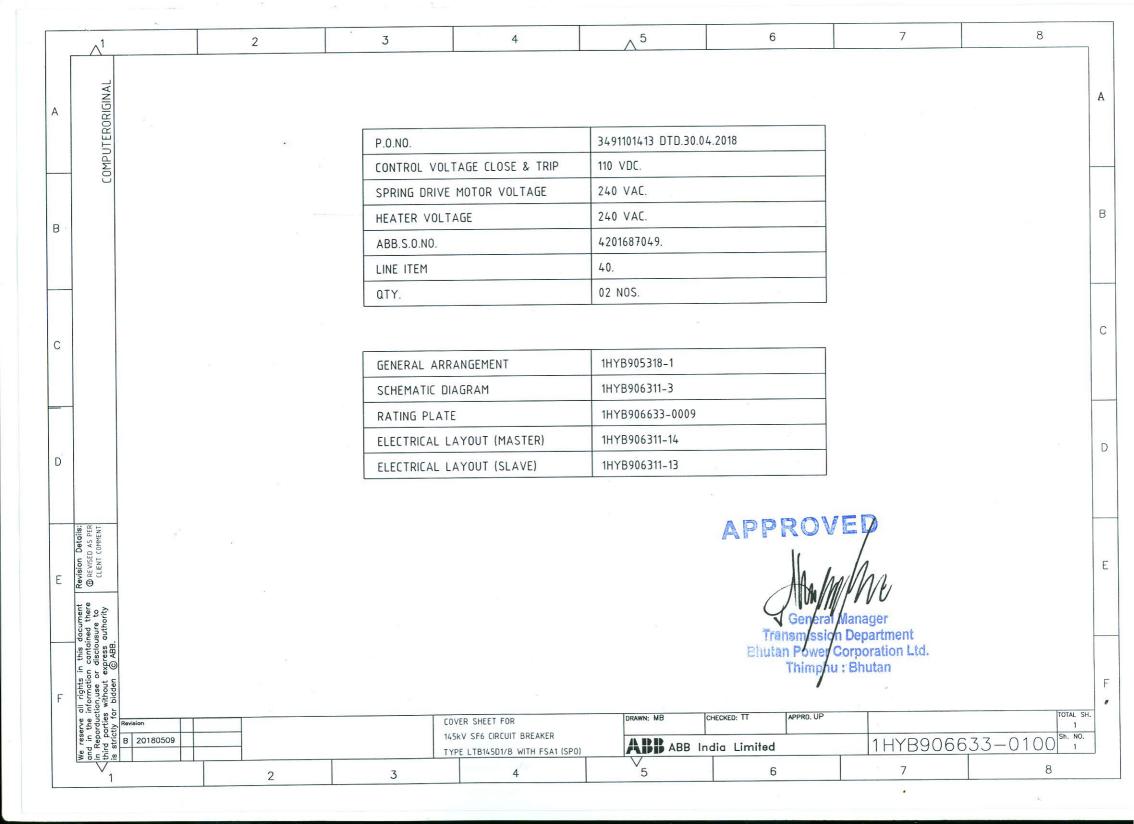
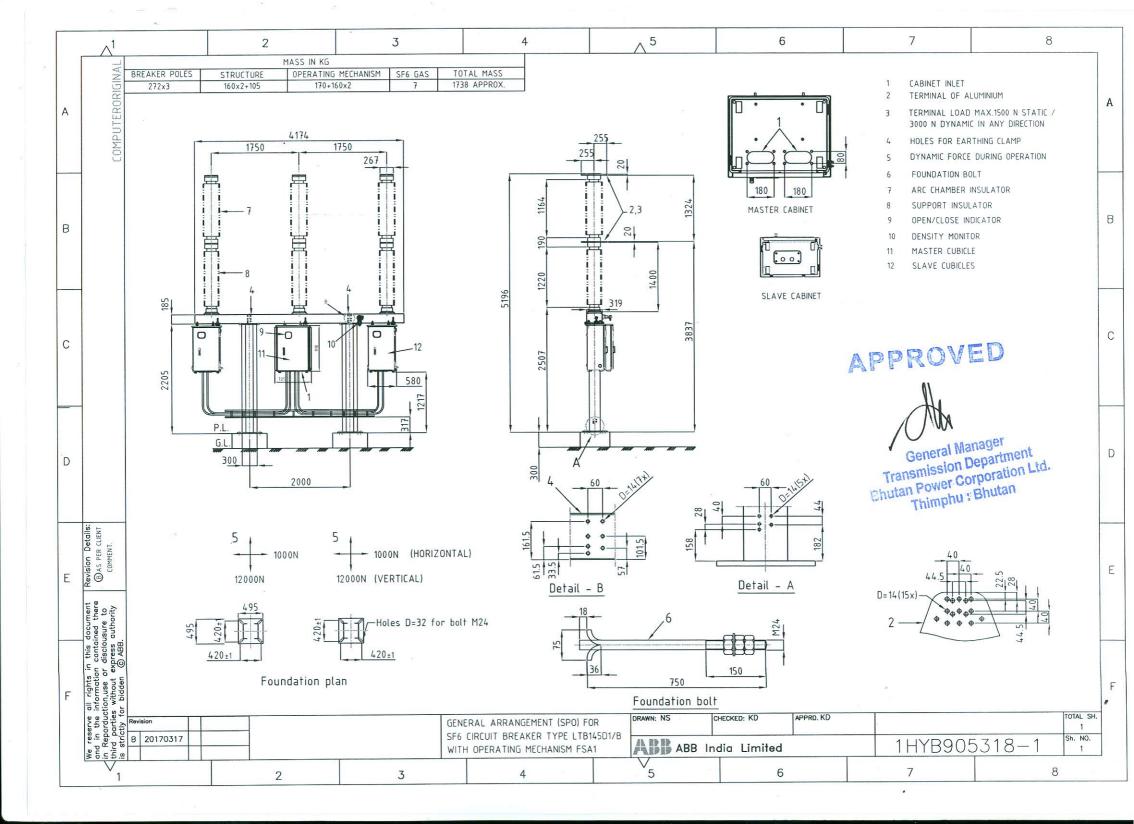
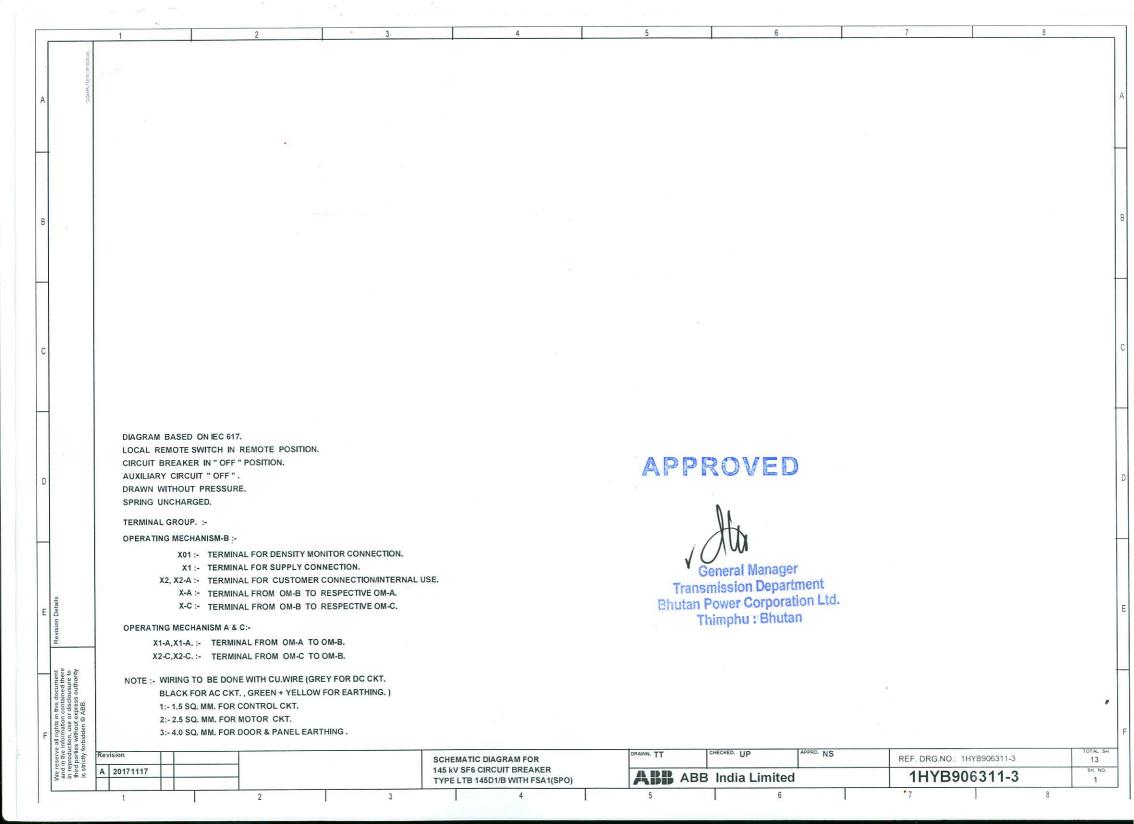
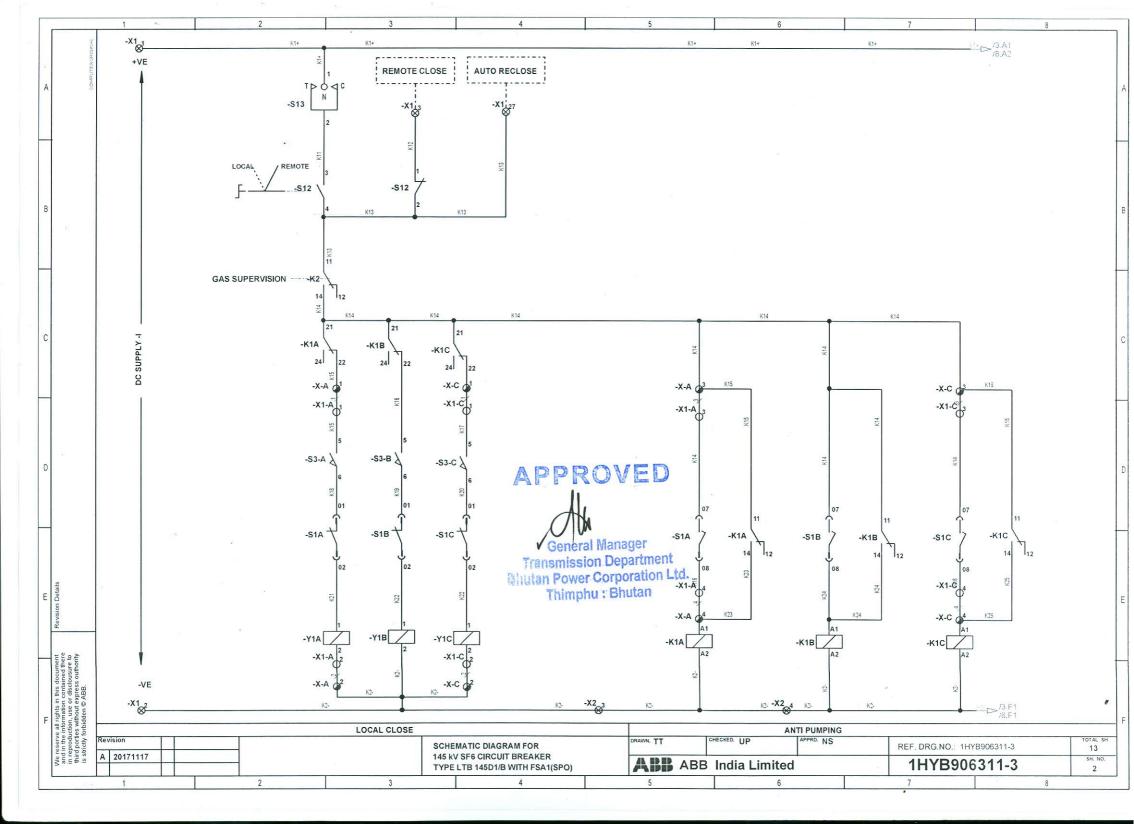
LOT 10: HV SWITCHING EQUIPMENT

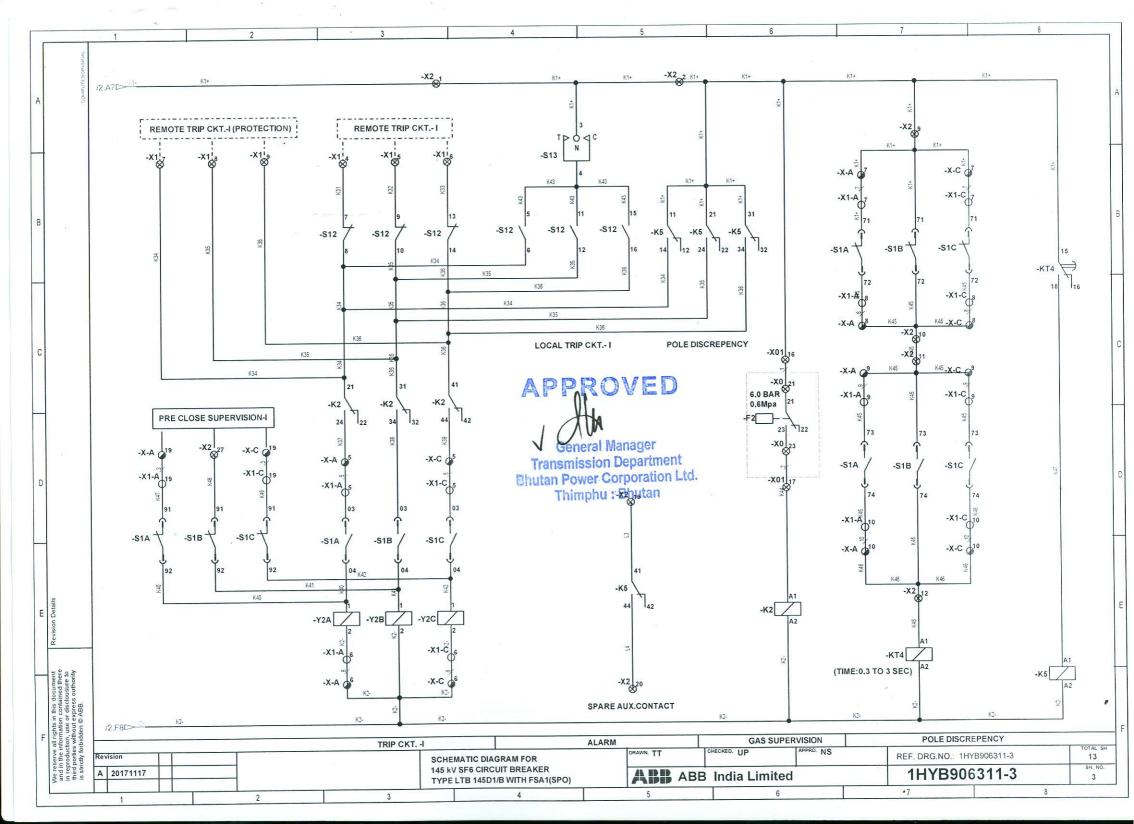
Technical Specification and Detail Drawings

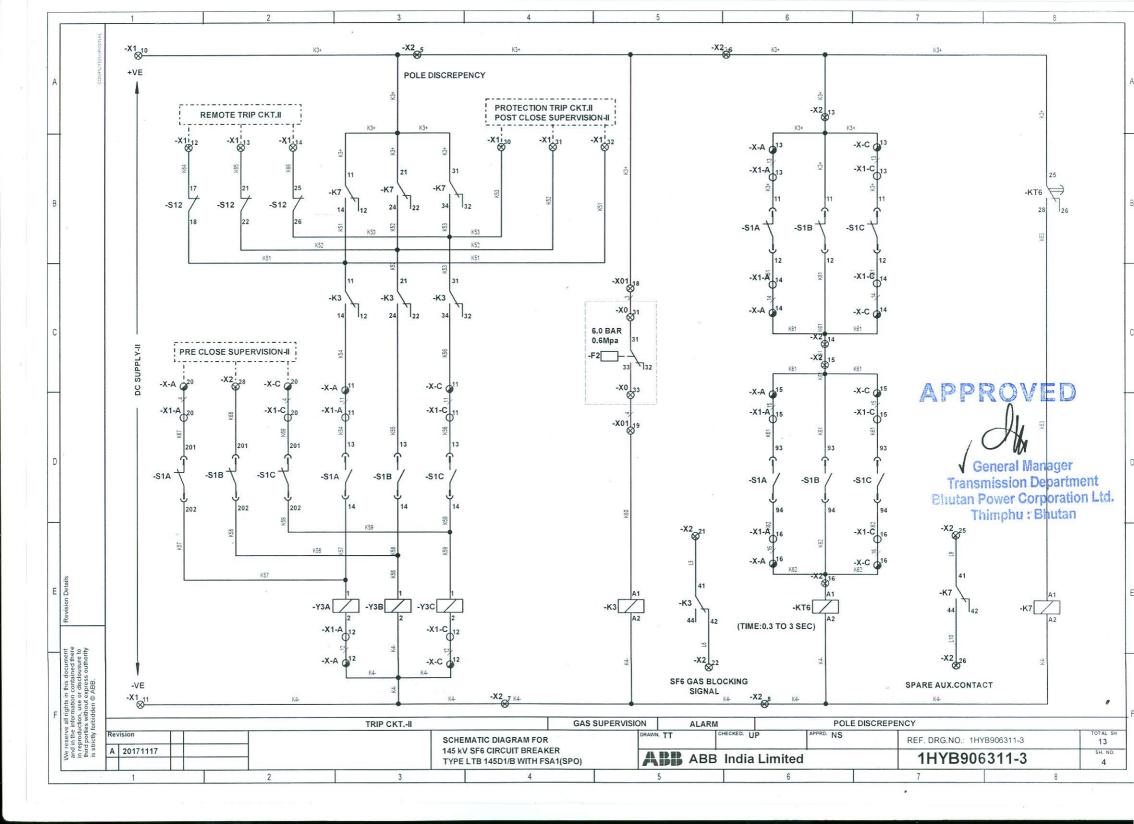


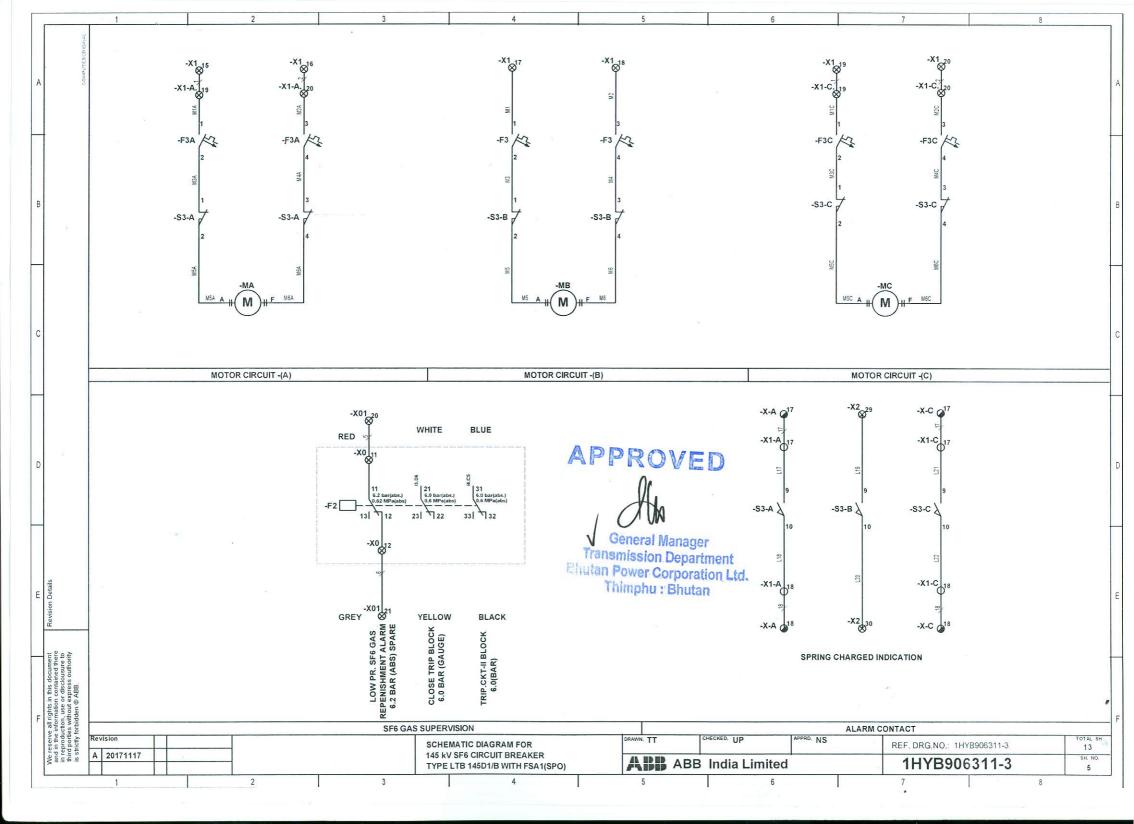


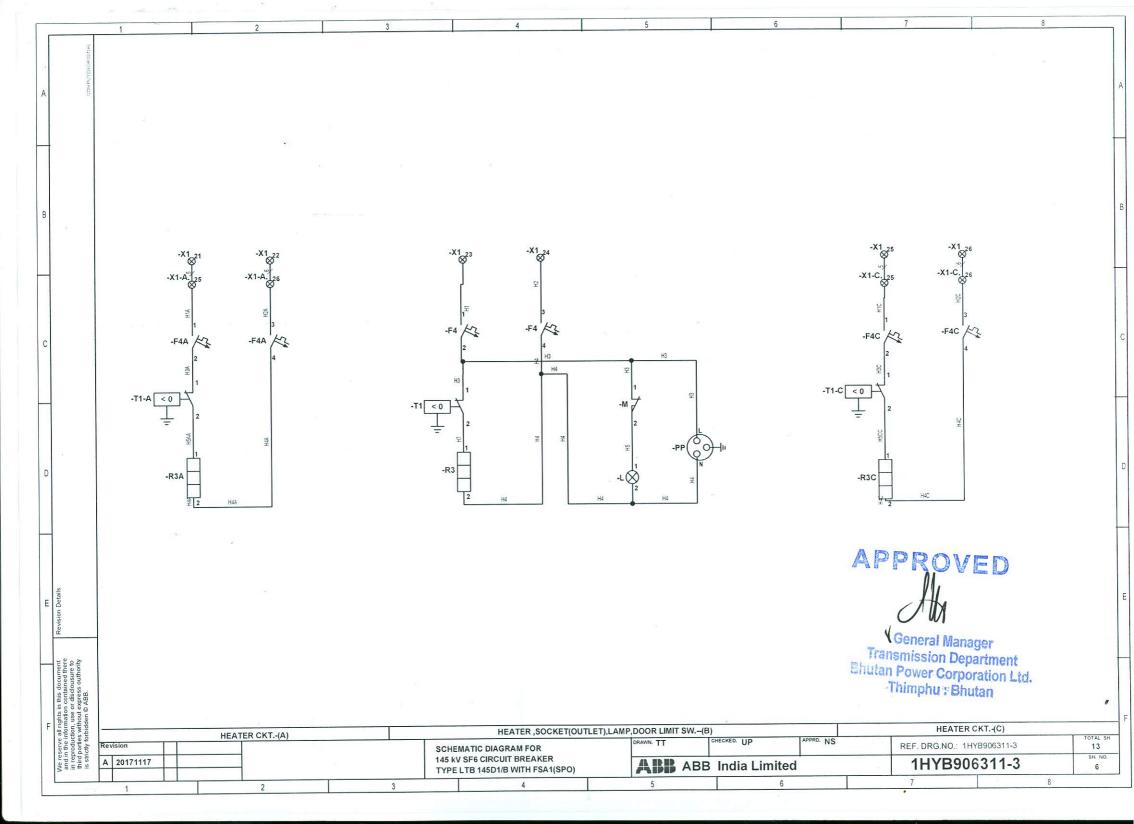


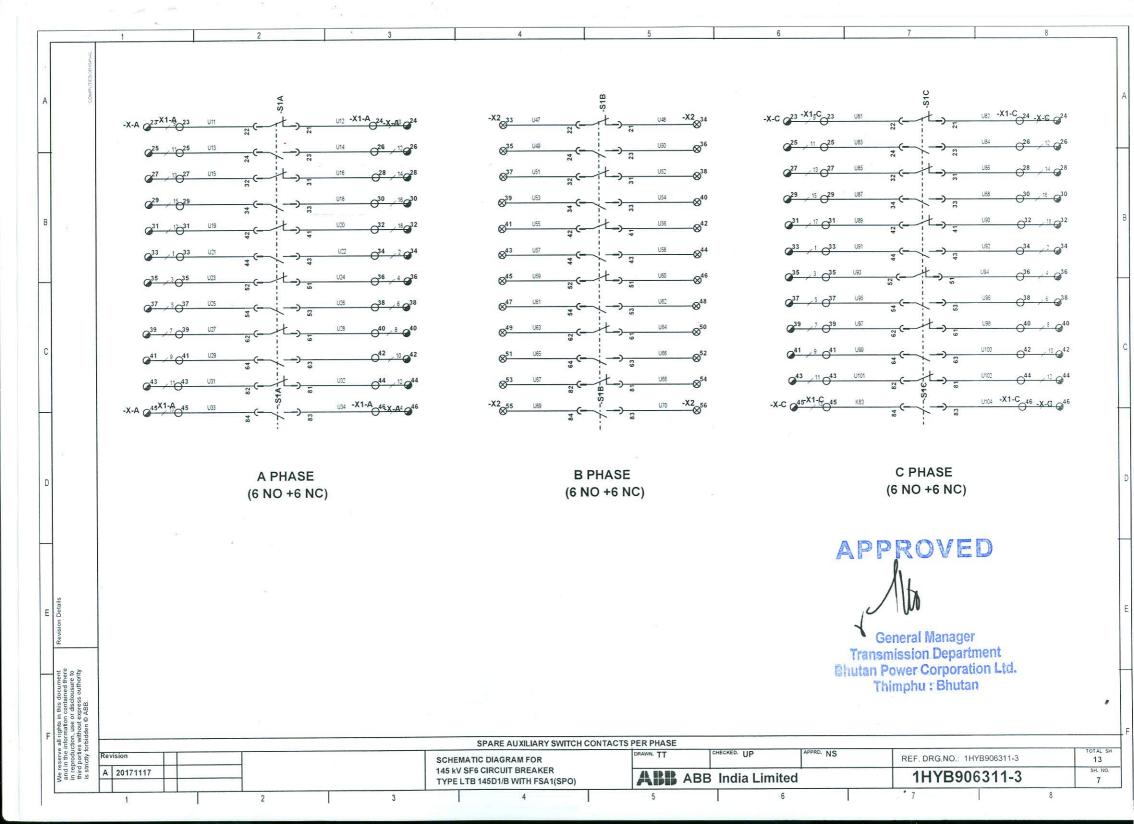


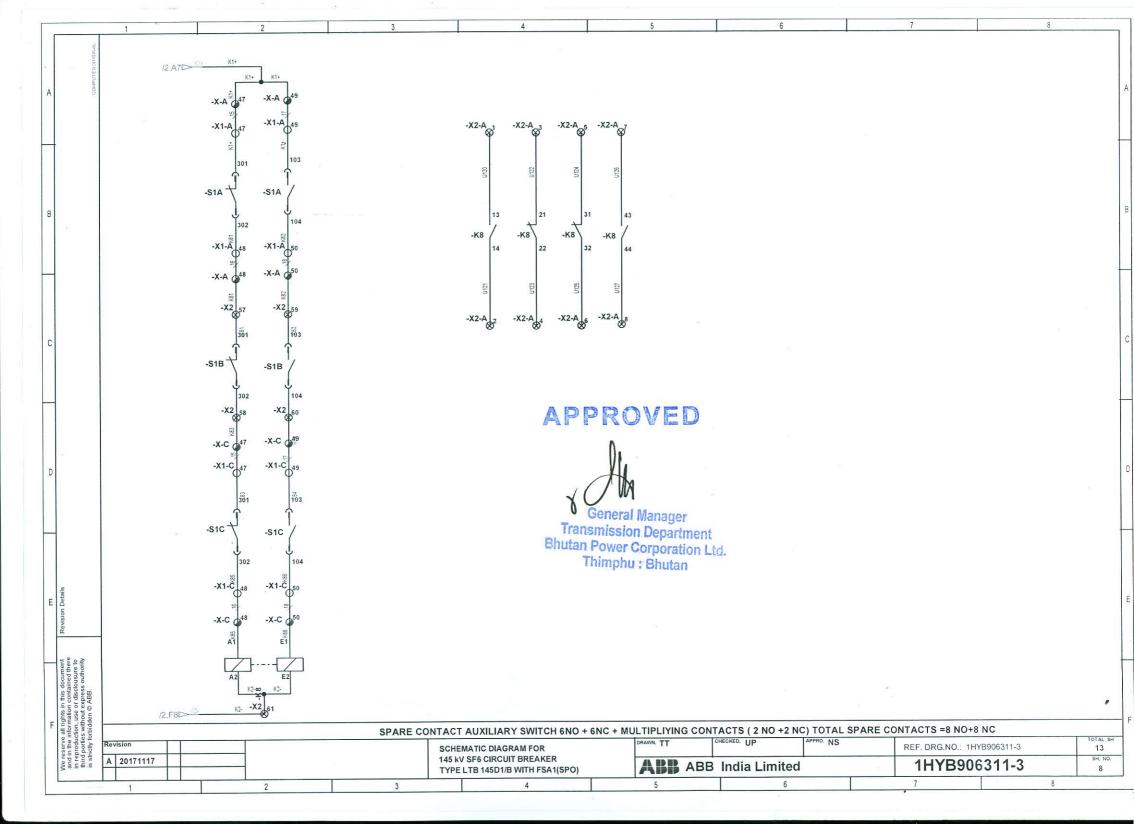


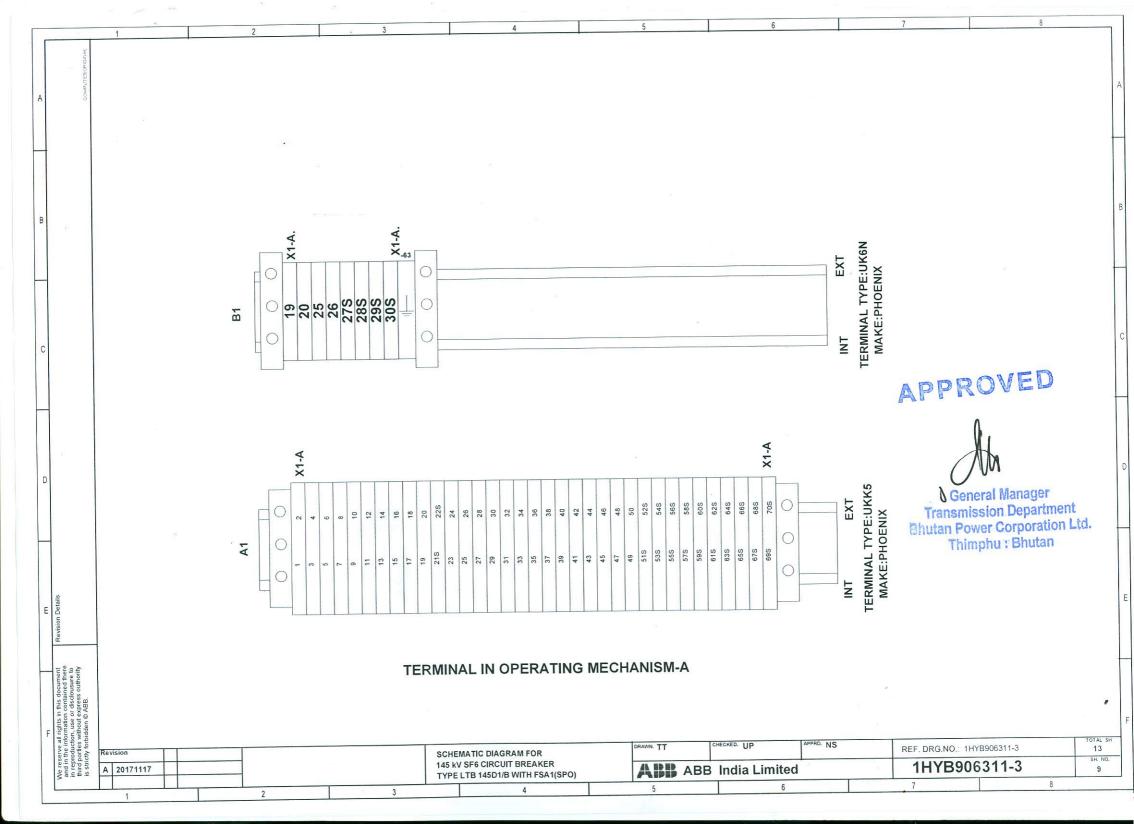


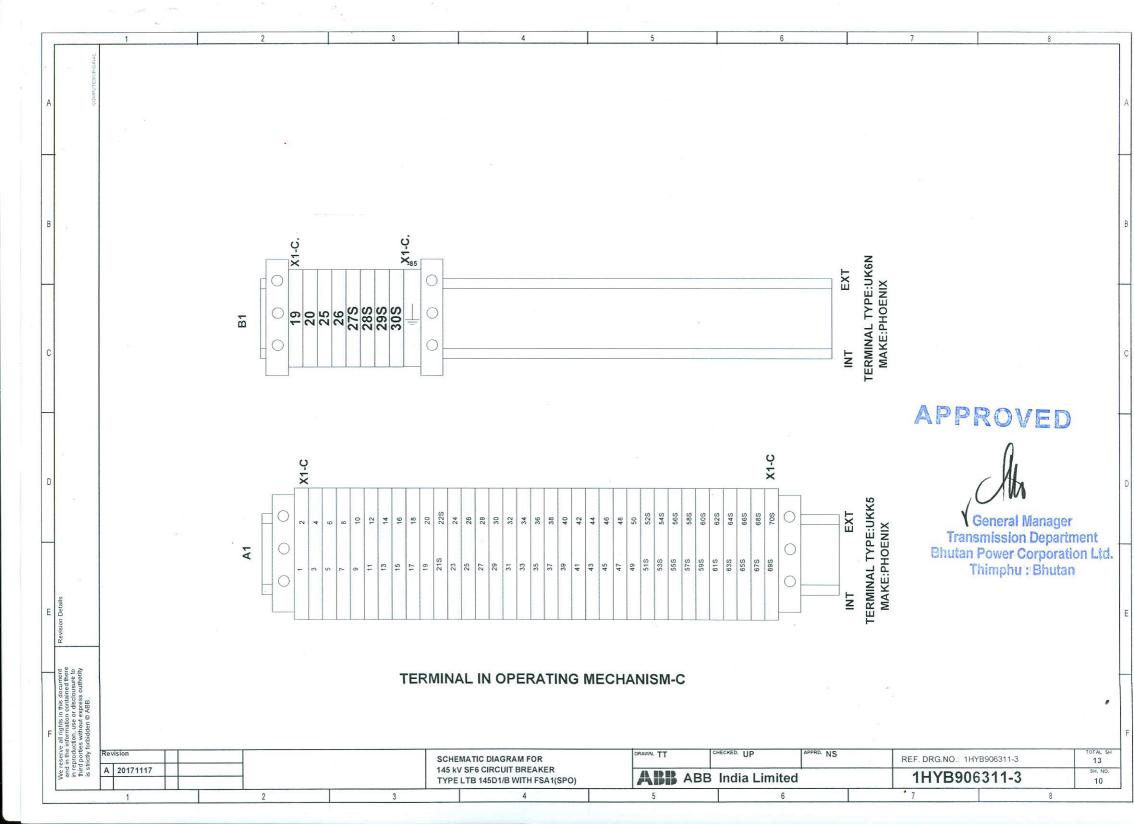


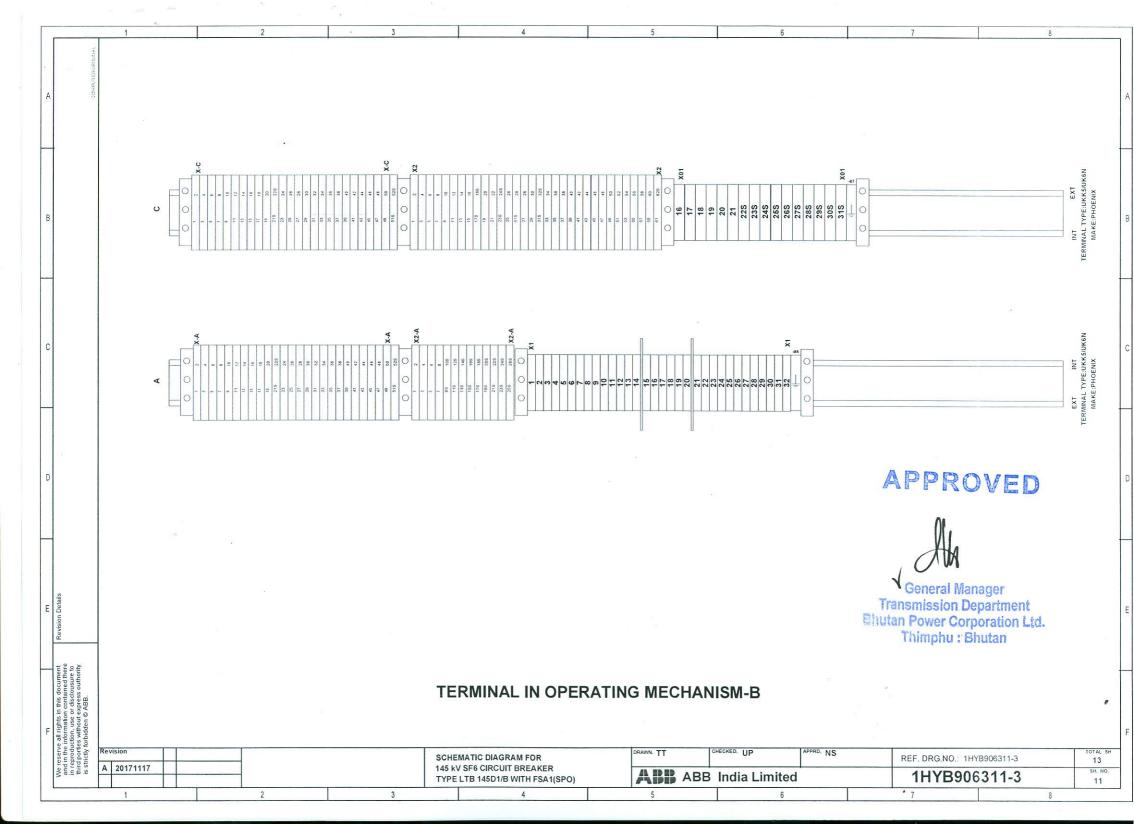






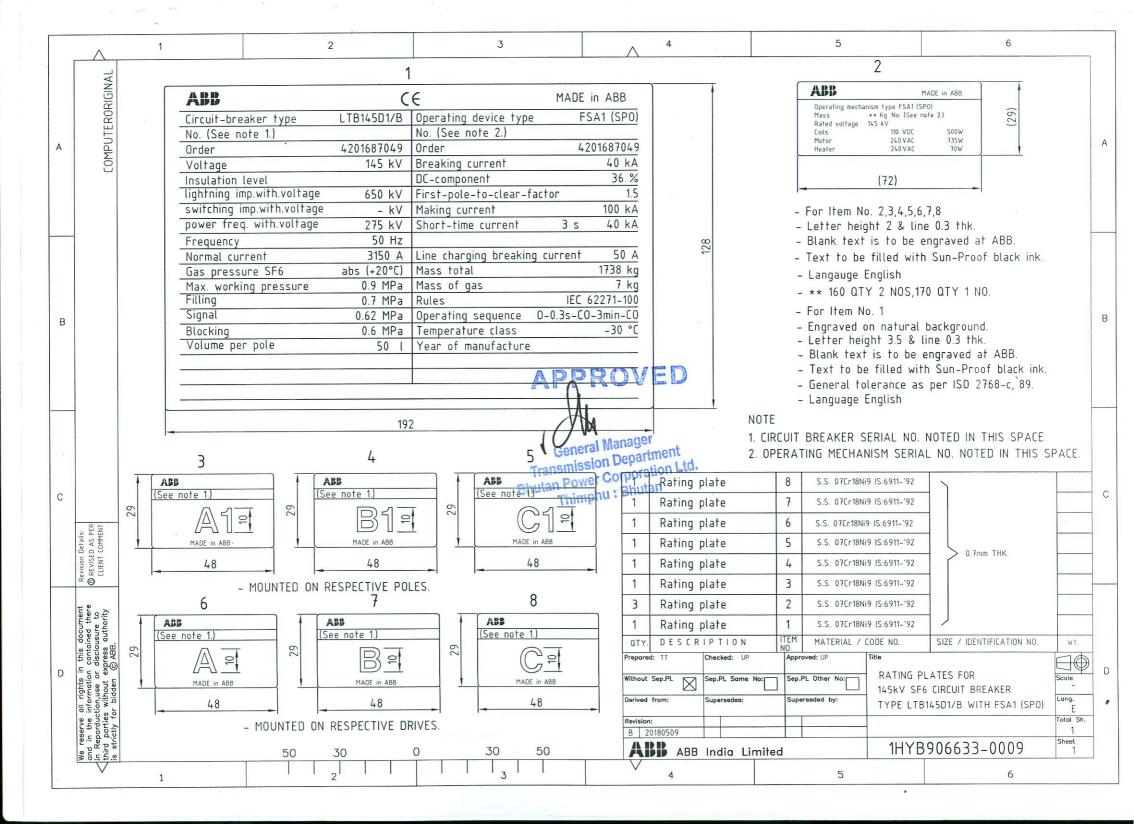


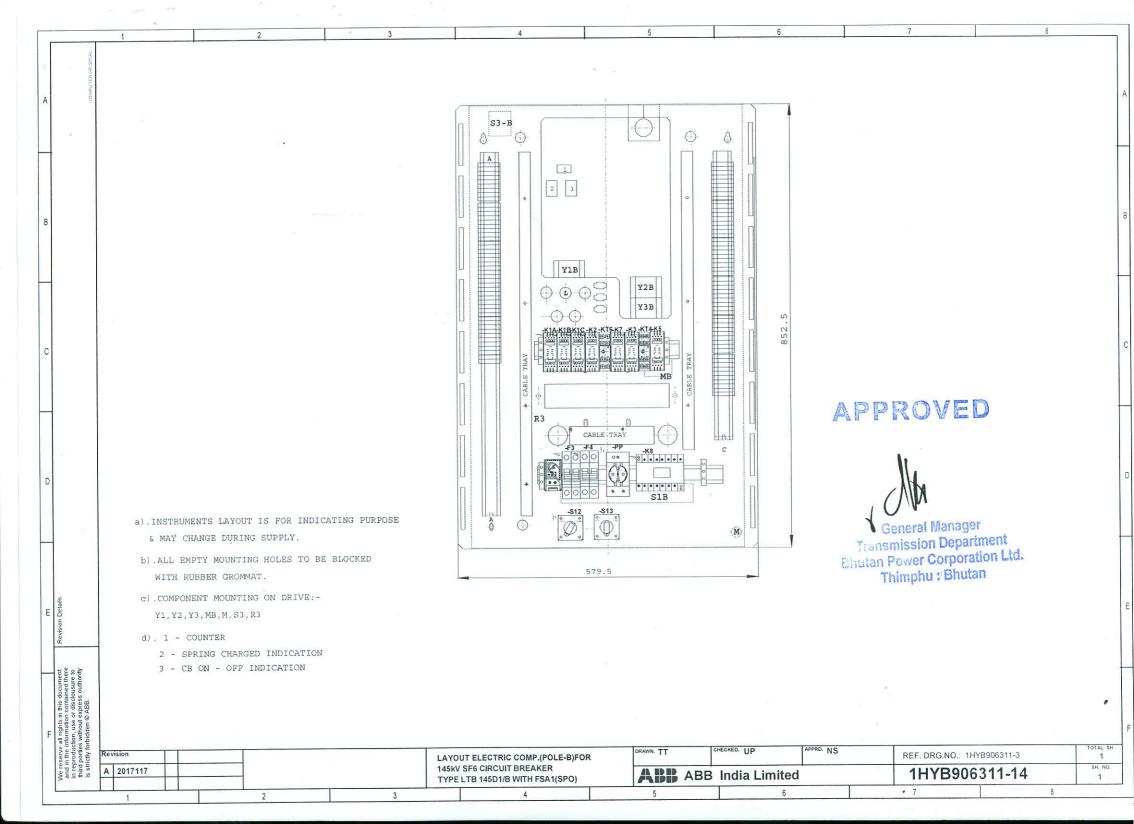


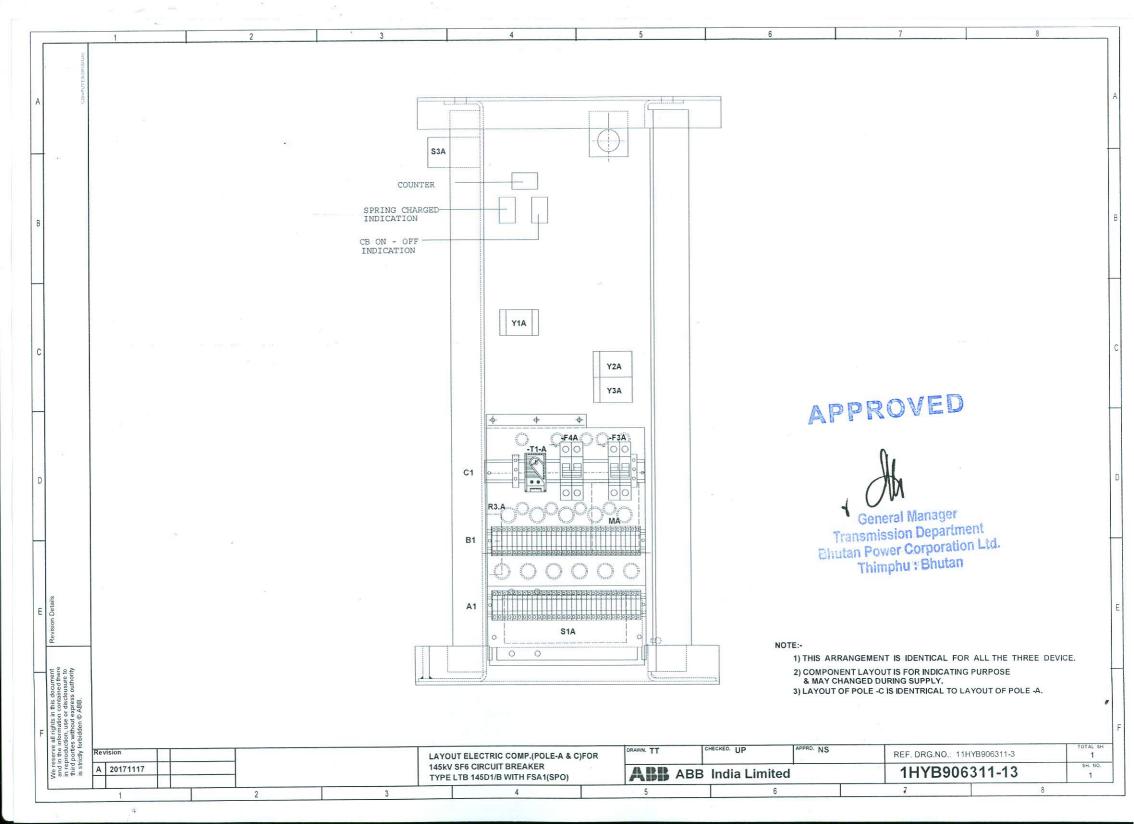


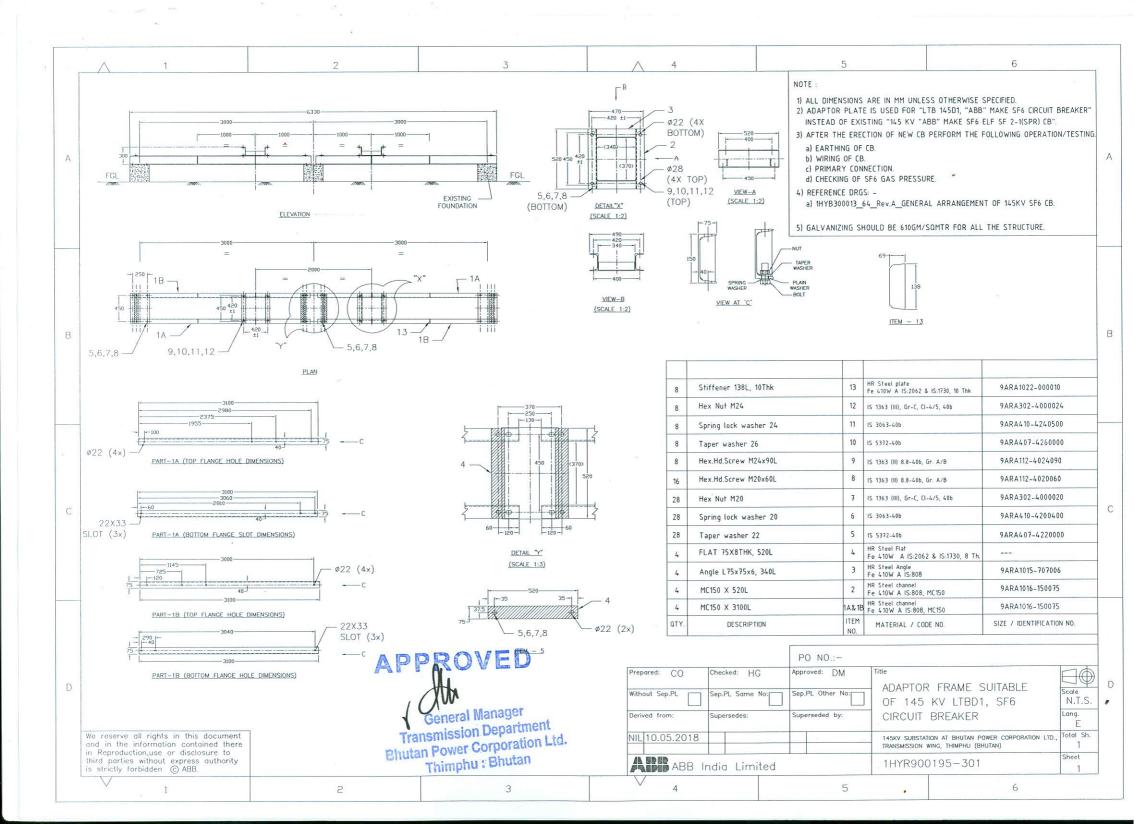
ndey05	SL.	ITEM DESIGNATION	DESCRIPTION									
	1	+DM-F2	SF6 GAS DENSITY MONITOR									
	2	+DM-X0(6)	TERMINAL IN DM									
	3	+OM-A-F3A	· 2 POLE MCB-MOTOR-A DRIVE									
	4	+OM-A-F4A	2 POLE MCB-HEATER-A DRIVE		1	201000000000000000000000000000000000000						
	5	+OM-A-MA	MOTOR-A DRIVE									
	6	+OM-A-R3A	HEATER-A DRIVE			1879						
	7	+OM-A-S1A	AUXILIARY SWITCH-A DRIVE			31						
	8	+OM-A-S3-A	MOTOR LIMIT SW A DRIVE	E DE LOS DE LOS DE LA CONTRACTOR DE LA C								
	9	+OM-A-T1-A	THERMOSTAT									
	10	+OM-A-X1-A	TERMINAL OM UKK5		· · · · · · · · · · · · · · · · · · ·							
	11	+OM-A-X1-A,	TERMINAL CC UK6N									
	12	+OM-A-Y1A	CLOSE COIL-A DRIVE									
	13	+OM-A-Y2A	TRIP-I COIL-A DRIVE									
	14	+OM-A-Y3A	TRIP-II COIL-A DRIVE									
	15	+OM-B-F3	2 POLE MCB-MOTOR-B DRIVE									
	16	+OM-B-F4	2 POLE MCB-HEATER									
	17	+OM-B-K1A	ANTIPUMPING RELAY									
	18	+OM-B-K1B	ANTIPUMPING RELAY									
	19	+OM-B-K1C	ANTIPUMPING RELAY									
	20	+OM-B-K2	GAS SUPERVISION RELAY									
	21	+OM-B-K3	GAS SUPERVISION RELAY									
	22	+OM-B-K5	POLE DISCREPANCY RELAY									
2	23	+OM-B-K7	POLE DISCREPANCY RELAY					ABBBB	MED			
1	24	+OM-B-K8	MULTIPLYING CONTACTOR					APPRO	VEL			
	25	+OM-B-KT4	TIMER									
	26	+OM-B-KT6	TIMER-POLE DISCREPENCY									
	27	+OM-B-L	ILLUMINATING LAMP						1			
	28	+OM-B-M	DOOR LIMIT SWITCH					A				
1	29	+OM-B-MB	MOTOR-B DRIVE						The			
sion Details	30	+OM-B-PP	SOCKET (OUTLET)					10	VVI			
	31	+OM-B-R3	HEATER									
	32	+OM-B-S1B	AUXILIARY SWITCH-B DRIVE					Transmiss	Transmission Denur ment			
	33	+OM-B-S3-B	MOTOR LIMIT SW B DRIVE					rudifelemesion Department rudifelemesion Ltd.				
	34	+OM-B-S12	LOCAL REMOTE S/W			B		inamisasinent	bas sildmitan			
	35	+OM-B-S13	CONTROL S/W TRIP CLOSE					Manager	ilan men Directi			
1 2 5 E	36	+OM-B-T1	THERMOSTAT			8						
usure outho	37											
disclor ress (38	+OM-B-X-C TERMINAL MB UKK5						a a				
ation course or	39	+OM-B-X1	TERMINAL CC UK6N									
inform ction, us ss with orbidde					-995							
Sie grandin	Revision			BILL OF MATERIAL FOR		DRAWN. TT	CHECKED. UP					
is the is	A 201711	117		145 kV SF6 CIRCUIT BREAK TYPE LTB 145D1/B WITH FS		AL HOUR	B India Limited	4117/2	3906311-3			

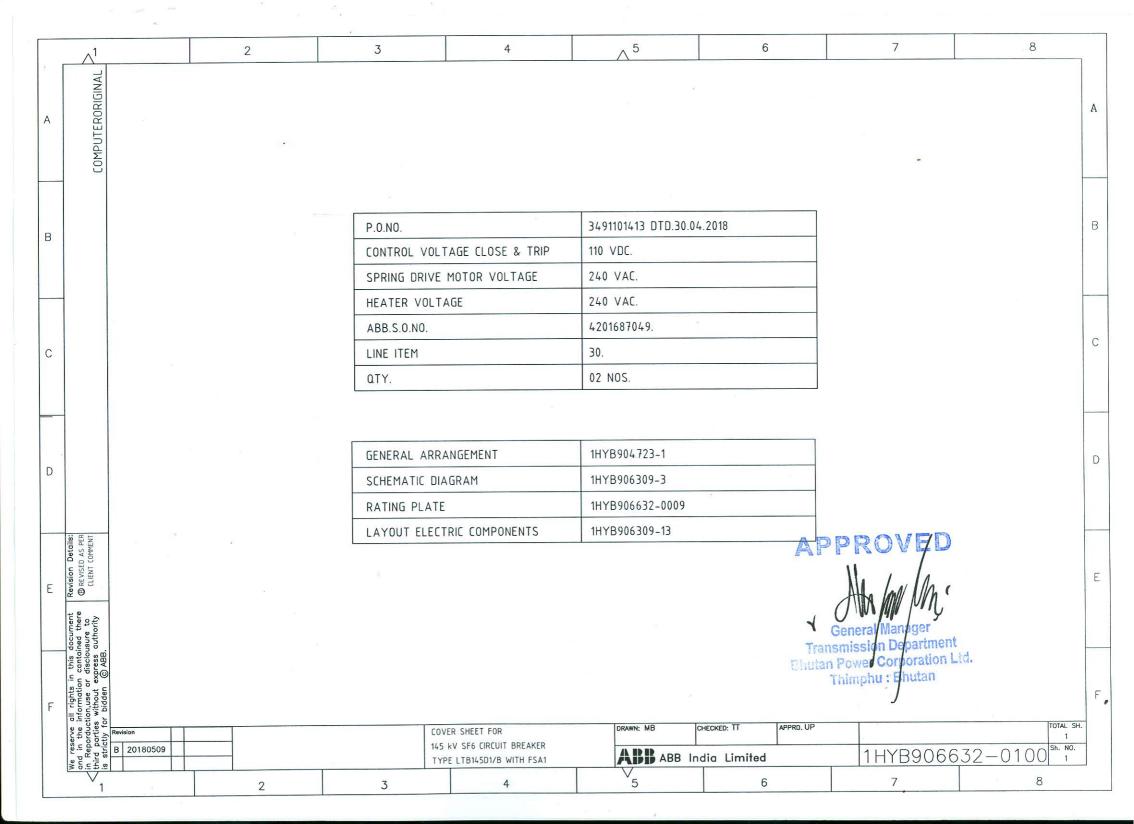
RORISMIAL	Bill	of Material	. 3		4	5	6		7	8
STURMOS	SL.	ITEM DESIGNATION	DESCRIPTION							
	40	+OM-B-X2-A	TERMINAL CC UKK5							
	41	+OM-B-X2	TERMINAL CC UKK5							
	42	+OM-B-X01	TERMINAL CC UK6N							
	43	+OM-B-Y1B	CLOSE COIL-B DRIVE							
	44	+OM-B-Y2B	TRIP-I COIL-B DRIVE							
	45	+OM-B-Y3B	TRIP-II COIL-B DRIVE	- 14						
	46	+OM-C-F3C	2 POLE MCB-MOTOR-C DRIVE							
	47	+OM-C-F4C	2 POLE MCB-HEATER-C DRIVE							
		+OM-C-MC	MOTOR-C DRIVE	50K						
	48		HEATER-C DRIVE							
	49	+OM-C-R3C								
	50	+OM-C-S1C	AUXILIARY SWITCH-C DRIVE							
	51	+OM-C-S3-C	MOTOR LIMIT SW C DRIVE							
	52	+OM-C-T1-C	THERMOSTAT							
	53	+OM-C-X1-C	TERMINAL OM UKK5				8			
	54	+OM-C-X1-C.	TERMINAL CC UK6N							
	55	+OM-C-Y1C	CLOSE COIL-C DRIVE							
	56	+OM-C-Y2C	TRIP-I COIL-C DRIVE							
	57	+OM-C-Y3C	TRIP-II COIL-C DRIVE						PPROV	
norty			-					- T	General Transmission Bhutan Power Thimph	Manager on Department Corporation Ltd. u : Bhutan
9 5	vision 201711	17		BILL OF MATERIAI 145 kV SF6 CIRCUI TYPE LTB 145D1/E	IT BREAKER	DRAWN. TT	CHECKED. UP ABB India Limi	APPRD. NS	1HYB	906311-3

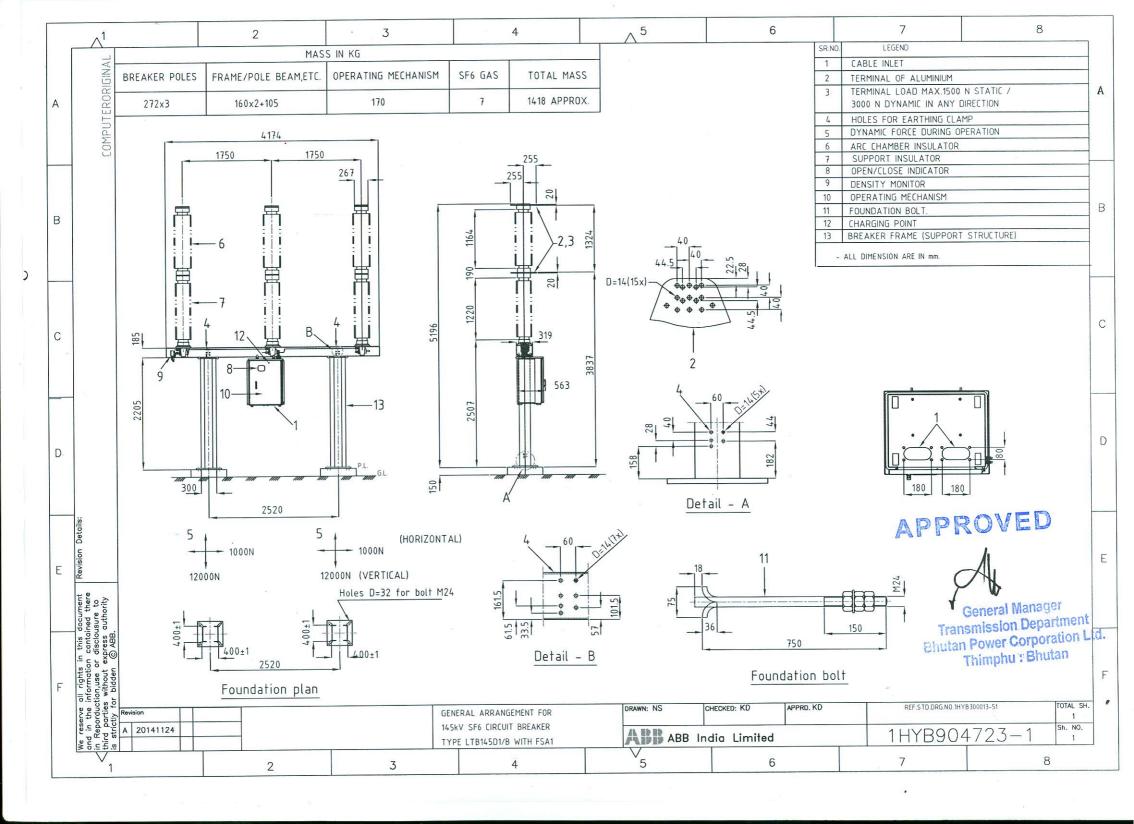


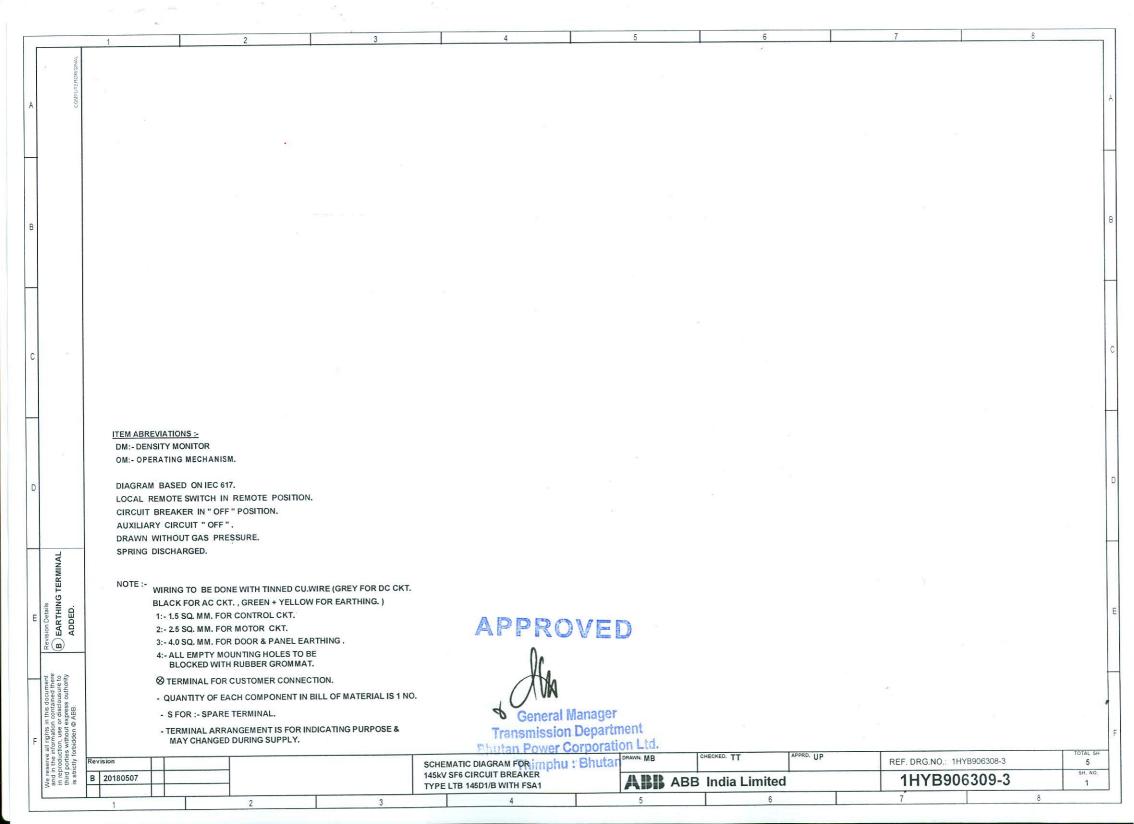


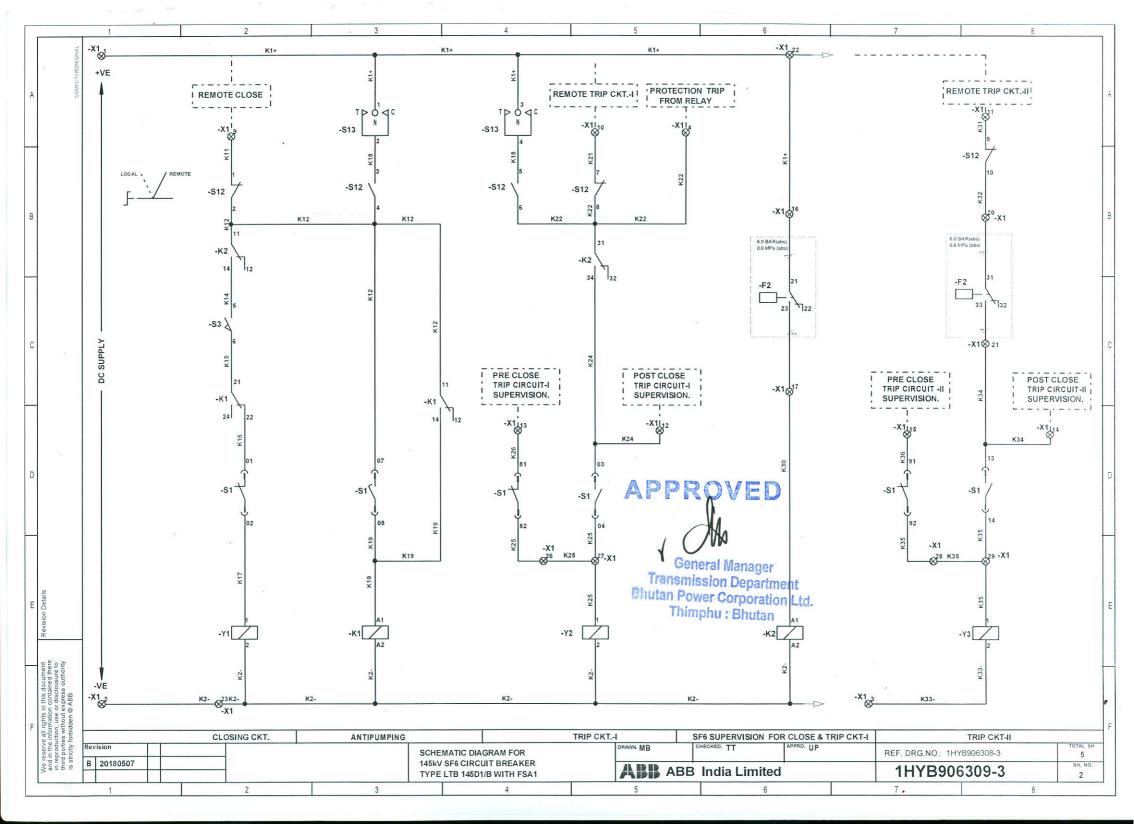


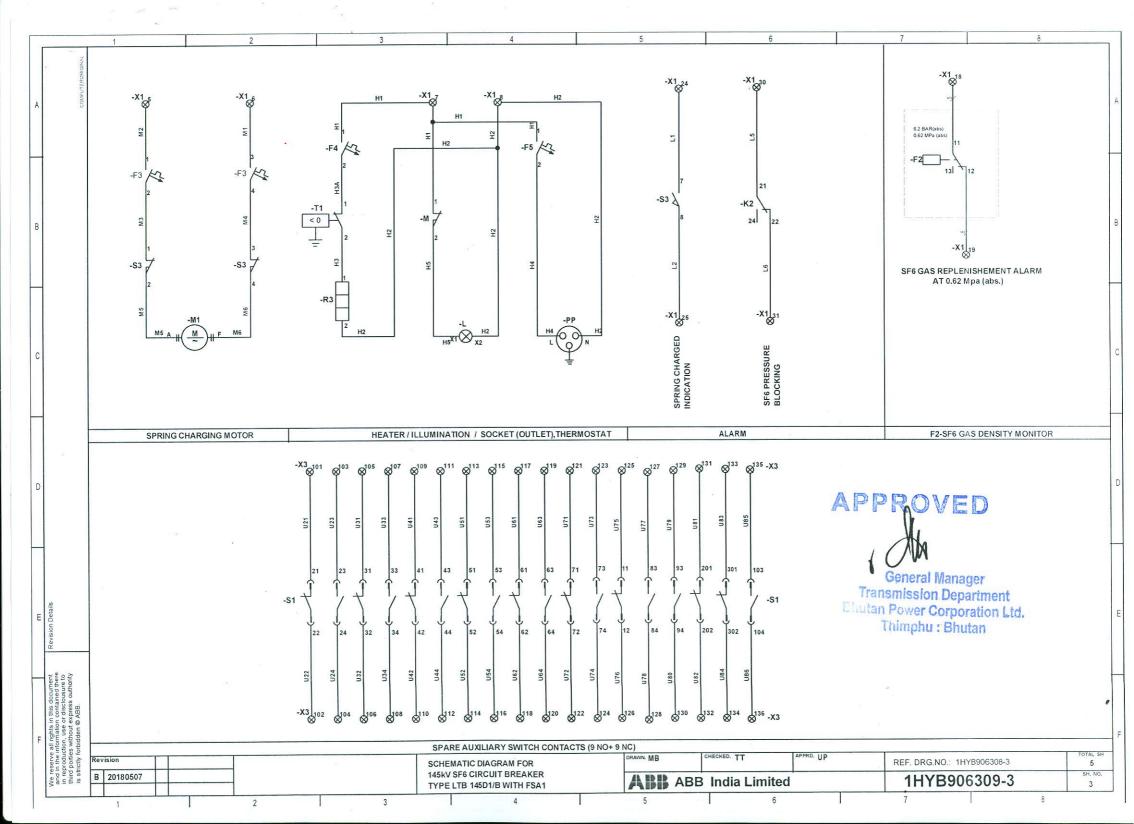


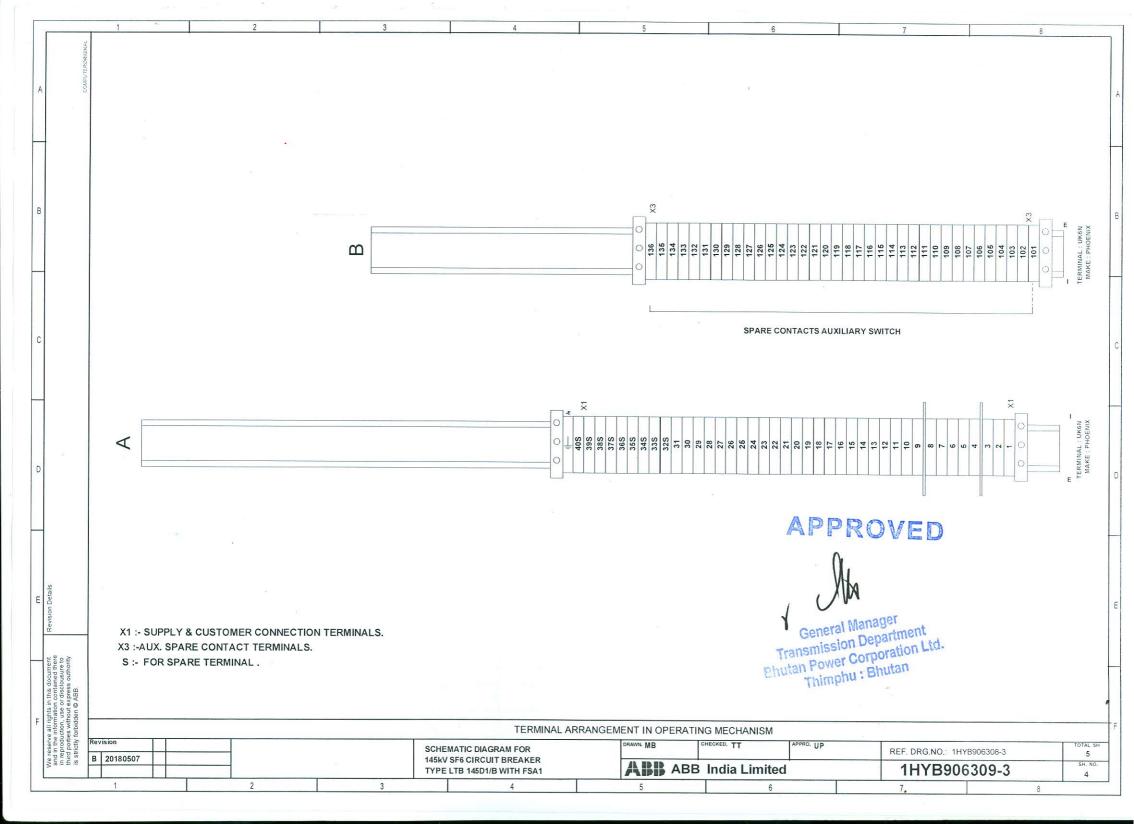












Bill of Material DESCRIPTION ITEM DESIGNATION SL. SF6 GAS DENSITY MONITOR +DM-F2 2 POLE MCB-MOTOR +OM-F3 1 POLE MCB-HEATER +OM-F4 1 POLE MCB-SUPPLY SOCKET +OM-F5 ANTI PUMPING RELAY +OM-K1 6 GAS SUPERVISION RELAY +OM-K2 IILUMINATION LAMP +OM-L DOOR LIMIT SWITCH +OM-M SPRING CHARGING MOTOR +OM-M1 SOCKET(OUTLET) 10 +OM-PP HEATER 11 +OM-R3 **AUXILIARY CONATCT** 12 +OM-S1 13 +OM-S3 MOTOR LIMIT SWITCH 14 +OM-S12 LOCAL REMOTE SWITCH CONTROL S/W TRIP CLOSE 15 +OM-S13 LOCAL REMOTE NAME PLATE IN - ENGLISH 16 +OM-S121 CLOSE TRIP NAME PLATE IN - ENGLISH 17 +OM-S131 18 THERMOSTAT EXPORT +OM-T1 TERMINAL CC UK6N 19 +OM-X1 TERMINAL CC UK6N 20 +OM-X3 APPROVED 21 CLOSE COIL +OM-Y1 TRIP-I COIL 22 +OM-Y2 23 TRIP-II COIL +OM-Y3 **General Manager** Transmission Department Bhutan Power Corporation Ltd. Thimphu: Bhutan APPRD. UP DRAWN. MB CHECKED. TT Revision APPARATUS LIST FOR 145kV SF6 CIRCUIT BREAKER B 20180507 ABB India Limited 1HYB906309-3 TYPE LTB 145D1/B WITH FSA1 7. 8 3

