Section 7. Technical Specifications

Supply installation testing commissioning of HP bypass to CRH control valve actuator and it accessories:

SI. No.	Name of Item	Technical Specification and Standards	Qty.
1	2	3	4
01.	1.Actuator	Brand: Copes-Vulcan/SPXFLOW or equivalent Model: PISTON P800 16DA or Equivalent. Type: Double Hand wheel: yes Fail position: Fail to close Frame material: Cast steel Force to close: 5964, Force to open: 11319 ibf. Connection large flange, Air pressure available: 5.5/4.0 bar Full open to full close distance: Above 5 inch(Actuator will be adjusted in the range between 0 to 5 inch as per mechanical valve position) Shaft Dia: 1.25 inch Normal Opening Speed < 10 sec (Full stroke) Normal Closing Speed < 10 sec (Full stroke)	1 Set
		Quantity: 1 pcs	
	2. Accessories		
	(a) Positioner	Copes SIPART PS2-Remote mounted or Equivalent. Input range: 4-20 mA, 24V DC HART module. Feed back: 4-20 mA, 24V DC, SIEMENS NCS Position sensor, 6DR4004-6NN10 or equivalent. Quantity: 1 set	
	(b) Booster	RK3000 or Equivalent. Brand: RK control instrument PVT ltd or equivalent Volume booster SWP: 150 psig Pipe conns:3/4 inch NPT EXT PORT: ½ inch, supply port: ½ inch Quantity: 4 pcs (2 pcs for use and 2 pcs for spare)	
	(c) Spool valve	Brand: SMC Air operated valve or equivalent Model: VGA342-04NA or equivalent Main Press: 02-0.9 MPa Pilot Press: 0.2- 0.9 MPa Quantity:6 pcs(4 pcs for use and 2 pcs for spare)	
	(d) Solenoid valve with coil	Brand: ASCO or equivalent Rebuilt kit no:131237 or equivalent Air, Inert gas (psi):150 Watta:11.6 Pipe:1/4 Serial: A101841, Date:1142 Valve catalog no: JKF8327G052 This solenoid valve will be used for emergency	

		Quantity: 2 pcs	
	(e) Limit	Brand: Telemecanique or equivalent	
	switch	Model: XCK-J,C or equivalent	
	SWILCII	IEC 60947-5-1 GB14048.5	
		Ui:500V, Uimp:6 kv	
		AC15 240V 3A	
		IP66	
		Quantity: 2 pcs	
	(f) Air Lock	Brand: Fisher LOC 105 or equivalent	
	(I) All Look	Type:167DA or equivalent	
		Switching valve	
		Max supply:125 psi	
		Spring: A/C IN; 40-125 PSI	
		Spring-B IN:40-90 PSI	
		Quantity: 1 pcs	
	(g) Air Filter	Brand: SMC or equivalent	
	Regulator	Model: AW40-N06H-Z or equivalent	
	Regulator	Set Press: 7~125 PSI	
		Quantity: 1 pcs	
		Quality. 1 poo	
		*One coupler for coupling actuator-valve shaft and	
		feedback positioner spindle.	
		*Impulse line with necessary support.	
		*Contractor must provide all other auxiliary equipment	
		(if necessary) for normalize the actuator.	
		*This actuator will be used for control steam for	
		converting at a maximum pressure 135 bar to 35 bar.	
		*For equivalent brand of actuator all other accessories'	
-		equipment can be selected as per requirement.	
		*Contractor can provide hydraulic oil operated	
		actuator but in that case contractor must provide	
		hydraulic oil tank, actuator and other auxiliaries with	
		control system.	
1			
		*This actuator will be used for control HP Bypass	
		Valve. Link with DCS 4-20 mA, 24V DC input and	
		position feedback 4-20 mA, 24V DC. Valve open close	
		limit (24V DC) and emergency close.	
		*Supply, installation, testing, commissioning will be	
		conductor scope. This actuator will be used for	
		controlling COPES-VULCAN/SPXFLOW Valve Model No:	
		1/8 DSCV-SA.	
	Country of	(
	Country of Origin	(For Actuator and all other accessories): G7	
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- Note 1. Quality will be certified after one month of successful Supply installation testing commissioning in the field.
- Note 2. Contractor can visit CCPP South plant at APSCL site for taking information about this actuator.



