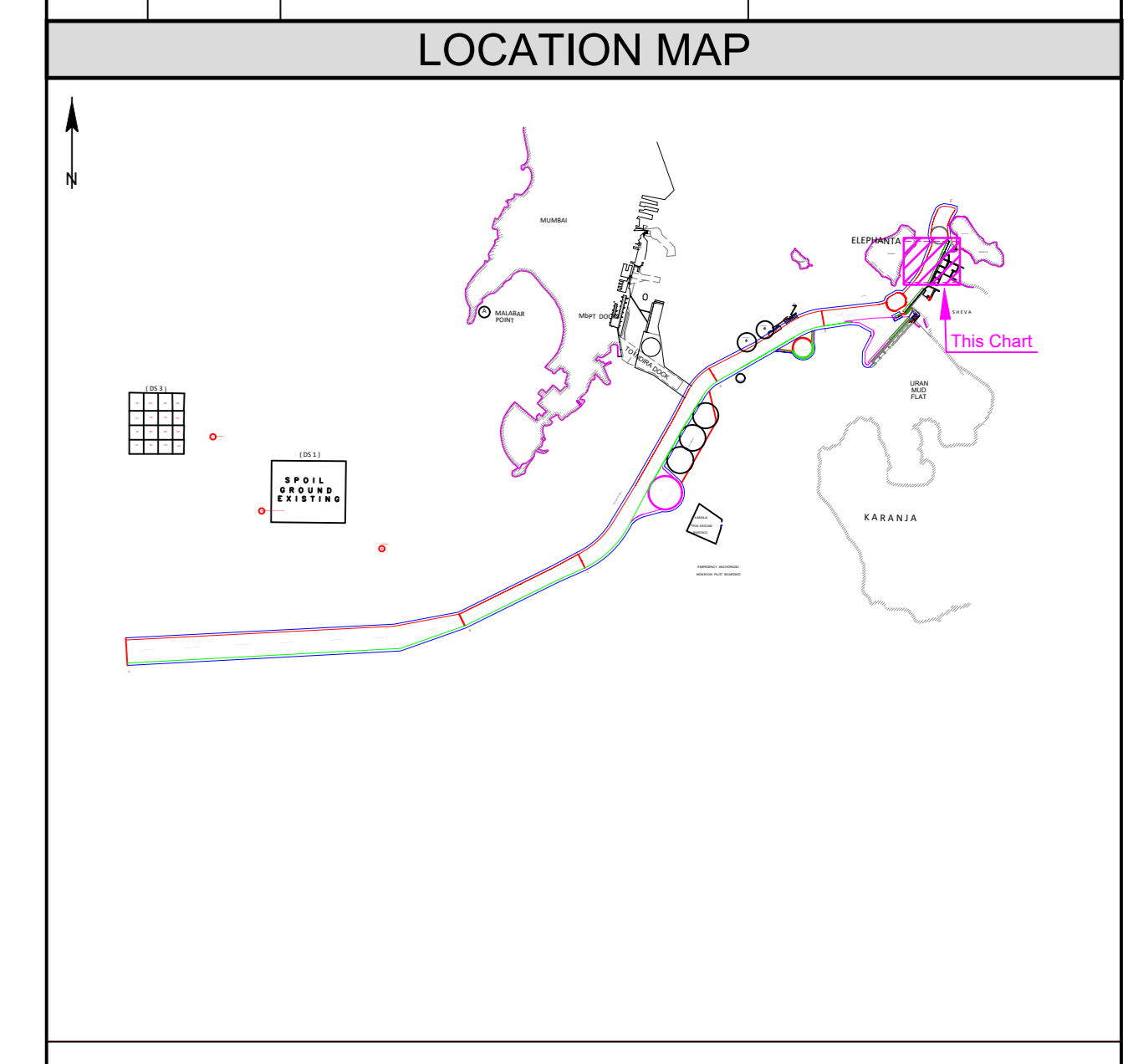
- SURVEY WAS CARRIED OUT BY SURVEY VESSEL 'MS QUEEN'
- POSITION FIXING WAS CONTROLLED BY GPS W/INS POSITIONING SYSTEM
- NORBIT WMMB MULTIBEAM ECHOSOUNDER WAS DEPLOYED TO CARRY OUT BATHY SURVEY.
- OBSERVED TIDE FROM AUTOMATIC TIDE GAUGE INSTALLED AT JNPA LANDING JETTY. BPP AND SUNK ROCK WERE USED FOR REDUCING RAW WATER DEPTH TO CHART DATUM.
- BENCH MARK AT JNPA LANDING JETTY (BOLLARD) IS 7.37m ABOVE CHART DATUM. BPP X 6.20m. BUNK ROCK X 9.80m.
- ROCK W/INS WAS USED TO COMPENSATE SEA SWELL.
- SURVEY AREA CO-ORDINATES WERE PROVIDED BY THE CLIENT IN ACD DRAWING.
- ALL POST SURVEYS ARE JOINTLY CARRIED OUT BETWEEN - JNPA, NTPCW, DCI & VOPL.
- ALL PLOTTED DATA IN 10m GRID SIZE.

### GEODETTIC PARAMETERS

HORIZONTAL CO-ORDINATE SYSTEM : WGS84  
 GEODETTIC DATUM : WGS84  
 ELLIPSOID : WGS84  
 Semi major axis : 6378137.000 m  
 Semi minor axis : 6356752.314 m  
 Inverse flattening : 298.257222603  
 PROJECTION : Universal Transverse Mercator  
 Central Meridian (CM) : 75° E (Zone 43)  
 Latitude of Origin : 0°  
 False Easting : 0.000000 m  
 False Northing : 0.000000 m  
 Scale factor at CM : 0.99960

### REFERENCE DRAWINGS

Rev. No.	Date	Drawing No.	Description



**CLIENT:** JAWAHARLAL NEHRU PORT AUTHORITY  
 ADMINISTRATION BUILDING,  
 SHEVA,  
 NAVI MUMBAI - 400 707  
 Tel. : 022 6781 4569/6781 4154, Fax. : 022 6781 4178

**PMC:** NATIONAL TECHNOLOGY CENTRE FOR PORTS  
 WATERWAYS AND COASTS  
 IIT MADRAS  
 CHENNAI - 600 038  
 TEL : +91 44 22578915

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

**SUB-CONTRACTOR:** VAN OORD INDIA PRIVATE LIMITED  
 201, 2ND FLOOR CENTRAL PLAZA  
 166, C S T ROAD, KALINA  
 MUMBAI - 400 098  
 TEL : +91 22 6901 7900

**PROJECT:** JOINT POST DREDGE SURVEY-MAY 2026  
 MULTI-BEAM BATHYMETRY SURVEYS  
 IN NAVIGATIONAL AREA OF JN PORT  
 NAVI MUMBAI & MUMBAI PORT CHANNEL  
 WEST COAST OF INDIA  
 FY 2025-26  
 BATHYMETRY CHART SECTION E - F  
 CHAINAGE 32 700 - 34 200

**SCALE:** SCALE 1:2000  
 0m 100m 200m

Vessel: MS QUEEN Survey Date: 15, 16 & 18 May 2026 Authorized Signatory

Rev. No.	Date	Description	Authorized Signatory
0	22/05/2026	Issued For Approval	

Drawing No: 34.3652-JNPA-POST-EF-326

	VOPL	DCI	NTPCW	JNPA	JNPA	JNPA

Chart End P-Size A4