

# **EXPRESSION OF INTEREST**

**FOR**

**Design Consultancy for setting up of  
Clean Rooms and related Infrastructure  
for Advanced Facility for  
Nano-Electronics at CSIR-CEERI, Pilani**

**Section: 1**

**Eoi Form 1: Expression of Interest Submission Form  
(To be submitted on the letter head of the bidder)**

**To:**

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XXXXXXXXXXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

**Address:** XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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**Subject: Submission of Expression of Interest (EOI) for “Design Consultancy for setting up of Clean Rooms and related Infrastructure for Advanced Facility for Nano-Electronics at CSIR-CEERI, Pilani”**

Dear Sir/ Madam,

We, the undersigned, offer to provide consultancy services in accordance with your Expression of Interest advertisement in ..... dated .....

We hereby declare that all the information and statements made in this Expression of Interest are true and accept that any misinterpretation contained in it may lead to our disqualification. We agree to abide by all the terms and conditions of the EOI document.

We understand that CSIR-CEERI, Pilani reserves the right to reject any or all applications (EOIs) without assigning any reason thereof.

Yours sincerely,

Authorised Signature (in full & initials)

Name and Title of Signatory:

Name of Firm:

Address:

Location:

Date:

**Section: 2**

No. CDC/CEERI/CR/EOI  
Dated : 8<sup>th</sup> March, 2013

**Consultancy Development Centre (CDC)  
(An Autonomous Institution of DSIR, Ministry of S&T, Govt. of India)**

**Expression of Interest for Design Consultancy for setting up of Clean Rooms and related  
Infrastructure for Advanced Facility for Nano-Electronics at CSIR-CEERI, Pilani**

**1. Introduction:**

CSIR-Central Electronics Engineering Research Institute (CSIR-CEERI), Pilani, is a pioneer research institute in the country and a constituent laboratory of CSIR, New Delhi, is working for the growth of electronics in the country and undertaking R&D in Electronics. CSIR-CEERI intends to hire design consultancy services (including architecting) for setting up of Clean room of ISO Class 2 (Class 100, Area 100 sq.ft.), ISO Class 3 (Class 1000, Area 1000 sq.ft.), ISO Class 4 (Class 10000, Area 1000 sq.ft.) required for Nano Electronics facility and associated utilities and their housing (Area 2000 sq.ft.) and Device testing Lab (Area 2000 sq.ft.). The proposed clean rooms shall be built in the existing premises of CSIR-CEERI, Pilani at an approximate cost of Rs. 5.00 crore.

Consultancy Development Centre (CDC) invites Expression of Interest (EOI) on behalf of CSIR-CEERI, Pilani for hiring Consultancy Services for design (including architecting) of clean rooms and related Infrastructure for Advanced Facility for Nano-Electronics with associated utilities, their housing and device testing laboratory at CSIR-CEERI, Pilani as per details brought out below:

**2. Brief scope of work:**

The Scope of work shall include, but not limited to, the following:

Design and architecting of clean rooms using suitable softwares, supported by detailed engineering design documents, construction drawing and bill of quantities/ material with preferred makes; utility layouts for DI water, compressed air, gases, chilled water, electricity, air-conditioning, etc.; illumination and power distribution, HVAC system design including zoning and equipment layout; fire and safety system design and participation in technical evaluation of offers received for construction of clean rooms. The scope shall also include Construction Supervision, Management Services and testing of clean rooms as per the desired class.

Targeted time schedule for the design submission shall be **three months** from date of order.

**3. Pre-qualification criteria of bidders:**

Following are the desired qualifying requirements for the firms, who intend to participate in the bidding:

1. The firms should be an established agency having adequate experience in design of similar class and size of clean rooms during the last ten years (Evidence supported by orders and performance certificates)
2. The firms should have a team of qualified and experienced personnel for carrying out the design of clean rooms (supported by qualification and experience certificates) and also a well-established office set up with adequate computational and communication facilities, etc.

#### **4. Submission of EOI:**

Interested firms meeting the above eligibility criteria may submit their proposal to **Head (Projects), Consultancy Development Centre**, 2nd Floor, Core IV-B, India Habitat Centre, Lodhi Road, New Delhi – 110003 on or before **1<sup>st</sup> April, 2013 by 1500 hrs.** along with copies of all relevant documents including the following:

1. Audited balance sheet for the last three years
2. Brochure with details of the organization and profile, set up and infrastructure with list of projects completed and present assignments in hand
3. Performance certificates from clients in respect of similar projects as stipulated in the bidder qualification above
4. Qualification and experience details of the manpower
5. Brief about the proposed set up and schedule of activities in respect of the subject work
6. The application with incomplete EOI shall not be considered

#### **5. Criteria for shortlisting of the firms**

The selection process would be of following two steps:

Step 1 : Shortlisting of consultant based on scrutiny of documents submitted by the applicant viz-a-viz pre-qualification criteria

Step 2 : Evaluation of the technical competency and also the financial capability during the presentation by the representative of the firm. This will be carried out by a technical evaluation committee (TEC). If necessary, TEC will inspect the projects already carried out by the firms, CEERI, Pilani reserves the right to reject any or all applications without assigning any reason thereof.

#### **6. Indicative Clean Room Areas for various classes**

Please refer Annexure I.

#### **7. Indicative List of Tools in the Clean Room**

Please refer Annexure II.

The Eoi may be submitted at the following address by post only.

Head (Projects)  
Consultancy Development Centre  
Zone IV B, 2<sup>nd</sup> Floor  
India Habitat Centre, Lodi Road  
New Delhi – 110 003

## Area for Classes – Annexure I

**Estimated clean room areas for various classes:**

<b>S. No.</b>	<b>Building/ Room Type</b>	<b>Area (in ft<sup>2</sup>)</b>
1	Class-100	100
2	Class-1,000	1,000
3	Class-10,000	1,000
4	Utilities and their housing	2,000
5	Device testing Lab	2,000

## List of Tools - Annexure II

### Estimated tools in the clean rooms:

S. No.	Proposed Equipments	Clean Room Type
1	Electron Beam Lithography	100
2	RIE for dielectrics ( <i>Future plan</i> )	1,000/ 10,000
3	RIE for metals ( <i>Future plan</i> )	1,000/ 10,000
4	FESEM ( <i>Future plan</i> )	10,000
5	FIB ( <i>Future plan</i> )	10,000
6	CDSEM ( <i>Future plan</i> )	1,000
7	Wet benches (3 Nos.)	1,000
8	Wafer dryer	1,000
9	Diffusion/ Oxidation/ Annealing/ Alloying furnaces (4" $\Phi$ ) ( <i>Future plan</i> )	1,000/ 10,000
10	ALD ( <i>Future plan</i> )	1,000/ 10,000
11	Optical microscopes (2-3 No.)	1,000