



**TITLE: SPECIFIC TECHNICAL PRE – QUALIFYING REQUIREMENTS (PQR)  
FOR SUBMITTING TECHNICAL OFFER FOR SUPPLY OF METAL  
EXPANSION BELLOWS FOR 2X800 MW GADARWARA STPP**

1. The present enquiry intends to procure Metal Expansion Bellows in following two categories (Refer detailed technical specification):
  - a) **CATEGORY-A:** Metal expansion bellows upto sizes 1100 NB (350 NB, 600 NB and 1100 NB.)
  - b) **CATEGORY-B:** Metal expansion bellows above size 1100 NB (size 2000 NB)
2. For “Category-A” item, the bidder should have designed, manufactured, tested, inspected and supplied metal expansion bellows with minimum size of 1100 NB (Hinged/Gimbal bellows) to fulfil specific technical prequalification requirement (PQR).
3. For “Category-B” item, the bidder should have designed, manufactured, tested, inspected and supplied metal expansion bellows with minimum size of 2000 NB (Hinged/Gimbal bellows) to fulfil specific technical prequalification requirement (PQR).
4. Technical assessment will be done separately for both “Category-A” and “Category-B” items on the basis of specific technical PQR as specified at point no. 2 & 3.
5. Technically eligible bidders for “Category-A” & “Category-B” shall be as follows:
  - a) Category-A: The bidder who meets the technical PQR of “Category-A” as specified at point no. 2.
  - b) Category-B: The bidder who meets the technical PQR of “Category-B” as specified at point no. 3.

It may also be noted that if bidder qualifies specific technical PQR for “Category-B” bellows i.e. 2000 NB size (Hinged /Gimbal bellows), then bidder automatically meets PQR for sizes specified in “Category-A” .The bidder need not to submit credentials for “Category-A”.
6. The bidders (who are not registered vendors of BHEL-PEM for this package) shall furnish following documents for assessing Bidder’s specific technical pre-qualification for “Category-A” & “Category-B” along with the technical offer:
  - a) Bidder’s experience list for this package in the enclosed format as Annexure-2
  - b) Product/ package should have been successfully in use for at least two years in power plant or having similar applications in other industries. For this the supplier has to submit either of following supporting documents:
    - i) Copy of minimum two performance certificates along with copy of related purchase order from different End-user or Customer specifying that the product is running successfully for 2 years from date of commissioning.



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- ii) Minimum two purchase orders (placed with a minimum gap of 2 years from date of supply of first order and placement of second order) from two different Customer or Purchaser. The supplier to submit relevant documents such as MDCC/MRC/LR copy or other supporting documents which confirms the successful execution and delivery of order.
  - iii) One performance certificate as per sl. No. (i) above and minimum two purchase orders (placed with a minimum gap of 2 years from date of supply of first order and placement of second order) from same Customer or Purchaser as per sl. No. (ii) above. It may be noted that performance certificate and purchase orders should be from different customers.
- c) Approved drawings, technical data sheets of which the bidder has furnished (under point no. 6b) the performance feedback/ purchase orders for reference purpose.
7. The bidder should have in-house facilities for carrying out all tests as per BHEL QP requirement, which is enclosed with the technical specification. In case the bidder does not have the above testing facilities, he shall have a permanent tie up for the testing with any Govt. approved lab or test house or third party inspection of TUV/Lloyd/BVQI etc.
8. The bidder shall have well established quality systems in the company and shall be able to demonstrate the implementation of same. ISO certification in this regard shall be considered for preference.
9. Technical PQR shall not be evaluated for PEM registered vendors without any technical limit & PEM registered vendors with technical limit but falling within enquiry technical scope. The bidders, who are already registered with BHEL-PEM with technical limit may also quote for items which fall outside their technical limit and for which they are not registered with BHEL-PEM. In this case, vendor to submit the documents mentioned above.

EXPERIENCE LIST

**EXPERIENCE LIST FOR ME BELLOWS PACKAGE  
ANNEXURE-2**

S.NO.	SIZE OF BELLOWS	TYPE OF BELLOWS	NO. OF BELLOWS	BELLOWS MATERIAL	TYPE OF WORKING FLUID	TEMP	PRESSURE	PROJECT NAME	CUSTOMER	PURCHASE ORDER	DATE OF PURCHASE ORDER PLACED (DD/MM/YY)	DATE OF SUPPLY (DD/MM/YY)	DATE OF COMMISSIONING (DD/MM/YY)	PERFORMANCE FEEDBACK CERTIFICATE* ENCLOSED (Y/N)
1		UNTIED												
2		UNTIED												
3		UNTIED												
4		UNTIED												
5		UNTIED												
6		UNTIED												
7		UNTIED												
8		UNTIED												
9		UNTIED												
10		UNTIED												
11		TIED LATERAL												
12		TIED LATERAL												
13		TIED LATERAL												
14		TIED LATERAL												
15		TIED LATERAL												
16		TIED LATERAL												
17		TIED LATERAL												
18		TIED LATERAL												
19		TIED LATERAL												
20		TIED LATERAL												
21		HINGED												
22		HINGED												
23		HINGED												
24		HINGED												
25		HINGED												
26		HINGED												
27		HINGED												
28		HINGED												
29		HINGED												
30		HINGED												
31		GIMBAL												
32		GIMBAL												
33		GIMBAL												
34		GIMBAL												
35		GIMBAL												
36		GIMBAL												
37		GIMBAL												
38		GIMBAL												
39		GIMBAL												
40		GIMBAL												

**NOTE:**  
 1)- PERFORMANCE CERTIFICATE SHOULD INCLUDE ALL THE DETAILS i.e. BELLOW TYPE, SIZE , DESIGN PARAMETERS (TEMP & PRESSURE) AND PURCHASE ORDER REFERENCE ALONG WITH YEAR OF COMMISSIONING.  
 2)- EACH TYPE OF BELLOWS (eg. GIMBAL, HINGED ANGULAR, TIED LATERAL AND UNTIED BELLOWS) SHALL BE INDICATED SEPARATELY.  
 3)- WORKING PRESSURE SHALL BE 2KG/CM<sup>2</sup> OR MORE.