



Bharat Heavy Electricals Ltd

(A.Govt.of India Undertaking)

Valves Purchase, Tiruchirappalli- 620 014. INDIA

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Tele: (0431) 257 7096
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ANNEXURE-1

LIST OF HIGH TORQUE ACTUATORS, APPROXIMATE QUANTITY AND SPARES REQUIRED

Enquiry No: RC-SAC-006 dated 25-04-2019

For high torque actuators (Above 100 Kg-M torque)						
Sl.No	Torque Range (Kg-M)	RPM (Approx)	Out put flange details (LD x PCD x Bolt Details.)	Stem Protection Cover in mm (unless other wise specified)	Stem dia. (MM)	QTY (approx)
1	28-124	22	152.4x254-8NOS M16	250	48	24
2	70-252	33	177.8x298.5-8NOS M20	300	55	76
3	180-500	36	215.9x335.6-8 NOS M24	400	80	94
4	250-600	26	228.6x406.4-8NOS M30	450	80	24
5	400-790	26	228.6x406.4-8NOS M30	450	80	66
6	400-1155	24	228.6x406.4-8NOS M30	450	100	132
7	500-1400	13	400.0x500.0-12NOS M36	500	100	24

- Kindly go through the enclosed specification VAL/ACT/AC/001 REV.06 DT: 11.01.2013, and submit your competitive offer in with a validity of 18 months for ordering, for the following actuator categories:
 - For standard High Torque actuators with Aluminum Bronze drive bush.
 - For High Torque actuators with Electronic Integral starters with Aluminum Bronze drive bush.

Confirmation shall be given to all the points mentioned in the Technical specifications. Deviations if any to the technical specifications shall be mentioned in a separate sheet.

- The list of actuators, accessories and spares are attached in the following pages. Operational spares required as per the Spares list attached may be offered in the prescribed format enclosed. If any spares apart from the list is found necessary for smooth functioning of actuators the same may also be separately indicated and offered.
- All actuators shall be fitted with double compression nickel coated brass cable glands and price shall be included in the actuator base price itself, for water tight applications.
- Optional items like Electronic position transmitters(non-contact type & contact type), Al Bronze stem Nuts, Stem protection Covers 250 mm to 900 mm long, providing higher RPM in place of standard RPM , providing plug and sockets for NTPC contracts, any other items not covered by us, as applicable to specification may be offered as a price adder.

CATEGORIES OF ACTUATORS, PRICE ADDERS (ACCESSORIES) AND SPARES LIST CAN BE FOUND FROM THE NEXT PAGE ONWARDS...

Note-1: Actuator Categories, Price Adders and Spares List- to be filled and submitted along with the offer

Note-2: Any other Accessories (price adders), spares required should also be included.



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-SAMPLE-

ACTUATORS CATEGORIES					
I	Standard Water Tight Actuators				
	Sl.No.	Torque Range(In kgm)	Model No	Unit Price	Remarks
	1	28-124			
	2	70-252			
	3	180-500			
	4	250-600			
	5	400-790			
	6	400-1155			
	7	500-1400			
II	Standard Water Tight Actuators with Electronic Integral Starters				
	Sl.No.	Torque Range(In kgm)	Model No	Unit Price	Remarks
	1	28-124			
	2	70-252			
	3	180-500			
	4	250-600			
	5	400-790			
	6	400-1155			
	7	500-1400			

ACCESSORIES (PRICE ADDERS)			
Sl.No.	Accessories	Unit Price	Remarks
1	Electronic Position Transmitter (EPT)		
2	Contactless Electronic Position Transmitter (CLEPT)		
3	Plug and Socket		



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SPARES				
Note : If any spares apart from the list is found necessary for smooth functioning of actuators the same may also be separately indicated and offered.				
Sl. No	General Description	Part no / Vendor description	Price	Remarks
1	Limit Switch/ Intermediate Limit Switch			
2	Limit Switch Assy./ Intermediate Limit Switch Assy.			
3	Torque Switch			
4	Torque Switch Assy.			
5	Motor			
6	Worm Gear assy			
7	All Electronic Card (with price break up for each)			
8	All Push Buttons Used			
9	Thermal Over Load Relay			
10	Seal Kit			
11	Power Contactor Assy			
12	Selector Switch Assy			
13	One set Of DCCG used			
14	Hand Wheel With fasteners			
15	Stem nut / Adaptor			
16	Thrust Base			
17	Terminal Board			
18	Thrust Bearing			
19	Mechanical Dial Position Assy.			
20	Electronic Position Transmitter (EPT)			
21	Contactless Electronic Position Transmitter (CLEPT)			
22	Integral starter unit			
23	Plug and Socket			
24	Stem protection Covers			
25	Reduction gear unit			
26	Counter gear mechanism			
27	Pin connectors(All types)			
28	Power TBs Assembly			
29	Motor mounting Flange			
30	Declutch assembly			