

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

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**TENDER DOCUMENT**

**NEW AND RENEWABLE ENERGY DEVELOPMENT CORPORATION OF AP LTD  
(NREDCAP)**

Inviting bids for

**SUPPLY, INSTALLATION, TESTING, COMMISSIONING OF VARIOUS WORKING  
MODEL GADGETS/POSTERS/PROTOTYPES OF RENEWABLE ENERGIES FOR  
DEMONSTRATION UNDER RENEWABLE ENERGY RESOURCE CENTER  
PROJECT**

**AT**

**REGIONAL SCIENCE CENTRE, BHAVANIPURAM, VIJAYAWADA**

**(Ref :NREDCAP/SE/RERC/2022-23 DATED:10.11.2022)**

NAME OF THE FIRM:\_\_\_\_\_

Issued by

New and Renewable Energy Development of AP Ltd,  
Regd.Office: 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli,  
Guntur District  
Tel: 0863 -2347650 /651/652/653;  
E-mail:gmtech@nredcap.in

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

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**DISCLAIMER**

1. The Tender Bid document is not transferable.
2. This Bid document is issued by New & Renewable Energy Development Corporation of AP Ltd(NREDCAP).
3. The Bid document is not a prospectus or offer on invitation to the public in relation to the sale of shares, debentures or securities, nor shall this bid document or any part of it form the basis of or be relied upon in any way in connection with, any contract relating to any shares, debentures or securities.
4. In considering an investment, if any, in the proposed Project, each recipient should make its own independent assessment and seek its own professional, technical, financial and legal advice.
5. Whilst the information in this Bid document has been prepared in good faith, it is not and does not purport to be comprehensive or to have been independently verified. Neither NREDCAP nor any of their officers or employees, nor any of their advisers nor consultants, accept any liability or responsibility for the accuracy, reasonableness or completeness of, or for any errors, omissions or misstatements, negligent or otherwise, relating to the proposed Project, or makes any representation or warranty, express or implied, with respect to the information contained in this document or on which this document is based or with respect to any written or oral information made or to be made available to any of the recipients or their professional advisers and, so far as permitted by law and except in the case of fraudulent misrepresentation by the party concerned, and liability therefore is hereby expressly disclaimed.
6. The information contained in this document is selective and is subject to updating, expansion, revision and amendment issued before due date. It does not, and does not purport to, contain all the information that a recipient may require. Neither NREDCAP nor any of their officers, employees nor any of its advisors nor consultants undertakes to provide any recipient with access to any additional information or to update the information in this document or to correct any inaccuracies therein which may become apparent. Each recipient must conduct its own analysis of the information contained in this document or to correct any inaccuracies therein that may contained in this document and is advised to carry out its own investigation into the proposed Project, the legislative and regulatory regime which applies there to and by and all matters pertinent to the proposed Project and to seek its own professional advice on the legal, financial, regulatory and taxation consequences of entering into any agreement or arrangement relating to the proposed Project.
7. This bid document, if includes certain statements, estimates, projections, designs, targets and forecasts with respect to the Project, such statements, estimates, projections, targets and forecasts, designs reflect various assumptions made by the management, officers and employees of NREDCAP, which assumptions (and the base information on which they are made) may or may not prove to be correct. No representation or warranty is given as to the reasonableness of forecasts or the assumptions on which they may be based and nothing in this document is, or should be relied on as a promise, representation or warranty.
8. NREDCAP reserves the right to modify, amend or supplement or cancel this Tender document, without any prior notice or without assigning any reason.

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**Authorised Person:** The VC & Managing Director, NREDCAP

**Address:** 12-464/5/1, River Oaks Apartment,

CSR Kalyana Mandapam road,

Tadepalli,

Guntur District

**Tel:** 0863 -2347650 /651/652/653

**Email:** gmtech@nredcap.in

**Place:** Tadepalli

**Date :**10.11.2022

**Sd/-  
VC & MANAGING DIRECTOR**

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

Sl. No	Description	
1	Department Name	New & Renewable Energy Development Corporation of AP Ltd ( NREDCAP)
2	Office	The VC & Managing Director, NREDCAP
3	Tender Number	NREDCAP/SE/RERC/2022-23 dated:10.11.2022
4	Tender Subject	Supply, Installation, Testing, Commissioning of various working products of Renewable Energies for demonstration under Renewable Energy Resource Centers Project at Regional Science Centre, Bhavanipuram, Vijayawada
5	Tender Type	Open tender
6	Tender Category	Competitive bidding procurement from the suppliers who are having similar experience in the above mentioned subject
7	Tender Validity Period	90 Days from the Bid deadline date
8	Bid Security/EMD	<p>As specified in the Bid document as per the prescribed Format, proposals would need to be accompanied by a Bid Security in Indian Rupees for an amount of <b>Rs.1,00,000</b> and valid <b>upto 30.04.2023</b></p> <p>The bid security shall be kept valid throughout the proposal validity Period including any extensions in the proposal validity period and would be required to be further extended if so required by NREDCAP.</p> <p>Any extension of the validity of the Bid Security as requested by NREDCAP shall be provided by the agency a minimum of seven calendar days prior to the expiry of the validity of the Bid Security, being extended.</p>
9	Bid Security/EMD payable to	Vice-Chairman & Managing Director, NREDCAP, Tadepalli

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10	Bid Processing Fee	Bid Processing Fee: The Tenderer shall pay an amount of <b>INR 25,000 plus GST 18%</b> (or as in force) by way of Demand Draft in favour of NREDCAP, payable at Tadepalli. The original DD shall be furnished along with the tender document to NREDCAP.
11	Bid Document Download Start Date	<b>10.11.2022 from 17.00 Hours</b>
12	Bid Document Download End Date	<b>17.10.2022 up to 17.00 Hours</b>
13	End date for submission of hard copies of Technical bid (scanned) with supporting documents	<b>18.10.2022 before 15.00 Hours</b>
14	Technical Bid Opening Date	<b>21.11.2022 at 11:00 Hours</b>
15	Commercial Stage Opening Date	<b>22.11.2022 at 11:00 Hours</b>
16	Place of Tender Opening	12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli, Guntur District, Andhra Pradesh – 522 501.
17	Contact officer	The VC & Managing Director, NREDCAP, Tadepalli
18	Address/E-mail id	gmtech@nredcap.in
19	Contact Details/Telephone,	Telephone – 0863 -2347650 /651/652/653
20	Rights reserved with the department	Authorized Representative reserves the right to Accept or reject any or all of the tenders received without assigning any reasons thereof.
21	General Terms and Conditions	As per the Bid Documents.

## **CHAPTER-I**

### **1 Introduction and Background**

#### **1.1 Introduction**

- 1.1.1 NREDCAP invites competitive Bids for Supply, Installation, Testing, Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for demonstration under Renewable Energy Resource Center Project at Regional Science Centre, Bhavanipuram, Vijayawada
- 1.1.2 This Renewable Energy Resource Centre offers learning opportunities for students of all ages. From the basics of what "renewable energy" means, all the way up to learning the intricacies of how the technologies work. The students will expose various gadgets of Renewable Energy and its functionality on real time basis. Students or general public will gain hands on experiment on some of the displayed gadgets in this center.
- 1.1.3 Energy is an inevitable requirement where we want development to take place. All these power generation techniques can be described as renewable since they are not depleting any resources to create the energy. Renewable sources of energy are the ones which can be generated continuously in nature and are inexhaustible.

#### **1.2 BROAD SCOPE OFWORK:**

The following list of products to supply, installation, testing and commissioning of various Renewable Energy Gadgets with full presentable setup with complete product information displays and interactive kiosks with all products information along with imparting training for O&M as well as training for the resource persons who are going to explain the visitor of the Renewable Energy Resource Center.

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**PROPOSED LIST OF PRODUCTS FOR DEMONSTRATION**

S/N	Item description	Broad Tech Specs
1	Interactive Kiosks - 2 nos	Display : 32 Inch LED with Multi Touch Touchscreen CPU : Android Box 2gb ram   16Gb storage   WiFi   android 11.1 with all necessary software and hardware
2	Solar Water Heater	100LPD, Number of Collector -1, Inner Tank SS 304L, PUF Insulation, Min Space Required (NSxEW)m: 2.6x1.2 –ETC Model
3	Parabolic Solar Cooker	Solar Parabolic Cooker 1.4, Reflector diameter 1.4m
4	Solar Dryer	Wet products loading capacity at 5- 8 Kg per square metre. Non corrosive Aluminium cabinet coated with high temperature powder coating and stainless steel and brass hardware, stainless steel (SS 304) closed trays and all other necessary accessories
5	Solar Street Lights with Camera	Integrated All In One Street Light, 15W LED+75W Solar Panel+12.8V/30Ah-42Ah Li-FePO4 battery+MPPT Charge controller+WiFi CCTV
6	Solar Lantern	2- 3 Watt LED, 3- 5 Watt Solar Panel, Backup of upto 200 Hours on low mode, 42 Hours in Medium mode, and 17 Hours on Normal mode, with a full charge.
7	Solar Tree	Three branches each 100Wp Solar Module, PCU:12V/800VA, 150Ah Tall Tubular Battery with all necessary accessories.
8	Solar Traffic Light	Luminary 12W, Battery 12V/DC 18Ah, IP66 rating, Autonomy 3 days, View Distance 500m, Working Hrs: 24, Poly Carbonate material
9	Solar Flash / LED Torch Light	Lithium Battery 3.6V/ 40mAh, 1 LED, Backup: 5-6 hrs,
10	Solar Backpack	Bag size: 3 ft x 1ft x 0.75 ft, Solar Panel: 6W, USB Port: 1, Battery 4400mAh, Charging time: 4-6 hrs
11	Solar Sprayer	Power - 12 V / 8 AH, Tank Capacity - 16 Liter Solar Panel - 15W, Lance - Extendable Stainless-Steel Lance, NOZZLE - 4 Nozzle Set, Trigger cut off - Plastic Tank Material - Plastic
12	Battery cycle (e-cycle)	Frame size: 18", Al material, Wheel Size: 27.5 inches, Wattage: 250W

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13	Solar Power Bank	Connectors Micro USB & Type - C & Lightning, Output Power 5V/2A, Input Power 5V/2A, Color Black, LED Indicator Yes, Charging Time Upto 20h Display Yes
14	Solar Garden Lighting	Warm white LEDs, 1.2v 600mAh AA size battery, Waterproof Design- IP 44, Rugged ABS plastic Brightness: 5 lumens Charging time: 6-8 hours Working time: 7-8 hours
15	Solar Home Lighting System	45W Li-ion Emergency Solar Lighting System Fan, with 1 Bulb and Mobile Charger/DC Connection Port (White)
16	Different types of Solar Panels	1W, 3W, 5W, 10W, 75W & 100W to 550W
17	Motion Sensor Solar Lights	Bright Outdoor Security Lights with Motion Sensor Solar Powered Wireless Waterproof Night Spotlight for Outdoor/Garden Wall, Solar Lights for Home (20 Led), 0.55kw solar panel and backed by 1200w, 3.7v lithium ion battery for a longer life.
18	Solar Mosquito Repellent	Powered LED Light Lighting Mosquito Repellent Pest Bug Zapper Insect Killer Lamp Garden Outdoor
19	Solar Road Studs	Aluminium Solar Road Stud Red 135 * 105 * 26mm
20	Small Wind Turbine	UE6 <sup>3</sup> /24V – 650w rated / 750w peak, Wind Electric Generator with wind Charge Controller, surge suppressor, switchgear, dump load, all necessary accessories
21	Bio Gas Plant	Biotech India Nano Bio Gas Plant(Nano bio-160) - For Experiments/Research/Demonstration Purpose only.
22	Wave Energy	Proto Type
23	Tidal Energy	Proto Type
24	Pumped Hydro Storage Power System	Proto Type
25	Electric Stoves	1800-Watt Induction Cooktop, Power Input: 220 V and Power Consumption: 1800-Watt, Induction Stove comes with 93-percent energy saving technology
26	e-mobility	Video of 2 Wheeler, 3Wheeler, 4Wheeler and Charging Infrastructure, Swapping Stations.
27	Jindal MSW Proto type	Proto Type
28	Green Hydrogen Model	Poster Display



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**CHAPTER-2**

**Bid information and instructions to Bidders:**

**2.1 Obtaining the Bid document:**

2.1.1 All those interested in the Bid document can download the Bid document from the website [www.nredcap.in](http://www.nredcap.in). All information related to submission of response to this Bid document and the Bid shall be available at the aforementioned website.

2.1.2 Notwithstanding anything to the contrary contained in this Bid document, the authorized Representative shall open the Technical Bid of the Bidder, only upon receipt of the above non-refundable processing fee on or before the Bid Deadline.

The Authorized Representative reserves the right to change the above Bid process timelines. However, the Authorized Representative shall notify prospective Bidders through email/notification on website regarding changes to the above timelines

**2.2 Qualification Requirements**

Evaluation of Bids will be based on meeting the financial and technical qualification requirements. Any Bidder who meets the Qualification Requirements stated herein shall be “Qualified Bidder” for the purpose of evaluation under this Bid document.

**2.2.1 Eligibility criteria:**

**(i) BIDDER:**

The Bidder should be a Public limited company or Private limited company. The company /companies should be registered in India. The company shall be in the field of similar line of activity for at least 3 years along with solar training and consulting services.

(ii) The Company cumulative annual turnover of at least INR 1 crore during the last three (3) financial years ending with March 2022 duly certified by the Chartered Accountant/ Audited Accounts.

(iii) The applicant should have adequate technical expertise in this area of business.

(iv) The company should not have been black listed/debarred/disqualified by any Govt. Entity or any International Agency for non- delivery or noncompliance or corrupt/fraudulent practices. The company should give self-declaration to this effect and the onus will be on the applicant.

**2.3 Bid Preparation cost**

The Bidder shall be responsible for all the costs associated with the preparation of Bid and participation in discussions and attending pre-bid meeting(s), etc. authorized Representative shall not be responsible in any way for such costs, regardless of the

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conduct or outcome of the bid process.

**2.4 Bidders' Responsibilities:**

The Bidder is expected to examine carefully, the contents of all the documents provided. Failure to comply with the requirements of bid document will be at the Bidders' own risk. It would be deemed that prior to the submission of the Proposal, the Bidder has:

- (i) Made a complete and careful examination of the various aspects of the Project including but not limited to:
  - a) The Project site
  - b) Existing facilities and structures
  - c) Conditions affecting transportation, access, disposal, handling and storage of the materials
  - d) All other matters that might affect the Bidder's performance under the terms of this document.
  - e) NREDCAP shall not be liable for any mistake or error or neglect by the bidder in respect of the above.
  - f) Each Bidder shall submit only one Proposal. Submission of more than one Proposal by any Bidder shall be sufficient grounds for disqualification of the Bidder. In case, any entity is part of more than one Bidder (either a sole Bidder or a Consortium), shall lead to disqualification of all the Bidders in which such an entity is participating.

**2.5 Amendment of Tender**

NREDCAP may modify the bid document by issuing an Addendum before Proposal Due Date.

Any Addendum thus issued shall be part of the bid document and will be published in NREDCAP website [www.nredcap.in](http://www.nredcap.in).

To give prospective Bidders reasonable time in which to take Addendum into account in preparing their bids, NREDCAP may, at its sole discretion, extend the Proposal Due Date.

Authorized Representative reserves the right to reject any or all of Bids or cancel the Bid process without assigning any reasons whatsoever and without any liability.

**2.6 Details of Financial Bid**

Bidder shall submit their Financial Bid as per Format of this Bid document.

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The bidders shall quote in their proposals a firm lump sum price for the entire scope of supplying and erecting the equipment (covered under the Technical Specification) including maintenance period.

The above lump sum price shall be as on the date of opening of the bid and shall include all taxes and duties like GST and any other taxes/duties, works contract tax, Income Tax, surcharge on Income Tax and other corporate taxes. However, the taxes, duties etc., shall also be indicated.

## **2.7 Earnest Money Deposit (EMD)**

Earnest Money Deposit (EMD): Proposals would need to be accompanied by a Bid security in Indian Rupees for an amount of **Rs.1,00,000 by way of Demand Draft or Bank guarantee and valid for a period up to 30.04.2023**. The bid security shall be kept valid throughout the Proposal Validity Period including any extensions in the Proposal Validity Period and would be required to be extended and further extended if so required by NREDCAP.

Any extension of the validity of the Bid Security as requested by NREDCAP shall be provided a minimum of seven calendar days prior to the expiry of the validity of the Bid Security, being extended. When an extension of the Bid Validity Period is requested, Bidders shall not be permitted to change the terms and conditions of their Bids. NREDCAP reserves the right to reject the Proposal submitted by any Bidder who fails to extend the validity of the Bid Security in line with the provisions of this clause.

The Bid Security shall be in the following form:

A DD/ irrevocable Bank Guarantee issued by a Bank in favour of the Vice- Chairman & Managing Director, NREDCAP, as per the format attached. For the purpose of providing Bid Security, the “Bank” shall mean

- (i) Any Nationalized Bank.
- (ii) Any scheduled Commercial Bank.
- (iii) The Bank Guarantee issued by a Cooperative Bank shall not be accepted.

## **2.8 Forfeiture of Bid Security:**

- (i) The EMD shall be forfeited, if
  - i. Bidder withdraws the bid before expiry of its validity.
  - ii. Successful bidder does not accept the order/LOI or fails to enter into a contract agreement within the specified period.
  - iii. Successful bidder fails to furnish Contract performance security within 30 days, or within the period specified, from the date of issue of P.O/LOI.

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- iv. The offer is disqualified for the reasons stated in the bid documents, for example, where the EMD is super-scribed on the tender cover as if it was furnished, but not found within or found insufficient, etc.
- (ii) EMD of the Successful Bidder shall be returned within ten (10) days of receipt of Performance Guarantee.
- (iii) EMD of all Bidders who don't qualify for opening of Financial Bids i.e. who are declared as non-responsive as applicable will be returned within ten (10) days of opening of Financial Bid.
- (iv) The Successful Bidder at the time of issuing of LOI is precluded from withdrawing from the bid process. The Authorized Representative shall forfeit the EMD in the event of such withdrawal.

**2.9 Bid Validity period and Extension of Proposal Validity period**

The Bidder shall submit its Bid in response to Bid document which shall remain valid up to ninety (90) days from the Bid Deadline ("Bid Validity"). Authorized Representative reserves the right to reject Bid which does not meet the aforementioned validity requirement.

In exceptional circumstances, prior to expiry of the original Proposal Validity Period, NREDCAP may request the Bidders to extend the period of validity for a specified additional period. The request and the Bidders' responses shall be made in writing. NREDCAP reserves the right to reject the Proposal submitted by any Bidder who fails to extend the period of validity of its Proposal in line with the provisions of this clause.

The Bid Validity Period of the Successful Bidder shall be automatically extended till the date on which the Agreement is signed and is in force.

The Bidder shall furnish the Bank Guarantee from any Nationalized/Scheduled Commercial Bank to authorized Representative of NREDCAP as applicable.

The format of the Bank Guarantees prescribed shall be strictly adhered to and any deviation from the above formats may result in rejection of the EMD/PBG and consequently, the Bid.

The Bank Guarantees have to be executed on non-judicial stamp paper of appropriate value as per Stamp Act relevant to the place of execution. The Bank Guarantees have to be in the name of the Bidding Company / Lead Member of Bidding Consortium.

All expenditure towards execution of Bank Guarantees such as stamp duty etc. shall be borne by the Bidders.

Before signing of agreement with the Successful Bidder, authorized Representative will verify the documents furnished by the Bidder at the time of Bid submission and the shareholding of the Project Company along with a copy of complete documentary evidence supported with the original documents. Authorized Representative at this stage

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may also ask the Bidders to furnish the audited balance sheet of the previous month along with complete Bank Statement starting from Bid submission date till date along with a copy of the documents submitted with ROC which became due during this period. If at this stage it is found that the documents furnished by the Bidders are false / misleading or misrepresented in any way then the relevant provisions contained in this Bid document will be applicable.

Before signing of agreement the authorized Representative shall check for fulfillment of all obligations of Successful Bidder specified in this Bid document and authorized Representative shall have the right to forfeit the EMD in case the Successful Bidder does not fulfill any of the obligations.

### **2.10 Submission of Bid by the Bidder**

The Bidder shall send EMD and processing fee in the form of DD/ Bank Guarantee, in original, on or before the Bid Deadline, to the address mentioned below:

**The VC & Managing Director, New & Renewable Energy Development Corporation of AP Ltd., 12-464/5/1, /River Oaks Apartments, CSR Kalyana Mandapam Road,**

The Bidder shall furnish documentary evidence in support of meeting Qualification Requirements set forth in the Bid document to the satisfaction of the authorized Representative.

### **2.11 Important notes and instructions to Bidders**

Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from any deviations and referring to any other document for providing any information required in the prescribed format.

The Bidders shall be evaluated based on the declarations and/or information and/or documents provided by them in relevant schedules of Bid document. The information and/or documents submitted along with the Bid may be verified before signing of agreement.

If the Bidder/ Member in a Bidding Consortium conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its Bid, in any manner whatsoever, authorized Representative reserves the right to reject such Bid and/or cancel the Letter of Intent, if issued and the EMD provided up to that stage shall be encashed. Bidder shall be solely responsible for disqualification based on their declaration in Bid.

If the event specified above is discovered after the Effective Date of the agreement, consequences specified in agreement shall apply.

Bids submitted by the Bidder shall become the property of the authorized Representative

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and the authorized Representative shall have no obligation to return the same to the Bidder. However, the EMDs submitted by unsuccessful bidders shall be returned as specified.

**All pages of the Bid submitted must be initiated by the person authorized by the board, on behalf of the Bidder.**

No change or supplemental information to the Bid will be accepted after the Bid Deadline. The authorized Representative may, at its sole discretion, ask for additional information/document and/or seek clarifications from a Bidder after the Bid Deadline, inter alia, for the purposes of removal of inconsistencies or infirmities in its Bid. However, no change in the substance of the Quoted Tariff shall be sought or permitted by the authorized Representative. Delay in submission of additional information and/or documents sought by the authorized Representative shall make the Bid liable for rejection

All the information should be submitted in English language only.

Bidders shall mention the name of the contact person and complete address of the Bidder in the covering letter.

Bids that are incomplete, which do not substantially meet the requirements prescribed in this Bid document, will be liable for rejection by authorized Representative. Bids not submitted in the specified formats will be liable for rejection by authorized Representative. Non submission and/or submission of incomplete data/ information required under the provisions of Bid document shall not be construed as waiver on the part of authorized Representative of the obligation of the Bidder to furnish the said data/information unless the waiver is in writing.

The Qualified Bidder will be required to continue to maintain compliance with the Qualification Requirements specified in this Bid document throughout the bidding process and till the execution of the agreement. Where the Bidder is relying on affiliate/parent/ultimate parent for qualification, the Bidder shall continue to maintain this financial relationship till the execution of the agreement. Failure to comply with the aforesaid provisions shall make the Bid liable for rejection at any stage.

This Bid document includes statements, which reflect the various assumptions arrived at by the authorized Representative in order to give a reflection of the current status in the Bid document. These assumptions may not be entirely upon by the Bidders in making their own assessments. This Bid document does not purport to contain all the information each Bidder may require and may not be appropriate for all persons. Each Bidder should conduct its own investigations and analysis and should check the accuracy reliability and completeness of the information in this Bid document and obtain independent advice from appropriate sources.

Only Andhra Pradesh Courts shall have exclusive jurisdiction in all matters pertaining to this Bid document.

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**2.12 Bid evaluation methodology and selection**

- A. 1st Step – Technical evaluation
- B. 2st Step – Financial Bid evaluation

**2.12.1 1st Step – Technical Evaluation**

The Bidder shall submit the Original of the same shall be submitted to the Authorized Representative before the Bid Deadline.

The Bidder shall submit processing fee and original documents pertaining to EMD as specified. Bids not accompanied by EMD as per the terms of the tender document shall be summarily rejected and no further evaluation will be carried out in respect of such Bids/Bidders.

The Bid submitted by the Bidder shall be scrutinized to establish technical eligibility as per Qualification Requirements of the tender.

Any of the following conditions shall cause the Bid to be “Non-responsive”:

- i. Non submission of EMD in acceptable form/amount along with the bid.
- ii. Bids not received by the Bid Deadline.

**2.12.2 2nd Step- Financial evaluation**

The price bids of the bidders meeting the technical eligibility criteria will only be opened and considered for evaluation.

The selection of the successful bidder is based the lowest turnkey EPC price quoted.

The lowest tender by itself will not confer any right or will not amount to accept in favour of lowest bidder, as the same is subjected to acceptance by competent authority.

Notwithstanding anything to the contrary contained herein, the authorized Representative, has the right to reject any or all of the Bids, at any stage during the bid process.

**2.13 AWARD OF L.O.I AND OTHER PROCESSES:**

The successful bidder will be awarded with a Letter of Intent (L.O.I) within 30 days from the issue of LOI, the Bidder would be required to enter into the formal Agreement. The Agreement shall be executed between the Bidder and NREDCAP.

The Authorized Representative reserves the right to change the required capacity without assigning any reasons whatsoever.

After completion of selection of the Successful Bidder as per the process outlined above, Letter of Intent will be sent to the Successful Bidder accompanied by the finalized

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Financial Bid clearly indicating the finalized Quoted Tariff for the purposes of the agreement.

The Successful Bidder shall unconditionally accept the LoI, and record on one (1) copy of the LoI, “Accepted Unconditionally”, under the signature of the authorized signatory of the Successful Bidder and return such copy to the Authorized Representative within seven (7) days of issue of LoI.

**2.14 Power to Remove Difficulties**

If any difficulty arises in giving effect to any provision of the Bid document guidelines or interpretation of the Bid document guidelines or there is a requirement to modify the Bid document guidelines for better implementation, the matter may be considered by the authorized Representative for this purpose and its decision will be final.



**CHAPTER-3**

**3.1 TERMS OF PAYMENT**

**A. EPC contract:**

**i) Within the Contractual delivery period:**

- a) 60% of the EPC value will be paid within 1 week on receipt and acceptance of the material in good condition at site and furnishing of Contract Performance Security for 3% value of the EPC value for the specified period;
- b) 37% of the EPC value will be paid within 1 week on successful Erection and Commissioning of the plant and on submission of handing over certificate;
- c) 3% of the EPC value will be paid after one month from the handing over of the plant and on submission of generation report;

**ii) Beyond the contractual delivery period:**

- a) 50% of the EPC value will be paid within 1 week on receipt and acceptance of the material in good condition at site and furnishing of Contract Performance Security for 10% value of the EPC value for the specified period;
- b) 30% of the EPC value will be paid within 1 week on successful Erection and Commissioning of the plant and on submission of handing over certificate;
- c) 20% of the EPC value will be paid after one month from the handing over of the plant and on submission of generation report subject to settlement of liquidated damages and other recoveries to be made;

**B. Operation & Annual Maintenance Charges:**

This will be borne by APCOST

**3.2 Liquidated Damages:**

In case the bidder fails to achieve the successful commissioning of the plant within the due date for completion as indicated in these bid documents, then the Corporation shall levy the liquidated damages on the contractor at the rate of 1% (one percent) of the contract price per week of delay or part thereof subject to a maximum of 10% of total contract price. Liquidated Damages so levied will be recovered from the supply/erection bills of the bidder.

**3.3 Pre-Commissioning Trails and Initial Operations**

The pre-commissioning trails and initial operations of the equipment supplied by the contractor shall be the responsibility of the contractor. The contractor shall provide, in addition, any special instruments/ calibrating devices, etc., if required for the successful performance of these trials.

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

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**3.4 Commissioning Report**

During trial operations all readings shall be jointly maintained and signed by the Contractor, APCOST and NREDCAP. On successful completion of trial operations, a report shall be jointly prepared and signed indicating results of all the tests / checks and trial operation readings.

**3.5 Raising of Invoice /Bills**

After completion of works, the contractor shall raise bills / invoices in triplicate along with the delivery chalanas for arranging release of payment as per the terms of the contract. The bills / invoices shall be certified by the officials of NREDCAP.

**3.6 Handing Over**

Upon successful completion of erection, testing and commissioning in respect of all equipment under the scope of the specification, the Contractor shall handover the project to APCOST Authorities and a handing over certificate duly counter signed by the official of NREDCAP, as a proof of final acceptance of the equipment shall be submitted. Such certificate shall not unreasonably be held up on account of minor omission or defects, which does not affect the commercial operation or do not constitute any serious risk to the equipment. The contractor shall undertake to make good such omissions and defects at the earliest possible time. The estimated amount as decided by the NREDCAP for making good such omissions or defects or deficiency in observed performance over the assessed or guaranteed performance shall be deducted from the invoice of the contractor and the amount deducted shall be paid as soon as the omissions or defects are rectified or made good the financial loss, etc to the satisfaction of NREDCAP. The handing over certificate however shall not relieve the contractor of his obligation which otherwise survive by the terms and conditions of the contract after issuance of such certificate.

**CHAPTER-4**

**FORCE MAJEURE**

**4.1 FORCE MAJURE CONDITIONS**

- i. The suppliers shall not be liable for any delay or failure to supply the materials / equipment for reasons of Force Majeure such as Acts of God, Acts of War, Act of Public Enemy, Natural calamities, Fires, Floods, Frost, Strikes, Lockouts etc. Only those causes which have duration of more than 7 days shall be considered for force majeure.
- ii. The contractor shall within 10 days from the beginning of such delay notify to the Corporation in writing the cause of delay. The corporation shall verify the facts and grant such extension of time as facts justify.
- iii. No price variation shall be allowed during the period of force majeure and liquidated damages would not be levied for this period.
- iv. If the performance in whole or part by the contractor or any obligation under the Contract is prevented or delayed by "Force Majeure" conditions for a period exceeding 60 days, the NREDCAP may at his option terminate the contract by notice in writing.

**4.2 Cancellation of Order:**

NREDCAP reserves the right to cancel the contract in part or in full by giving two weeks notice there by, if

- ✓ The bidder fails to comply with any of the terms of the contract.
- ✓ The bidder becomes bankrupt or goes into liquidation.
- ✓ The bidder make general assignment for the benefit of the creditors and
- ✓ Any Receiver is appointed for the property owned by the contractor.

**4.3 Jurisdiction:**

All and any dispute or difference arising out of or touching the contract shall be decided only by the courts or Tribunals situated in AP. State Jurisdiction.

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

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**FORMATS OF SECURITIES PROFORMA**

**BANK GUARANTEE FOR EARNEST MONEY DEPOSIT**

WHEREAS ..... (Name of the Contractor)  
(here in after called "the Tenderer") has submitted his tender response to NIT  
No..... dated:..... for the work  
“.....”

(Name of work) (hereinafter called "the tender").

KNOWN ALL MEN by these present that we

.....(Name and Address of Bank)..... (hereinafter  
called "the Bank" are bound unto..... /(Vice-Chairman  
&Managing Director, NREDCAP,  
Tadepalli,GunturDistrict)inthesumof\*.....

..... for which payment will and  
truly to be made to the said Department, the Bank binds itself, his successors and assigns by  
these presents. SEALED with the Common Seal of the Bank this  
..... day of.....20.....

THE CONDITIONS of this obligation are:-

- (1) If after Tender opening the tenderer withdraws or modifies his Bid during the period of bid validity specified in the Form of Tender.
- (2) If the Tenderer having been notified of the acceptance of his bid by the Department during the period of validity.
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Tenderers, if required; or
  - (b) fails or refuses to furnish the performance Security in accordance with the instructions of Tenderers.

We undertake to pay to the Department up to the above amount upon receipt of his first written demand, without the Department having to substantiate his demand, provided that in his demand the Department will note the amount claimed by him is due to him owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date\*\*

..... after the dead line for submission of Tenders as such deadline is stated in the Instructions to Tenders or as it may be extended by the Department, notice of which

Extensions to the bank are hereby waived. Any demand in respect of this guarantee should reach the bank not later than the above date.

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

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DATE.....

SIGNATURE OF THE BANK.....

WITNESS.....

SEAL.....

-----  
(Signature, Name and Address)  
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- \* The Tenderer should insert the amount of the EMD in words and figures denominated in Indian Rupee. This figure should be the same as shown in the NIT.
- \*\* The Bank guarantee shall be valid upto 30.04.2023 with claim period of one month thereafter.

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

**Format for Performance Bank Guarantee**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.)**

In consideration of the ----- [*Insert name of the Bidder*] (hereinafter referred to as selected Agency) submitting the response to Bid document inter alia for selection of the agency for Supply, Installation, Testing, Commissioning of various working products of Renewable Energies for demonstration under Renewable Energy Resource Centers Project at Regional Science Centre, Bhavanipuram, Vijayawada, in response to the Bid document date issued by NREDCAP (hereinafter referred to as authorized

Representative) having its Registered Office at Tadepalli, Guntur district, Andhra Pradesh and authorized Representative considering such response to the Bid document of .....[*insert the name of the selected Agency*] (which expression shall unless repugnant to the context or meaning thereof include its executers, administrators, successors and assignees) and the Agency and issuing Letter of Intent No----- to (*Insert Name of selected Agency*) as per terms of Bid document and the same having been accepted by the selected agency.

As per the terms of the Bid document, the[*insert name & address of bank*] hereby agrees unequivocally, irrevocably and unconditionally to pay to the NREDCAP, Tadepalli, Guntur district forthwith on demand in writing from Vice- Chairman & Managing Director, NREDCAP or any Officer authorized by it in this behalf, any amount upto and not exceeding Rupees [*Total Value*] only, on behalf of M/s \_\_\_\_\_[*Insert name of the selected Agency / Project Company*].

This guarantee shall be valid and binding on this Bank up to and including..... and shall not be terminable by notice or any change in the constitution of the Bank or the term of contract or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our Guarantee shall remain in force until.....[*Insert date corresponding to the Bid document*] shall be entitled to invoke this Guarantee till.....[*Insert date corresponding to thirty (30) days after the validity of the Performance Bank Guarantee*].

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

The Guarantor Bank hereby agrees and acknowledges that .....[*Insert name of the NREDCAP with which Agreement will be signed*] shall have a right to invoke this BANK GUARANTEE in part or in full, as it may deem fit.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand by ....., made in any format, raised at the abovementioned address of the Guarantor Bank, in order to make the said payment to..... The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by..... [*Insert name of the selected Agency / Project Company as applicable*] and/or any other person. The Guarantor Bank shall not require [*Insert name of the NREDCAP with which Agreement will be signed*], to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against.....[*Insert name of the NREDCAP with which Agreement will be signed*] in respect of any payment made hereunder

This BANK GUARANTEE shall be interpreted in accordance with the laws of India and the courts at Andhra Pradesh shall have exclusive jurisdiction.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and Accordingly,

NREDCAP shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the selected Agency / Project Company, to make any claim against or any demand on the selected Agency / Project Company or to give any notice to the selected Agency / Project Company or to enforce any security held by NREDCAP or to exercise, levy or enforce any distress, diligence or other process against the selected Agency / Project Company .

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to NREDCAP and may be assigned, in whole or in part, (whether absolutely or by way of security) by NREDCAP to any entity to whom NREDCAP is entitled to assign its rights and obligations under the Agreement.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. \_\_\_\_\_ (Rs. \_\_\_\_\_ only) and it shall remain in force until

.....[*Insert date corresponding to the Bid document*]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

.....[Insert name of the NREDCAP with which Agreement will be signed] serves upon us a written claim or demand.

Signature \_\_\_\_\_  
Name \_\_\_\_\_, Power of Attorney No. \_\_\_\_\_

For \_\_\_\_\_ [Insert Name of the Bank] \_\_\_\_\_, Banker's Stamp and Full Address.

Dated this \_\_\_\_\_ da  
yof \_\_\_\_\_,  
20 \_\_\_\_\_

Witness:

1.

.....

..... Signature  
Name and Address

2. ....

Signature  
Name and Address

Notes:

1. The Stamp Paper should be in the name of the Executing Bank and of appropriate value.
2. The Performance Bank Guarantee shall be executed by any of the Bank from the List of Banks enclosed.



**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

**FINANCIAL BID**

**Ref No: NREDCAP/SE/RERC/2022-23 dated :10.11.2022**

**Name of Work:** Supply, Installation, Testing, Commissioning of various working products of Renewable Energies for demonstration under Renewable Energy Resource Centers Project at Regional Science Centre, Bhavanipuram, Vijayawada

We declare that following are our prices for “Supply, Installation, Testing, Commissioning of various working products of Renewable Energies for demonstration under Renewable Energy Resource Centers Project at Regional Science Centre, Bhavanipuram, Vijayawada as per the bid document along with grid connecting equipment and associated Civil works on EPC Basis. These prices are for the entire scope of work as indicated in the tender document, terms and conditions mentioned in Bid Documents.

<b>Sl.No.</b>	<b>Item Description</b>	<b>Rates in Rupees</b>
1.	Supply of various Renewable Energy Gadgets Renewable Energy Resource Center site at Vijayawada inclusive of GST	
2.	Installation & Commissioning Charges inclusive of GST	
3.	Any other Taxes and duties	
4.	Total (in Figures)	
5.	Total (in Words)	

**O&M:**

Not Applicable as the systems will be maintained by APCOST

**Signature of the Bidder with Seal**

Certified that:

1. Above rates are in accordance with specifications of various terms & conditions mentioned in the tender document.
2. In the event of any discrepancy between the values entered in figures and in words, the values entered in words shall be considered.

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

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3. The Tax particulars shall be indicated in a separate sheet for each item

Authorized Signature:

Name:

Designation:

Name & Address of the  
Company/Consortium

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

**TECHNICAL BID**

**STATEMENT – I**

Details of year wise Turnover of the company or group of the companies in the case of consortium during the last three (3) financial years by the Tenderer from 2019-20 to 2021- 22.

<b>Sl. No.</b>	<b>Financial Year</b>	<b>Value in Rs.</b>
1.		
2.		
3.		

- a) Attach certificate from Chartered Accountant supported with Annual Balance Sheet tallying with I.T. Clearance certificate.
- b) Net worth certificate from Chartered Accountant shall also be attached.

**Signature of the Tenderer**

**STATEMENT – II**

**Availability of Key Personnel**

Qualification and experience of Key Personnel proposed to be deployed for execution of the Contract.

<b>Sl. no</b>	<b>Name</b>	<b>Designation</b>	<b>Qualification</b>	<b>Total Experience</b>	<b>Working with the Tenderer since</b>

**Signature of the Tenderer**

**Tender for Supply, Installation, Testing and Commissioning of various working model Gadgets/Posters/Prototypes of Renewable Energies for Demonstration under Renewable Energy Resource Center Project at Regional Science Center, Bhavanipuram, Vijayawada**

**STATEMENT - III**

Information on litigation history in which Tenderer is the Petitioner.

<b>Sl. no</b>	<b>Case No/ year</b>	<b>Court where filed</b>	<b>Subject Matter / Prayer in the case</b>	<b>Respondents i.e., SE /CE</b>	<b>Present stage</b>

**Signature of the Tenderer**

**STATEMENT – IV**

**DECLARATION**

I / WE ..... have gone through carefully all the Tender conditions and solemnly declare that I / we will abide by any penal action such as disqualification or black listing or determination of contract or any other action deemed fit, taken by, the Department against us, if it is found that the statements, documents, certificates produced by us are false / fabricated.

I / WE hereby declare that, I / WE have not been blacklisted / debarred / Suspended / demoted in any department in Andhra Pradesh or in any State due to any reasons.

**Signature of the Tenderer**