



स्वत्वधारित वस्तु प्रमाणपत्र
PROPRIETARY ARTICLE CERTIFICATE (PAC)
 (Refer Para 4.6.1)



Ref.: No

Date: 02.11.20

Division: Forest Ecology & Climate Change Section/Branch/Lab: Ecology and Environment Management

File No.:		Date:
1. Item Name:	LI-6800P Portable Photosynthesis System- A Complete Gas Exchange System	Qty :01
2. Estimated Cost of above Quantity:	Rs.41,64,500	
3. Budget Head/Sub-Head:	Budget Sub-Head: Non Recurring Bank Account No (EAP) - 496902010089856	
4. Maker's Name & Address	LICOR INC. 4421 SUPERIOR STREET, LINCOLN NE 68504 USA.	
5. Name(s) of authorized dealer/ stockists:	ELRON INSTRUMENT CO. PVT. LTD. 301 SKYLINE HOUSE, 85 NEHRU PLACE, NEW DELHI - 110019 Phone: (011) 26439006, 26469613 Fax: (011) 26469613 Email: info@elroninstrument.com; elronindia@gmail.com	
6. I approve the above purchase on PAC basis and certify that:- (Note: Tick to retain only one out of (b), (c-1) OR (c-2) whichever is applicable and cross out others. Please do confirm (a) by ticking it - without which PAC certificate will be invalid.)		
6(a)	This is only firm who is manufacturing/stocking this item. AND	✓
6(b)	A similar article is not manufactured/sold by any other firm, which could be used in lieu OR	✓
6(c-1)	No other make/brand will be suitable for following tangible reasons (like OEM/warranty spares): OR	
6(c-2)	No other make/brand will be suitable for following tangible reasons (if PAC was also given in the last procurement cycle, please also bring out efforts made since than to locate more sources): OR	
7. Reference of concurrence of finance wing to the proposal		

History of PAC purchases of this item for past three years may be given below: NA			
Name of Supplier:			
Order/Tender Reference & Date	Qty. Ordered	Basic Rate on Order (Rs.)	Adverse Performance Reported, if any

Signature:

Indenter's Name: Designation: TARA CHAMI Div./Sec.: FERCCDIV, S.C.D.	Head of Division: N. Balg Designation: Secy. G.	Director FRI Seal [Approving Authority]
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Encl.: 1. PAC from the OEM/Authorized dealer
2. Proforma Invoice



ELRON INSTRUMENT COMPANY PRIVATE LIMITED

301, SKYLINE HOUSE 85, NEHRU PLACE, NEW DELHI-110019 INDIA
 PHONE : (011) 26439006, 26469613, FAX : 91-11-26469613
 E-mail: elronindia@gmail.com , info@elroninstrument.com
 Web : www.elroninstrument.com
 CIN No : U74899 DL1985PTC022500
GSTIN : 07AAACE3085A1Z5

Our Ref: EPL/072(Rev)/20-21
 Dated : October 7, 2020

The Head
 Division of Forest Ecology & Climate Change
 Forest Research Institute
 Dehradun- 248 006

PROFORMA INVOICE
 LI-COR INC
 4647 SUPERIOR STREET
 LINCOLN, NE 6850,USA.

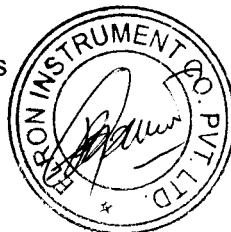
Sub: Purchase of Portable Photosynthesis System
 Ref : Your Email

PART NO.	DESCRIPTION	QTY	AMOUNT US\$
LI-6800P	Portable Photosynthesis System A Complete Gas Exchange System . This package is ideal for basic lab or survey measurements with natural or controlled light. The system includes : <ul style="list-style-type: none"> ➤ LI-6860 Console , LI-6850 Sensor head and 9968-092 cable assembly. ➤ 6800-02 3x3 cm Light Source ➤ 6800-12A Clear Leaf Chamber with 3x3,2x3,1x3Cm inserts ➤ Tripod and panhead mount ➤ Carrying Harness for LI-6800 ➤ Lithium ion Batteries – 3Nos. ➤ Accessories Case ➤ Instrument Case ➤ 24V DC output , Capable of charging 2 batteries in the console) Single –bay battery Charger ➤ Silica Gel -2 Packs ➤ Sodalime -2 Bottles and ➤ Pall Stuttgarter Masse for gas conditioning ➤ 8 Gram CO2 Cartridges (3 boxes of25) ➤ System Spare Kit 	1	US\$ 54,800.00
TOTAL EX-WORKS PRICE			US \$54,800.00
Less 10% Special Discount			\$ 5,480.00
NET EX-WORKS PRICES			\$ 49,320.00
Documentation Charges			650.00
CIP Charges to NEW DELHI Int'l Airport			625.00
TOTAL CIP NEW DELHI INT'L AIRPORT			US \$ 50,595.00

NOTE : The prices quoted does not include custom duty, custom clearance and delivery charges. You will have to make your own arrangements to get the consignment cleared through customs at your own cost and responsibility.

Approx. IN INR (1US\$=INR 73.50)
 Custom Duty@5.5%
 Custom clearance and delivery charges

Rs. 37,18,000.00
 Rs. 2,04,000.00
 Rs. 40,000.00



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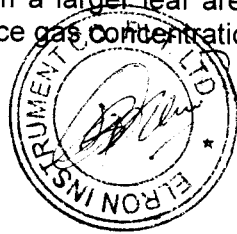
SALIENT FEATURES OF LI-6800F PORTABLE PHOTOSYNTHESIS SYSTEM

LI-6800 Portable Photosynthesis System is a user-friendly instrument with so many unique features which makes photosynthesis measurement an ultimate experience for the user, Mounting the analyzers in the sensor head provides a number of advantages over systems which place the analyzers in the console. Some of the highlighted features are mentioned below:

- ❖ Guides you to better measurement with a large touchscreen display.
- ❖ Displays informative, full color plots – so you can track the progress of each measurement.
- ❖ On-screen messages alert you to issues with the measurement and control ranges – so you can collect consistent, high quality data.
- ❖ Automated System tests to ensure that the instrument is performing at its best.
- ❖ Capable of survey measurements in less than one minute with batteries that can last all day.
- ❖ Achieves an ideal balance of light weight and high performance.
- ❖ User-cleanable optics and simple maintenance procedure minimizes downtime and maintenance cost. No other manufacturer provides user cleanable optics.
- ❖ Rugged and dependable, the LI-6800 is ready to collect data wherever your research takes you.

UNIQUE FEATURES to PROVIDE YOU BEST PERFORMANCE:

- ❖ **Gas Analysis:** Gas analysers- the core of any gas exchange system – precisely measures CO₂ and H₂O in sample and reference air streams. The small-volume analysers are located adjacent to the leaf chamber to provide remarkable speed and precision. High-speed temperature measurements of air as it enters the gas analyzers improve the precision of each measurement. Typical CO₂ noise is $\leq 0.1 \mu\text{mol mol}^{-1}$ RMS at 400 $\mu\text{mol mol}^{-1}$ with 4-second signal averaging.
- ❖ **High-Speed Mixing Fan:** The leaf chamber mixing fan reduces the leaf boundary layer thickness to minimize boundary layer resistance, which closely couples the leaf and chamber conditions. This provides greater certainty in stomatal conductance calculations and fast plant response to changing chamber conditions.
- ❖ **Large Leaf Chamber Aperture:** A large leaf chamber aperture means you can measure photosynthesis from a larger leaf area. This provides a bigger difference between sample and reference gas concentrations, higher signal-to-noise ratios, and





ELRON INSTRUMENT COMPANY PRIVATE LIMITED

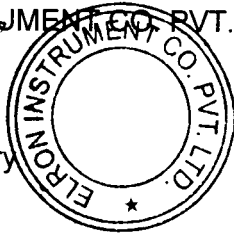
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Web : www.elroninstrument.com
CIN No : U74899 DL1985PTC022500
GSTIN : 07AAACE3085A1Z5

- ❖ more precise assimilation measurements. The improved chambers can measure upto 9 cm² using standard leaf chambers in LI-6800F portable photosynthesis System in, and for fluorescence the leaf area covered is 6 cm².
- ❖ **Low-Diffusion Materials and Coatings:** Leaf-level gas exchange measurements are represented by the difference in CO₂ between two gas streams, but diffusion leaks can lead to differences that are not a result of a leaf. Carefully tested materials and coatings, combined with a patented air stream split and valves, minimize diffusion leaks, meaning that gas exchange measurements are more precise and repeatable.

Please note that no other manufacturer in the world is providing the Analyzers(IRGAS) in the Sensor Head. All other manufacturer is using more than 15 years old technology of IRGAS in the CONSOLE which is about 1.5 meters away.

For ELRON INSTRUMENT CO. PVT. LTD.

Authorized Signatory





Biosciences

LI-COR, inc.
4421 Superior Street
Lincoln, NE 68504 USA

Phone: 402-467-3576
Fax: 402-467-2819
Toll Free U.S. & Canada: 800-447-3576
www.licor.com
envsales@licor.com

PROPRIETARY CERTIFICATE

This is to certify and confirm that
LI-6800 Portable Photosynthesis System
with its unique design of
4 IRGAS (2 for CO₂ & 2 for H₂O) in the Sensor Head
is proprietary to and is exclusively manufactured by

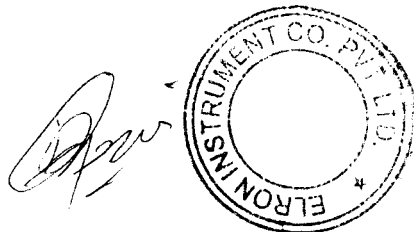
LICOR INC.
4421 SUPERIOR STREET, LINCOLN NE 68504 USA.

**LI-6800 Portable Photosynthesis System is covered under following
patents: 8,610,072; 8,692,202; 8,910,506; 9,482,653; 9,678,050;
5,332,901; 5,457,320**

No other manufacturer can supply the instrument with
specifications and salient features
available in LI-6800 portable Photosynthesis System.

Signed,

BRENT B. CLAASSEN
Director of International Sales
LI-COR, Inc.
10 June 2020



CERTIFICATE OF REPRESENTATION

This is to certify that

ELRON INSTRUMENT COMPANY. PVT. LTD.,

301 Skyline House

85 Nehru Place

New Delhi 110019

INDIA

Is the exclusive representative of LI-COR Environmental products

In the country of India.

They are duly authorized to act on our behalf for equipment recommendation
Submit quotations and to sell and service LI-COR Environmental instruments.

Valid until 31st of December, 2021

Signed,

Brent B. Claassen

Brent Claassen
Director of International Group
LI-COR Biosciences
Environmental Product Line
Phone: 402-467-0621
brent.claassen@licor.com

31st May, 2020

