

by the Department at the other stations. All the other parts of the machinery appear to be good and substantial, and work smoothly when in operation.

The importance of establishing a whistle or fog-horn at this Station has frequently been reported on, as it is the entrance to Five Fathom Hole, the only safe harbour of refuge for vessels on the eastern side of the Chignecto Channel.

The fog-trumpet being added to this Station, an increase of pay was allowed to Mr. J. R. Stiles, out of which he is to provide and pay for the services of a suitable engineer, whose qualifications for the position will be subject to the approval of the Department. The repairs to the lighthouse and other improvements at this Station last year were done by Mr. J. R. Stevens, and which he reported on as follows:—The old sills from the lighthouse were removed with considerable trouble, on account of the sills being bolted with bolts 6 feet long, 1½-inch diameter, to wall, but I succeeded in getting them out; new sills were placed under, and again thoroughly bolted. The old floor being rotten, I was obliged to replace the whole with new. In removing the old sills, the steps leading into the lighthouse had likewise to be removed, and, being much decayed, tumbled to pieces, and required to be partially made new. The pond for whistle was made 35 feet long, 17 feet wide, and about 4 feet deep. In digging the ditch, the part crossing the reef near the corner of the barn, for 100 feet, was solid rock, which I had to blast to the depth of 8 feet, in order to bend it to the engine house. The whole length of the ditch was 250 feet; you can readily see how expensive the work was. The platform for landing coal and supplies was constructed about 35 feet square, and with the addition of bolted timbers across the middle of the posts, which were planked over and ballasted, in order to prevent the posts rising with the tides, which completely secured them, and no pains was spared in making the work safe. I also had made steps for ascending and descending to the reef. After completing the foregoing, the men were set to work, and made a good, thorough road from the platform to the top of the hill. The water in the pond was a foot deep and still increasing.

CAPE ENRAGE (FIXED WHITE.)

Lat. 45° 35' 34" N.; Long. 61° 46' 55." W.

Mr. W. S. Starratt, lighthouse keeper and engineer, is in charge of this Station. The Department increased the pay of the keeper at this Station, on condition that he was to provide and pay for a competent assistant engineer for the fog-whistle. I had not visited this Station up to the date of this Report. "Mr. Starratt reports that he "considers it important that the lighthouse and fog-whistle should have a careful and "honest inspection." It was found necessary to stop this whistle to repair the boiler. Mr. Starratt reported that one of the plates directly over the fire was cracked and was leaking. Mr. Crosby and a boiler maker were sent to the Station to make the necessary repairs, which were completed at the expense of \$76.95, and the whistle again put in good working order. The machinery at this Station including the boiler, was that formerly in use on Partridge Island, and consequently is old, and requires greater care than is necessary where the boiler and machinery are new. A new boiler will therefore shortly be required here.

Some of the light keepers and engineers in charge of stations, have, of late, taken upon themselves the liberty of changing their assistant engineers without bringing the matter under the notice of this Agency. This is a matter which the Department cannot but regard with some concern and also with disfavor; no resident lighthouse keeper should be allowed to make changes of so important a nature as the removal of one assistant engineer and the appointment of another, without first submitting the matter to the Agency of the Department, and setting forth the reasons for such a change; at the same time submitting for enquiry the name of the person whom it is proposed to appoint in the place of the other. Then the sanction of the Department