

MAITREE

MARKET INTEGRATION AND TRANSFORMATION FOR ENERGY EFFICIENCY

Expression of Interest from Architects for Designing Net Zero Energy Office Building for TSREDCO & TSSPDCL

Telangana State Renewable Energy Development Corporation Limited (TSREDCO) is the State Nodal Agency to MNRE and State Designated Agency to BEE for enforcing and implementing EE activities and RE activities respectively, in the state of Telangana.

Telangana is the first state in India to practically implement the Energy Conservation Building Code (ECBC) for commercial buildings under the guidance of BEE and with the support of Municipal Administration department of Telangana State. Further, to showcase the best energy conservation practices in the built environment, TSREDCO is proposing to build its own office buildings as net zero energy buildings (NZEB).

TSREDCO is planning to construct the NZEB in the state of Telangana under the guidance of state energy department to demonstrate renewable energy integration and energy efficient design and technologies in buildings for others to emulate. The building will serve as the corporate office for TSREDCO.

TSSPDCL (one of the TS-DISCOM) has provided a land with a plot area of 1565 m² (1,872 sq. yards) in a prime location in Hyderabad to develop the NZEB office building for both the organizations jointly at 60:40 ratios. The complete building will have an approximate built-up area of approximately 4,400 m². TSREDCO will construct the building as a green and net zero energy building.

USAID is providing technical assistance to TSREDCO for the project as a pilot NZEB building under the MAITREE program through Environmental Design Solutions (EDS) as its implementing partner.

Net Zero Energy Buildings (NZEBs)

NZEBs are buildings that, through renewable means, produce as much energy as they consume, when accounted for annually. They embody the highest level of energy efficiency and climate responsive design by first reducing energy demand, then meeting the residual demand through renewable means. The architectural design of such buildings follows the logical sequence of achieving NZEB status - focusing on building form, orientation, shading, and appropriate materials for reducing cooling and energy demand before integrating renewable energy.

Performance Specifications

The following performance is from the new building being proposed.

- 1) Reduce the carbon footprint and embodied energy of the building and its operation through innovative design, construction techniques, materials, and proven technologies considering a life cycle approach.
- 2) Meet or exceed the Super ECBC specification for energy efficiency.
- 3) Achieve the most cost-effective NZEB solution by integrating renewable energy on site (including building rooftops, ground mounted, and other locations within the project boundary)
- 4) Buildings to be certified as IGBC Platinum/LEED Platinum /GRIHA 5-Star as well as IGBC/LEED Net Zero Energy Building certification

EoI requirement

The selected design team will work in collaboration with EDS to design the building as per the requirements of TSREDCO. The requirements to qualify for the EoI are as follows:

1. A multidisciplinary team with expertise in green building design, renewable energy integration, and MEP.
2. Team must have experience of at least one certified green office building (IGBC or LEED Platinum or GRIHA 5-Star rated) of at least 3,000 m² in the last 5 years.
3. Preference will be given to Architects with presence in Telangana

In this context, TSREDCO is inviting EoI from qualified firms for supporting the design and construction of the Net Zero Energy building in Telangana. The EoI shall be emailed to plg@tsredco.telangana.gov.in on or before 11/12/2020, up to 5:00 PM. The application formats for EoI are as follows:

Organization Information

S.No	Particulars	
1	Name of the Organization	
2	Address of the applicant with Telephone No./Fax No	
3	Year of Establishment	
4	Name of the CEO/ Director	
5	Contact number	
6	Email	
7	Type of Firm	Proprietary / Partnership/ Limited company or Corporation / Joint Venture / Consortia Submit the copy of relevant document as Annexure I
8	Total No. professional staff	Architects: Structural Engineers: Civil Engineers: Quantity Surveyors: Others:
9	Having Multidisciplinary team with expertise in green building design, renewable energy integration, and MEP	Yes/No
9.1	If Yes	Provide the team details with CVs separately as per format provided in Annexure II
10	Experience in designing IGBC or LEED Platinum or GRIHA 5-Star rated) of at least 3,000 m ² in the last 5 years	Yes/No
10.1	If Yes	Provide the complete project details separately as per format provided in Annexure III
11	Annual Turnover of the company/ firm from 2017-18 to 2019-20 (Enclose Turnover certificate certified by CA)	

Annexure Ia: Covering Letter (on Company Letter Head)

Date _____

To,

The Vice Chairman & Managing Director
Telangana State Renewable Energy Development Corporation Ltd (TSREDCO),
D.No. 6-2-910, Visvesvaraya Bhavan, II floor
Khairatabad, Hyderabad - 500 004.
Telangana State, India
Ph: 040 – 23201502, 23201503.
Email: plg@tsredco.telangana.gov.in

Subject: - Construction of Office Building for TSREDCO with Net Zero Energy Building Concept in the state of Telangana – Submission of EoI for designing the building with NZEB concept - reg

Dear Sir,

We M/s _____ Company which is having its head office at _____ herewith submitting the EoI as per the scope of work for designing the proposed Office building for TSREDCO with Net Zero Energy Concept in the state of Telangana.

1. We the undersigned, having read and examined in detail the EoI document and do hereby express my interest to provide the services as specified in the EoI.
2. We have not indulged in any corrupt or fraudulent practices in preparing this tender document.
3. We shall bear all costs incurred in connection with the preparation and submission of the EoI.
4. We are enclosing the filled Annexure forms along with supporting documents, meeting the EoI requirements.

I hereby declare that all the information and statements made in this EoI are true and accept that any misinterpretation contained in it may lead to my disqualification.

Thanking you,

Yours faithfully

Sign & Seal

Annexure II

Format of Curriculum Vitae (CV) of Key Professionals (To be furnished for each member of the team)

Name	
Designation	
Date of Birth	
Years with Firm	
Nationality	
Membership in Professional bodies	

Education Qualifications:

[Summarize college/university and other specialized education of staff member, giving names of schools, dates attended and degree(s) obtained. Use up to a quarter page.]

Employment Record:

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, name(s) of employing organization(s), title of positions held and location of assignments. For experience in last ten years, also give type of activities performed and client references, where appropriate. Use up to three quarter of a page.]

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these bio-data correctly describe my qualifications, my experience and myself.

Date

Signature of Staff Member
Seal of the firm

Annexure III

S.No	Name and location of the project	address of the client with, contact name	Type of building	Total Built up area (sq.m)	Compliance (IGBC or LEED Platinum or GRIHA 5-Star) Along with copy of certificate	Work Order value in INR. Along with copy of work order	Duration of the project with Date of commencement and completion	Name of the Project Incharge & names of the staff involved	Salient features / design concept of the Project