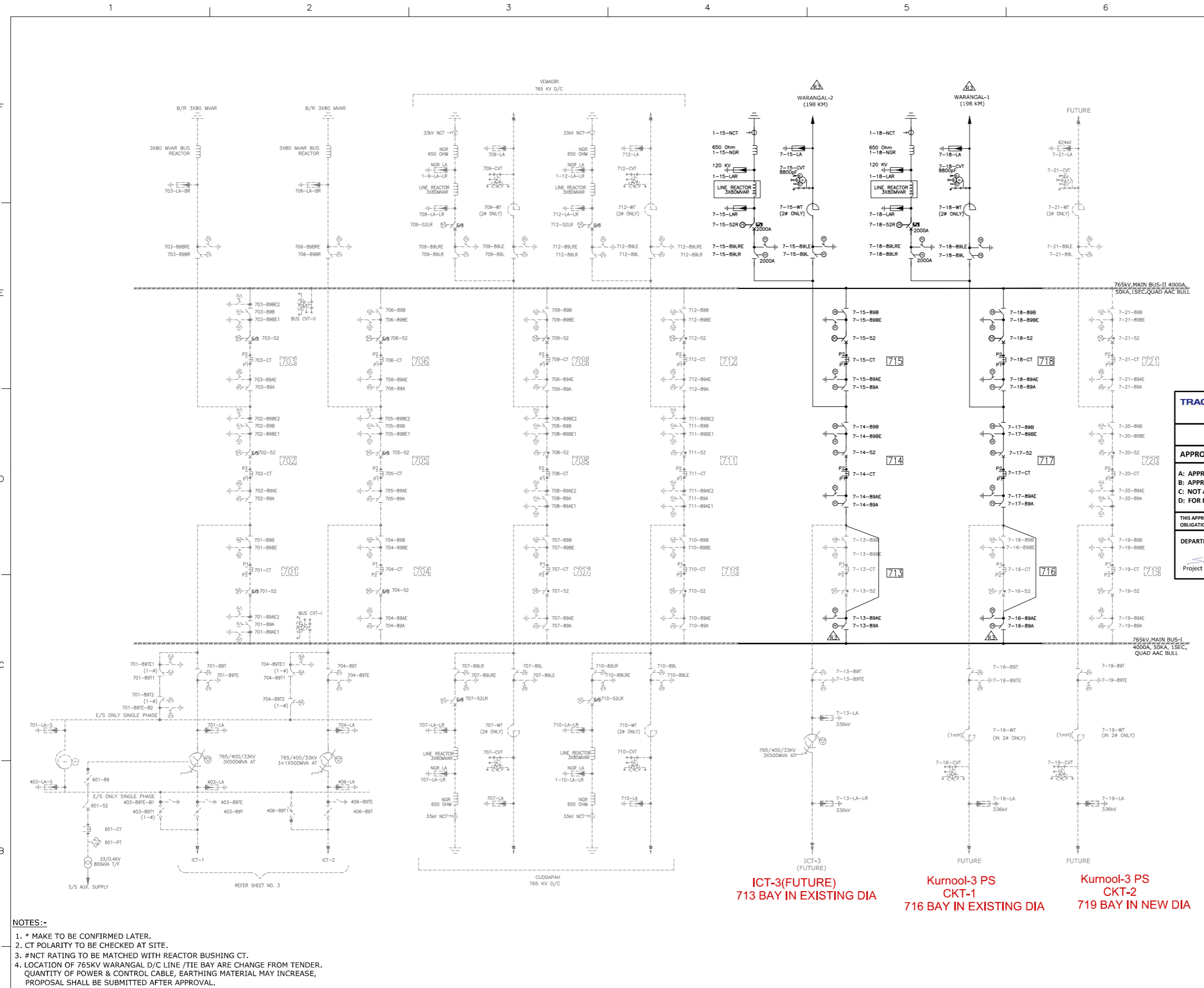


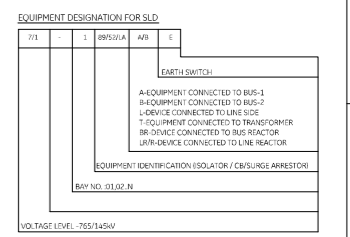
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SL No.	DESCRIPTION	MAKE	LOCATION	ENGG. QTY.	UNIT	SYMBOL
1	765KV, 80 MVAR LINE REACTOR, 1-PHASE	GE		06	NOS.	
2	145KV, 650 OHM, NGR FOR 1 BANK OF 3-PH. LINE REACTOR	*	1-15-NGR, 1-18-NGR	02	NOS.	
3	120KV LA FOR 1 BANK OF 3-PH. LINE REACTOR	CGL	1-15-LAR, 1-18-LAR	02	NOS.	
4	#33KV,300-1 AMP NCT FOR 1 BANK OF 3-PH. LINE REACTOR	*	1-15-NCT, 1-18-NCT	02	NOS.	
5	765KV, 2000A, 50 KA, 1SEC SF6, 3-PH. CIRCUIT BREAKER WITH CONTROL SWITCHING W/O CLOSING RESISTOR	GE	7-15-52R, 7-18-52R	02	NOS.	
6	765KV, 3150A, 50 KA, 1SEC SF6, 3-PH. CIRCUIT BREAKER WITHOUT CONTROL SWITCHING W/O CLOSING RESISTOR	GE	7-14-52, 7-15-52, 7-17-52, 7-18-52	04	NOS.	
7	765KV, 3150A, 50 KA, 1SEC, 3-PH. (KNEE TYPE) ISOLATOR WITH ONE EARTH SWITCH	C&S	7-13-89A, 7-14-89A, 7-16-89B, 7-15-89A, 7-17-89A, 7-18-89B, 7-18-89A, 7-18-89R, 7-18-89L	12	SET	
8	765KV, 2000A, 50KA, 1SEC, 3-PHASE, (KNEE TYPE) ISOLATOR WITH ONE EARTH SWITCH	*	7-15-89LR, 7-18-89LR	02	NOS.	
9	765KV, 1-PH CURRENT TRANSFORMER 3000A/46 CORES 50KA-1 SEC 120% EXTENDED CURRENT RATING	GE	7-14-CT, 7-15-CT, 7-17-CT, 7-18-CT	12	NOS.	
10	765KV, 8800PF, 1-PH CVT IS CORE	GE	7-15-CVT, 7-18-CVT	06	NOS.	
11	765KV, 3150A, 50KA, 1 SEC, 1 MH, 1-PH WT	GE	7-15-WT, 7-18-WT	04	NOS.	
12	624KV, 20KA LIGHTNING ARRESTER (1-Ø)	CGL	7-15-LA7, 7-15-LAR, 7-18-LA7, 7-18-LAR	12	NOS.	

SLNO.	DESCRIPTION OF PARAMETER	765KV SYSTEM
1	SYSTEM OPERATING VOLTAGE	765KV
2	MAX OPERATING VOLTAGE OF THE SYSTEM (rms)	800KV
3	RATED FREQUENCY	50Hz
4	NO. OF PHASES	3
5	RATED INSULATION LEVELS i) FULL WAVE LIGHTNING IMPULSE WITHSTAND VOLTAGE (1.2/50microsec) ii) SWITCHING IMPULSE WITHSTAND VOLTAGE (250/2500microsec) DRY & WET iii) ONE MINUTE POWER FREQUENCY DRY WITHSTAND VOLTAGE (rms) iv) ONE MINUTE POWER FREQUENCY DRY & WET WITHSTAND VOLTAGE (rms)	±2100kVp ±1550kVp 830kVp -
6	CORONA EXTINCTION VOLTAGE	508kV
7	MAX RADIO INTERFERENCE VOLTAGE LEVEL AT CORONA EXTINCTION VOLTAGE (rms)	2500 micro volts
8	RATED 3-PH. SYMMETRICAL SHORT CIRCUIT CURRENT WITHSTAND CAPACITY	50kA/1sec.
9	SYSTEM NEUTRAL EARTHING	EFFECT. EARTHED
10	MINIMUM CREEPAGE DISTANCE (25MM/kV)	20000mm

	TRACTEBEL ENGINEERING PVT. LTD. CONSULTING ENGINEERS, GURGAON, INDIA
M.010184: Warora - Kurnool 765 KV D/C Transmission Line Project	
APPROVAL STATUS:	
A: APPROVED	<input checked="" type="checkbox"/>
B: APPROVED WITH COMMENT (RESUBMIT)	<input type="checkbox"/>
C: NOT APPROVED	<input type="checkbox"/>
D: FOR INFORMATION/REFERENCE	<input type="checkbox"/>
THIS APPROVAL STATUS SHALL NOT RELIEVE THE CONTRACTOR FROM ITS CONTRACTUAL OBLIGATIONS.	
DEPARTMENT: T & D	DATE: 02.02.2018
Project Manager	Transmittal No: M.010184/WKT/SS/E/074



ICT-3(FUTURE)
713 BAY IN EXISTING DIA

Kurnool-3 PS
CKT-1
716 BAY IN EXISTING DIA

Kurnool-3 PS
CKT-2
719 BAY IN NEW DIA

- NOTES:-**
- * MAKE TO BE CONFIRMED LATER.
 - CT POLARITY TO BE CHECKED AT SITE.
 - #NCT RATING TO BE MATCHED WITH REACTOR BUSHING CT.
 - LOCATION OF 765KV WARANGAL D/C LINE /TIE BAY ARE CHANGE FROM TENDER. QUANTITY OF POWER & CONTROL CABLE, EARTHING MATERIAL MAY INCREASE, PROPOSAL SHALL BE SUBMITTED AFTER APPROVAL.

- LEGENDS:-**
- PRESENT SCOPE
 - NOT IN GE SCOPE (ESSEL SCOPE/FUTURE)
 - CONTROL SWITCHING DEVICE (RPH3)

REV.	DESCRIPTION	DATE	DRAWN	ELE.	CIVIL	MECH.	APPROVED	STATUS
R3	REVISED AS PER CLIENT REQUIREMENT	27.01.18	29.01.18				30.01.18	FOR APPROVAL
R2	REVISED AS PER COMMENTS DATED-08.09.17	08.09.17	11.09.17				14.09.17	CAT-A
R1	REVISED AS PER DISCUSSION IN THE MEETING WITH CLIENT ON DATE-31.08.17	31.08.17	04.09.17				05.09.17	CAT-B
R0	FIRST ISSUE	05.08.17	09.08.17				10.08.17	CAT-C

5427PS096-CPT-E-SYD-SYS-0201-SL
C/ENGG/TBCB/CPETA/765KV SLD/S/S

SINGLE LINE DIAGRAM OF 765/400KV CHILAKALURIPETA S/S.
SINGLE LINE DIAGRAM 765KV CHILAKALURIPETA SUBSTATION

OWNER:	WARORA-KURNOOL TRANSMISSION LTD.
EPC CONTRACTOR:	PAN INDIA INFRAPROJECTS PVT. LTD.
EPC SUB. CONTRACTOR:	MUMBAI WTR PVT. LTD.
OWNER'S ENGINEER:	TRACTEBEL ENGINEERING PVT. LTD. Innoc House, 57 Institutional Area, Sector 44 122002 Gurgaon-INDIA
CONTRACTOR:	GE T&D INDIA LTD. (FORMERLY ALSTOM T&D INDIA LTD) A-7, SECTOR-65, NOIDA - 201301 UTTAR PRADESH (INDIA)
PROJECT:	ADDITIONAL INTER-REGIONAL AC LINK FOR IMPORT INTO SOUTHERN REGION I.E. WARORA-WARANGAL AND CHILAKALURIPETA-HYDERABAD-KURNOOL 765KV LINK
LOA No.:	WTR/LOA/GE/WKT/SUBSTATION/19/17,DATED-13.06.2017
TITLE:	SINGLE LINE DIAGRAM FOR EXTENSION OF 765KV CHILAKALURIPETA SUBSTATION
DRAWING No.	5427PS102-CPT-E-SYD-SYS-0001-SL
TOTAL SH. No.	001
SCALE	001
REV.	R3

5427PS102-CPT-E-SYD-SYS-0001-SL