

STATCOM System BOQ for 1 No. 220kV / xx kV $\pm$ 125MVAR, STATCOM Bay at 220kV SAGAPARA substation				
Sr. No.	Particulars of Item	Unit	Supply Qty.	Erection Qty.
<b>A</b>	<b>Design, supply, erection, testing and commissioning <math>\pm</math> 125 MVAR, 220kV/ xx kV Static Synchronous Compensator (STATCOM) meeting all the functional objectives, scope of the work and common technical requirements as per relevant technical specifications.</b>			
1	STATCOM unit comprising of following but not limited to a. IGBT Valve modules b Valve control, monitoring and Protection units (Fulfilling all the requirements of Control, Monitoring and Protection of STATCOM) c Substation Automation System d. Cooling system with Battery and UPS / UMD e AC-DC Auxiliary Power system (Fulfilling all the complete requirements of Control, Monitoring, Operation and Protection of STATCOM for desired operation) f. All other equipment/ item/ system / accessories not covered above but, necessary for satisfactory operation of STATCOM unit	Set	1	1
2	Disturbance recorder as per relevant specifications and to suit the STATCOM system requirement	Nos	1	1
<b>B</b>	<b>Supply, Installation, Testing and Commissioning of materials/item for Power Cable, Control Cable and Fibre Optic Cable as per respective technical specifications and relevant specifications and conditions.</b>			
	Supply and Laying of 1.1 kV <b>FRLSH</b> PVC armoured copper/Aluminium control/LT power cable in trench including binding/clamping of cable with PVC lockable wire tie as per requirement including supply and fixing of identification tags at both ends and at distance of every 100mtr.			
1	Armoured Control & LT Power cables as per STATCOM system requirement (except for Coupling Transformer)	Package	LS	LS
2	Armoured Fibre Optic cable as per STATCOM System requirements (Except SAS)	Package	LS	LS
<b>F</b>	Supply, Erection, Testing and Commissioning of Modular Variable-diameter Cable sealing system as per respective technical specification and relevant special conditions wherever the electrical / instrumentation / communication / LT Power cable underground and over-ground enter or leave <b>STATCOM Building</b> cable trench	Job	LS	LS
<b>G</b>	<b>Operation and Maintenance of STATCOM</b>			
1	Operation of STATCOM during first six month of the guarantee period jointly with GETCO ( <b>Mandatory to quote</b> )	Package	LS	LS
2	Maintenance of the STATCOM for initial period of 5 years (excluding guarantee period) ( <b>Mandatory to quote</b> )	Package	LS	LS
Notes : -				
1	The scope includes all the material / equipments, whether mentioned or not but required to complete the STATCOM System in all respects.			
2	Package' includes all the material in required quantity to complete the STATCOM System as per latest standards and best practices.			
3	Spare shall be considered and quoted as per separately provided Spare BOQ			