

**Mandatory Pre-Qualification requirements for Primary Water Pump and Motor Set  
as per specification TG60729**

**Description:**

The Primary Water Pump (centrifugal type) and Motor (induction type) assembly is used in the Primary Water (PW) skid of water-cooled generators for supplying DM water to the stator winding of the generator. The PW pump and motor set shall be of a highly reliable and proven design to ensure the required water flow parameters are maintained under all operating conditions, thereby preventing any damage to the stator winding.

- 1.0 The vendor shall be a regular manufacturer of Primary Water (PW) pumps and shall procure the motor from a reliable and approved source. The pump and motor shall be supplied as a fully assembled unit, complying with the following requirements:

Si No.	Parameter	Value
(i)	Application Fluid	Water
(ii)	Type of Pump	Centrifugal
(iii)	Flow Rate	> 80 m <sup>3</sup> /hr
(iv)	Head	> 50 MWC
(v)	Speed	> 2900 RPM
(vi)	Design Pressure	> 5 bar
(vii)	Motor Details	As per IEC 60034-1, 3 Phase, 415 V
(viii)	Material of Construction	SS316 or better

- Vendor to provide the confirmation for the above.

- 2.0 In support of above, Vendor shall furnish technical details of PW pump and motor set in below mentioned format for at least five (5) quantities supplied in past 10 years (from the date of enquiry) along with PO copies.

S. No.	Brief technical details	Application	Name & address of customer	Date of supply
1	PW Pump and Motor Set			

- 3.0 Vendor to furnish test certificates for pump as per API 610/ ISO 9906/ HI14.6 and for motor as per IEC60034 against any one of the submitted PO as per clause-2.
- 4.0 Vendor shall furnish an acceptance certificate from at least one end user of the "PW pump and motor set" against the PO for which test certificates are being submitted as per Clause 3.0. The acceptance certificate shall include details such as item description and correlation with the respective PO.
- 5.0 In case the vendor is supplying to BHEL for the first time, the vendor shall provide a certificate from the end user confirming successful operation of the supplied equipment for a minimum period of two years.

**Note:** BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false / incorrect, the offer shall be rejected.

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