

The illuminating apparatus is dioptric of the 7th order. The lighthouse stands on the boulder and gravel beach at the southern extremity of the island, close to the water. It consists of a small wooden tower with dwelling attached painted white, the tower surmounted by an iron lantern painted red.

The height of the building from its base to the vane on the lantern is 37 feet.

The total expenditure in connection with the establishment of this light has been \$2,177.35.

Nigger Island light to replace Potter's Island light.

During the past season a complete hydrographic survey of the Bay of Quinté has been made, and the results of this survey show that the temporary light established last year on Potter's Island was not in the best position for leading through the narrow and critical channel between Nigger Island and Potter's Island. The Chief Engineer having reported that a light at this point should be built on a pier on a shoal south-west of Nigger Island, plans and specifications have been prepared and a contract has been entered into for the completion of the work by the opening of navigation next year. Mr. Wm. J. Gates, of Kingston, who submitted the lowest tender, has been awarded the contract at \$2,000.

Improvements in the light approaching French River.

In 1875 an officer of the department acting in conjunction with an officer of the department of Public Works made a survey of the mouth of French River and established four temporary lighthouses to guide vessels from the Georgian Bay to the landing place in the river, which have since been maintained by this department.

When Staff Commander Boulton surveyed that part of the Georgian Bay he reported certain changes and improvements in the arrangement of these lights desirable, and during the past year these recommendations have been carried into effect, as follows :

(1) *Bustard Rocks main light.*

The main lighthouse on the Bustard Rocks, which in addition to being a range light, is also used as a lake coast light, has been replaced by a new tower built 20 feet north-east $\frac{1}{4}$ east from the old one.

The new building is a square wooden tower, painted white, surmounted by a hexagonal iron lantern painted red. The height of the tower from its base to the vane on the lantern is 37 feet.

The light is as heretofore fixed white. It is elevated 48 feet above the level of the bay, and should be visible 12 miles from all points of approach, except over the dangerous rocks and shoals to the north-eastward and eastward. The illuminating apparatus is dioptric of the 7th order.

2.—*Bustard Rocks, front light of inner range.*

The front range lighthouse on the Bustard rocks, has been replaced by a new tower built near the site of the old one, 229 feet N.E. $\frac{1}{4}$ E. from the main light building.

It is a square wooden tower, painted white, surmounted by a square wooden lantern, painted red, and is 28 feet high from its base to the vane on the lantern.