



Bhubaneswar Development Authority

Akash Shova Building, Sachivalaya Marg
Bhubaneswar-751001, Odisha, India

Notice No.- 11478/BDA

Date: 09/05/2017

INVITATION TO PARTICIPATE IN THE VENDORS MEET ON ENERGY EFFICIENT BUILDING MATERIALS/TECHNOLOGIES

In order to implement Odisha Energy Conservation Building Code (OECBC) in the non-residential buildings in Odisha under EU led bilateral cooperation programme through BDA, a Vendors Meet is being organized by BDA on 22nd May 2017 at Conference Hall, Bhubaneswar Municipal Corporation, Bhubaneswar to assess the availability of energy efficient materials/technologies (in and around Odisha) as per ECBC requirements.

Interested vendors are requested to give a confirmation mail along with the details of their product & technology. Companies may nominate maximum 2 persons for the Vendors Meet. Further details of the meet and the list of ECBC compliant products/technology categories can be downloaded from <http://bdabbsr.in>

Contact details: ECBC-Cell BDA, Email id: pratyasha.tripathy@in.pwc.com;
Mobile No. +91-7855974445

S/d

Secretary

Bhubaneswar Development Authority



Invitation to participate in the Vendor Meet to assess the availability of building materials and technologies in Odisha as per Energy Conservation Building Code (ECBC) requirement

In India, building sector (residential and commercial) constitutes 31% of total electricity consumption. Residential sector constitutes 72% and commercial buildings constitute 22% of total electricity consumption in building sector. Rapid urbanization has led to an increase in the energy consumption in building sector and it has been projected that building sector will grow at a rate of 10% in the future.

The materials/technologies required for the construction of a building plays an important role in overall energy performance of the building during its construction and operation. It has been well demonstrated that there exist an energy saving potential of 40-60% in new buildings in comparison to conventional buildings by adopting efficient design, construction and operating practices as per available building codes, standards and rating systems in India.

As per estimates, 70% of the buildings are yet to be built in India. Coupling this fact with the rapid urbanization and growth rate in building sector, it becomes evident that it is very important to focus on new buildings in order to combat the ever increasing gap between electricity demand and supply. In order to improve the energy performance of new buildings, Bureau of Energy Efficiency (BEE) had launched Energy Conservation Building Code (ECBC) in the year 2007. ECBC deals with energy efficiency in a new building by defining efficiency standards for building envelop/materials, lighting systems, air conditioning systems and electrical systems. Energy Conservation Building Code (ECBC) has been amended and notified in Odisha since in Jul'2011. The code is applicable for new commercial buildings with connected load of 100 kW or contract demand of 120 KVA or more.

The energy performance of a building envelope in ECBC is defined by the thermal performance (U-value) of a wall, roof and glass for different climatic zones in India. The wall and roof for a building comprises of different components and their overall energy performance of a wall and roof relies on the performance of its individual component. In order to define the thermal performance of individual elements, it is important to first understand the availability and their technical specifications in different regions in India.

To pace the implementation of OECBC in Odisha, BDA intends to understand availability of different building materials/technologies in the state. All the vendors of building materials and technologies are requested to participate and provide their products information as per the attached questionnaire.

A vendor meet is also organized on **22nd May 2017 at Conference Hall, Bhubaneswar Municipal Corporation, Bhubaneswar, Odisha** to discuss the requirements at state level and understand manufacturer's readiness to provide materials/technologies as per ECBC requirements.

This vendor meet is organized under the project "Technical assistance for the implementation of the Sector Policy Clean Energy Cooperation with India (CECI): Legal and policy support to the development and implementation of energy efficiency legislation for the building sector in India (ACE: E2). The project is funded by European Union and is executed by a consortium comprising SACO as the lead contractor, Exergia SA as the implementing party and PricewaterhouseCoopers India as local contractors.

All vendors/manufactures/distributors working in the building sector in & around Odisha are invited to participate in the proposed meet. Interested participants are requested to fill up the attached annexure and send it to **Email - pratyasha.tripathy@in.pwc.com**. The participants are also requested to confirm their participation along with name of the professional who will represent the concerned firm. For any clarifications, you may contact.

NOTE: Odisha Energy Conservation Building Code (OECBC) document along with the details of this Invitation & List of ECBC Compliant Building Materials/ Products are available in the website - www.bdabbsr.in

The different categories of building materials and technologies covered as per ECBC requirement is mentioned below

S.No	Building envelope	Electrical & mechanical systems
1	<p>Wall materials</p> <ul style="list-style-type: none"> • AAC Blocks • Hollow clay blocks • Fly ash bricks • Cavity wall • Others <p>Roof materials</p> <ul style="list-style-type: none"> • RCC • Brick coba • Others 	<p>Efficient lighting systems</p> <ul style="list-style-type: none"> • LED • Lighting Controls • Occupancy sensors • Daylight sensors • Astronomical timer switch
2	<p>Wall and roof insulation materials</p> <ul style="list-style-type: none"> • XPS • EPS • Glass wool • Mineral wool • PUF 	<p>Air conditioning</p> <ul style="list-style-type: none"> • High efficient chillers (Centrifugal, Screw, etc.) • Water cooled as well as air cooled chillers • Economizers • Variable refrigerant flow

	<ul style="list-style-type: none"> • Others 	<ul style="list-style-type: none"> • VFD's
3	Glass <ul style="list-style-type: none"> • Single glaze glass • Double glaze glass • Glass with films • Others 	Electricity distribution system <ul style="list-style-type: none"> • Transformers (Dry and oil type) • Motors • Capacitor banks • Metering system
3	Insulated Pre-fabricated wall and roof panels	Ceiling fans
4	External movable blinds for shading of glass façade	Service hot water
5	Paints <ul style="list-style-type: none"> • Low VOC paints • Paints with high reflectance 	
5	Other innovative technologies like green wall, cool roof, low energy cooling systems	

Creation of database of ECBC compliant materials and technologies

Data collection template for manufacturer/distributor

S.No.	Description	Information
1.	Whether you a manufacturer/distributor	
2.	Name of the company	
3.	Name of the authorized person	
4.	Designation of the authorized person	
5.	Contact details of the authorized person	
	Address	
	Phone	
	Mobile	
	Fax	
	Email	
	Company website	
6.	Registration of the company (A copy of registration certificate is required)	
7.	Registration under Shops and Establishment (or any other local government license)	
8.	Manufacturing set ups in India (Location and in-house capacity)	
9.	Manufacturing capacity (supported with documentary evidence)	
10.	Any manufacturing set up in Odisha if yes then answer the following Manufacturing capacity Manufacturing location	
11.	Number of distributor in Odisha	
12.	Capacity of distributors in Odisha	
13.	Whether the product is imported. If yes, then please answer following Country of import Quantity of import	
14.	Technical brochure including detail specifications	
15.	Any registration with BEE, LEED, IGBC or GRIHA Council	
16.	Cost per unit (INR)	
17.	Testing report	
18.	Any challenges, gaps and barriers faced during the sale of energy efficiency material/technology and any support required from the Govt to increase the market uptake	