

*Invitation for
Expression of Interest (EOI)*

**Fix the Rate Contract Price for Solar Insect
Trapper**



S.No.	Description	Date
1	Issue of Expression of Interest (EOI)	01.07.2021
2	Due Date for submission	16.07.2021 before 03:00 PM

**NEW AND RENEWABLE ENERGY DEVELOPMENT CORPORATION OF A.P Ltd
(NREDCAP)**

**Regd Office: 12-464/5/1, River Oaks Apartments,
CSR Kalyana Mandapam Road, Tadepalli,
Guntur District- 522 501
TEL: 0863-2347650/51/52/53
Website: www.nredcap.in**

1. INTRODUCTION:

The state of Andhra Pradesh is largely dependent on agriculture with about 108.43 Lakh hectares being used for agriculture. The major crops grown here include paddy, sugarcane, oilseeds, vegetables, beans, and pulses (edible seeds from crops such as peas, lentils, and beans). Agriculture plays a vital role in the economy of the state.

During cultivation, major problem that farmers face is eradication of pests, which seriously destroy crops. There are many preventions and exterminations of pest problems, such as mechanical method, physical method, biological method, and chemical method. Using pesticides and chemical method directly effects on agriculturists and consumers, for example, pests are chemical resistant which leads farmers using more and more pesticides. This causes plant residue which is dangerous for consumers, and also effects on environment and ecology.

At present, the consumers emphasize on safe and non-chemical food. The producers should be aware of this matter and reduce pesticide to decrease health problems of farmer's and consumer's by creating non-chemical and pesticide measures. Moreover, agriculturalists has tried to find other ways instead of chemical used such as using lights to tempt pests which is popular way for farmers. However, that way is still lack of electric energy for bulbs because the farming location is far away, and trap is also expensive. From this point, the researcher has developed **Solar Energy Based Insect Pest Trap** for all crops.

2. OBJECTIVE OF SOLAR BASED INSECT TRAPPER:

Solar LED Light trap is a renewable energy based electro mechanical device that helps the farmer to reduce the usage of pesticide spray by capturing economically impacting adult insect pests towards very special spectrum of light wavelength. It works based on electronically programmable controller to segregate beneficial and non-beneficial Insects sociological behavior. The device gets charged in day time using sunlight and automatically switches on at dawn and dusk to trap harmful insects.

As per the report of Acharya N.G Ranga Agriculture University, Guntur, data reveal that Solar Insect light traps attracts the insect pests and relatively safer to natural enemies as the number of natural enemies such as ladybird beetles was negligible in solar insect light trap collection.

3. APPLICATIONS:

It can widely use for agriculture farm, organic farm, forestry, vegetable store room, outdoor and indoor garden, orchard, tea estate, storage, urban greening, aquaculture backyard, etc.,

4. USES:

Helps to catch all the Flying Nymphs and Adult insects like leaf folder, Stem borer moths, Fruit borer moths, Hoppers, Fruit Weevil and Beetles etc., thereby reduce adult population and subsequent progenies in the fields. Helps to identify the Pest and Insects pattern to develop Pest Management and control plan. Helps distinguishing and controlling pest and insects damaging the crop and enabling pollination to improve the productivity. Produced output has less chemical impact which makes people healthy and protects eco system. Portable across the crop area without any changes. No Major mounting or installation efforts required and easy to operate. Solar Chargeable and Automatic photo Sensor Turn ON by sunset and Turn Off after 4 hours continuous operation. No Electricity and Manpower required operating the device Economical and helps reduction of chemical pest management cost. Eco friendly Pest and Insects Control device.

5. SCOPE OF WORK:

As per huge advantages with the Solar Insect Trapper to the farmers and also environmental friendly, NREDCAP, Tadepalli has decided to supply the Solar Insect Trappers to farmers by fixing the rate contract price which are not covered under any subsidized Solar Programme to take up implementation as per the requirement of the beneficiaries / beneficiary organizations in the State of Andhra Pradesh.

The Solar gadgets with detailed technical specifications are proposed to obtain financial offer from the **registered off-grid solar suppliers / manufacturers with NREDCAP** to fix the Rate Contract Price which includes all taxes as per GST Act, installation charges and transportations charges on turnkey basis with **two** years warranty from the date of supply for implementation.

The components involved in the above Solar equipment such as SPV Module, UV-LED Luminaires, Lithium Ferro Phosphate (LiFePO₄) Battery Banks and other clamps.

The Financial Offer shall be realistic and workable and also the supplier has to **supply 3 numbers of sample Solar Insect Trappers at the time of submission of Expression of Interest.**

The supplier / manufacturer shall have 3 years of experience in supply of solar off-grid systems (Copies of work orders and completion certificates shall be enclosed) and minimum cumulative turnover of Rs. 50.00 Lakhs during the last 3 financial years (Copy of certificate issued by CA shall be enclosed).

The suppliers have not been blacklisted at any time by NREDCAP as well as any other Government Nodal Agencies in the country.

Interested applicants fulfilling the eligibility criteria shall submit their **sealed financial quotations in the formats enclosed on or before 03.00 PM on 16.07.2021 along with an Earnest Money Deposit (EMD) of Rs. 25,000/- (Rupees Twenty-Five Thousand Only)** in the form of DD/RTGS from any national bank drawn in favor of NREDCAP, which is refundable after finalization of rate contract system. Sealed documents shall be submitted to New and Renewable Energy Development Corporation of A.P Ltd (NREDCAP), 12-464/5/1, River Oaks Apartments, CSR Kalyana Mandapam Road, Tadepalli, Guntur District-522 501.

A performance security of 5.0% of the BASIC value of contract will be withhold as security deposit and will be released after one year from the date of supply of material.

The EOI cover shall contain the superscriptions **“Expression of Interest (EOI) for fixing the Rate Contract for Solar Insect Trapper to be supplied in the state of Andhra Pradesh”**

Sd/-

VC & Managing Director

TERMS AND CONDITIONS

1. The Specifications of the proposed LED based Solar Insect Trapper mentioned in the enclosed Annexure 'A'
2. The rates quoted in the financial offer (Annexure - A1) shall inclusive of all taxes as per GST Act.
3. The rates quoted in the financial offer (Annexure - A1) shall inclusive of Installation and transportation charges.
4. These rate contract prices are applicable from 01 to 100 Nos of various Solar Gadgets.
5. The transportation charges anywhere in Andhra Pradesh are inclusive of the rate contract price.
6. The filled in document together with all enclosures shall be submitted in a sealed cover super scribing **“Financial offer to fix the Rate Contract Price For Solar Insect Trapper Under Solar Applications”**.
7. Good quality components should be supplied. In case if it is found that materials are not good, such components are to be replaced at free of cost.
8. All the Systems including Battery should be under guarantee / warranty for a period of **Two years** from the date of commissioning against all defects.
9. After completion, the supplier / manufacturer have to submit the Installation certificate containing the details of the components installed.
10. The price quoted in the financial offer is exclusive of NREDCAP Service charges.
11. The Rate Contract Price finalized is valid up to two years from date of awarding the contract and it may extend further on specific approval of the competent authority.
12. The VC & Managing Director may relax any of the conditions for valid reasons and the decision of VC & Managing Director is final and binding.

Sd/-
VC & Managing Director

TECHNICAL SPECIFICATIONS OF SOLAR INSECT TRAPPER

S. No	Name of the Component	Technical Specifications
1	SPV Modular capacity	7.0 Wp
2	Battery Type	LiFePo4
3	Battery voltage	6.4 volts
4	Battery Capacity	6 Ah
5	LED Wattage	5 W (UV LED)
6	Height of the iron rod	5 ft

Name
Designation
Signature
(Supplier / Manufacturer with seal)

FINANCIAL OFFER
FINANCIAL OFFER FOR SUPPLY OF SOLAR INSECT TRAPPER

Sl.No.	Name of the Item	Unit Rate (Rs)
01	<p>Supply of Solar Insect Trapper with the following components as per specifications mentioned in Annexure-A including Transportation charges upto destination within the State of Andhra Pradesh.</p> <ul style="list-style-type: none">i) 7.00 Wp SPV Moduleii) 5W UV LED based luminaireiii) Lithium-Ferro Phosphate (LiFePO4) Battery Type with 6.4 volts and 6 Ahiv) Iron rod: 5 feet heightv) Water Basin TUB: 1 Novi) Other Electrical, Electronic items and other clamps for fixation of equipment <p><u>Warranty:</u></p> <ul style="list-style-type: none">i. The Solar Insect Trapper (including the battery) will be warranted for a period of two years from the date of supply.ii. The PV Module(s) will be warranted for a minimum period of 25 years from the date of supply.	
02	GST @5% on item no: 01	
03	Total – (01+02)	

Name
Designation
Signature
(Supplier / Manufacturer with seal)