

QUERIES.

ANSWERS.

20.—If a light-vessel, in what depth of water moored? what scope of cable? what description of moorings and anchors? and how often are the moorings sighted; what sort and size of cables? What her tonnage? How many men on board? Does she show as many balls by day as lights by night?

20.—

*Internal Arrangements, Supplies, Maintenance of Light.*

21.—By whom are the lamps and other apparatus made or supplied? Have the reflectors or lenses ever been displaced or otherwise injured? and what means were adopted to remedy the mischief?

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22.—Number of light-keepers attached to the light? Are they resident, or how many are required to be so at a time? Is a regular watch kept? Any mode of summoning the keeper off guard by an alarm?

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23.—What has been the training of the keepers? Have they any other occupation, and what? What salaries are they paid? and by whom appointed?

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24.—Have they wives or children? Are they lodged in the tower or in a separate building? Are they supplied with books? What medical aid in case of emergency? What opportunities are there of attending public worship? If none, is the service read regularly on the Sundays by the principal light-keeper?

24.—

25.—Do they keep any journal of proceedings? and of expenditure of stores?

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26.—Do they make any periodic report? and if so, how often, and to whom? Any notice taken therein of wrecks in the neighbourhood of each lighthouse? or of vessels that pass or are seen by day?

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27.—Kind of oil used for the light? Price paid for it per gallon? Quantity consumed per hour? and during the year? and kept in reserve? Is the oil liable to congeal? and if so, how remedied? Is it kept in underground cellars? or where? and in what kind of vessels?

27.—

28.—Has rape seed or other vegetable oil been tried? and with what comparative result? If lighted by gas state where and what substance derived from, and the cost? In the event of the gas failing, what substitute is there at hand, and how soon could it be made available?

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29.—In lights on rocks at sea, or in a vessel, from whence, and how often victualled? Where is water obtained? Can fuel be readily procured? What mode of communicating with the shore by signal? Are they furnished with Marryatt's code of signals?

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30.—If a tide-light, at what time of tide, or depth of water, is it shown? and extinguished? What signal by day indicates the same depth as the light by night?

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31.—Are the panes of glass of the lantern inside free from moisture or ice in all temperatures? are they single or double? Is the roof double with an air space between the plates to check rapid condensation?

31.—

32.—Are the panes of glass free from smoke and soot inside when the lamps have been burning all night? Is there any and what mode of complete ventilation?

32.—

33.—Are the panes of glass free from ice on the outside in case of rain, sleet or snow? or are there means provided for cleaning them?

33.—

34.—What is the greatest and what the least quantity of light-room stores kept at the lighthouse or light-ship? And can they be kept dry, and how? How many spare lamps, burners, &c.? spare lenses, refractors, reflectors and mirrors?

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35.—How are the light-room stores supplied? and if from England, from whom? If by contract, is public notice given?

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