

Enquiry No. B/4066/8/6244/V1

PRE-QUALIFICATION REQUIREMENTS

Bidders are required to meet the pre-qualification requirements (PQR) for supply of Pneumatic Globe Valve as per criteria stipulated below:

Sl. No.	Pre-Qualification Requirements	Vendor's confirmation Indicating page no. where documents are placed																																														
1.	Vendor should have an experience of having designed, manufactured & supplied Pneumatic Globe Valve to minimum one thermal power plant/process plant in the last five (5) years for equal/higher than the parameters & size etc. mentioned in the following table. <table><tr><td>Valve Size</td><td>Nb40</td></tr><tr><td>Valve Type</td><td>2/2-way Coaxial Valve , Externally Control</td></tr><tr><td>Flow Medium</td><td>Water/Steam/Oil</td></tr><tr><td>Valve Material</td><td>Carbon Steel/Alloy Steel</td></tr><tr><td>Valve Rating</td><td>CL300</td></tr><tr><td>Actuation Type</td><td>Pneumatic</td></tr></table>	Valve Size	Nb40	Valve Type	2/2-way Coaxial Valve , Externally Control	Flow Medium	Water/Steam/Oil	Valve Material	Carbon Steel/Alloy Steel	Valve Rating	CL300	Actuation Type	Pneumatic																																			
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2.	Vendor must have supplied matching actuator of reputed make with a minimum of 1 (one) year successful Operation.																																															
3.	Supplier needs to furnish copy of un-priced purchase orders (PO) along with relevant dispatch document not older than five (5) years in support of above and furnish data of above PO in following format. <table><tr><th rowspan="2">(Project/ Customer Name)</th><th rowspan="2">PO ref no. & date</th><th colspan="4">Supplied Valve Detail</th><th colspan="2">Contact details of customer</th></tr><tr><th>Size</th><th>Class</th><th>Actuator Type</th><th>MOC</th><th>Email</th><th>Mob. No.</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	(Project/ Customer Name)	PO ref no. & date	Supplied Valve Detail				Contact details of customer		Size	Class	Actuator Type	MOC	Email	Mob. No.																																	
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4.	BHEL reserves the right to verify information submitted by supplier. In case, the information is found false/incorrect, BHEL reserves the right to reject the offer.																																															

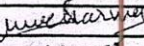
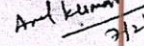
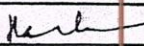
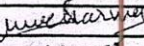
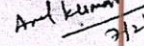
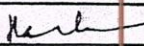
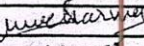
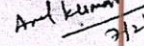
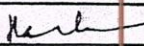
Notes:

1. BHEL would consider the offers and open the price bids of only those bidders, who fulfill the Pre-Qualification requirements (PQRs).

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				PNEUMATIC GLOBE VALVE LIST OF DOCUMENTS AND DRAWINGS MAT. CODE – W90313726159		4-13137-95003																			
						Rev.01																			
						Page 1 of 1																			
		A. SCOPE OF THE DOCUMENT: This document lists down the drawings and documents to be followed for executing the order of one no. (1 no.) of Pneumatic Globe valve(DN40) having TAG No. MAC01AA051.																							
		B. LIST OF DOCUMENTS AND DRAWINGS: <table border="1"> <thead> <tr> <th>Sl.no.</th> <th>Item description</th> <th>Drg./Doc. no</th> <th>Rev/ Index</th> <th>No. of sheets</th> <th>Quantity of item</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Technical Purchase Specification: Valves</td> <td>413137U8103</td> <td>01</td> <td>2</td> <td></td> </tr> <tr> <td>2</td> <td>Technical Requirements (Pneumatic Globe Valve – Actuator & Accessories)</td> <td>41812870012</td> <td>05</td> <td>1</td> <td></td> </tr> </tbody> </table>						Sl.no.	Item description	Drg./Doc. no	Rev/ Index	No. of sheets	Quantity of item	1	Technical Purchase Specification: Valves	413137U8103	01	2		2	Technical Requirements (Pneumatic Globe Valve – Actuator & Accessories)	41812870012	05	1	
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SIGN & DATE	SUNIL 12.02.19					NAME	SIGNATURE & DATE																		
				WORKED BY	ANUPAM	-Sd-	02.09.2011																		
REV NO.	01	CIE	SASWATI	21.04.17	CHECKED BY	S K GUPTA	-Sd- 02.09.2011																		
		AGREED DEPTT.	NAME	DATE & SIGNATURE	APPROVED BY	S C AGARWAL	-Sd- 02.09.2011																		

	PNEUMATIC GLOBE VALVE				413137U8103																							
					REV-01																							
					Page 1	of 2																						
1-Scope: This Technical Purchasing Specification covers supply of Pneumatic Glove valve with limit switch for 100% open indication. The requirements of this specification are valid as far as no other requirements are given in the enquiry. 2-Technical Data and Design: The criteria, e.g. fluid, pressure, temperature, material of the casing, etc., are as below. <table border="1"> <tr> <td>Valve Type</td> <td>2/2-way Coaxial Valve , Externally Control</td> </tr> <tr> <td>Valve Size</td> <td>DN40</td> </tr> <tr> <td>Design Pressure</td> <td>64 bar</td> </tr> <tr> <td>Design Temperature</td> <td>65°C</td> </tr> <tr> <td>End Connection</td> <td>Flange RF 1.5" ANSI B16.5 CLASS 300</td> </tr> <tr> <td>Function</td> <td>Valve Normally Closed</td> </tr> <tr> <td>Pressure range of control air</td> <td>5-10 bar</td> </tr> <tr> <td>Flow Medium</td> <td>Condensate</td> </tr> <tr> <td>Valve Material</td> <td>Carbon Steel</td> </tr> <tr> <td>Duty</td> <td>Isolation</td> </tr> <tr> <td>Valve Rating</td> <td>CL300</td> </tr> </table> 3- Function: This valve is ON/OFF valve and is used for isolation purpose in Condensate line. 4- Material: Body carbon steel, material of internals to be selected by supplier and to be informed to purchaser for their comments, if any. Also refer clause 4.0 of ST47025.							Valve Type	2/2-way Coaxial Valve , Externally Control	Valve Size	DN40	Design Pressure	64 bar	Design Temperature	65°C	End Connection	Flange RF 1.5" ANSI B16.5 CLASS 300	Function	Valve Normally Closed	Pressure range of control air	5-10 bar	Flow Medium	Condensate	Valve Material	Carbon Steel	Duty	Isolation	Valve Rating	CL300
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		PNEUMATIC GLOBE VALVE		Page 2 of 2																	
		5.0 For completion of this specification, read this specification along with purchase specification of valve ST47025 & its addendum. 6.0 in continuation to the clause 15.0 of specification ST47025, the min. test requirement envisaged by BHEL are as follows. 6.1 Testing of materials: The material of components of valve such as body, bonnet, stem & fasteners shall be tested as per relevant specification for its chemical composition and mechanical properties. For remaining components compliance certificate shall be furnished. 6.2 Functional Test: Smooth operation for opening/closing.																			
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TECHNICAL REQUIREMENTS (PNEUMATIC GLOBE Valve-Actuator & accessories)

- 1) General : 24V DC for on-off action.
Tolerance : (+10 & -15%)
Enclosure : IP 65
- 2) Solenoid valve
Connection : Plug and socket type
Energised time : constant rated
coil isolation : class F
Nominal current : $\leq 1A$
TYPE : BOSCH make, model 0 820 022 987, namur interface or equivalent
- 3) Proximity switch : - inductive
switching element : PNP close (normal open)
function : 3 pole
Connection : Plug and socket type
Connection : wired if available
Shield : 2 nos
Qty : BALLUFF make, model BES-516 300 S321 NEX S4 D or
TYPE equivalent
- 4) Pneumatic actuation : Pressure range 3-10 bar, G1/8"
a) Adaptor (with ferrule fitting for converting G1/2" air supply line to G1/8"): One no to be provided
b) Impulse line (G1/8") : Two meters to be provided along with adaptor G1/8" for connection to this valve.
- 5) Normal operation : Valve close
- 6) Fail safe position : Valve close
- 7) Hook up diagram : To be provided
- 8) Write up on operation of valve: To be provided
- 9) The Limit Switches and Solenoid Valve of each globe valve are to be loosely supplied in the main package along with all cables/fittings for termination to the Junction Box.
- 10) The Limit Switches and Solenoid Valve shall be packed in separate wooden box/compartment to avoid breakage.
- 11) Proper Labeling such as 'item name', "P.O." etc. shall be clearly indicated on the loose package Box for identification in case of misplacement.