



भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण

(पत्तन, पोत परिवहन और जलमार्ग मंत्रालय, भारत सरकार)

INLAND WATERWAYS AUTHORITY OF INDIA

(Ministry of Ports, Shipping and Waterways, Govt. of India)

क्षेत्रीय कार्यालय : पी-७८, गार्डनरीच रोड, कोलकाता - ७०० ०४३ (प० ब०)

REGIONAL OFFICE : P-78, Garden Reach Road, Kolkata - 700 043 (W.B.)

दूरभाष : 2439 0393 / 5577 / 6055, फैक्स : 2439 5570



SAGARMALA
PORT-LED PROSPERITY

E-mail : iwaical@yahoo.com
dirkol.iwai@nic.in

IWAI/KOLNW-97/RCW/2022-23 / 1544

04th March 2023

To

M/S Marrine Navaid and Solar auto Pvt. Ltd.,
103, Western Avenue, Sainik Firms,
New Dehi-110080.

Sub: Award of work for "Supply of 2 NM Navigational LED lights
(Solar Operated) during 2022-23" -reg.

Ref.: e-tender no. IWAI/KOLNW-97/RCW/2022-23

Sir,

With reference to e-tender submitted by you for the work "Supply of 2 NM Navigational LED lights (Solar Operated) during 2022-23" whose technical bid was opened on 24/01/2023 & price bid on 25/02/2023. This work is awarded to you at a total cost of ₹1,87,500.00 (Rupees One Lakh Eighty Seven Thousand Five Hundred only.) including all taxes, levies, duties, cess etc, excluding GST as applicable. The bill of quantity to be executed and the approved rates is enclosed at Annex-A. The payment of executed bills shall be made as per terms and condition of contract end as per rates enclosed BOQ.

2. As per clause 3 of General condition of the contract an amount of ₹9,375/- (Rupees Nine Thousand Three Hundred Seventy Five only) equal to 5% of contract value shall be a required to deposit as performance guarantee in the form of either demand draft payable at any nationalized/schedule bank or an irrevocable bank guarantee bond of any scheduled bank or State Bank of India in accordance within the format as prescribed in the tender document for aforesaid work within 15 days of the issue of the work order. As per clause no 4.1 a sum @ 10% of the gross amount of the bill shall be deducted from the first and final bill till the sum along with the sum already deposited as performance guarantee will amount to security deposit @5% of the contract value i.e. ₹9,375/- of the subject work.

3. Further, you have submitted MSME certificate for exemption of EMD along with the tender, hence, balance security deposit amount of ₹9,375/- shall be recovered from the running account bills. Bank guarantee will not be accepted as security deposit.

Contd..P/2

Head Office : Jalmarg Bhawan, A-13, Sector-1, NOIDA - 201 301 (U.P.)

Phone : +91-120-2544036, 2543972, 2527667, 2448101, Fax : +91-120-244009, 2544041, 2521764, 2543973

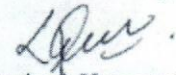
Website : www.iwai.gov.in / www.iwai.nic.in Email : iwainoi@nic.in

4. The supply of 2 NM Navigational LED lights (Solar Operated) shall be completed within 45 days from the date of issue of work order and as per specification mentioned in the tender documents.

5. Director(I/C), IWAI, Kolkata shall be the Engineer-in-Charge (EIC) of this work.

6. You are requested to acknowledge the receipt as token of your acceptance and attend the Director, R.O IWAI Kolkata, with two non judicial stamp of Rs.100 (Rupees One Hundred only) each to enter into Integrity Agreement and formal agreement within 15 days from the date of issue of this work order.

Yours faithfully,



(Arvind Kumar)

Director(I/C)

Email: dirkol.iwai@nic.in

Phone: 033-24390393

Encl.: As stated

Copy to:

1. The Sr.A.O, IWAI, Kolkata.
2. Office copy.

- Award of work for "Supply of 2NM Navigational LED lights (Solar Operated) during 2022-23.

From: IWAI Kolkata (iwaical@yahoo.com)
To: sales@asianavigation.in
Cc: akumar@iwai.gov.in; anilkumar.iwai@nic.in
Bcc: skunduiwai@yahoo.co.in
Date: Saturday, 4 March, 2023 at 03:42 pm IST

Sir,

Please find the attachment.

Inland Waterways Authority of India
P-78, Garden Reach Road, Kolkata- 700 043



2 NM Light - 04-03-2023.pdf
2.2MB

If there is delay in the Employer and the Contractor coming to an agreement on the rate of an extra item, rates as proposed by the Employer shall be payable provisionally till such times as the rates are finally determined or till date—mutually agreed).

If the Nodal Officer or his nominee decides that the urgency of varying the work prevent a quotation being given and considers not delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

3 INSPECTION

- 3.1 Periodic inspection shall be carried out by the Owner's representative. The Contractor will have the inspection Schedules finalized with the Engineer in charge of the Owner. Generally all attempts should be made to have joint inspections and on no point should the number of inspection be restricted.
- 3.2 The Contractor shall coordinate with the Classification Society/Statutory authority for carrying out periodic inspections at the various stages of the fabrication of the Lights at their cost.

IV. TECHNICAL SPECIFICATIONS FOR 2 NM SEALITE SL-60 OR EQUIVALENT SOLAR MARINE LIGHT SYSTEM OF SIMILAR SPECIFICATION

INTRODUCTION

1. The intent of this specification is to outline the details of the Navigational LED Light System for 24 hrs navigational purpose, for NW-97.

2. Overview

This specification is for a 2-3nm+ marine lantern.

Each light should be entirely self-contained with 1 x 1.4 watt solar panel, 8Ah NiMH battery and ultra-high intensity LEDs.

The lights should be delivered ready to install. The only assembly required will be activation of each individual light and optional mounting accessories.

2.1 Light Characteristics

- a) The light source will be one (1) LED.
- b) The output should be available in red and green.
- c) The light should have a maximum available intensity (dependent on model) of up to:
 - Red light output 24.7cd
 - Green light output 26.6cd
- d) The light should have a visible range of 2-3nm+.
- e) The light should have a horizontal output of 360 degrees.
- f) The light should have a vertical divergence of 7 degrees.
- g) The light should have up to 256 IALA recommended flash characteristics.
- h) The light should have intensity settings in adjustable in 25% increments.

2.2 Electrical Characteristics

- a) The light should have integrated circuit protection.
- b) The light should have a nominal voltage of 3.6v.
- c) The battery type should be Nickel Metal Hydride (NiMH).

Annex-A

Supply of 2 NM Navigational LED lights (Solar Operated) during 2022-23

Sl. no	Item Description	Unit	Qty	Rate (₹)	Amount (₹)
1	Supply of 2 NM Navigational LED lights (Solar Operated) as per technical specification & inclusive of all taxes as applicable (except GST, as applicable) during 2022-23 (15 nos. Green 2 NM Navigational LED light and 10 nos. Red 2 NM Navigational LED light)	Nos.	25	7500	187500/-
Total					187500/-
(Rupees One Lakh Eighty Seven Thousand Five Hundred Only)					
GST (As applicable)					

Signature

13.	Remote	The lights should have remote monitoring & control capability to monitor flashing time and interval of all the lights.
14.	Weight	≤ 2 Kg.
15.	Warranty	3 years

**** Anodized plate on Light should be sealed in following pattern:-**

(i) Red IWAI/Kol/NW-97/R-1

(ii) Green IWAI/Kol/NW-97/G-1

3. NOTE

- (a) Design and prototype testing: The design of the lights shall be developed to discharge the duty and function as in the specifications. The prototype if not available as per the specifications should be developed after the approval of IWAI and concerned statutory bodies like DGLL or other similar organizations. Thereafter the prototype shall be tested in the presence of the representative of statutory Organization/IWAI and the balance lights shall be manufactured and supplied only after the satisfactory test and trial and submission of certificate from DGLL and other similar organization..
- (b) Weight : The weight of all fittings will be minimum to ensure proper stability of the solar operated LED lights.
- (c) Documentation : Maintenance manual giving full set of drawings/circuit diagrams, test readings, procedure for testing etc will be finished. Test certificates from recognized test laboratory (Indian/Foreign) for luminous intensity and divergence etc. will be given as applicable.
- (d) Adequate space for housing the battery along with proper securing and stiffening arrangement built within the housing of the lights to be provided, as shown in the guidance drawing.
- (e) For ensuring maintenance free operation, case of transport, the lights, batteries, solar panels etc. should preferably be mounted in one compact housing unit.

4. DURATION OF WORK

The time allowed for delivered of all the lights to IWAI, Kolkata regional office, P-78, Garden Reach Road, Kolkata – 700043 and the supply work shall be completed within 45 days from the date of issue of work order. The contractor will supply following lights at IWAI, Kolkata and it may varies depending on requirement.

Category of LED Lights	Red	Green
2 NM	10	15

- d) The battery should have a capacity of 8Ah.
- e) The light should have an operating temperature range between -40 to 80°C.

2.3 Physical Characteristics

- a) The body of the light should be manufactured from UV stabilized polycarbonate.
- b) The light lens should be UV stabilized polycarbonate or equivalent.
- c) The light should have a mounting pattern using 4 x 4.5mm mounting holes.
- d) The light should have a height of up to 205mm (8 1/8 inches).
- e) The light should have a width of 177mm (7 inches).
- f) The lens design shall be single LED optic.
- g) The light should have a mass up to 2kg dependent on model.
- h) The light should have a life expectancy of up to 12 years.

2.4 Certifications

The light should be IP68 waterproof.

The manufacturer shall be ISO9001:2008 certified.

The light should meet the following certifications EN61000-6-3:1997, EN61000-6-1:1997.

The light should meet IALA recommendation E-200-1 Signal colors.

2.6. 2 NM SEALITE SL-60 or Equivalent Solar Marine Light System

1.	Type	Rugged, light weight, waterproof, compact, impact resistant, Omni directional, marine flashing beacon of high performance moulded lens cover UV stabilized.
2.	Range	>2 NM at 0.74 ATF
3.	Light source	High intensity LEDs with 100,000 hrs. of life
4.	Uniformity of output	Horizontal plane 360 degrees
5.	Vertical divergence	>7° at 50% of peak intensity
6.	Signal colour	Red/Green meeting IALA standards
7.	Autonomy	>20 days (14 hour darkness, 12.5% duty cycle)
8.	Flasher	Microprocessor Controlled, Programmable
9.	Day light control	On/Off preferably Photo diode control
10.	Battery type	High grade Nickel Metal Hydride (NiMH) with capacity of 8 Ah and should have a nominal voltage of 3.6v.
11.	Battery life expectancy	Battery Life should be 5 years with a replacement warranty of one (1) year.
12.	Solar panel	Multi crystalline solar module integrated with lantern with a output of 1.4 watts