

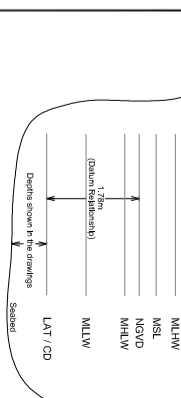
**LEGEND / NOTES :**

- All measurements are in metres.
- Coordinates are in MRSO.
- All levels are based on Bench Mark No. BM 00351 (RL: 3.94m NGVD) (RL: 5.652m CD).
- Chart Datum at Tanjung Gelang is 1.76m Below Mean Sea Level (MSL).
- Chart Survey Datum (MSL) is 1.76m Below Mean Sea Level (MSL).
- Land Survey Datum (MSL) is 0.00m Below Mean Sea Level (MSL).
- Mean Higher Low Water (MHLW) is -1.26m Below Mean Sea Level (MSL).
- Mean Lower Low Water (MLLW) is -1.78m Below Mean Sea Level (MSL).
- Chart Datum (CD) is -1.78m Below Mean Sea Level (MSL).

Depth denotes metres above Chart Datum (CD).  
Depth denotes metres below Chart Datum (CD).

**TIDAL LEVELS AT TANJUNG GELANG**  
(Adapted from Royal Malaysian Navy Tide Table 2010)

NGVD (m)	LAT/CD (m)
Highest Astronomical Tide (HAT)	3.94
Mean Higher High Water (MHHW)	3.34
Mean Higher Low Water (MHLW)	2.28
Mean Sea Level (MSL)	1.92
Land Survey Datum (MSL)	0.00
Mean Higher Low Water (MHLW)	1.57
Mean Lower Low Water (MLLW)	0.50
Lowest Astronomical Tide (LAT) @ Chart Datum (CD)	0.00



**GEODETIC INFORMATION :**

**Geoidetic Data**

- Spheroid : Malayan Revised Everest
- Semi Major Axis : 6 377 304.063 metres
- Semi Minor Axis : 6 356 103.039 metres
- Eccentricity Squared : 0.006 837 946 6302
- Reciprocal Flattening (1/f) : 300 801.7

**Origin of Meridian of Reference**

- Projection : Pseudo Cylindrical Cassini
- Origin of Meridian : G. Singapore
- Longitude of Origin (GM) : E 102° 26' 10.724 E
- Latitude of Origin : N 05° 42' 39.50 N
- Falses Easting : 0 m
- Falses Northing : 0 m

**CLIENT :**

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**PROJECT TITLE :**

**MUHIBBAH KUANTAN MARITIME HUB**

**DRAWING TITLE :**

**HYDROGRAPHIC AND TOPOGRAPHIC SURVEY - CHART DATUM -**

**Surveyed By:** Ahmad, Ridwan, Amir, Anwar, Arif, Hisham, Bahari  
**Checked By:** Mastura  
**Plotted By:** Mastura  
**Drawn By:** Mastura  
**Approved By:** S. Lee Cheuk Hock

**SCALE :** 1 : 1000

**Surveyors Drawing No.:** JPWS/16/PHG/533008/20  
**Drawing Date:** 22nd August 2016  
**Client's Drawing No.:** \_\_\_\_\_  
**Sheet No.:** \_\_\_\_\_  
**Rev.:** \_\_\_\_\_

**Chartered & Licensed Land Surveyors :**

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