

	SPECIFICATIONS of Spring Mechanisms for Fast Acting Earth Switch and Disconnecter Switch		Date:	06.12.2016
1.0	APPLICATION: Spring Mechanisms for Fast Acting Earth Switches and Disconnecter Switches are used in Gas Insulated Switchgear (GIS) applications.			Vendor/Supplier Compliance
Sl.No.	Specifications of Spring Mechanism for Fast Acting Earth Switch			
1	Operating Temperature Range	-10°C to 40°C		
2	Operating Torque	> 150 Nm		
3	Output Angle	60°-90°		
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	3 Nos		
Sl.No.	Specifications of Spring Mechanism for Disconnecter Switch			
1	Operating Temperature Range	-10°C to 40°C		
2	Operating Torque	> 120 Nm		
3	Output Angle	60°-90°		
4	Operating Time	< 6 sec		
4	Operating Speed	> 20 m/s		
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	5 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 opertae more than 2000 operations without maintenance.			
3	It is preferable to provide counter for number of operations.			
4	Orientation of shaft and relavent 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	All performance tests shall be carried out on the mechanisms supplied and test reports shall be submitted along with the supply.			
9	Supplier shall provide Warranty Certificate for the equipment to ensure reliability of the equipment for a period of not less than 12 months from the date of dispatch and acceptance.			
10	The design must take care of all safety related aspects.			
11	Supplier shall provide operation and maintenance manual covering instruction for safe handling.			
12	Mechanisms shall be supplied protected and covered with moisture proof packing and requisite quantity of absorbents.			
13	The supplier shall be of National and International repute with proven record and should have supplied similar mechansims. The supplier must submit along with the technical bid the references of supplies made so far.			
14	In case of doubts please contact BHEL for clarifications.			
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