

MUMBAI PORT AUTHORITY
MARINE DEPARTMENT

Notice of Invitation of Budgetary Quotation

MbPA require to procure Lantern and fitting on existing buoys on Navigational Channel between Karonja and Uran.

Sr.No	Description	Qty
1	Supply of Solar Marine lantern Model SL-75 As per enclosed specification. Colour – Green.	3
2	Lumpsum service charge for fitting and testing at the three buoys location	1

Terms:

1. Item to be supplied as per attached specification.
2. Lantern to be fitted in place at Navigational channel. Launch will be arranged by MbPA.
3. Supplier to arrange all necessary tools and stores items for fitting in place and testing

The budgetary quotation may be sent by email to d.kamal@mumbaiport.gov.in on or before 14/08/2024 by 1500hrs.

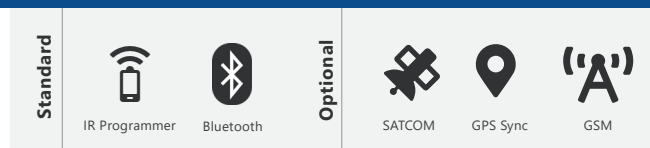
Any enquiry or clarification shall be contacted on: 022- 6656 4215 / 4024

Sr. Marine Engineer

The SL-75 lantern is a next-generation solar marine lantern with up to 5NM visible range. Its dual panel design is unique in its ability to 'track the sun' and operate reliably in low sunlight environments such as the UK, Canada and Europe.

Key Features:

- Intensity range of up to 5NM
- Dual high performance solar modules, angled for maximum sunlight capture
- Enhanced optics
- Bluetooth programming and maintenance
- GPS synchronisation, GSM monitoring and control, and Satellite Connectivity as options



Bluetooth Programming and Maintenance

Completely programmable via the SealitePro® App, configure and monitor the SL-75 from a distance up to 50 metres. An inbuilt solar calculator confirms the lanterns optimal operating performance, at the set location.

Dual High Performance Solar Modules

Angled solar modules obtain maximum sunlight capture, allowing the unit to operate reliably in a range of low sunlight environments. Tilted solar modules are less susceptible to fouling or snow cover.

GPS Synchronisation (optional)

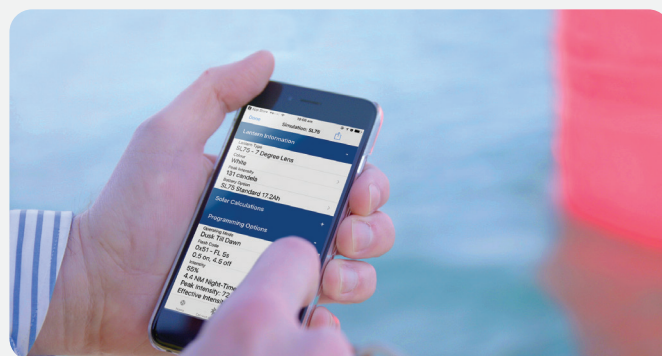
Synchronise two or more lanterns to flash in unison via an internal GPS module. Synchronised flash helps to clearly distinguish from other aids to navigation and background lighting - ideal for rivers, marina entrances, channel marking and aquaculture applications.

GSM Monitoring & Control System (optional)

Access real-time diagnostic data and adjust lantern settings via cell-phone. Lantern can be configured to send alarms via SMS text messages or email including lantern reporting.

Accessible Via Star2M

The SL-75 is available with an optional integrated Iridium® Satellite module enabling two-way monitoring and control using the Iridium® Low Earth Orbit satellite network.





SL75

Light Characteristics

Light Source	High Efficiency LED
Available Colours	Red, Green, White, Yellow, Blue
Typical Maximum Intensity (cd) [†]	Red - 76 Green - 104 White - 131 Yellow - 65
SL-75-7D	Red - 111 Green - 129 White - 183 Yellow - 87
SL-75-5D	
Visible Range (NM)	3-5
Horizontal Output (degrees)	360
Vertical Divergence (degrees)	7 (standard) / 5 (optional)
Available Flash Characteristics	310 plus custom characters
Intensity Adjustments	Multiple intensity settings
LED Life Expectancy (hours)	>100,000

Electrical Characteristics

Current Draw (mA)	Refer to Sealite Power Calculator
Circuit Protection	Integrated
Nominal Voltage (V)	3.6
Autonomy (days)	>30 (14 hour darkness, 12.5% duty cycle)
Temperature Range	-40 to 80°C

Solar Characteristics

Solar Module Type	Monocrystalline
Output (watts)	5 (2 x 2.5 watt)

Power Supply

Battery Type	High grade NiMH
Battery Capacity (Ah) - Standard	17.2
- Large	21.5
- X Large	28.8
Nominal Voltage (V)	3.6

Physical Characteristics

Body Material	LEXAN® Polycarbonate – UV-stabilised
Lens Material	LEXAN® Polycarbonate – UV-stabilised
Lens Design	Single LED Optic
Mounting	3 types: 3 & 4 hole 200mm bolt pattern, 3 hole 150mm bolt pattern, 4 hole 162mm bolt pattern
Height (mm/inches)	Standard: 314 / 12 3/8 SATCOM: 361 / 14 1/2
Width (mm/inches)	231 / 9 1/8
Mass (kg/lbs)	2.5 / 5 1/2 (standard model)
Product Life Expectancy	Up to 12 years ^

Compliance

CE	IFCC Part 15 Rules & ICES-003 EN61000-6-1:2007, IEC61000-6-1:2005, EN61000-6-3:2007, IEC61000-6-3:2006
IALA	Signal colors compliant to IALAE-200-1
Ingress Protection	IP68

Intellectual Property

Trademarks	SEALITE® and Star2M® are registered trademarks of Sealite Pty Ltd
Warranty *	3 years
Options Available	<ul style="list-style-type: none"> Satellite Connectivity GPS Synchronisation GSM Monitoring & Control System SL-75-5D (5 Degree divergence model) Charging Port 21Ah and 29Ah larger battery capacity options Bird Deterrent

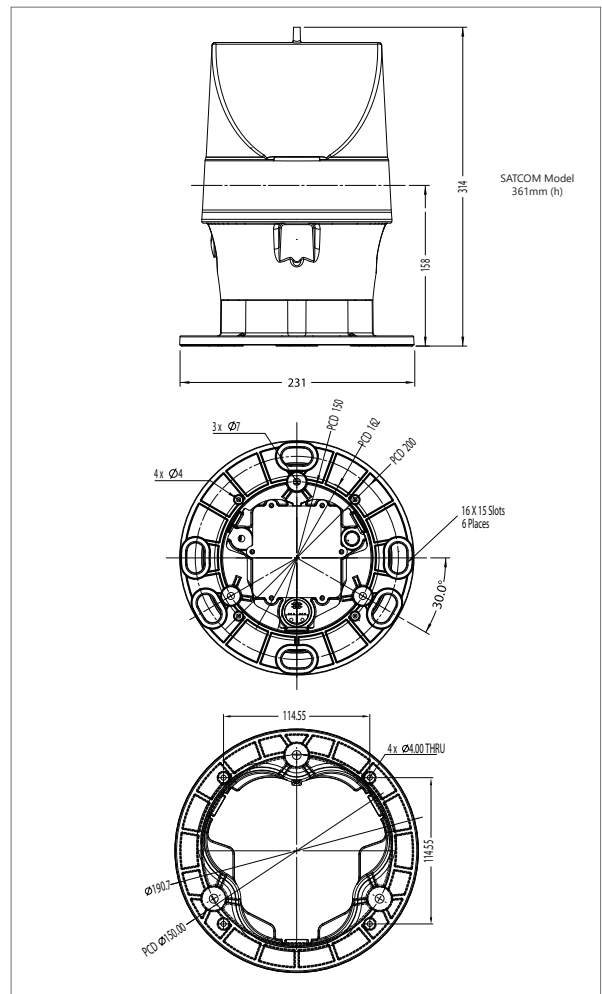
Ordering This Product

SL-75-[XXD]-[BX]-[X]-[XX]-[XX]



- 1 Product Number**
- 2 Lens Option:**
05D 5 Degree
07D 7 Degree
- 3 Battery Option:**
B1 17Ah battery
B2 21Ah battery
B3 29Ah battery
- 4 LED Option:**
W White
Y Yellow
G Green
R Red
B Blue
- 5 Internal Options**
00 No internal options
01 GPS
02 Satellite (GPS)
03 GSM (GPS)
- 6 External Options**
00 No external options
01 On/Off Switch
02 Charge Port
03 On/Off Switch + Charge Port

Technical Illustrations



• Specifications subject to change or variation without notice
* Subject to standard terms and conditions
† Intensity setting subject to solar availability
^ Refer to the Sealite website under the warranty section