

**MARINE DEPARTMENT NOTICE NO. 22/2020**

(Miscellaneous Information)

**Requirements of Lighted Buoy for Marking Marine Works Area**

The attention of persons-in-charge, contractors, consultants of marine works, shipbuilders and port operators is drawn to the Marine Department's requirements of lighted buoy for marking marine works area. Details of the requirements are set out in Annex to this Notice.

2. This Notice supersedes Marine Department Notice No. 23/2009.

**Agnes WONG**  
**Director of Marine**

Marine Department  
Government of the HKSAR  
Date: 23 January 2020  
Action File Ref.: L/M No. 15/2019 in HQ/GRP 117/2/3

**Annex to Marine Department Notice No. 22/2020**  
**Requirements of Lighted Buoy for Marking Marine Works Area**

| <i>System</i>                                                       |                        | Class 1                                                                                                                                                   | Class 2                                                                                                                                                                                                                         |
|---------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Application</i>                                                  |                        | When marine works encroaches into any Principal Fairways, Traffic Separation Schemes, the Deep Water Routes leading to Tap Shek Kok, Lamma Island or etc. | When marine works is inside any areas of the anchorages, mooring buoys, approaches to main port facilities, their immediate vicinity, adjacent to areas required for the application of Class 1 buoy or other areas as directed |
| <i>Design</i>                                                       |                        | Skirt keel, buoy body divided by 4 equal spaced watertight compartments                                                                                   | Buoy body filled with foam core or divided by two equally spaced watertight compartments                                                                                                                                        |
| <i>Construction material</i>                                        |                        | Steel/Plastic – the buoy should be able to sustain possible impacts by other vessels to ensure that it remains in shape and afloat after such impacts     | Steel/Plastic – the buoy should be able to sustain possible impacts by other vessels to ensure that it remains in shape and afloat after such impacts                                                                           |
| <i>Diameter</i>                                                     |                        | Not less than 2 metres                                                                                                                                    | Not less than 1 metre                                                                                                                                                                                                           |
| <i>Focal Height</i>                                                 |                        | Not less than 3 metres                                                                                                                                    | Not less than 2 metres                                                                                                                                                                                                          |
| <i>Height between waterline &amp; top of watertight compartment</i> |                        | Not less than 0.9 metre                                                                                                                                   | Not less than 0.6 metre                                                                                                                                                                                                         |
| <i>Plate Thickness</i>                                              |                        | 10mm for steel/equivalent strength for plastic                                                                                                            | 5mm for steel/equivalent strength for plastic                                                                                                                                                                                   |
| <i>Shape</i>                                                        |                        | Optional but must not conflict with that used for a Lateral or Safe Water mark                                                                            | Optional but must not conflict with that used for a Lateral or Safe Water mark                                                                                                                                                  |
| <i>Topmark</i>                                                      |                        | 500 x 45 x 6mm single yellow cross on top                                                                                                                 | Optional, single yellow cross on top if fitted                                                                                                                                                                                  |
| <i>Battery Compartment</i>                                          |                        | Watertight                                                                                                                                                | Watertight                                                                                                                                                                                                                      |
| <i>Surface Finish</i>                                               |                        | Yellow in colour                                                                                                                                          | Yellow in colour                                                                                                                                                                                                                |
| <i>Mooring Chain</i>                                                |                        | 25 - 26mm open link                                                                                                                                       | 15 - 19mm open link                                                                                                                                                                                                             |
| <i>Sinker Size</i>                                                  |                        | Sufficient weight to hold the buoy in position with regard to the seabed, tidal and weather conditions likely to be experienced at the construction site  | Sufficient weight to hold the buoy in position with regard to the seabed, tidal and weather conditions likely to be experienced at the construction site                                                                        |
| <i>Light</i>                                                        | <i>Characteristics</i> | Quick flashing yellow                                                                                                                                     | Quick flashing yellow                                                                                                                                                                                                           |
|                                                                     | <i>Range</i>           | 5 nautical miles at 0.74 atmospheric transmission factor                                                                                                  | 3 nautical miles at 0.74 atmospheric transmission factor                                                                                                                                                                        |
|                                                                     | <i>Equipment Type</i>  | The equipment should be of the type approved by the International Association of Marine Aids to Navigation and Lighthouse Authorities                     | The equipment should be of the type approved by the International Association of Marine Aids to Navigation and Lighthouse Authorities                                                                                           |
|                                                                     | <i>Battery</i>         | Water proof and leak-proof type                                                                                                                           | Water proof and leak-proof type                                                                                                                                                                                                 |

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