

USED ON: V5506C REV 01									
IF IN DOUBT, ASK									
FILE NAME: DRG NO. V6Q12983									
CROMPTON GREAVES LTD.									
NOTES:-									
1) AC AND DC CHANGE OVER SCHEME SHALL BE PROVIDED ON INCOMER LINE PT PANEL. 2) AC AND DC FAILURE SCHEME SHALL BE PROVIDED ON INCOMER LINE PT PANEL. 3) MFR RELAY, PILOT WIRE DIFFERENTIAL RELAY SHALL BE BASED ON IEC 61850 COMMUNICATION PROTOCOL. 4) ALL THE METERS USED SHALL BE MICROPROCESSOR BASED MULTIFUNCTION TYPE WITH COMMUNICABLE ON MODBUS PROTOCOL. 5) 240 VAC AND 220V DC SUPPLY SHALL BE IN TEL SCOPE. 6) MANAGEABLE ETHERNET SWITCH SHALL BE PROVIDED ON INCOMER LINE PT PANEL. 7) TEL/CLIENT TO FURNISH THE CABLE SIZES FOR CBCT DESIGN.									
- FOR LEGENDS & SYMBOLS REF. V6Q0017									
CUSTOMER- TRIVENI TURBINE LIMITED W.O.NO. V5506C THIRD ANGLE PROJECTION SINGLE LINE DIAGRAM FOR 6.8KV RESERVE SUPPLY DISTRIBUTION SCHEME									
Crompton Greaves Ltd MV Switchgear Division Ambad, Nashik, India									
SCALE: NTS SHEET 1 OF 4 DATE: 24.08.13 REVISION: 01 ALL DIMENSIONS ARE IN mm DRG. NO. V6Q12983 REV 01									

EQUIPMENTS	
SYMBOL	DESCRIPTION
	VACUUM CIRCUIT BREAKER MOTOR OPERATED SPRING CHARGED
	- DRAWOUT DEVICE
	PT- 3PH, 5 LIMB DRAWOUT TYPE POTENTIAL XMER WITH DUAL SECONDARY WDGs (IND. INDICATES QUANTITY)
	CT- CURRENT TRANSFORMER (IND. INDICATES QUANTITY)
	CBCT- CORE BALANCE CURRENT TRANSFORMER (IND. INDICATES QUANTITY)
	HT HRC FUSE
	MCB
	LOCAL/REMOTE SELECTOR SWITCH (STAY-PUT TYPE)
	TRIP NEUTRAL CLOSE SELECTOR SWITCH PISTOL GRIP TYPE
	6 WINDOW ANNUNCIATOR
	12 WINDOW ANNUNCIATOR
	ELECTRONIC HOOTER
	TEST TERMINAL BLOCK FOR CTS AND PTs
MFR	MULTI FUNCTION RELAY

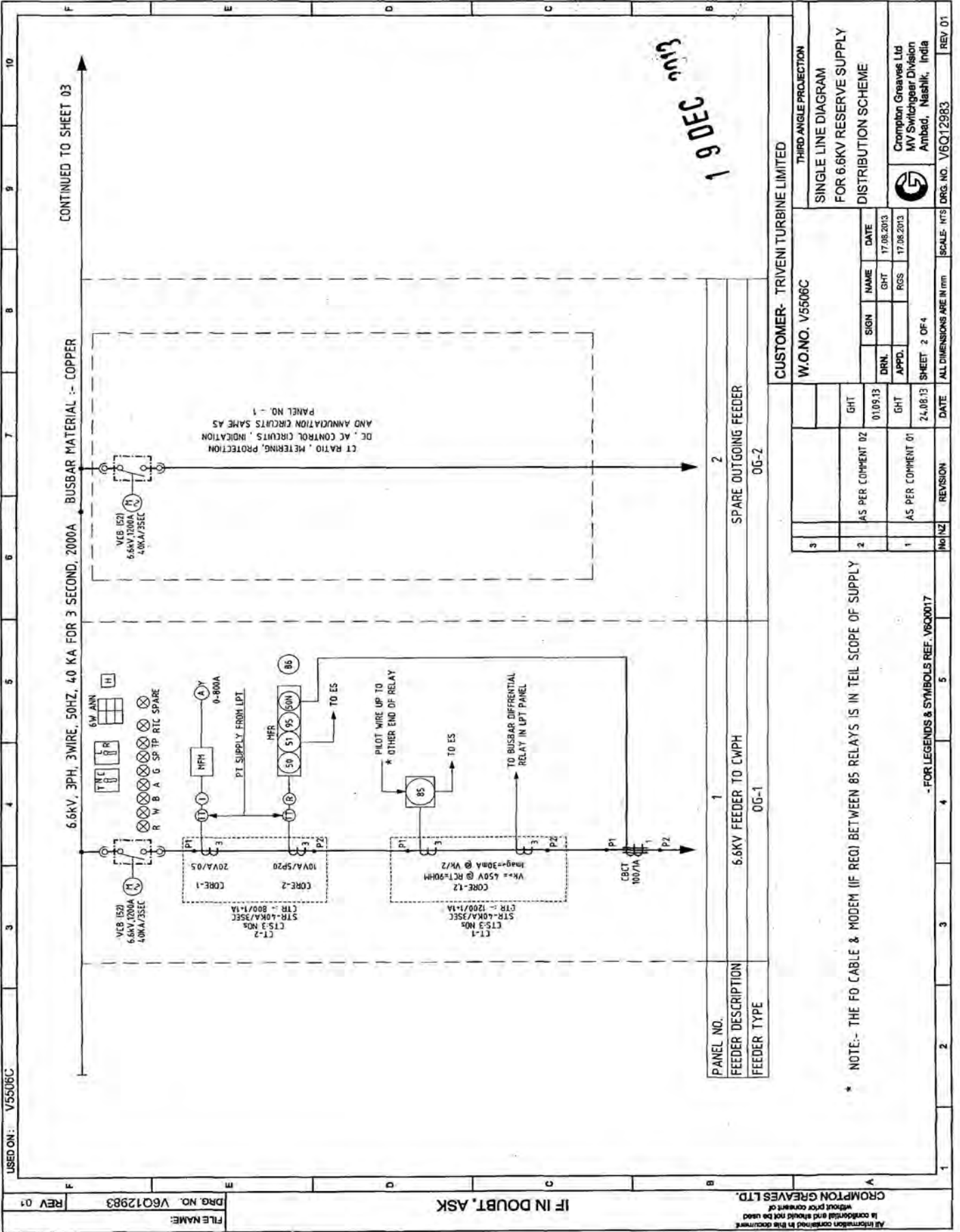
EQUIPMENTS	
SYMBOL	DESCRIPTION
	ANALOG AMMETER 144 SDMM- FOR ALL FEEDERS (IND. INDICATES QUANTITY)
	ANALOG VOLTMETER 144 SDMM- FOR ALL FEEDERS
	VOLTMETER SELECTOR SWITCH (4 POSITION SWITCH)
	MULTIFUNCTION METER COMMUNICABLE ON MODBUS PROTOCOL

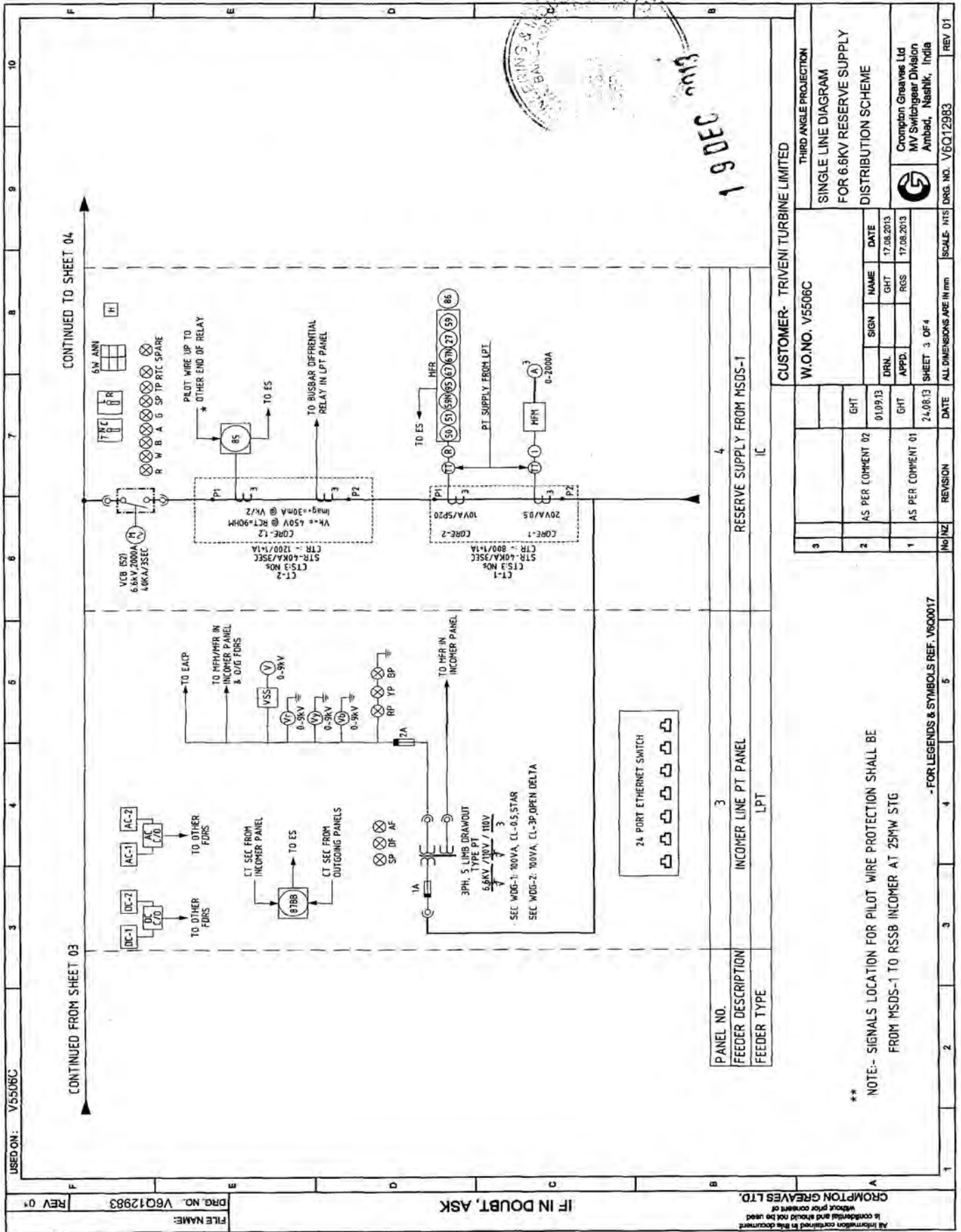
INDICATING LAMPS	
SYMBOL	DESCRIPTION
	INDICATION LAMP FOR BREAKER ON (RED)
	INDICATION LAMP FOR TRIP CIRCUIT HEALTHY (WHITE)
	INDICATION LAMP FOR BREAKER OFF (GREEN)
	INDICATION LAMP FOR AUTO TRIP (AMBER)
	INDICATION LAMP FOR BREAKER SPRING CHARGED (BLUE)
	INDICATION LAMP FOR BKR IN SERVICE (GREEN)
	INDICATION LAMP FOR BKR IN TEST (RED)
	INDICATION LAMP FOR BKR READY TO CLOSE (GREEN)
	INDICATION LAMP FOR R-PH VOLTAGE PRESENCE
	INDICATION LAMP FOR Y-PH VOLTAGE PRESENCE
	INDICATION LAMP FOR B-PH VOLTAGE PRESENCE
	SPARE INDICATION LAMP (GREEN)

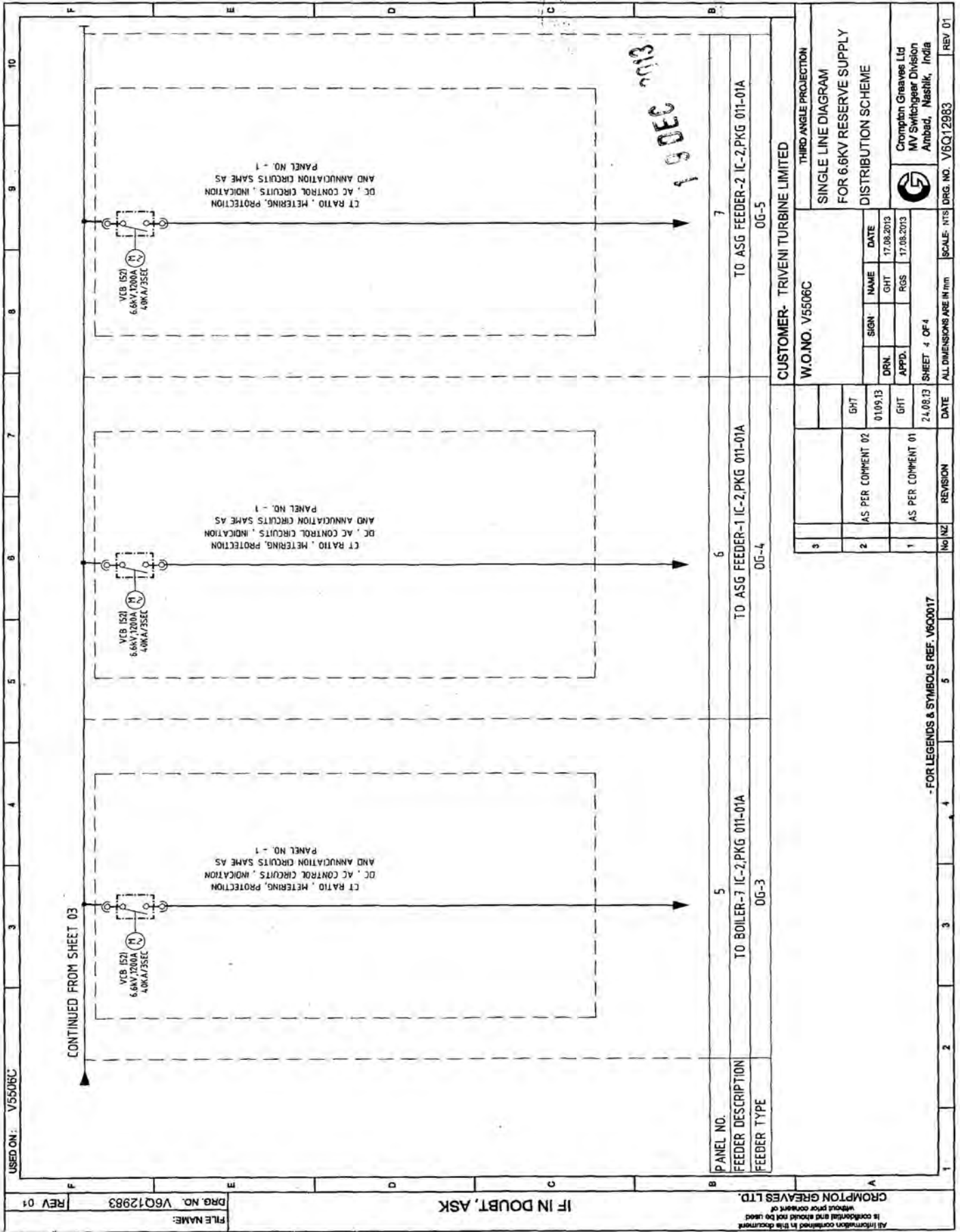
EQUIPMENTS	
SYMBOL	DESCRIPTION
	UNDER VOLTAGE RELAY
	NEUTRAL DISPLACEMENT RELAY
	RATE OF CHANGE OF FREQUENCY RELAY
	PT FUSE FAILURE RELAY
	COMPREHENSIVE D/C & E/F RELAY WITH INBUILT TRIP CIRCUIT SUPERVISION FACILITY
	MASTER TRIP RELAY
	NUMERICAL PILOT WIRE DIFFERENTIAL RELAY

EQUIPMENTS	
SYMBOL	DESCRIPTION
MFR	MULTI FUNCTION RELAY
ADF	AC/DC FAILURE SCHEME
DC C/O	DC CHANGE OVER SCHEME
AC C/O	AC CHANGE OVER SCHEME
I	INSTRUMENTS
R	RELAYS
VCB	VACUUM CIRCUIT BREAKER
ES	ETHERNET SWITCH

13 DEC 2013







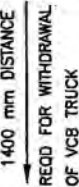




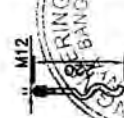
Wt. =


☒ TRENCH FOR POWER & CONTROL CABLE

 INDICATES ACTUAL OPENING PROVIDED IN THE BOTTOM FRAME OF SWG. PANEL



M12



3					ALL DIMENSIONS IN mm.			THIRD ANGLE PROJECTION	
					SIGN	NAME	DATE	<b>FOUNDATION PLAN FOR</b> <b>800W, 2090D JV40KA CALIX</b>  Clomption Greaves Ltd MV Switchgear Division Ambad, Nashik, India	
2					ORN.	YSK	22.01.11		
					CHD.	RGS	22.01.11		
					APPD.	RGS	22.01.11		
1					EXHA. VALVES SHALL BE FOR THE LOWER CHIMNEY SIZES				
					SCALE		1:1		
NO.					DATE	REVISION	SHEET 1 OF 1	DRG.NO. TV1022Q REV.0	

W.O.NO.V5506C

6.6kV HT SWITCHBOARD FOR RSSB

Sr.No.	Drg No.	Drg Description	Page No	25.09.13 BSP Comment 1	13.11.13 CGL Reply 1	Remarks
1	V6Q12983	SLD	2	Revised CTR to 800/1+1A. Add 87BB in LPT panel. CBCT ratio should be 100/1A	Complied	
2	V6Q12983	SLD	3	3No. 1-ph voltmeter shall be provided in LPT & general comments	Complied	
3	V4Q8421	GA	3	Remove Marshalling Panel	Complied	
4	V4Q8421	GA	5	Annunciator shall be dual supply AC/DC. R,Y,B ph indication is not required for I/C, O/G. Add 87BB relay, 3No. 1-ph voltmeter in LPT panel	Complied	
5	V6Q13121	Power circuit	1	general comment	Complied	
6	V6Q13121	Power circuit	2	additional CT core and 87BB relay	Complied	
7	V6Q13121	incomer	3_9	General Comments	Complied	
8	V6Q13123	LPT	2	Add 87BB in LPT panel	Complied	
9	V6Q13123	LPT	3	remove ACDC fail relay	Complied	
10	V6Q13125	Outgoing panel	1_9	General comments same as incomer	Noted	

W.O.NO.V5506C

6.6kV HT SWITCHBOARD FOR RSSB

Sr.No.	Drg No.	Drg Description	Page No	Mecon comment 1	CGL Reply 1	Remarks
1	3110	Title Block	1	General Comments	Noted	
2	V4Q8421	GA	5	59/59N/27/60 in LPT Panel	all the protection is inbuilt function of MFR in Incomer	
3	V4Q8401	GA	6	Ammeter for R and B phase is not given for O/G Feeder	As per approved SLD, and MOM with M/s MECON and BSP, only one ammeter is required in middle phase. We request your approval on the same.	
4	V6Q13121	schematic	1_9	General Comments	noted	
5	V6Q13125	schematic	1_9	General Comments	noted	