



LEGEND TABLE

	CUSTOMER SCOPE
	CONDUCTOR
	SHIELD WIRE

- REFERENCE DRAWING:**
- LAYOUT PLAN DRAWING NO. TB-1-378-316-002
 - SINGLE LINE DIAGRAM DRG. TB-1-378-510-001
 - PLOT PLAN DRAWING NO. PE-DC-412-100-MD01
 - STRUCTURE LOADING DIAGRAM DRAWING NO. TB-378-510-003

REMARKS:
PLEASE REFER ANNEXURE - BILL OF QUANTITIES FOR CLAMPS & CONNECTOR WITH ACCESSORIES.

- NOTE:-**
- ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.
 - ALL JACK BUS ARE CONTINUOUS CONDUCTOR.
 - REGID SPACERS WILL BE PROVIDED @ 3500 mm (MAX). IN ALL THE JUMPERS/ JACK BUS.
 - ALL THE JUMPERS SHALL BE ALLOWED TO TAKE NATURAL CATENARY WITHOUT ANY ADDITIONAL PULL. JUMPERS SHALL BE SHORTEST POSSIBLE SO THAT PHASE TO EARTH CLEARANCE SHALL BE MAINTAINED FOR ALL THE JUMPERS CONNECTION.
 - IF THERE ARE 2 OR 3 SHIELD WIRE TERMINATING ON PEAK TOWER THEN 1 & 2 P.G. CLAMP RESPECTIVELY SHALL BE USED FOR INTERCONNECTION.
 - SHIELD WIRE CUT LENGTH SHALL BE TAKEN SUCH THAT STARTING FROM BOTTOM OF ONE PEAK TOWER - TENSION CLAMP OF BOTH PEAK TOWER - TERMINATING TO BOTTOM OF OTHER PEAK TOWER/UP TO P.G. CLAMP OF OTHER TOWER.
 - THE POSITION OF REGID/ EXPANSION CONNECTOR SHALL BE AS PER DRAWING.

BILL OF QUANTITY - 400KV

S.NO	DESCRIPTION	SYMBOL	QTY.
1	400 kv INDOOR GIS	--	01
2	SF6 TO AIR BUSHING - POLYMER TYPE		36
3	SURGE ARRESTER 360KV, 20KA, CLASS-IV		36
4	400 kv, 125 MVAR REACTOR		02
5	-400 kv LINE-EVT-		-18-

BILL OF QUANTITIES FOR CLAMPS & CONNECTOR WITH ACCESSORIES

Sl. No.	EKD ID No.	Description	Current rating (A)	Main Qty. (Nos.)
1	8	420kV, 1-Phase Bus post Insulator		
1.a	8C	Suitable for twin ACSR Moose conductor Rigid through type horizontal approach	2000	27
2	9	420kV, 125MVAR Reactor HV Bushing		
2.a	9A	Suitable for twin ACSR Moose conductor horizontal approach	2000	6
3	10	420kV, Start up Transformer HV Bushing		
3.a	10A	Suitable for twin ACSR Moose conductor horizontal approach	2000	3
4	12	420kV, Generator Transformer HV Bushing		
4.a	12A	Suitable for twin ACSR Moose conductor horizontal approach	2000	6
5	13	420kV, Air to SF6 gas Bushing		
5.a	13A	Suitable for twin ACSR Moose conductor horizontal approach	2000	36
6		Two way PG Clamps /Tee/Welding sleeves and Spacers		
6.a	17	420kV Tee connector suitable for twin ACSR Moose run and twin ACSR Moose tap	2000	18
6.b	18	420kV Tee connector suitable for Quad ACSR Moose run and twin ACSR Moose tap	2000	36
6.c	23	420kV Flexible spacers suitable for Twin ACSR Moose conductor	-	132
6.d	24	420kV Rigid spacers suitable for Twin ACSR Moose conductor	-	210
6.e	28	Tension clamps for 7/9 SWG(10.98mm dia) GI Shield Wire	-	51
6.f	29	Two way PG clamps for 7/9 SWG(10.98mm dia) GI Shield Wire	-	34
6.g	30	PAD Clamps for connecting 7/9 SWG (10.98mm dia) GI Shield Wire on one side and 75X12 mm GI Flat on other side	-	27
6.h	31	Structure clamps for 7/9 SWG (10.98mm dia) GI Shield wire on Lattice type structure	-	840
6.i	32	Earth clamps for 7/9 SWG (10.98) GI Shield Wire on Wall/ Structure	-	264
Conductor Size				
1		ACSR Moose conductor (Overall diameter=31.77mm)		
2		7/9 SWG GI Shield Wire (Overall diameter=10.98mm)		
Notes:				
1		The sub-conductor spacing for 400kV Twin conductor is 450mm.		

ADDITIONAL INFORMATION
W.D.No. 84007

TAMILNADU GENERATION AND DISTRIBUTION CORPORATION (TANGEDCO)
NAME OF CUSTOMER/PROJECT: 400KV GIS AT 2 X 660 MW ENNORE SEZ SUPERCRITICAL THERMAL POWER PROJECT AT ASH DYKE OF NCTPS

DESEIN PRIVATE LIMITED, NEW DELHI.
NAME OF CONSULTANT

Signature and Stamp: [Signature] [Stamp: DESEIN PRIVATE LIMITED]

REVISIONS:

REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED	REV.	DATE	ALTERED CHECKED APPROVED

SCALE: 1:45

DATE: 28.10.17

PROJECT TITLE: EKD PLAN & SECTION FOR 400KV SWITCHYARD - ENNORE SEZ

DRAWING NO.: TB-378-510-013

SHEET NO.: 01