

Request for Financial Proposal (RfP)

Name of Work: Hiring of Energy Service Companies (ESCOs) for Energy audit work of the various Stadia of the South Asian Games 2016 under cluster-A, B and C.

(Energy audit work for one cluster will be awarded to one agency only, i.e. if financial quote of any agency found to be the lowest (L-1) for first cluster (cluster-A) then the financial quotes of the same agency will not be considered for the other cluster (B, C) and so on so that work of each cluster will be awarded to the separate lowest bidder only. Only one L1 bidder can awarded only one work order for a cluster)

1. Letter of Invitation

This Request for Proposal (RfP) is for **Hiring of Energy Service Companies (ESCOs) empanelled with BEE for carrying out of Energy audit work of the various Stadia of the South Asian Games 2016 located at various places at Guwahati and Shillong as mentioned under cluster-A, B and C.** In order to promote implementation of energy efficiency measures in the existing buildings, the Government of India has approved a scheme to provide assistance for **conducting** Investment Grade Energy Audits (IGEA) for government buildings at central as well as state level.

Interested **ESCOs** may download the RfP document from the website <http://www.bee-india.nic.in> . The submission of the RfP document must be accompanied with the payment of the bid processing fees of Rs.3,000/- (INR Three Thousand only) for all clusters or Rs.1,000/- (INR Five Thousand only) for each cluster. The payment will be accepted in the form of crossed demand draft on any scheduled bank, payable at par in New Delhi in favour of Bureau of Energy Efficiency, New Delhi.

Last Date for Submission of RfP: 15:00 hrs (IST) on **31st December, 2015**. In case of any clarifications, **ESCOs** may contact Shri. Sanjay Seth, Energy Economist, BEE Tel:(+91)-11-2617-9658, Fax: (+91)-11-2617-8352, Email: sseth@beenet.in .

Secretary,

Bureau of Energy Efficiency

Sr.No	Subject	Particulars
1	Name of Employer and Project	BEE Hiring of Energy Service Companies (ESCOs) empaneled with BEE for carrying out of Energy audit work of the various Stadia of the South Asian Games 2016 located at various places at Guwahati and Shillong as mentioned under cluster-A, B and C.
2	Last Date/ Time and Venue for submission of bids	31/12/2015 15:00 Hrs Address: BEE office, 4th floor, Sewa Bhawan, R K Puram, New Delhi
3	Nodal officer for issuing clarifications	Shri Girja Shankar Asstt. Energy Economist BEE office, 4th floor, Sewa Bhawan, R K Puram, New Delhi Tel-011-26179699; Cell-09868880656 email:gshankar@beenet.in
4	Contact person for submission of the bids	Shri Sanjay Seth Energy Economist BEE office, 4th floor, Sewa Bhawan, R K Puram, New Delhi Tel-011-26179658 email:sseth@beenet.in
5.	Financial bid opening	31/12/2015 16:30 Hrs
6.	Validity of the Proposal	The Proposal must remain valid till <u>60 days</u> from the date of submission of bids.
7.	Submission of bids	Original financial bids (sealed in envelope) to be submitted.
8.	Method of selection	Financial bids would be opened and work shall be awarded to the lowest (L1) bidder.
9.	Expected date and place of commencement	ESCO will sign the contract after fulfilling all the formalities/pre-conditions <u>within 3 days</u> of issuance of the letter of intent/award.
10.	Expected date of completion of the project	The agency is expected to complete the project within 60 days after the signing of the contract. However, activities/ sub-activities are to be completed strictly as mentioned in the time-schedule of the RfP since games are going to be held at these venues in the month of February, 2015 and work of renovation/ retrofitting prior to that.
11	Eligible ESCOs for bidding	BEE empaneled ESCOs with Grade 1 or 2 or 3 only

2. Cluster wise list of the stadia (competition venues for 12th South Asian Games)

S. No.	Sports	Men(M)/ Women(W)	Venue
Cluster-A			
1	Athletics	M, W	Indira Gandhi Athletics Stadium, Sarusajal Sports Complex,
2	Football	M	Jawaharlal Nehru Stadium, Sarania Hills
3	Football	M	Indira Gandhi Athletics Stadium, Sarusajal Sports Complex
4	Basketball	M/W	Nabin Ch. Bordoloi AC Indoor Stadium, Sarsuajai
5	Hockey	M/W	Moullana Md. Tayabullah Hockey Stadium, Bhetapara
6	Shooting	M/W	Shooting Range, Kahilipara
7	Swimming	M/W	Dr. Zakir Hussain Aquatic Complex, Sarusajai
8	Volleyball	M/W	Nabin Ch. Bordoloi AC Indoor Stadium, Sarusajai
Cluster-B			
1	Cycling	M/W	NH 37 Bypass
2	Handball	M/W	LNIFE, Tepesia, Sonapur
3	Kabaddi	M/W	D.T.R.P. Indoor Stadium, Ulubari
4	Kho Kho	M/W	LNIFE, Tepesia, Sonapur
5	Squash	M/W	R.G. Baruah Sports Complex, Sarsuajai
6	Tennis	M/W	All Assam Tennis Association Complex, Chachal, VIP Road
7	Triathlon	M/W	Dr. Zakir Hussain Aquatic Complex, Sarusajai
8	Wrestling	M/W	D.T.R.P. Indoor Stadium, Ulubari
9	Weightlifting	M/W	Bhogeswari Phukanani Indoor Stadium, Dispur
Cluster-C			
1	Archery	M/W	Jawaharlal Nehru Sports Complex – No. 1 Polo Ground
2	Boxing	M/W	SAI-SAG Indoor Stadium, NEHU Campus
3	Badminton	M/W	SAI-SAG Indoor Stadium, NEHU Campus
4	Football	W	Jawaharlal Nehru Sports Complex- Football Ground
5	Judo	M/W	Jawaharlal Nehru Sports Complex- Indoor Hall
6	Table Tennis	M/W	Jawaharlal Nehru Sports Complex- Indoor Hall
7	Taekwondo	M/W	N.E.I.G.R.I.H.M.S. Indoor Stadium
8	Wushu	M/W	Jawaharlal Nehru Sports Complex- Indoor Hall

3. Scope of Work

The scope of work include conducting investment grade energy audit of the Stadia of the South Asian Games 2016 for baseline identification, energy assessment, and assessment of maximum load of venues viz-a-viz capacity of substations feeding the venues and designing of detailed implementation plan for retrofitting as per time schedule.

- Review of present electricity, fuel oil & estimation of energy consumption in various end

use energy like lighting, Air-Conditioning, Water Pumping etc. for defining of baseline, static factors and independent variables etc.

- A detail study for energy conservation options of various energy sources like Electricity and Fuel oil in the building campuses and recommend actions for reducing the same.
- Following are the indicative list of systems for performance evaluation, but not limited to,

a) Electrical Distribution System

- a. Review of present electrical distribution like Single Line Diagram (SLD), transformer loading, cable loading, normal & emergency loads, electricity distribution in various areas / floors etc. and assessment of maximum load of venues viz-a-viz capacity of substations feeding the venues.
- b. Study of Reactive Power Management and option for power factor improvement.
- c. Study of power quality issues like Harmonics, current unbalance, voltage unbalance etc.
- d. Exploring the Energy Conservation Options (ENCON) in electrical distribution system.

b) Lighting System

- a. Review of present lighting system, lighting inventories, area lighting and stadium lighting system etc.
- b. Estimation of lighting load at various locations like different floors, outside (campus) light, pump house and other important locations.
- c. Detail lux level survey at various locations and comparison with acceptable standards.
- d. Study of present lighting control system and recommend for improvement.
- e. Analysis of lighting performance indices like Lux/m², lux/watt, lux/watt/m² and its comparison with norms.
- f. Exploring the Energy Conservation Options (ENCON) in lighting system.

c) Heating, Ventilation & Air-Conditioning System (HVAC system)

- a. Review of present HVAC system like central AC, window AC, split AC; package AC, Water Coolers, and Air Heaters etc.
- b. Performance assessment of window AC, Split AC and Package AC system.
- c. Performance Assessment of Chillers, Cooling Towers, Air Handling Units (AHUs) and cold insulation system of central AC.
- d. Analysis of HVAC Performance like estimation of Energy Efficiency Ratio (EER i.e. KW/TR), Specific Energy Consumption (SEC) of Chilled Water Pumps, Condenser Water Pumps, AHUs etc and comparison of the operating data with the design data.
- e. Exploring the Energy Conservation Options (ENCON) in HVAC system.

d) Diesel Generator (DG) Sets

- a. Review of DG set operation
- b. Performance Assessment of DG sets in terms of Specific Fuel Consumption (SFC i.e. KWH/Liter),
- c. Exploring the Energy Conservation Options (ENCON) in DG Sets.

e) Water Pumping System

- a. Review of water pumping, storage and distribution systems.
- b. Performance assessment of all major water pumps i.e. power consumption vs. flow delivered, estimation of pump efficiency etc.
- c. Exploring the Energy Conservation Options (ENCON) in Water Pumping System.

f) Thermic Fluid Heaters / Boilers

- a. Performance assessment of hot water generators or thermic fluid heaters like estimation of efficiency etc.
- b. Exploring the ENCON options in this systems

g) Motor Load Survey

- a. Conducting the motor load survey of all drives to estimate the % loading.
- b. Exploring the ENCON options in electric drive system.

h) Energy Monitoring & Accounting System

- a. Detail review of present energy monitoring & accounting system in terms of metering, record keeping, data logging, periodic performance analysis etc.
- b. Recommend for effective energy monitoring & accounting system.

- Cost-Benefit Analysis of each ENCON options indicating simple payback period, return on investment (ROI), internal rate of return (IRR).
- Preparation of a comprehensive Investment Grade Energy Audit Report, baseline report and submission of the same to BEE / concerned State agencies. Assessment of maximum load of venues viz-a-viz capacity of substations feeding the venues and designing of detailed implementation plan accordingly.
- Designing & presentation of detailed implementation plan with break-up of basic implementation cost, Investment cost calculations, Energy calculations, O&M cost estimation, M&V estimation & protocol etc. for each measure together complete package.
- The Implementation Plan should be shared with Evaluation Committee/State Agencies for finalisation and the Evaluation Committee/State Agencies may instruct the ESCO to amend and revise the proposed plan and select the final proposal for implementation. State Agencies are free to modify the proposal of ESCO and selection process of the procurement of materials thereafter. The assessment report of maximum load of venues viz-a-viz capacity of substations feeding the venues should be shared with state agencies within a week as per time-schedule
- Co-ordinate with and assist state agencies in designing of tender specification for the implementation of the retrofit.
- ESCO have to assist the State Nodal Agencies in implementation of the retrofit project
- ESCO should collate the information on the retrofit carried out in the different venues and prepare a detailed report of the implemented ENCONs along with the saving and

5	Collate information on the implemented ENCON measures and submission of report to BEE & state agencies								
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6. Liquidated Damage (LD)

In case of default of adhering to the time schedule, Liquidation Damages (LD) to the extent of ½% of the total contract value per week subject to a maximum of 5% of the total contract value would be levied. For any delay beyond 2 months, BEE reserves the right to terminate the contract without assigning any reason(s) & have right to carry out the pending assignment at the ESCOs risk & cost.

NOTE:

- 1) Separate envelope should be submitted by the bidder for each cluster A or B or C and should be marked as '***Bid submission against the RfP for hiring of Energy Service Companies (ESCOs) for Energy audit work of the various Stadia of the South Asian Games 2016 under cluster-A or B or C***' (strike out the name of cluster which is not applicable)
- 2) Bid should be accompanied with a **Bid processing fee*** of INR 1000/- for each cluster in form of DD drawn in favor of '**Bureau of Energy Efficiency, New Delhi**'.
- 3) Lowest quoted qualified bidder should have to submit a Performance Guaranty equal to 10% of the financial quote of bid after award of the work.

Contact details (**Bureau of Energy Efficiency**)

- 1) Submission of bids: Secretary, Bureau of Energy Efficiency,

7. Financial Proposal

To
Shri -----,
Secretary, BEE
Address

Dear Sir,

Sub: Hiring of Energy Service Companies (ESCOs) for Energy audit work of the various Stadia of the South Asian Games 2016 under cluster-A or B or C. (strike out the cluster which is not applicable)

1. The undersigned Bidders, having read and examined in detail all the documents in respect of hiring of **an ESCO for Energy audit work of the various Stadia of the South Asian Games 2016 under cluster-A or B or C**; and do hereby submit their proposal to provide services as specified in the scope of work.

2. Correspondence Details: Our correspondence details are:

1	Name of the Bidder	
2	Address of the Bidder	
3	Name of the contact person to whom all references shall be made regarding this tender	
4	Designation of the person to whom all references shall be made regarding this tender	
5	Address of the person to whom all references shall be made regarding this tender	
6	Telephone (with STD code)	
7	E-Mail of the contact person	
8	Fax No. (with STD code)	
9	Present ESCO Grading	

Work shall be awarded only to the lowest (L1) bidder after technical evaluation

Note: Each envelope containing Financial proposal should be written with i.e “Bid submission against the RfP for hiring of Energy Service Companies (ESCOs) for Energy audit work of the

*various Stadia of the South Asian Games 2016 under cluster-A/ B/ C.” and “Not to be opened before the **31/12/2015** at 15:00 hrs”*

Envelope (A)- Financial Proposal

Form 1: Organizational Profile & Team details

Form 2: Financial Cost Split

Form 3: Declaration Letter

Bid processing fee* of INR 1000/- for each cluster in form of DD drawn in favor of **BEE**.

Financial proposals without Bid Processing fee will be rejected directly and not considered for evaluation. **Separate financial proposal (along with bid processing fee) should be submitted by the ESCO firm in separate sealed envelope mentioning the name of the cluster on the envelope.** Successful bidders should have to deposit 10 % of work order amount as a Performance Bank Guarantee after award of the work order.

Copy of Registered Power of Attorney executed by the Bidder in favor of the Principal Officer or the duly Authorized Representative, certifying him/her as an authorized signatory for the purpose of this proposal

We hereby declare that our proposal is made in good faith and the information contained is true and correct to the best of our knowledge and belief.

Thanking you,

Yours faithfully

(Signature of the Bidder)

Name :

Designation :

Seal :

Date :

Place :

Business Address:

Witness:

Bidder:

Signature	_____	Signature	_____
Name	_____	Name	_____
Address	_____	Designation	_____
	_____	Company	_____
Date	_____	Date	_____

FINANCIAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: [Name and address of Employer]

Dear Sirs,

We, the undersigned, offer to provide the Assignment/job for conducting **Energy audit work of the various Stadia of the South Asian Games 2016 under cluster-A/ B/ C (only one cluster should be mentioned in each proposal)** in accordance with your Request for Financial Proposal dated [Insert Date]. Our attached Financial Proposal is for the sum of [Insert amount(s) in words and figures, for cluster]. This amount is inclusive of all taxes. We hereby confirm that the financial proposal is unconditional and we acknowledge that any condition attached to financial proposal shall result in reject of our financial proposal.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal.

We remain,

Yours Sincerely

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Address:

7.1 Form1

Organizational Profile

Sr.No	Details of the Company/Firm			
1.1	Name of the Company / Firm			
1.2	Year of Registration / Incorporation in India			
1.2	Type of Organization (Service /Manufacturer/Consultants etc.)			
1.3	Present ESCO Grading			
1.4	Number of Permanent Employees			
1.5	Number of key Personnel working with the company since last two years			
1.6	List of team members / employees for the proposed task of Energy audit of various stadia of cluster-A/B/C (Attached separate CV of team members)	Team composition	Name	Contact details
		Team Leader		
		Energy Auditor-1		
		Energy Auditor-2		
		Supporting staff		
1.7	Mailing address			
1.8	Telephone No.			
1.9	Fax No.			
1.10	Email			

Witness:		Bidder:	
Signature		Signature	

Name		Name	
Address		Designation	
		Company	
Date		Date	

7.2 Form-2

Financial Cost Split

SUMMARY OF COSTS

S.No.	Particulars	Amount Rupees	in	Amount words	in
1	<i>Remuneration* (carrying out Energy audit work of the various Stadia of the South Asian Games 2016 under cluster-A/ B/ C (only one cluster name should be mentioned in each proposal))</i>				
2	<u>Total</u>				

** Cost includes the work of conducting investment grade energy audit of the buildings for particular cluster for baseline identification, energy assessment and designing of detailed implementation plan for retrofitting*

Authorized Signature Name:

Designation

Name of firm: _____

Address: _____

7.3 Form3

Declaration letter

Declaration Letter on official letter head stating the following:

We are not involved in any major litigation that may have an impact of affecting or compromising the delivery of services as required under this contract

We are not black-listed by any Central / State Government / Public Sector Undertaking in India

Witness:		Bidder:	
Signature		Signature	
Name		Name	
Address		Designation	
		Company	
Date		Date	

Annexure A

8 Data of Buildings:-

General Information

Building Name : List mentioned above	
Building owned by : Central Sports Agencies/ State Agencies of Assam & Meghalaya	
Name and Designation of Nodal officer / person for Energy Audit : Col KS Banshtu (retd), Addl Director, Venue Operations & Overlays, +91-7086111228	
Contact Details of Nodal Officer:	
Phone No: +91-7086111228	
Email ID: banshtu.ocsag@gmail.com	
Dr. A. K Bansal; 09810510997; bansalhockey@yahoo.co.in	Sports Authority of India
SDA Assam: Mr. Rajib deb, 08334937727;Rajib.deb@enfragy.com	Md Nurul Huda, 09435060243; ceia.huda@gov.in
SDA Meghalaya: Mr. Rajib deb, 08334937727; Rajib.deb@enfragy.com	P.K. Shullet, Sr. Electrical Inspector & State Designated Agency on EC Shillong, Meghalaya; 9856040800 ; sei_meg@rediffmail.com

Building Area Details

Blo ck No.	Name /Nature of Activity (Office / Games / parking)	Total Built-up area (Sq. Mtr.)/ contact demand	Offic er-In-Char ge	Contact details	Yearly/ Monthly consumption (kWh)
1	Guwahati Shooting Range, Kahilipara	125 kVA	Rajani Kalita, JE	(0361-2236669); sportsauthorityassam@gmail.com	NOV, 2015 (4129)
2	Bhetapara Hockey Stadium	109.40 kVA	Rajani Kalita, JE	(0361-2236669); sportsauthorityassam@gmail.com	NOV, 2015 (6618)
3	D.T.R.P Indoor Stadium	1575 m2, 255.37	Rajani Kalita, JE	(0361-2236669); sportsauthorityassam@gmail.com	NOV, 2015 (22453)

		kVA, DG-250 kVA			
4	LNIFE, Tepesia, Sonapur; Under Lakshmibai National Institute of Physical Education (LNIFE) (Multipurpose indoor hall Girls' Hostel Boys' Hostel Type 5 quarter)	550 kVA	Dr. B. Basum atary, Dean(i/ c)	9207049330; lnipeguwahati@gmail.c om	
5	Sarusajai Sports Complex	2226 m2; CD- 1324.70 kVA; DG (500, 500, 600, 40) kVA; AC -2 x 175 TR	Rajani Kalita, JE	(0361-2236669); sportsauthorityassam@ gmail.com	Nov-15 (86070.6 kWh)
6	Jawaharlal Nehru Sports Complex, Shillong (Training Hall, Director Office, Football dressing room, Lawn Tennis, Indoor Stadium)	No AC installed	K. S. Pakynt ein Project Engine er,	9402135401; cavewinsan@gmail.co m	

Meter no.	Year	Contract Demand (kw/kVA)	Units kWh (
100045	26/09/2015 to 19/10/2015	8 kW	753
94097	24/08/2015 to 19/10/2015	1 kW	5
94100	24/08/2015 to 19/10/2015	1 kW	4
94096	24/08/2015 to 19/10/2015	1 kW	28

		94095	24/08/2015 to 19/10/2015	1 kW	0	
		RSD194098	24/07/2015 to 19/10/2015	1 kW	0	
		94099	24/08/2015 to 19/10/2015	1 kW	0	
7	SAI-SAG NEHU Campus, Shillong MP Hall (Indoor) Boys' Hostel Under construction: Girls' Hostel Quarter type 2 Quarter type 3 Quarter type 4 Quarter type 5 Archery Ground Hockey Ground Football Ground	4000 Sq. mtr.; 228 kVA; No DG	Deba Kumar Bora Dy. Directo r	0364-2590454 stcshillong.sai@gmail.c om		