

	SPECIFICATIONS of Mechanisms for Fast Acting Earth Switch and Disconnect Switch		Date:	12.12.2019
1.0	APPLICATION: Mechanisms for operating Fast Acting Earth Switches and Disconnect Switches used in Gas Insulated Switchgear (GIS) applications.			Vendor/Supplier Compliance
Sl.No.	Specifications of Spring Mechanism			
1	Operating Temperature Range	-10°C to 40°C		
2	Operating Torque	> 150 Nm		
3	Output Angle	>60° (shall be specified later)		
4	Power Rating	> 200 W		
5	Range of Operating Voltage	85-110% of Rated Voltage		
6	Supply Voltage	AC 220V; DC 220V		
7	Current Rating	~ 10A		
8	QUANTITY	6 Nos		
Sl.No.	Specifications Two Position Mechanism Electrical			
1	Operating Temperature Range	-10°C to 40°C		
2	Operating Torque	> 120 Nm		
3	Output Angle	>60° (shall be specified later)		
4	Operating Time	< 6 sec		
6	Power Rating	> 200 W		
7	Range of Operating Voltage	85-110% of Rated Voltage		
8	Supply Voltage	AC 220V; DC 220V		
9	Current Rating	~ 10A		
10	QUANTITY	6 Nos		
NOTE: Actual values shall be mentioned where ever applicable				
2.0	Other Specifications:			Vendor/Supplier Compliance
1	Mechanism shall have ON/OFF indicating positions.			
2	Mechanism shall be able to operate more than 2000 operations without maintenance.			
3	It is preferable to provide counter for number of operations.			
4	Orientation of shaft and relevant drawings shall be supplied by vendor along with the offer.			
5	Outer dimensions/Outline General Arrangement and component drawings of mechanism shall be submitted along with the offer for approval.			
6	Drawings of mechanism components to connect to GIS modules shall be provided.			
7	Mechanism shall have provision/suitable connector for control wiring to connect to GIS modules.			
8	Supplier should provide control panel along with the mechanism.			
9	All performance tests shall be carried out on the mechanisms supplied and test reports shall be submitted along with the supply.			
10	Supplier shall provide Warranty Certificate for the equipment to ensure reliability of the			
11	The design must take care of all safety related aspects.			
12	Supplier shall provide operation and maintenance manual covering instruction for safe handling.			
13	Mechanisms shall be supplied protected and covered with moisture proof packing and			
14	The supplier shall be of National and International repute with proven record and should have supplied similar mechanisms. The supplier must submit along with the technical bid the references of supplies made so far.			
15	In case of doubts please contact BHEL for clarifications.			
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