

आयुक्त कार्यालय, उच्च शिक्षा
सतपुडा भवन, भोपाल

क्र 632 /वि.बै.परि./2020

भोपाल, दिनांक 06/06/2020

प्रति,

प्राचार्य
शासकीय महाविद्यालय
(संलग्न सूची अनुसार) ।

विषय- विश्व बैंक पोषित परियोजना "मध्यप्रदेश उच्च शिक्षा गुणवत्ता उन्नयन परियोजना" अंतर्गत एनर्जी ऑडिट, सेनेटरी वेंडिंग मशीन एवं इन्सिनरेटर तथा वाटर कूलर/ आर.ओ. के क्रय की प्रशासकीय स्वीकृति के संबंध में ।

संदर्भ- साधिकार समिति की बैठक दिनांक 28-05-2020 का कार्यवाही विवरण ।

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विश्व बैंक द्वारा पोषित "मध्यप्रदेश उच्च शिक्षा गुणवत्ता उन्नयन परियोजना" अंतर्गत 25 महाविद्यालयों के नव निर्मित भवन हेतु एनर्जी ऑडिट, सेनेटरी वेंडिंग मशीन एवं इन्सिनरेटर तथा वाटर कूलर एवं आर.ओ. क्रय किया जाना है ।

2 संदर्भित कार्यवाही विवरण के अनुपालन में 25 महाविद्यालयों के नव निर्मित भवन हेतु एनर्जी ऑडिट, सेनेटरी वेंडिंग मशीन एवं इन्सिनरेटर तथा वाटर कूलर एवं आर.ओ. क्रय हेतु निम्न विवरण एवं शर्तों के आधार पर प्रशासकीय स्वीकृति प्रदान की जाती है -

क्र	विवरण	महाविद्यालयों की संख्या	अनुमानित राशि प्रति महाविद्यालय	अनुमानित राशि (करोड में)
1	एनर्जी ऑडिट	25	75,000/-	0.19
2	सेनेटरी नैपकिन इन्सिनरेटर	25	40,000/-	0.10
3	सेनेटरी नैपकिन वेंडिंग मशीन	25	25,000/-	0.06
4	वाटर कूलर तथा आर.ओ. (प्रतिमहाविद्यालय - 2)	25	2,00,000/-	0.50
कुल राशि रु.				0.85

शर्तें -

1. मध्यप्रदेश भण्डार क्रय नियम तथा सेवा उपार्जन नियम 2015, एवं उसके पश्चात् समय-समय पर हुए संशोधनों का पालन करते हुए क्रय किया जावे ।
2. क्रय की जाने वाली सामग्री गुणवत्तापूर्ण, आधुनिक, उच्च स्तरीय एवं तकनीकी समिति द्वारा तय मापदंडों के अनुरूप हो ।
3. एनर्जी ऑडिट एजेंसी का चयन, स्कोप ऑफ वर्क, पेमेंट शेड्यूल आदि संलग्न टी.ओ.आर. के अनुसार निर्धारित नियमों के तहत करना सुनिश्चित करें ।
4. एनर्जी ऑडिट रिपोर्ट प्राप्त होने के पश्चात् 15 दिवस में अपने अभिमत के साथ प्रतिवेदन अधोहस्ताक्षरकर्ता को भेजना सुनिश्चित किया जावे ।
5. क्रय संबंधी कार्यवाही में किसी भी तरह की अनियमितता आने पर संबंधित समिति एवं संस्था प्रमुख जिम्मेदार होंगे ।
6. योजना के अंतर्गत कार्य के प्रगति की समीक्षा एवं मोनिटरिंग भी सुनिश्चित की जाये ताकि परियोजना में विलम्ब न हो ।

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7. महाविद्यालय द्वारा सामग्री प्राप्त होने के पश्चात् एक माह के भीतर उपयोग करना आवश्यक होगा। क्रय किये गये उपकरणों/सामग्री का उपयोग एक माह के भीतर करने का दायित्व संबंधित प्राचार्य का होगा।
8. सामग्री/ऑडिट एजेंसी द्वारा प्रतिवेदन प्रस्तुत होने के पश्चात् 15 दिवस में नियमानुसार भुगतान सुनिश्चित किया जावे।
9. सामग्री का क्रय, क्रय प्रक्रिया, स्वीकृति, अभिलेख संधारण आदि के संबंध में शासन के समस्त नियमों का पालन महाविद्यालय द्वारा किया जावे। प्राप्त सामग्री आदि की गुणवत्ता का परीक्षण कराया जावे।

(मुकेश कुमार शुक्ल)
6/6/2020
आयुक्त

उच्च शिक्षा

भोपाल, दिनांक 06/06/2020

पृ.क्र. 633/वि.बै.परि./2020
प्रतिलिपि-

1. विशेष सहायक, माननीय मंत्रीजी की ओर सूचनार्थ प्रेषित।
2. निज सहायक, प्रमुख सचिव, मध्यप्रदेश शासन, उच्च शिक्षा विभाग।
3. महालेखाकार, ग्वालियर, मध्यप्रदेश।
4. वित्त नियंत्रक, रूसा/विश्व बैंक परियोजना की ओर सूचनार्थ।
5. संबंधित क्षेत्रीय अतिरिक्त संचालक, उच्च शिक्षा की ओर सूचनार्थ प्रेषित।
6. समस्त संबंधित कोषालय/ उपकोषालय अधिकारी, मध्यप्रदेश की ओर सूचनार्थ प्रेषित।

(आयुक्त)
6/6/2020
उच्च शिक्षा

S.N.	Code	College Name	Energy Audit	Sanitary Napkin Incinerator	Sanitary Napkin Vending Machine	Water Cooler with RO system	Total Amount
1	2414	Govt College Pansemal, Badwani	75000	40000	25000	200000	340000
2	2911	Govt College Jawarnagar, sehore	75000	40000	25000	200000	340000
3	1416	Govt College manpur, Umariya	75000	40000	25000	200000	340000
4	2112	Govt College Pandhana, Khandwa	75000	40000	25000	200000	340000
5	1415	Govt College Chandia, Umariya	75000	40000	25000	200000	340000
6	1016	Govt College Malthon, Sagar	75000	40000	25000	200000	340000
7	205	Govt College Alampur, Bhind	75000	40000	25000	200000	340000
8	1014	Govt College Kesli, Sagar	75000	40000	25000	200000	340000
9	808	Govt College Chandla, Chhatarpur	75000	40000	25000	200000	340000
10	2214	Govt College Bagh, Dhar	75000	40000	25000	200000	340000
11	810	Govt Naveen College, Nawgoan	75000	40000	25000	200000	340000
12	1815	Govt Law College, Ujjain	75000	40000	25000	200000	340000
13	909	Govt College Gunnor, Panna	75000	40000	25000	200000	340000
14	3509	Govt College Gadasarai, Dindori	75000	40000	25000	200000	340000
15	404	Govt College Indergarh, Datia	75000	40000	25000	200000	340000
16	2012	Govt Science College, Dewas	75000	40000	25000	200000	340000
17	2011	Govt Law College, Dewas	75000	40000	25000	200000	340000
18	2910	Govt College Ladkui, Sehore	75000	40000	25000	200000	340000
19	1708	Govt College Tal, Ratlam	75000	40000	25000	200000	340000
20	1612	Govt College Sitamau, Mandsaur	75000	40000	25000	200000	340000
21	107	Govt Law College Morena	75000	40000	25000	200000	340000
22	1311	Govt Law College, Rewa	75000	40000	25000	200000	340000
23	1207	Govt College Jaitwara, Satna	75000	40000	25000	200000	340000
24	1313	Govt College Mangawan, Rewa	75000	40000	25000	200000	340000
25	1414	Govt College Bijuri, Anooppur	75000	40000	25000	200000	340000
Total			1875000	1000000	625000	5000000	8500000

Terms of Reference (ToR)

Hiring an Agency for Energy Audit

Title: Selection of Consultant/ Agency for Energy Audit at Colleges

Project: Madhya Pradesh Higher Education Quality Improvement Project – College Energy Audit

Location: ----- Name of College and address

Type of Contract – Individual Contract

Language Required – English / Hindi

Indicative Starting Date --: Within 5 days of Agreement

Duration of Contract: 1 Month

1. Introduction

The Madhya Pradesh higher Education Quality Improvement Project (World Bank Funded) College Environment Energy Audit has for its goal the reduction in the annual growth rate of Greenhouse Gas and Energy Consumptions. The project objective is the improvement of the energy utilization efficiency in the college buildings, by promoting the energy conserving design of new buildings and by improving the energy utilization efficiency in the operation of existing building. The realization of this objective will be facilitated through the removal of barriers to the uptake of building energy efficiency technologies, systems, and practices.

In support of the work required to develop a specific energy management guideline required, an evaluation of various energy consuming operations and procedures to determine energy saving opportunities need to be carried out. Energy audits of representative government buildings/facilities will be conducted to establish the baseline energy utilization performance. Moreover, the audits will determine and assess any wasteful as well as energy conserving practices, operations and procedures.

The Energy Audit provides the vital information base for overall energy conservation program covering essentially energy utilization analysis and evaluation of energy conservation measures. It aims, Identifying the quality and cost of various energy inputs.

At a particular level, among the major benefits of doing an energy audit are: It helps you to lower energy bills. It helps you to increase the life span of the equipment in your facility.

2. Scope of Work

The primary job scope is to Energy Audits in a college, in order to identify the current status of energy performance of the college buildings, advice on potential cost-efficient measures to improve it. The agency will be required to:

- 1. Review the existing operational characteristics of the building**
- 2. Review existing documentation and management practice**

The review should cover at a minimum:

- Building energy intensity
- Fuel sources
- Maintenance contracts

- Building energy management policies (if any)
 - Maintenance reports
 - Organization chart
 - Maintenance budgets
 - Utility bills
 - Building Automation System (if any) especially on monitoring of electricity consumption
3. **Detailed inspection of site and energy audit**
 4. **Formulation of Energy audit report**
 5. **For renewable Energy survey**
 - a. Detailed study & observations of all places for renewable energy utilisation in the campus. Detailed analysis of all those equipment's of load requirements.
 - b. Preparation of detailed survey report.

3. OBJECTIVES:

- To realize savings in expenditure for energy saving and minimization of wastage.
- To set realistic targets for renewable energy utilisation plan in the campus

4. Expected Outputs

The report should address at a minimum the following (where possible):

- a. Calculation of existing building energy intensity
- b. Inventory of high impact energy consuming equipment (like LED, LCD, Bulb etc.)
- c. Review of purchased fuels sources
- d. Review of utility bills and tariffs imposed
- e. Review of operational procedures and constraints
- f. Review of maintenance contracts
- g. Review of energy policies
- h. Review of maintenance reports
- i. Review of organization chart
- j. Review of maintenance budgets
- k. Annual power requirement met by renewable energy sources.
- l. Percentage of annual power requirement of the Institution met by the renewable energy sources (Current Year Data)
- m. Total Power requirement
- n. Annual Lighting power requirement through LED bulbs and other energy severes.
- o. Recommendations of no/low, medium and investment grade measures.
- p. Potential energy saving s including amount of GHG reduction.
 - Air conditioning system (fan coils, air handling units, pumps, water temperatures, coefficient of performance, temperature, carbon dioxide levels, relative humidity levels and air change)
 - Boilers or hot water systems (flue gas, insulation and steam)
 - Lighting (operating schedules, zoning, lux levels, power densities)
 - Building automation system (operational characteristics, maintenance requirements and accuracy)
- q. Small power or plug loads
- r. Lifts and escalators (operating schedule, harmonics, motors)

- s. Electric supply and distribution (distribution profile, harmonics, power quality, power factor, maximum demand)
- t. Reduction of overall energy consumption by a minimum of 20% based on 2017 consumption
- u. Suggestions /Recommendations for Replacement of inefficient equipment where necessary, Installation of an energy management system, Training of staff to manage energy systems, Upgrading of the building infrastructure, etc

5. Terms of Payment.

The fee is payable upon Submission of Energy Audit report within 15 days and acceptance of the Report.

6. Essential and Necessary Criteria for hiring of Consultant /Agency

- a. Energy Audit Survey should be done by Energy Auditor who should be empanelled with Bureau of Energy Efficiency, Ministry of Power Govt. of India. / MP Urja Vikas Nigam Ltd Bhopal.
- b. Consultant/ Agency to submit the Certification of Energy Auditors, certificate from a recognized professional body, certification to a relevant energy standard
- c. Consultant/ Agency should have prior experience of energy audit/energy survey/solar energy survey in Madhya Pradesh Higher Education or State Govt. or central or Public Sector Units.
- d. Consultant/ Agency should have energy audit in any state or central or Public Sector Units, or Government Department or Govt. Educational Institutions or Municipal Corporation and Minimum 5 works during the last 5 years, work completion certificates to be submitted
- e. The Consultant/ Agency **should not be black listed** by State Government of Madhya Pradesh, Government of India or any of its agencies
- f. The Consultant/ Agency should have valid GST registration of firm
- g. No Deviations from terms and conditions mentioned in bid document and mandatory compliance of all statutory liabilities and other terms and conditions as specified in this bid document.