



Date: 0 0 0 0 .

NATIONAL POWER TRAINING INSTITUTE
(Ministry of Power, Govt. of India)
An ISO 9001:2000 & ISO 14001 Organization

NPTI Complex, Sector – 33
Faridabad - 121003 (Haryana)

Tele fax: +91 129-2272210, 2275475

Website: www.npti.in

e-mail: skr1503@gmail.com

Expression of Interest (EOI)

For

**Supply and Installation of “Operator Training Simulator of
660/800MW Super Critical Technology based Pulverized
Coal Fired Power Plant”**

At

**National Power Training Institute, Faridabad-121003
(Haryana)**

1. ABOUT NPTI

National Power Training Institute (NPTI) is an autonomous institute under Ministry of Power, Govt. of India, and is National Apex Body for Human Resource Development in Power Sector for the past four decades. NPTI with total strength of 379 personnel which includes 127 officers is having its Corporate Office at Faridabad and operates on an all India basis through its nine Institutes in different zones of the country as per details below:-

1. NPTI, Corporate Office, Faridabad.
2. NPTI, (Northern Region), Badarpur, New Delhi.
3. NPTI, (Hydro Power Training Centre), Nangal.
4. NPTI, (Power System Training Institute), Bangalore.
5. NPTI, (Hot Line Training Centre), Bangalore.
6. NPTI, (Southern Region), Neyveli.
7. NPTI, (Eastern Region), Durgapur.
8. NPTI, (North Eastern Region), Guwahati.
9. NPTI, (Western Region), Nagpur.

2. POWER TRAINING SIMULATORS AT NPTI

The Institutes of NPTI are well equipped with Hi-Tech infrastructural facilities for conducting different courses on technical as well as management subjects covering the needs of Thermal, Hydro, Transmission & Distribution Systems, and Energy related fields of the Indian Power and allied Energy sectors. It has 500 MW Thermal Power Training Simulator at Faridabad Institute and 210 MW Thermal Power Training Simulator at Nagpur and Badarpur Institutes for imparting specialized skills to operation personnel across the country. Also a 430 MW (2x143 MW Gas Turbine and 1 x 144 MW Steam Turbines) Full Scope Combined Cycle Gas Turbine Replica Simulator has been commissioned at NPTI Corporate Office, Faridabad. A High fidelity Load Dispatch Operator Simulator for the National Grid installed at PSTI, Bangalore and a Hydro power training simulator installed at Hydro Power Training Centre, Nangal are meeting the requirements of power system training and hydro power unit operation respectively.

3. ABOUT THE PROPOSAL

NPTI is desirous of setting up “**Operator Training Simulator**” of **660/800MW Super Critical Technology based Pulverized Coal Fired Power Plant Unit** . The project will be commissioned at NPTI Faridabad with the objective to play a vital role for training and development of

engineers for operation of Super Critical Technology based power plants.

Expression of Interest is invited from interested reputed developers, suppliers having prior experience of developing and supplying the Operator Training Simulators preferably of large capacity coal based power plants with the following requirements:

- a. The reference plant for collection of data to be identified in India by the supplier/bidder.
- b. The collection of entire simulation data as required in the scope of simulation shall be the responsibility of supplier/bidder

Such offers should contain the following information in enclosed formats:

- 3.1 The experience in completion of similar nature of works in past with relevant details and documents such as the copy of work orders with detailed bill of quantity and performance certificates from the users after commissioning.
- 3.2 Availability of plants and equipments required for the said work. The details of such equipments and plant with specifications.
- 3.3 Financial capability in the form of financial turnover and availability of working capital. The Balance sheet of previous financial years.
- 3.4 Technical expertise and availability of skilled manpower for software/Models development with details.
- 3.5 Offer of warranty and operation & maintenance contract after expiry warranty period may also be indicated.

4. **SUBMISSION OF PROPOSAL**

The proposal shall be submitted in one original and two photocopies. The proposal shall also be submitted in CD in soft copy with various application forms in Word format, wherever some photocopies are enclosed with hard copy of proposal, in that case such documents may be given in CD in pdf format.

The proposal should include the following:

- 4.1 Expression of Interest Submission Form as per **Form-1**.
- 4.2 Supporting documents in respect of Average Annual Financial Turnover of the Company as per **Form-2**.

- 4.3 Details of present business activities of the Company, List of simulators developed for thermal power plants and orders in hand **Form-3.**
- 4.4 Declaration of Undertaking as per **Form-4.**
- 4.5 Brief Description of Proposal of Applicant for Proposed Assignment as per **Form-5.**
5. NPTI reserves the right, without prejudice to any other remedies, to reject the proposal forthwith if the applicant has engaged in corrupt or fraudulent practices or is found to have misrepresented the facts or has provided false information/documentation.
6. NPTI reserves the right to accept/reject any or all the offers/proposals without assigning any reason thereof.
7. **SUBMISSION OF PROPOSALS**

The EOI should be submitted to the following address by post or in person
:

**Director (Technical & Projects),
NATIONAL POWER TRAINING INSTITUTE
NPTI Complex, Sector –33, Faridabad – 121 003, INDIA.
Tel: +91 129-2272210, 2275475**

The details are also available at web site www.npti.in

The last date for submission of expression of interest is **23/09/2011** upto **14:30hrs.** and will be opened on the same day at **15:00 hrs.** in due presence of bidders who choose to be present



APPLICATION FORMS

Form 1	Expression of Interest Submission Form
Form 2	Average annual Financial Turnovers
Form 3	Details of Present Business Activities
Form 4	Declaration of Undertaking
Form 5	Proposal of Applicant for Proposed Assignment



FORM 1

EXPRESSION OF INTEREST SUBMISSION FORM

[Date]

From: [Name, address and telephone nos., e-mails of the applicant]

To
The Director (Technical & Projects)
NATIONAL POWER TRAINING INSTITUTE
NPTI Complex, Sector . 33, Faridabad . 121 003, INDIA.
Telefax: +91 129 2272210

Sir,

Subject: Request for Expression of Interest for Supply and Installation of Operator Training Simulator of 660/800MW Super Critical Technology based Pulverized Coal Fired Power Plant

We, the undersigned, are submitting our proposal for Request for Expression of Interest for setting up of 660/800 MW Power Plant Simulator+at National Power Training Institute, Faridabad-121003.

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation or false information / documentation contained in it may lead to our disqualification.

We understand, you are not bound to accept any Proposal you receive.

Yours sincerely

Authorized Signature [In full and initials]

Name and Title of Signatory: o o o o o o o .

Name of Applicant:

Address:o o o o o o o o o o ..
o o o o o o o o o o o

Telephone (Office): o o o o o o o o o o ..

Telephone (Mobile): o o o o o o o o o o ..

Fax: o o o o o o o o o o ..

Email: o o o o o o o o o o ..

FORM 2

AVERAGE ANNUAL FINANCIAL TURNOVER

1	Name of the Company	
2	Address	
3	Year of Establishment	
4	Total Software/model Developers for Simulator development	
5	Annual Turnover (last 3 financial years)	
5.1	Year 2010-11 (Rs. Lakhs / \$ Million)	
5.2	Year 2009-10 (Rs. Lakhs/ \$ Million)	
5.3	Year 2008-09 (Rs. Lakhs / \$ Million)	
6	Audited Annual Accounts (last 3 financial years)	
6.1	2009-10 Whether Enclosed (Yes/No)	
6.2	2008-09 Whether Enclosed (Yes/No)	
6.3	2007-08 Whether Enclosed (Yes/No)	

Signature of Applicant: 0 0 0 0 0 0

Full Name: 0 0 0 0 0 0 0 0 0 0 0 0

Address: 0 0 0 0 0 0 0 0 0 0 0 0

0 0 0 0 0 0 0 0 0 0 0 0



FORM 3

DETAILS OF PRESENT BUSINESS ACTIVITIES OF COMPANY

1. **Present Business Activities of Company:**
2. **Details of Real Replica Simulators Commissioned of Super Critical / Sub critical Technologies Pulverized coal power plants** (Please use separate tables for each simulator supplied)

2.1	Client's Detail	
2.1.1	Name of client	
2.1.2	Address of the Client	
2.1.3	Name, Designation and Address of Contact Person	
2.1.4	Contact No.	
2.1.5	Fax No.	
2.1.6	E mail ID	
2.2	Detail of Project for which Simulator is Replicated	
2.2.1	Unit Capacity or other significant Identity of Simulated Plant	
2.3	Detail of Simulator commissioned	
2.3.1	Type of Simulator	Super Critical/Sub Critical (Strike out which is not applicable)
2.3.2	Whether the Simulator is Panel or DCS control based	

2.3.3	Date of Contract Order of Supply	
2.3.4	Date of Commissioning and Simulator Ready for Training(RFT)	
2.3.5	Value of Order (in Indian Rupees)	
2.3.6	Main Features of Simulator	
2.3.7	Other Pertinent Information	

3. Detail of Generic Commissioned Simulators, developed and supplied for Coal fired power plants (Please use separate tables for each simulator supplied)

3.1	Client's Detail	
3.1.1	Name of client	
3.1.2	Address of the Client	
3.1.3	Name of Contact Person	
3.1.4	Address	

3.1.5	Contact No.	
3.1.6	Fax No.	
3.1.7	E mail ID	
3.2	Details of Simulator	
3.2.1	Type of Simulator	Super Critical / Sub Critical (Strike out which is not applicable)
3.2.2	Whether the Simulator is Panel or DCS control based	
3.2.3	Approach for Collection of Data for Simulation	
3.2.4	Validation of Data used for simulation	
3.2.5	Date of Contract Order of Supply	
3.2.6	Date of Commissioning and Simulator Ready for Training(RFT)	
3.2.7	Value of Order (in Indian Rupees)	
3.2.8	Main Features of Simulator	
3.2.9	Other Pertinent Information	

4. Detail of Simulators not commissioned but order received

4.1	Client's Detail	
4.1.1	Name of client	
4.1.2	Address of the Client	
4.1.3	Name of Contact Person	
4.1.4	Address	
4.1.5	Contact No.	
4.1.6	Fax No.	
4.1.7	E mail ID	
4.2	Details of Simulator	
4.2.1	Type of Simulator	Super Critical / Sub Critical (Strike out which is not applicable)
4.2.2	Whether the simulator is Real Replica or Generic	Real Replica / Generic (Strike out which is not applicable)
4.2.3	Unit Capacity or other significant Identity of Simulated Plant (If Replica)	
4.2.4	Brief Description of Boiler, Turbine, Generator & Auxiliaries (If Replica)	
4.2.5	Approach for Collection of Data for Simulation (If Generic)	
4.2.6	Validation of Data used for simulation (If Generic)	
4.2.7	Whether the Simulator is Panel or DCS control based	



4.2.8	Date of Contract Order of Supply	
4.2.9	Proposed Date of Commissioning	
4.2.10	Value of Order (in Indian Rupees)	
4.2.11	Main Features of Simulator	
4.2.12	Other Pertinent Information	

Signature of Applicant _____

Full Name _____

Address _____



FORM 4
DECLARATION OF UNDERTAKING

[Date]

From: [Name, address and telephone nos. of the Applicant]

To

The Director (Technical & Projects)
NATIONAL POWER TRAINING INSTITUTE
NPTI Complex, Sector . 33, Faridabad . 121 003, INDIA.
Telefax: +91129-2272210

Subject: Request for Expression of Interest for Supply and Installation of “Operator Training Simulator” of 660/800MW Super Critical Technology based Pulverized Coal Fired Power Plant in India

Sir,

We underscore the importance of a free, fair and competitive process that precludes fraudulent use. In this respect we have neither offered nor granted, directly or indirectly, any inadmissible advantages to any public servants or other persons in connection with our proposal, nor will we offer or grant any such incentives or conditions in the present selection process.

We also underscore the importance of adhering to minimum social standards ("Core Labour Standards") in the implementation of the work. We undertake to comply with the Core Labour Standards ratified by the Government of India.

We will inform our staff about their respective obligations and about their obligation to fulfill this declaration of undertaking and to obey the laws of the Government of India.

(Place) , this day of

Name of Applicant _____

Signature _____

Address _____

Form 5

Proposal for Proposed Assignment

1	Name and Address of Bidder	
2	Detail of Consortium partner for the proposed supply if any	
3	Proposal for Assignment	
3.1	Company already has access to data of 800 MW super critical technology based power plant and can develop the simulator of same.	Yes/No (If yes please write brief of proposal in next column)
3.2	Company already has access to data of 660 MW super critical technology based power plant and can develop the simulator of same.	Yes/No (If yes please write brief of proposal in next column)
3.3	Company is in a position of identifying the reference plant of 800 MW and may get the data for simulation in future	Yes/No (If yes please write brief of proposal in next column)
3.4	Company is in a position of identifying the reference plant of 660 MW and may get the data for simulation in future	Yes/No (If yes please write brief of proposal in next column)
3.5	Company can supply generic simulator of 800 MW which can further be developed as true replica on identification of the reference plant.	Yes/No (If yes please write brief of proposal in next column)
3.6	Company can supply generic simulator of 660 MW which can further be developed as true replica on identification of the reference plant.	Yes/No (If yes please write brief of proposal in next column)

3.7	Company can supply generic simulator of 800 MW (If yes, Please also furnish the source of data)	Yes/No (If yes please write brief of proposal in next column)	
3.8	Company can supply generic simulator of 660 MW (If yes, Please also furnish the source of data)	Yes/No (If yes please write brief of proposal in next column)	
4	If simulator is true replica, detail of BTG (Boiler, Turbine-Generator) combination for which Simulator is proposed.		
5	Detail of other BTG Combinations for which the simulator can be developed and commissioned		
6	Hardware Architecture of proposed Simulator		
7	Software Architecture and tools used for simulation		
8	Scope of Models for training including emergency plant operations		
9	Scope and features of Instructor Stations		
10	Brief Detail of DCS System		
11	Proposed List of Documents for Simulator development and Training		



12	Time Period required for commissioning of Simulator from Date of Order	
13	Other Pertinent Information	

 Authorized Signature with Company Seal [In full and initials]

Name and Title of Signatory: 0 0 0 0 0 0 0 .

Name of Applicant:

Address:0 0 0 0 0 0 0 0 0 0 ..
 0 0 0 0 0 0 0 0 0 0 0 0

Telephone (Office): 0 0 0 0 0 0 0 0 0 0 0 ..

Telephone (Mobile): 0 0 0 0 0 0 0 0 0 0 0 ..

Fax: 0 0 0 0 0 0 0 0 0 0 0 ..

Email: 0 0 0 0 0 0 0 0 0 0 0 ..