

**Mandatory Pre-Qualification requirements for PRESSURE SWITCH as per specification TG60128 Rev. 03**

**Description:**

Pressure switch is mechanical device used for starting of emergency oil pump directly through MCC bypassing DCS. It comprises of dual diaphragm sealed piston actuator, two change over contacts.

- 1.0 The vendor should be a regular manufacturer or dealer of such pressure switch with following requirements-

Sr. No.	Parameter	Value
(i)	Range (Kg/cm <sup>2</sup> )	0.1-20
(ii)	Set point	Adjustable
(iii)	End connection range	Threaded
(iv)	Sensing element	Sealed diaphragm/Bellow piston actuated type
(v)	Repeatability	±0.5% of full scale range or Better
(vi)	Contact type & rating	2 no. change over contacts suitable for 5A at 240 V AC and 220V DC or equivalent

In case of dealer, vendor shall submit the OEM certificate as proof of authorization.

- 2.0 In support of above sl. no. 1, vendor shall furnish technical details in below mentioned format for at least five (5) nos. of pressure switch for the P.O. executed in past 10 years (from date of enquiry) along with P.O. copies.

S. No.	Brief technical details	Application	Name & address of customer	Date of supply
	<ul style="list-style-type: none"> <li>- Application fluid</li> <li>- Working pressure and temperature</li> <li>- Measuring range, repeatability</li> </ul>			

- 3.0 Vendor to furnish the test certificate for accuracy, calibration test and type test as per BS: 6134 against any one of the P.O. submitted as per clause 2. Test certificates must be clearly correlated with P.O.
- 4.0 Vendor to furnish acceptance certificate from one of the end users of pressure switch against any one of the P.O. submitted as per clause 2. (Original Certificate or through e-mail directly from the customer). Acceptance certificate should contain information like item details and its application or correlation with P.O.  
MDCC or third party quality clearance certificate shall also be considered as acceptance certificate.

**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.

MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM			QP NO.							
					REV							
		DRG. NO.	AS PER PO									
		SPEC.	AS PER PO									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
1	2	3	4	5	6	7	8	9	D	10		11


Note: All page of inspection documents shall be numbered in chronology with the QAP clause , dully mentioning the corresponding QAP clause nos. at the top of each page. One index page containing the documents descriptions, their page no & QAP clause shall be attached upfront the inspection documents.

MANUFACTURER/SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	
		! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.		APPROVED BY
		M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		