

## 4.10. Infrastructure Fire Protection Systems

- 4.10.1.** All new developments' infrastructure, marina developments, waterfront developments, theme parks, amusement parks and commercial developments shall be provided with Fire protection Systems in compliance with **Table 9.26.** and auxiliary rooms fire Protection Systems, if any, as per **Table 9.30.**

**Table 9.26.: Infrastructure Fire Protection Systems**

PREDOMINANT OCCUPANCY	SYSTEM REQUIREMENTS	FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
<b>A. INFRASTRUCTURE</b>	<ul style="list-style-type: none"> <li>i. Yard Fire Hydrants shall be provided as per <b>Section 3.11.</b></li> <li>ii. A combined network with irrigation network is not acceptable. The yard hydrant network shall be dedicated with dedicated fire pump and fire water tank.</li> <li>iii. A fire pump room and Fire water tank shall be provided in service blocks or suitable facility management block areas.</li> <li>iv. A dedicated corridor/Trench shall be provided for the Hydrant piping network complete with strategic accessible manholes.</li> <li>v. Yard hydrants shall be provided along the fire access road at interval as mentioned in <b>Table 3.13.</b></li> </ul>	<ul style="list-style-type: none"> <li>vi. The capacity of the stand-alone dedicated fire pump set, serving only the yard hydrant system shall be 1000 gpm at pressure as required to satisfy 6.9 bar at the most remote hydrant outlet valve.</li> <li>vii. The water tank shall have a capacity of 90 minutes of operation, complete with low water level detection, dedicated direct breeching inlet and instantaneous refilling arrangement.</li> <li>viii. TSE (Treated Sewage Water), tested as acceptable for fire protection purpose shall be acceptable upon submission of test reports to Civil Defence.</li> <li>ix. Sweet water of lakes and ponds shall be acceptable, provided that an adequate water level reserve is ensured at all times.</li> </ul>
<b>B. MARINA AND WATERFRONT INFRASTRUCTURE</b>	<ul style="list-style-type: none"> <li>i. Marinas and waterfront property infrastructure and associated facilities shall be provided with Fire Protection systems in accordance with <b>Chapter 21, Table 21.4.</b></li> </ul>	