

Mandatory Pre-Qualification requirements for
Primary Water (PW) Pump and Motor Set to Specification TG60729

Material Codes: TG9041530002, TG9041530010, W90415302374, W90415302382, W90415302617

Introduction: The Primary Water Pump (Centrifugal Type) and Motor (Squirrel Cage Induction Type) assembly is used in the Primary Water (PW) system 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) The vendor shall be a regular manufacturer of Pump-Motor Sets for above mentioned application. The vendor 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:

Sl. No.	Parameter	Value
(i)	Application Fluid	Water
(ii)	Type of Pump	Centrifugal
(iii)	Flow Rate	$\geq 120 \text{ m}^3/\text{hr}$
(iv)	Head	$> 70 \text{ MWC}$
(v)	Speed	$> 2900 \text{ RPM}$
(vi)	Motor Details	As per IEC 60034-1, 3 Phase, 415 V
(vii)	Material of Construction	SS316 or better

➤ **Vendor to provide the confirmation for the above.**

- (2) In support of above, Vendor to furnish supply experience in below mentioned format for at least five (05) numbers Pump-Motor Sets (total quantity) & minimum two (02) nos. POs executed in past 10 years (from the date of enquiry) meeting requirements as per clause no. 1 above and for generator($\geq 500\text{MW}$) application in power plant along with PO copies: -

Sl. No.	Brief technical details	Application	Make & Rating of the Motor	Name & address of customer	Date of supply
1	Pump-Motor Set	Generator($\geq 500\text{MW}$) application in power plant			

- (3) Vendor to furnish **test certificates** for Pump-Motor Set for minimum 2 nos. submitted POs as per Clause-2 above. Only those POs will be considered for which the Pump-Motor set & Motor had been tested as per ISO 9906/ HI14.6 & IEC60034 respectively.
- (4) Vendor to furnish **documentary evidence for acceptance by end-user** of "Pump-Motor set" for the POs for which test certificates are being submitted as per Clause 3. The acceptance certificate shall include details such as item description and correlation with the respective PO.
- (5) **Performance Certificate:** In case, the vendor is supplying to BHEL for the first time, the vendor has to provide a certificate from the end user confirming successful operation of the supplied "Pump-Motor set" for a minimum period of two years corresponding to any one of the PO for which test certificates is being submitted as per Clause 3.

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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