

REQUEST FOR PROPOSAL (RfP)

FOR

PROVIDING CONSULTANCY SERVICES ON ARCHITECTURAL DESIGN AND DRAWING OF SUPER ECBC BUILDING AS PER THE SITE CONDITION WITH SIMULATION, COST ESTIMATION, PERIODIC INSPECTION & MONITORING AND ENERGY AUDITING AFTER COMPLETION OF THE BUILDING IN ARUNACHAL PRADESH.

EMD = Rs.1, 50,000.00

RfP Document fee = Rs.2000.00

Prepared and Issued by:



The Director
Arunachal Pradesh Energy Development Agency (APEDA)
Urja Bhawan, Tadar Tang Marg
Papumpare District, Itanagar – 791111
Arunachal Pradesh



11-04-22

No. APEDA/ W-501/ECBC-BEE/2021/

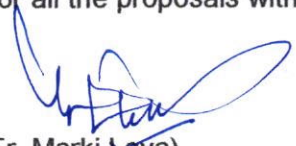
Dated Itanagar, the April' 2022

Request for Proposal (RfP)

The Arunachal Pradesh Energy Development Agency (APEDA), Itanagar invites for submission of both Technical and Financial Proposals from BEE Accredited Energy Auditors (Building) for Providing consultancy services on design and drawing of super ECBC buildings as per the site & climatic condition with Simulation, Cost Estimation, periodic Inspection & Monitoring and Energy Auditing after completion of the Super ECBC Iconic Building in Doimukh, Papum pare District in Arunachal Pradesh.

The RfP documents will be available in the website: www.apeda.nic.in and the interested Accredited Energy Auditors (Building)/who are willing to provide consultancy service may download the documents from the website and submit their Proposals in two parts- Technical Proposal and Financial Proposal in offline mode to the office of the Director, APEDA, Urja Bhawan, TT Marg, Post Box No.141, Itanagar-791111, Papum Pare District, Arunachal Pradesh on or before 20/05/2022 upto 12.00PM. The RfP shall be opened on 21/05/2022 at 3.00 PM


The Director, APEDA, Itanagar reserves the right to accept or reject any or all the proposals without assigning any reason thereof.


(Er. Marki Loya)
Director
APEDA, Itanagar

Memo No. APEDA/ W-501/ECBC-BEE/2021 / 336-45
Copy to:

Dated Itanagar, the April 2022

1. The Chairman, APEDA, Itanagar for information.
2. The Commissioner, Power & NRE, Govt. of AP for information.
3. The Director, IPR, for printing of the RFP in 1(one) National News Paper & 1(one) Local News Paper.
4. The Deputy Director, APEDA, Tezu/Aalo/Khonsa/Bomdila/Yachuli for information.
5. The Account Officer, APEDA, Itanagar for information.
6. www.apeda.nic.in
7. Notice Board of APEDA
8. Office copy


(Er. Marki Loya)
Director
APEDA, Itanagar

PARTICULARS OF RfP

Sl.No	Particulars	Compliance Details
1	RFP No.	APEDA/W-510/ECBC-BEE/2021/336-45 Dtd. 29/4/2022
2	Name of Work	Providing consultancy services on design and drawing of super ECBC building as per the site & climatic condition with simulation, cost estimation, periodic inspection & monitoring and energy auditing after completion of the building in Arunachal Pradesh.
3	Target quantity	1 No. super ECBC building.
4	Fee for RfP document (in Demand Draft) favouring Director, APEDA, Itanagar.	Rs.2000.00
5	Earnest Money Deposit (EMD) in Demand Draft favoring Director, APEDA, Itanagar.	Rs.1,50,000.00
6	Last date of receipt of Technical and Financial Proposals (in two separate sealed envelopes, but under a single covering envelope).	20 th May,2022 up to 12.00 PM
7	Opening of Technical offers	21st May, 2022 at 3.00 PM.
8	Opening of Financial Offers	21st May, 2022 at 4.00PM
9	Time line for Completion of Consultancy	(i)Submission of design, drawing and estimate: June, 2022 (ii)Periodic Inspection and monitoring: July, 2022 to July, 2023 or till completion of the building.
10	Validity of Offers/proposals	90 days from date of opening of financial proposal


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Section-01:

1. Background:

The Arunachal Pradesh Energy Development Agency (APEDA), the State Designated Agency for Govt. of Arunachal Pradesh and BEE, GoI intends to construct an Iconic Building with Super ECBC Building Concept and Design in order to demonstrate the designing and construction of the most Energy Efficient building by complying with latest ECBC Code. The ECBC code is formulated to design the most energy efficient building and save the energy consumption, on ascending order of Efficiency of buildings. ECBC compliant buildings shall demonstrate approximately 25% savings, ECBC+ Buildings 35% savings and Super ECBC buildings will show 50% or more Energy savings as compared to conventional buildings.

The Bureau of Energy Efficiency is Enforcing Energy Conservation Building code and almost all the states of India have amended the ECBC code and the Arunachal Pradesh ECBC Code-2022 has been notified. Based on this notification, Buildings with connected load of more than 100KW have to mandatorily abide by ECBC Compliance rules. In order to demonstrate ECBC compliant Energy Efficient Building to public of Arunachal Pradesh, this Super ECBC Building is being proposed to be constructed with the support of BEE at Doimuk in Papumpare District of Arunachal Pradesh.

The APEDA is floating this RfP to invite BEE Accredited Energy Auditors (Building) for providing Consultancy Services on Design and Drawing of Super ECBC buildings as per the site condition with Simulation, Cost Estimation, periodic Inspection & Monitoring and Energy Auditing after completion of the building in Arunachal Pradesh.

2. Scope of Work:

1. The scope of work involves:

- (a). The site visits for assessment of data, periodic inspection and monitoring at the time of construction of the Iconic Super ECBC Buildings in Arunachal Pradesh.
- (b). Architectural Design & Drawing, Cost Estimation and Analysis, Energy simulation, Energy audits, Estimation of baseline EPI of Super ECBC Building.
- (c). Periodic Inspection, Monitoring and Guidance during the construction period of the building.
- (d). Measurement of the impact of Super ECBC compliance over period of one operating year of full occupancy and prepare reports on actual energy efficiency achieved in the completion report.
- (e). Ensure Follow up all the Super ECBC code procedures and formalities as per the climatic and site condition by the contractor.
- (f). Prescribe and suggest energy efficient materials for use in the building.

2. The Consultant will be required to enter into an Agreement with the APEDA after selection based on competitive bidding through RfP.


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3. Technical Specifications of proposed Super ECBC Building as per the drawing of APEDA at Annexure:


Name & address of office. Building / Name Proposed for Super ECBC Building	Super ECBC Building in Doimukh, Papum Pare District, Arunachal Pradesh.
Project Location (GPS coordinates)	Latitude : 27.0844 ⁰ N Longitude : 93.6053 ⁰ E
Project Built up Area (m ²)	866.66 sqm
Project above Grade Area(m ²)	i) Ground Floor: 327.66 sqm. ii) 1 st Floor: 271.18 sqm. iii) 2 nd Floor: 267.46 sqm.
Project Conditioned and unconditioned Area (m ²)	i) Conditioned Area: 428.561 sqm ii) Unconditioned Area: 437.739 sqm
Project climatic Zone	Warm and Humid
Proposed standard Building EPI ratio for Super ECBC Building	0.76
Compliance Method	<ul style="list-style-type: none"> ▪ Whole Building Performance Method ▪ Prescriptive method
Compliance Summary and check list Form	Refer Appendix-D in the ECBC Code book

Super ECBC Building type	RCC; G+2 storeys
Type of Building	Super ECBC building
Plinth Area of the building(approx.)	866.66 sqm
No of floors	2 Nos.
Basic Requirement	<ul style="list-style-type: none"> ▪ Architectural Design & drawing ▪ Cost Estimation and analysis. ▪ Energy simulation. ▪ Energy Audits. ▪ Building Material Recommendation. ▪ Monitoring & Inspection of Construction on Monthly basis. ▪ EPI Compliance as per Super ECBC Building requirement.
Material to be used for EEB	ECBC code Complied Materials with


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Buildings	standard test certification by testing lab accredited by BEE.
EE Building code	Mandatory requirement:
	<ul style="list-style-type: none"> ▪ EPI ratio of Super ECBC Building ▪ Compliance Approach and requirement. @3. in code book ▪ Mandatory Requirement of Building Envelope @4. in code book. ▪ Mandatory Requirement of Comfort and Controls system @5.in code book. ▪ Mandatory Requirements in Lighting controls system @6.in code book. ▪ Mandatory Requirement of Electrical and Renewable Energy systems. @7 in code book
Warranty periods of materials	<ul style="list-style-type: none"> ▪ All EE Building material and EE accessories for water piping, electrical wiring and other EE materials recommended by the consultant should be of the most standard with test certificate from accredited labs centers approved by BEE. ▪ EE materials-25years, Electrical and other accessories- 5 year
Other requirements	<ul style="list-style-type: none"> ▪ The Solar, Wind Passive Design and Orientation of Building display in 3D Model. ▪ The Consultant must Mentor and train the ECBC Cell engineers of APEDA, Contractor and other stakeholder department till the end of Project.

Note: The proposer may provide different options from their end if they have better technical specifications than the one given herein.


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4. ELIGIBILITY CONDITIONS :

The bidders are required to fulfill following conditions:

SL. No.	Eligibility Criteria
1.	The bidders are required to submit the fee of RFP documents amounting to Rs.2000.00 and EMD of Rs.1, 50,000.00 in favour of Director, APEDA, Itanagar in the form of Demand Draft only in original from any scheduled bank and the DDs should be submitted along with the Technical Proposal. RFP without RfP document fee and EMD will be rejected.
2	Must be a registered consultant of ECBC compliance building in India accredited as an Energy Auditor and should be in existence at least for the last 3years or more. Certificate from BEE to be submitted.
3	Should have a minimum average annual turnover of Rs.25.00 lakhs during , 2018-19, 2019-20, 2020-21 Copy of the audited balance sheets of the consultant along with Turn Over certificate certified by CA to be submitted for the year of 2021.
4	The Consortium, Business Partnership, Power of Attorney holder and Joint Venture is/ are not allowed to participate in this tender.
5	The bidder should be financially sound/ solvent to execute the work. A Solvency Certificate to the effect should be submitted by the proposer for at least Rs.30.00 Lakhs
6	The bidder should have valid PAN Card and GST registration certificate and a copy of same should be enclosed.
7	The bidders/ proposers should submit experience Certificate along with all the credentials for Designing, Simulation, Estimation experiences for the construction of ECBC Building. Copy of the valid certificate from the authorized agency to be submitted. The Latest certificate issued from BEE is mandatory to be produced against the Accredited Energy Auditor (Building).


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SECTION 02: GENERAL CONDITIONS OF CONTRACT

1. DEFINITIONS AND GENERAL ASPECTS OF WORK

- a) APEDA shall mean Arunachal Pradesh Energy Development Agency, represented by its Director or his representative with Head office at Itanagar, Papum Pare district and shall also include his or her successors in interest and assignees. The consultant shall mean the person whose bidder has been accepted by APEDA and shall include his legal representatives, successors in interest and assignees.
- b) The Scope of work of the Consultant is to visit site, provide Architectural Designing, Drawing, Energy Simulation and Cost Estimation and prescribe EE materials for construction. The same should be completed within one month from date of issuing of Work order. The inspection and Monitoring of Super ECBC Building shall continue on monthly basis till the Completion of Building. However, APEDA may in case of urgency ask the firm to complete the work earlier, with the mutual consent of the consultant and APEDA. In case the consultant fails to execute the said work within stipulated time, APEDA will be at liberty to get the work executed from the open market without calling any tender and without any notice to the consultant at the risk and cost of the consultant. Any additional cost incurred by APEDA shall be recovered from the consultant. If the cost of executing the work as aforesaid exceeds the balance due to the consultant, and the consultant fails to make good the additional cost, APEDA may recover it from the consultant's pending claims against any work in APEDA or in any lawful manner.
- c) On the request of the consultant and also in the interest of the organization, the APEDA is authorized to extend the validity of the order/ agreement, subject to the condition that the request of the consultant is received before the expiry of the agreement period, or any extended period will be granted to the consultant if there is a valid ground.
- d) The consultant will not be allowed to operate in the state through other sources/third party/ power of attorney holder for execution of the order/ agreement. It will be the sole responsibility of the consultant to execute the orders/ agreement as per time schedule and ensure to provide consultancy service as per the requirement mentioned in the RfP to fulfil the scope of Super ECBC Building.
- e) In the interest of the work, order/ agreement may be extended to a mutually agreed period, if the need so arises.
- f) It shall be the responsibility of the consultant to ensure that the building estimate is done correctly and is constructed in compliance to the Super ECBC norms.

2. LIQUIDATED DAMAGES

- a) If the consultant fails to perform the services within the time period specified in the contract/ agreement/ order or within the extended period if done so, the APEDA will be at liberty to cancel the same and forfeit the Earnest Money.

3. FORCE MAJEURE

- a) Notwithstanding the provisions of clauses contained in the agreement/ order; the consultant shall not be liable for forfeiture of its EMD if he is unable to fulfil his obligation under the deed due to event of force majeure circumstances.
- b) For purpose of this clause, "Force majeure" means an event beyond the control of the consultant and not involving the consultant's fault or negligence and not foreseeable. Such events may include, but are not