JURONG ISLAND – JURONG ROCK CAVERNS (ORC)

<table>
<thead>
<tr>
<th>BERTH</th>
<th>DEPTH A/S (m)</th>
<th>APPROACH DEPTH (m)</th>
<th>MAX LOA (m)</th>
<th>MAX DISPL. (Tons)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORC1A</td>
<td>-</td>
<td>-</td>
<td>140</td>
<td>-</td>
<td>Not operational</td>
</tr>
<tr>
<td>ORC1B</td>
<td>15.9</td>
<td>15.8</td>
<td>297</td>
<td>160,000</td>
<td>Shallower depth of 14.8m exists at North by West of Jetty 1</td>
</tr>
<tr>
<td>ORC1C</td>
<td>-</td>
<td>-</td>
<td>140</td>
<td>-</td>
<td>Not operational</td>
</tr>
</tbody>
</table>

GENERAL INFORMATION

1. No berthing for vessels above maximum displacement.
2. No berthing if wind speed > 20 knots.
3. Approaches to the Banyan Basin entrance is affected by cross current and tidal restriction apply – see Pilotage Guidelines below.
4. During the approach to the entrance of Banyan Basin, it is prudent to stem the prevailing current particularly when the tidal stream exceeds 1 knot in the Sinki Fairway prior entering the Banyan Basin.
5. Communications - Pilot Walkie-Talkie Channel: P02
   Operation room number: (65) 6369 9893 / 9894
PILOTAGE GUIDELINES

Note: The jetty is located in slack water. The below tidal restrictions are meant for the approach to Banyan Basin entrance.

1 BERTHING (Day/Night)

Flood and Ebb Tide

a) Tidal strength ≤1.0 kts

No restriction

b) Tidal strength >1.0 kts to ≤1.5 kts

Draft <12.5 metres: No restriction
Draft ≥12.5 metres: No berthing if LOA ≥250 metres.

c) Tidal strength >1.5 kts to ≤2.5 kts

Draft <11.0 metres: No restriction
Draft ≥11.0 metres: No Berthing if LOA ≥240 metres
Draft ≥12.5 metres: No Berthing if LOA ≥200 metres
GT ≥100,000T: No berthing

d) Tidal strength > 2.5 kts

Draft <10.0 metres: No restriction
Draft ≥10.0 metres: No Berthing if LOA ≥220 metres
Draft ≥11.0 metres: No Berthing if LOA ≥ 200 metres
GT ≥100,000: No berthing

2 UNBERTHING (Day/Night)

Flood and Ebb tide

a) Tidal strength ≤2.5 kts

No restriction

b) Tidal strength >2.5 kts

GT ≥100,000: No unberthing
**TUG ASSIGNMENT GUIDELINES**

Tug Recommendation for Berthing and Unberthing @: ORC Berths 1A, 1B & 1C

<table>
<thead>
<tr>
<th>LENGTH OVERALL OF VESSEL (LOA)</th>
<th>NUMBER OF TUGS</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 70 metres</td>
<td>Pilot, in consultation with the master, may order a tug from the tug company nominated by the ship’s agent</td>
<td></td>
</tr>
<tr>
<td>71 to 122 metres</td>
<td>1 small tug</td>
<td>A vessel equipped with a suitable bow/stern thruster(s), in good working condition, may dispense with the need for a tug in that position.</td>
</tr>
<tr>
<td>123 to 152 metres</td>
<td>2 small tugs</td>
<td></td>
</tr>
<tr>
<td>153 to 180 metres</td>
<td>2 medium tugs</td>
<td></td>
</tr>
<tr>
<td>181 to 250 metres</td>
<td>2 big tugs</td>
<td></td>
</tr>
<tr>
<td>251 metres and above with draft &gt; 14 metres</td>
<td>3 big tugs</td>
<td></td>
</tr>
<tr>
<td>251 metres and above with GT &gt; 75,000</td>
<td>4 big tugs</td>
<td></td>
</tr>
</tbody>
</table>