



CASE STUDY

Jaigad Lighthouse Upgrade using High Output LED Light Source

Jaigad Lighthouse, India



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Project Overview



Application

Jaigad Lighthouse Upgrade using High Output LED Light Source



Product

SL-LED-324



Location

Jaigad Lighthouse, India



Date

March 2018



The newly installed LED Light Source allowed the customer to see automatic results via improved range of the light and reduced power consumption.

Background

The Jaigad Lighthouse is situated on the western edge of Jaigad Fort and guides ships sailing between the regions of Dabhol and Ratnagiri. Built in 1832, the Jaigad Lighthouse was operating with old incandescent lamps that were functioning at a very low intensity at 100% range effectiveness. The efficiency of the lighthouse along with the replacement of lamps, continued maintenance and no monitoring available, created the need for an upgrade.

Project Overview

The Director General of Lighthouses and Lightships India, with the assistance of Sealite distributor Aeromarine installed the LED light source to immediately increase the efficiency of the lighthouse. The installation of the SL-LED-324 light source achieves more intensity at 40% effective range, compared to 100% of the previous lamp, allowing the customer to see automatic results.

In addition to the new LED light source, GSM monitoring & control was added to track the status of the newly installed light providing a huge benefit to the customer, as no monitoring was available on the previous light.



LED Light Source originally developed by the GLA R&R NAV Directorate and manufactured under license to Trinity House.





Design Concept

Until the launch of the high output LED light source, it was impossible to modernise a light source to take advantage of the next generation low powered LED emitters. The Sealite light source makes huge savings in energy and maintenance whilst retaining the heritage value and optical efficiencies of the classical apparatus. The lighthouse was able to have the original lens positioned back in place.

The light source provided consists of 36 individual LEDs which can be individually controlled and turned off if they shine over land, resulting in an additional power saving. Sealite's mounting pedestal was also used to provide a plug and play installation and a complete lighthouse upgrade solution.

Outcome

Following the success of the LED light source installation and continued performance over a 6-month period, the Director General of Lighthouses and Lightships India intends to upgrade all of their lighthouses on the Indian Coastal Belt with the revolutionary solid-state light source.

Along with the superior LED light source series, Sealite can offer a consultancy service to either survey the lighthouse on-site or prepare recommendations from customer supplied photos and detailed lens drawings. Sealite can also provide a checklist to streamline this process and ensure the lighthouse upgrade is seamless.



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