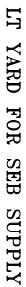
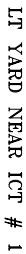


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INVENTORY No.

SIGN. & DATE

REF. DRG. No.



~~NOA NO.:~~ CC-CS/484-WR2/SS-2953/11/G8/NOA-1&2/5727 & 5728 DT. 31.03.16

नाम/परियोजना का नाम POWER GRID CORPORATION OF INDIA LIMITED
 NAME OF CUSTOMER/PROJECT
 SUBSTATION PACKAGE-SS01 FOR CONSTRUCTION OF 765/400/220KV

765KV SINGLE LINE DIAGRAM

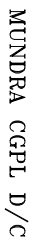


भारत हेवी इलेक्ट्रिकल्स लिमिटेड
ट्रान्समिशन परियोजना विभाग
BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION PROJECTS DIVISION

ड्राइंग DRAWN	क्रेता / NAME	हस्ताक्षर / SIGN.	दिनांक / DATE
जाँची CHECKED	JS		06.04.16
	SK / AA		
स्वीकृत APPROVED	AS / RS		

SINGLE LINE DIAGRAM
765/400/220kV BHUJ S/S.

डा.क्र./DRAWING NO. TB-385-510-001	पृष्ठ/REV 1
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NOA NO. : CC-CS/484-WR2/SS-2953/11/G8/NOA-1&2/5727 & 5728 DT. 31.03.16
CC-CS/484-WR2/SS-2953/11/G8/NOA-1 & II/7130 & 7131 DT 27 Dec 2016 [PART-2]



बीरचंद्रना
भारत

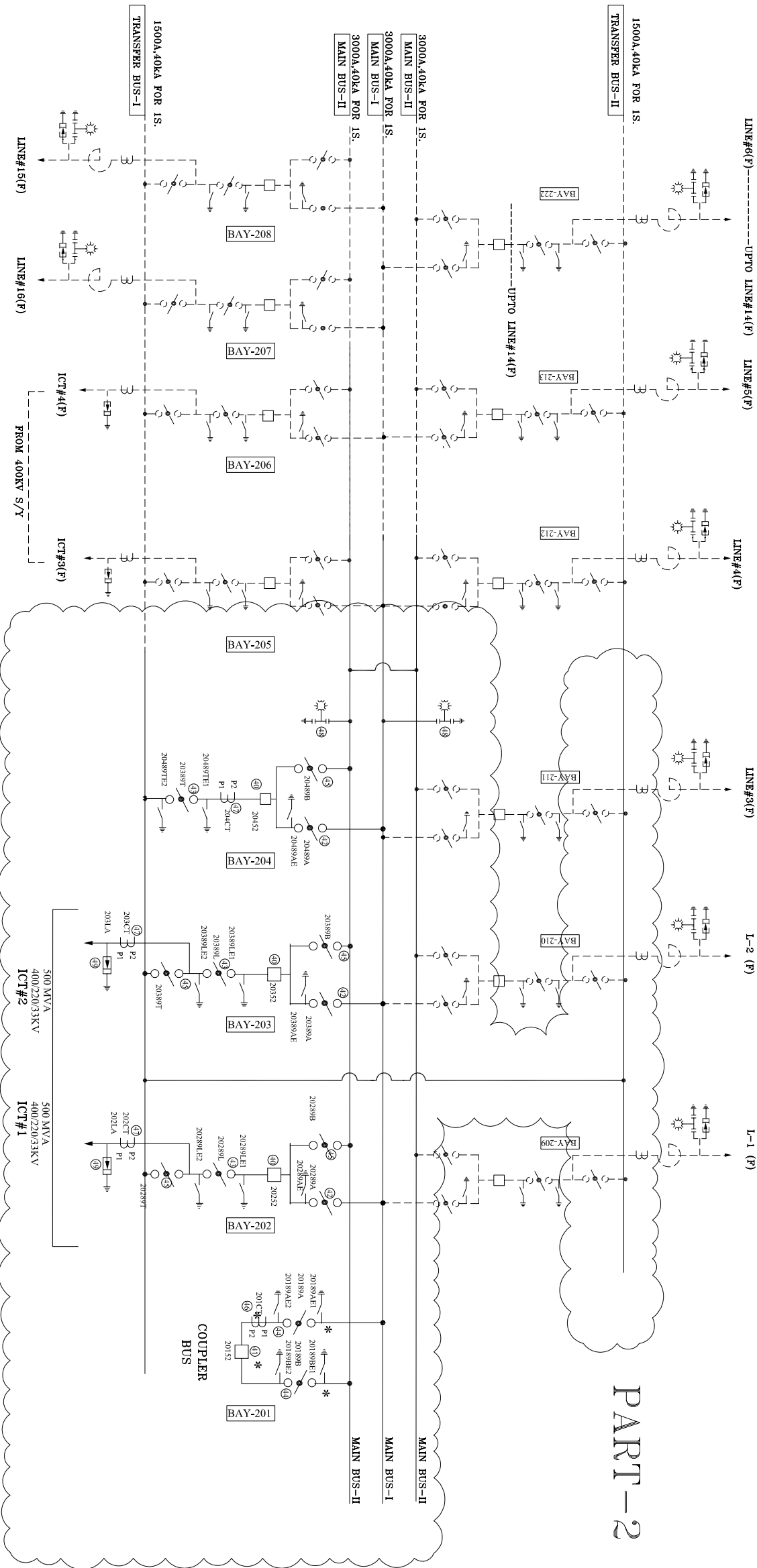
आचार्य DRAMAN	नाम / NAME	हस्ताक्षर / SIGN.	दिनांक / DATE
	JS		06.04.16
जांचा CHECKED	SK / AA		
रिपोर्ट REPORT	AS / RS		

DRAWING No. TB-385-510-BI

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COMPUTER DRG. PATH NAME :

220KV SINGLE LINE DIAGRAM



NOA NO. : CC-CS/484-WR2/SS-2953/11/G8/NOA-1&2/5727 & 5728 DT. 31.03.16
CC-CS/484-WR2/SS-2953/11/G8/NOA-I & II/7130 & 7131 DT 27 Dec 2016 [PART-2]

POWER GRID CORPORATION OF INDIA LIMITED
SUBSTATION PACKAGE-SS01 FOR CONSTRUCTION OF 765/400/220KV
BHUI S/S & EXT. OF 765KV BANASKANTHA S/S
UNDER GREEN ENERGY CORRIDOR ISTS PART- C (PART-1) & (PART-2)

REV.

DATE

ALTERED

01

30.01.17

CHECKED

ZONE

PART-2 ADDED

APPROVED

30.01.17

422

DEPT.

CODE

30.01.17

422

DEPT.

CODE

30.01.17

422

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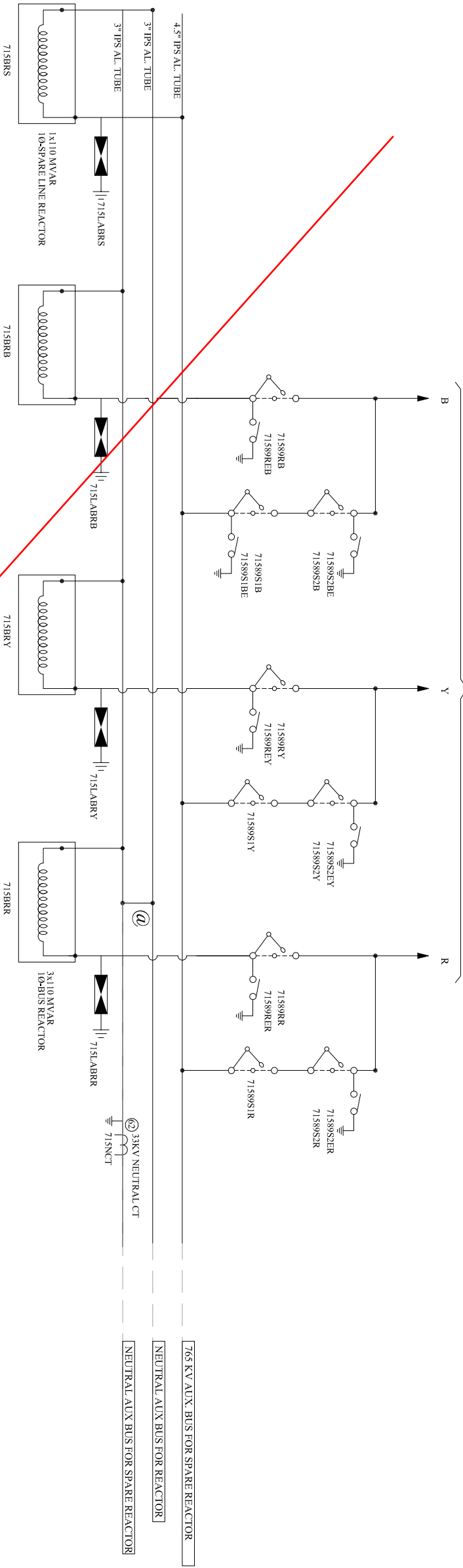
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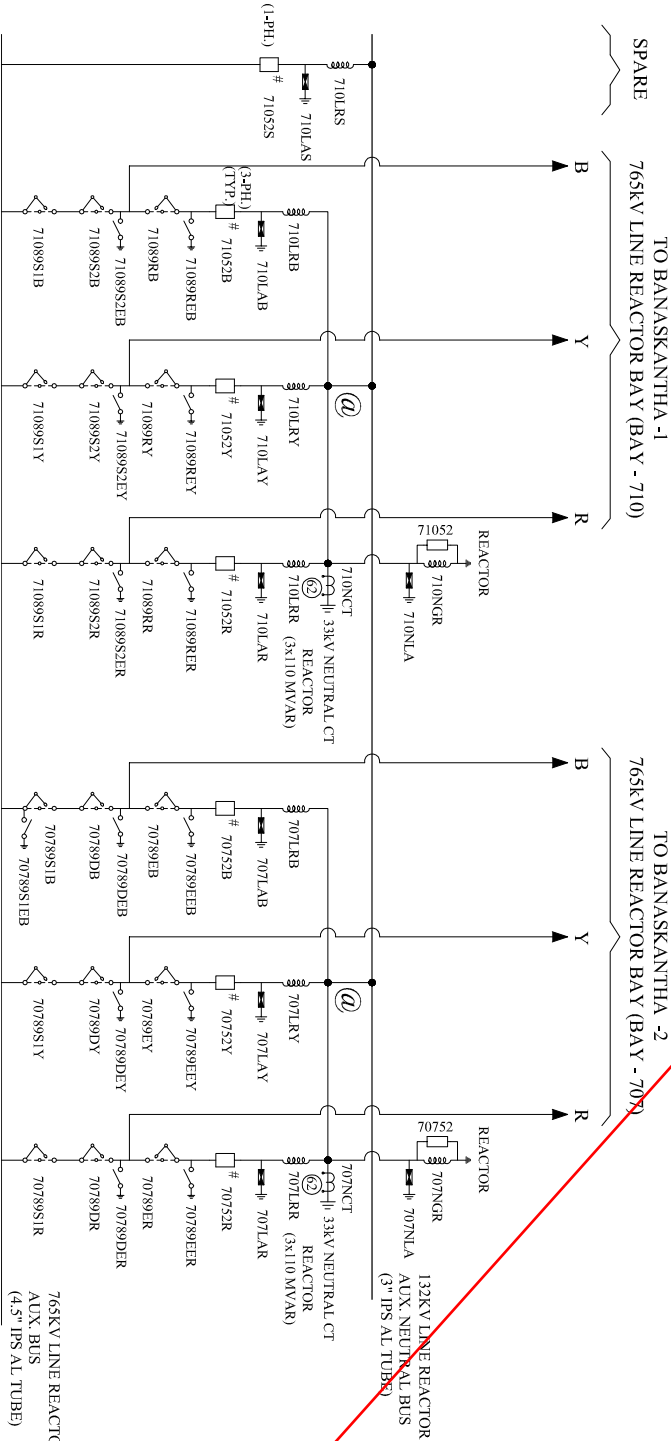
SINGLE LINE DIAGRAM
FOR 765/400/220KV BHUI S/S.

INVENTORY No.		SIGN. & DATE		REF. DRG. No.		COMPUTER DRG. PATH NAME :		COPY RIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED it must not be used directly or indirectly in anyway detrimental to the interest of the company.		DRAWING No. TB-385-510-BI		FIRST ANGLE PROJECTION (ALL DIMENSIONS ARE IN MM)	
A		B		C		D		E		F		7	
8		7		6		5		4		3		2	
4		3		2		1							
A		B		C		D		E		F			

TO 765KV BUS REACTOR BAY (BAY - 715)

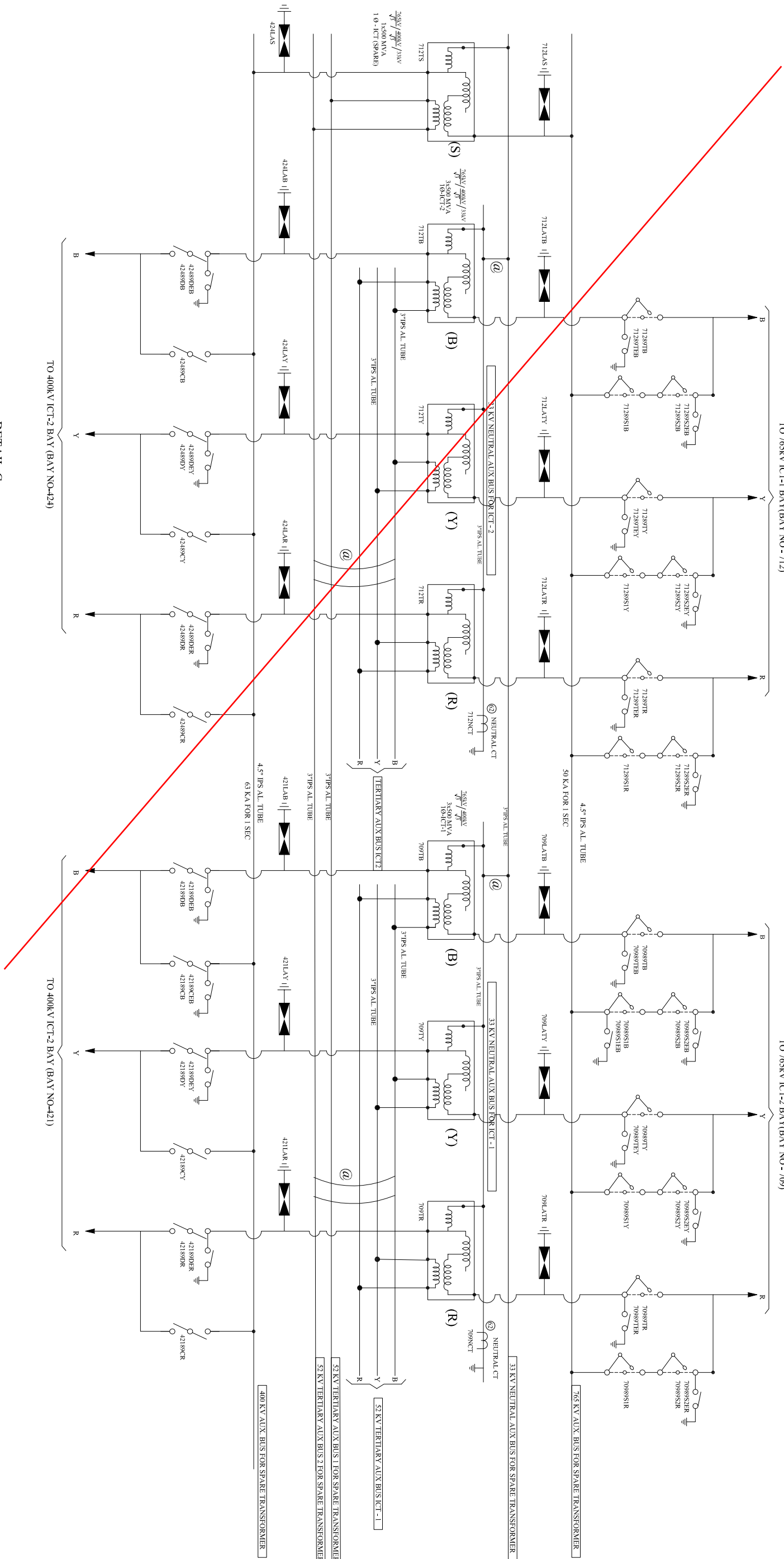


DETAIL-B
(ARRANGEMENT OF 765KV BUS REACTOR AND AUX. BUS.)



DETAIL-A
(ARRANGEMENT OF 765KV LINE REACTOR AND AUX. BUS.)

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COMPUTER DRG. PATH NAME :									
INVENTORY No.		SIGN. & DATE		REF. DRG. No.					
A		B		C		D		E	
8		7		6		5		4	



DETAIL-C
(ARRANGEMENT OF 765/400kV ICT AND AUX. BUS.)

(ARRANGEMENT OF 765/400KV ICT AND AUX. BUS.)																													
NOA NO. : CC-CS/484-WR2/SS-2953/11/G8/NOA-1&2/5727 & 5728 DT. 31.03.16																													
ADDITIONAL INFORMATION W.O.No. 85003				आइसक/परियोजना का नाम POWER GRID CORPORATION OF INDIA LIMITED																									
STATUS OF DRAWING CONTRACT				NAME OF CUSTOMER/PROJECT SUBSTATION PACKAGE-SS01 FOR CONSTRUCTION OF 765/400/220KV BHUJ S/S & EXT. OF 765KV BANASKANTHA S/S UNDER GREEN ENERGY CORRIDOR (SIS PART- C (PART-1))																									
DISTRIBUTION OF PRINTS				संस्थान संकेत आइसक केसी इलेक्ट्रिकल्स लिमिटेड संस्थान/परियोजना विभाग BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION <table><tr><td>आइसक ड्रॉग</td><td>नाम /NAME</td><td>हस्ताक्षर /SIGN.</td><td>दि./DATE</td></tr><tr><td>ड्रॉग</td><td>JS</td><td></td><td>23.11.15</td></tr><tr><td>चेकड</td><td>SK/AA</td><td></td><td></td></tr><tr><td>संकेत</td><td>AS/RS</td><td></td><td></td></tr><tr><td>अनुमोदित</td><td></td><td></td><td></td></tr></table>						आइसक ड्रॉग	नाम /NAME	हस्ताक्षर /SIGN.	दि./DATE	ड्रॉग	JS		23.11.15	चेकड	SK/AA			संकेत	AS/RS			अनुमोदित			
आइसक ड्रॉग	नाम /NAME	हस्ताक्षर /SIGN.	दि./DATE																										
ड्रॉग	JS		23.11.15																										
चेकड	SK/AA																												
संकेत	AS/RS																												
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REV. DATE		ALTERED		दिनांक TBEM		उत्तुपात / SCALE		कार्ड कोड																					
CHECKED				कोड 422				कार्ड कोड																					
APPROVED				NTS																									
ZONE				CODE																									
शीर्षक/TITLE				SINGLE LINE DIAGRAM FOR 765/400/220KV BHUJ S/S.																									
ड्राइंग नं./DRAWING NO.				पुनः/REV.																									
TB-385-510-001				0																									
पृष्ठ नं./SHEET No.05				अगला पृष्ठ /NEXT SHEET 06																									
INVENTORY No.				SIGN. & DATE		REF. DRG. No.																							
A																													
8				7		6		5																					
4				3		2		1																					

SYSTEM PARAMETERS						
DESCRIPTION	765 kV	400 kV	220 kV	132 kV	66 kV	11 kV
1) HIGHEST SYSTEM VOLTAGE	800kV (r.m.s.)	420kV (r.m.s.)	245kV (r.m.s.)	145kV (r.m.s.)	72.5kV (r.m.s.)	12kV (r.m.s.)
2) SYSTEM OPERATING VOLTAGE	765kV	400kV	220kV	132kV	66kV	11kV
3) P.F. WITHSTAND VOLTAGE	830kV (r.m.s.)	630kV (r.m.s.)	460kV (r.m.s.) dry and wet	275kV (r.m.s.) dry and wet	140kV (r.m.s.) dry and wet	28kV (r.m.s.) dry and wet
4) LIGHTING IMPULSE WITHSTAND VOLTAGE	2100 kVP	1550 kVP	1050 kVP	650 kVP	325 kVP	75 kVP
5) SWITCHING IMPULSE WITHSTAND VOLTAGE	1550 kVP	1050 kVP	---	---	---	---
6) SYSTEM FAULT LEVEL	50KA FOR 1 Sec.	63KA FOR 1 Sec.	40KA FOR 1 Sec.	31.5KA FOR 1 Sec.	31.5KA FOR 1 Sec.	25KA FOR 1 Sec.
7) CREEPAGE	31 MM/KV	31 MM/KV	31 MM/KV	31 MM/KV	31 MM/KV	31 MM/KV
8) SYSTEM EARTHING	EFFECTIVELY	EFFECTIVELY	EFFECTIVELY	EFFECTIVELY	EFFECTIVELY	EFFECTIVELY

800KVA CASE		
Case	ΔV	ΔI
Case 1	0.0000	0.0000
Case 2	0.0000	0.0000
Case 3	0.0000	0.0000
Case 4	0.0000	0.0000
Case 5	0.0000	0.0000
Case 6	0.0000	0.0000
Case 7	0.0000	0.0000
Case 8	0.0000	0.0000
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1441

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220kV - 1000A C.T. a) 120° Extended Rating applicable for FC12-122 and Transfer Bus Bays b) 150° Extended Rating applicable for Bus Coupler Bay																																																																
<table><thead><tr><th>Core No.</th><th>Current Rating</th><th>Accuracy Class</th><th>Output Burden VA</th><th>Min. I_{sc} (A)</th><th>Max. R_{ct} (Ohms)</th><th>Max. Im at 10kV (mA)</th><th>Purpose</th></tr></thead><tbody><tr><td>1</td><td>1000000 A</td><td>1%</td><td>-</td><td>67.0000</td><td>2.4</td><td>2500 A at 10kV I_{sc}</td><td>12.5000 A I_{sc}</td></tr><tr><td>2</td><td>1000000 A</td><td>1%</td><td>-</td><td>67.0000</td><td>2.4</td><td>2500 A at 10kV I_{sc}</td><td>12.5000 A I_{sc}</td></tr><tr><td>3</td><td>1000000 A</td><td>1%</td><td>0</td><td>67.0000</td><td>2.4</td><td>2500 A at 10kV I_{sc}</td><td>12.5000 A I_{sc}</td></tr><tr><td>4</td><td>1000000 A</td><td>1%</td><td>-</td><td>67.0000</td><td>2.4</td><td>2500 A at 10kV I_{sc}</td><td>12.5000 A I_{sc}</td></tr><tr><td>5</td><td>1000000 A</td><td>1%</td><td>-</td><td>67.0000</td><td>2.4</td><td>2500 A at 10kV I_{sc}</td><td>12.5000 A I_{sc}</td></tr></tbody></table>																	Core No.	Current Rating	Accuracy Class	Output Burden VA	Min. I _{sc} (A)	Max. R _{ct} (Ohms)	Max. Im at 10kV (mA)	Purpose	1	1000000 A	1%	-	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}	2	1000000 A	1%	-	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}	3	1000000 A	1%	0	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}	4	1000000 A	1%	-	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}	5	1000000 A	1%	-	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}
Core No.	Current Rating	Accuracy Class	Output Burden VA	Min. I _{sc} (A)	Max. R _{ct} (Ohms)	Max. Im at 10kV (mA)	Purpose																																																									
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2	1000000 A	1%	-	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}																																																									
3	1000000 A	1%	0	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}																																																									
4	1000000 A	1%	-	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}																																																									
5	1000000 A	1%	-	67.0000	2.4	2500 A at 10kV I _{sc}	12.5000 A I _{sc}																																																									
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