

Marine (1899) Department.

G.O., No. 912 Marine

DATED 28-9-1899.

[Despatch Abstract.]

Light at Alguada Reef Lighthouse

Letter from the Govt of India
forwarding printed copy of a
memorandum giving a full description
of the —, recorded

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500-11-9-99.

Indexed. 3/10/99

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Lyth at Aguada: -
Forwarding printed
Copy of a memo giving
a full description of the

BACK PAPERS.

FURTHER PAPERS.

Letter No. 9581/37 C.I., dated 1st September 1899.
From--The Government of Burma, Public Works Department.
To--The Government of India, Public Works Department.

I am directed to report that the existing light at Alguada Reef Lighthouse will be available for use elsewhere when it is replaced by the new light which has been ordered from England, the indent for which is now under compliance by the Director General of Stores.

I am to enclose printed copies of a Memo giving a full description of the light at Alguada, and the present condition of all parts.

The Director General of Stores, I am to say, has also been informed of the matter.

K. P. G.

MEMORANDUM.

The present light at Alguada Reef Light-house is a "first" order, "catadioptric" "white" "revolving" light having a revolution of one minute between each flash.

The intensity of the light is 6,000 candle-power. The range of visibility in clear weather where it is now exhibited from is 18 miles. Focal plane of light is 144 feet above high water level. The lighting apparatus is formed of light Tee-iron framing having a cast-iron flanged tube with friction rollers at the top and resting on a geared turn-table (on 12 friction rollers) which is worked by the machine below.

The apparatus has 16 Argand lamps with bottles, wick-holders, wick-lifters, gallery and drip-cup and are ranged as follows:—

Four top tier.

Eight centre tier.

Four bottom tier.

At the back of each lamp a copper hemispherical reflector thickly coated with silver is placed. All the reflectors are in good condition.

At the front of each lamp a gun-metal frame having one bulls eye and eight concentric lenses of white colour is placed. A few of these are slightly damaged by being chipped and cracked.

All the lamps of the apparatus are provided with wrought-iron carriages for raising or lowering.

Besides the complete apparatus as described above the following spare gear belong to this light:—

Thirty-three spare lamps, complete, in good condition.

One spare copper hemispherical reflector.

One spare lens slightly defective.

Eighteen spare carriages.

The machine which is by T. Slight, Edinburgh, is enclosed in a square cast-iron box, having glass doors at each of the four sides. It is the ordinary kind as used where "revolving" and "fixed" and "flashing" lights are used. It is provided with the following:—

- (1) Hand-working gear in case of accident to automatic gear.
- (2) Lever with clutch gearing for throwing in and out or for working the machine independent of the apparatus, and a ratchet gear for winding up.

The bearings for the shafts are of gun-metal of the Plummer Block pattern. The working parts, save the winding pinion and brass liner over drum, are slightly worn but, which in no ways interfere with the proper working of the light, are in very good condition. The main shaft is on ball bearings, all the bearings, shafts, and steel pins for the pinions, also the heel and head brasses of the clutch gear shaft have just been renewed and adjusted. The light is 34 years old and still works very nearly to time being one second out either way.

The weights are of lead. The machine is provided with two screw jacks for raising the apparatus when changing the working of the Bottom Friction Rollers, one spare radial wheel and one spare flywheel shaft. Along with light are 9 wrought-iron oil tanks with brass draw-off taps. Three such tanks are capable of holding 80 gallons of coconut oil which is the illuminant used while the other six each hold 150 gallons.

The apparatus makes one complete revolution every four minutes. The consumption of oil for a nights work is three gallons.

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Mar 13/4/99

No. 962 C.W.M.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

CIVIL WORKS.

Miscellaneous.

Simla, the 18th September 1899.

The under-mentioned papers are forwarded to the Secretary to the Government of Madras, Public Works Department, for information.

By Order,

A. C. Lees

Under Secy. to the Govt. of India.

Documents referred to.

Copy of letter No. 9581/57 C.I., dated the 1st September 1899, from the Secretary to the Government of Burma, Public Works Department.

Light on the Alguada Reef.

J.B.M.

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Mar 13/1901