

### Annexure - A

Sr. No.	Description of required Material and service	Unit	Qty.	Ex. Work Price	Price incl.all taxes
<b>Material part</b>					
1	220kV CTs with CT ratio 2000/1 Amp.	EA	6		
2	220kV High voltage Cable Bushing.	EA	6		
3	HDS2 & ESI combo switch	Set	1		
4	All above related required and suitable consumable and accessories as per OEM recommendation	LS	1		
<b>Service Part</b>					
1	Dismantling and erection of 220kV CTs.	EA	6		
2	Dismantling and erection of 220kV High voltage Cable Bushing	EA	6		
3	Erection of HDS2 & ESI combo switch.	Set	1		
4	All above related allied work which is need to be carried out.	LS	1		
<b>Total</b>					

**Please Note:-**

1] 220kV GIS Bhandup substation is having 2 Nos. of 220kV Lines (220kV GIS Bhandup-Mulund Line & 220kV GIS Bhandup- Borivali line), 4 Nos. of 220/22kV, 50MVA Transformers and one number of 220kV Bus coupler. The 220kV Gas Insulated Switchyard is manufactured by M/s PINGGAO GROUP HIGH VOLTAGE SWITCHGEAR CO. LTD. R.CHINA. Each bay of 220kV GIS module is having following equipments.

- 1) HDS1 (BUS ISOLATOR)
- 2) HDS2 & ESI COMBO
- 3) CIRCUIT BREAKER
- 4) CURRENT TRANSFORMER
- 5) HDS3 (LINE ISOLATOR)
- 6) ES2 (EARTH SWITCH 2)

All above equipments are compact in one module of Gas insulated switchyard. Under Mumbai strengthening scheme two numbers of line bays ie. 220kV GIS Bhandup Mulund and 220kV GIS Bhandup Borivali are proposed for strengthening.

2] Work should be carried out in supervision of 220kV GIS expert.