

QUERIES.

ANSWERS.

5.—Height in feet of the light-tower from its base to the top? height of the centre of the light above high-water-mark? and what distance seen in clear weather, by the naked eye, at 15 feet above the water? 5.—

6.—Is the light in a round or square tower, or other building? in a screw pile or common pile building? How does it stand the sea and weather? What are the dimensions of the building, diameter of the lantern, &c.? Add a drawing of the light-tower and lantern, or light-vessel, on the scale of a quarter of an inch to a foot? 6.—

7.—Of what material is the light-tower built? How does it resist the wet? Is it painted, or coated with any other material? What the colour, or any peculiarity in the building? When first erected? or repaired or altered? If iron, how often does it require to be painted or coated? Are the walls single or double, with an air space between them? How is the tower ventilated? How kept dry in high latitudes? are stoves allowed for that purpose? 7.—

8.—If a leading light, state what rocks or shoals it is intended to lead clear of? and the bearing and distance of the light from them? 8.—

9.—If the colour of the light changes as a warning of danger, state the bearing on which the change occurs? the colour it changes from and to? and how near the line of change will lead to the danger? 9.—

10.—Is the light fixed? revolving? intermittent? flashing? coloured or not? if coloured, is it effected by the glass of the lantern, or by a shade to the burner? 10.—

11.—If a revolving light, state the time of the entire revolution of the machine? and the number of sides or faces lighted, so as to give the number of appearances in a minute? 11.—

12.—How often is the machine wound up? Are the revolutions regular and without jerks? Is chain or rope used to suspend the weight? Does the chain or rope break occasionally? What substitute is there in the event of accident to the chain or machinery? 12.—

13.—In a revolving or intermittent light, state the duration of the light on the seaman's eye? and the interval of darkness at the distance of 10 miles in clear weather? 13.—

14.—Is it a reflected or refracted light? What kind of reflectors or apparatus for directing or increasing the light? and for regulating the supply of oil? Also the focal distances of the reflectors or lenses? and number and kind of lamps or burners? 14.—

15.—At what time is the light lighted and extinguished? Is it lighted every night? Number of hours the light is exhibited during the year? 15.—

16.—Is there a convenient landing-place, and how far off? Is a boat attached to the station? or is there a life-boat near? 16.—

17.—State the horizontal distance of the foot of the tower from high and low-water marks at spring tides? If on piles, what depth there is at low-water spring tides? 17.—

18.—What effect has a heavy sea or surf on the tower itself on the glass of the lantern, or on the lights? Does the spray fly over the lantern? 18.—

19.—What is the size and thickness of the panes? Is the framing vertical or diagonal? Are there any protecting bars? Are there storm-panes, fitted with screws and pads, ready at hand in case of a pane being broken? 19.—