	<b>Power Sector- PEM Noida</b>  <b>Technical Pre-Qualification Requirement for Hydrogen Generation Plant package</b>  <b>(For Open/Global Tenders)</b>	<b>Package : Hydrogen generation plant</b>  <b>Project: 2 X 800MW NTPC Gaderwara STPS</b>  <b>Dept: MAUX</b>
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- A) Performance Certificate (along with copy of relevant purchase order) from the end-user for atleast two (different customers) successfully executed contracts. Hydrogen Generation Plant package should have been successfully in use for atleast two years in thermal power station unit or in a similar industry/application.

OR

The Supplier has been awarded repeat contracts for hydrogen generation plant by two same customers for the Hydrogen generation plant for similar industry / application after 2 years of commissioning or on regular basis after execution of 2 contracts.

- a) Design, engineering, manufacturing, supply, erection and commissioning of Hydrogen Generation Plant with minimum technical requirements listed below:


- 1) The plants shall be of unipolar or Bipolar design comprising of electrolyser and gas compressor with minimum capacity of 5 Nm<sup>3</sup>/hr per stream with guaranteed hydrogen purity to be maintained at gas manifolds at 99.9 %( min) and moisture content in hydrogen-0.05 gm/m<sup>3</sup> (max). Such plants must have been designed to the approval of CCE, Govt. of India.

- b) In case the bidder is not a manufacturer of Hydrogen Generation Plant , the bidder must have a collaboration/ joint venture or valid licensing agreement for design, engineering, manufacturing, supply, erection and commissioning of Hydrogen Generation Plant in India / abroad with manufacturer who meets the above requirements.

- c) The Bidders shall furnish following documents for assessing qualifications requirements:

- 1) Satisfactory Performance certificates from end user as outlined at s.no.A including salient features like year of commissioning, project name etc., date of issue of certificate and name/designation/stamp of the certificate issuer. Performance certificate shall indicate that the package commissioned is working satisfactorily for at least two years post it's commissioning as on date of bid opening.
- 2) Two sets of approved P&ID/Layout of Hydrogen Generation plant for minimum two nos. of executed projects.
- 3) Documents to be submitted for meeting the technical PQR requirements to be listed in enclosed format given below:

PREPARED BY			CHECKED & REVIEWED BY			APPROVED BY		
SR		25.10.2013	HK/SS/IP		25.10.2013	SKB/PK		25.10.2013
NAME	SIGNATURE	DATE	NAME	SIGNATURE	DATE	NAME	SIGNATURE	DATE

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#### 4) EXPERIENCE DETAIL FORMAT

S.NO.	DESCRIPTION OF PROJECT	BRIEF SCOPE OF WORK	P.O. REF. NO. & DATE	DATE OF COMPLETION AS PER P.O.	PERFORMANCE CERTIFICATE ENCLOSED (Y/N)	REMARKS
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- B) Supplier should be an engineering organization / manufacturer for the selected package dealing with the package on regular basis.
- C) Supplier to submit the following major documents:
- Supplier registration form duly filled in, (to be downloaded from [www.bhel.com](http://www.bhel.com) or [www.bhelpem.com](http://www.bhelpem.com) separate forms for Indian and Foreign suppliers), supported by credentials / documents mentioned therein. CST/VAT/PAN, factory license, pollution certificate etc. as applicable shall be attached. In case of document being in any other language than English, a certified English version needs to be attached.
  - Certificate of Incorporation from the registrar of companies/ partnership deed / Proprietorship documents etc. as applicable.
  - Experience details for 10 recently executed contracts/ evidence of continuity of business.
  - Indian suppliers need to submit the audited balance sheet for last 4 (3 years for Foreign suppliers) years to establish financial soundness.
  - Foreign supplier need to submit a report from a reputed third party business rating agency like Dun & Bradstreet, Credit reform etc.
- D) Agency agreement needs to be submitted by foreign supplier in case of associating with Indian entity.
- E) Suppliers to also apprise themselves with BHEL/PEM's (GCC) General Conditions of Contract Rev-05, available at unit website [www.bhelpem.com](http://www.bhelpem.com) and submit acceptance of the same for tenders and Supplier Evaluation, Approval & Review Procedure (SEARP) 2010 on company website [www.bhel.com](http://www.bhel.com) for enlistment process, format for registration etc.
- F) Suppliers should have the technological capability for communication/transmit through electronic media/ e-procurement/ RA process.
- G) In case of variance with respect to technical competency/ experience between General PQR and Technical PQR, the latter shall prevail.
- H) Mere submission of above documents does not entitle suppliers for enlistment or issue of tenders and the same shall be subject to BHEL scrutiny and / or physical survey of facilities.

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NAME	SIGNATURE	DATE	NAME	SIGNATURE	DATE	NAME	SIGNATURE	DATE