

[illegible]

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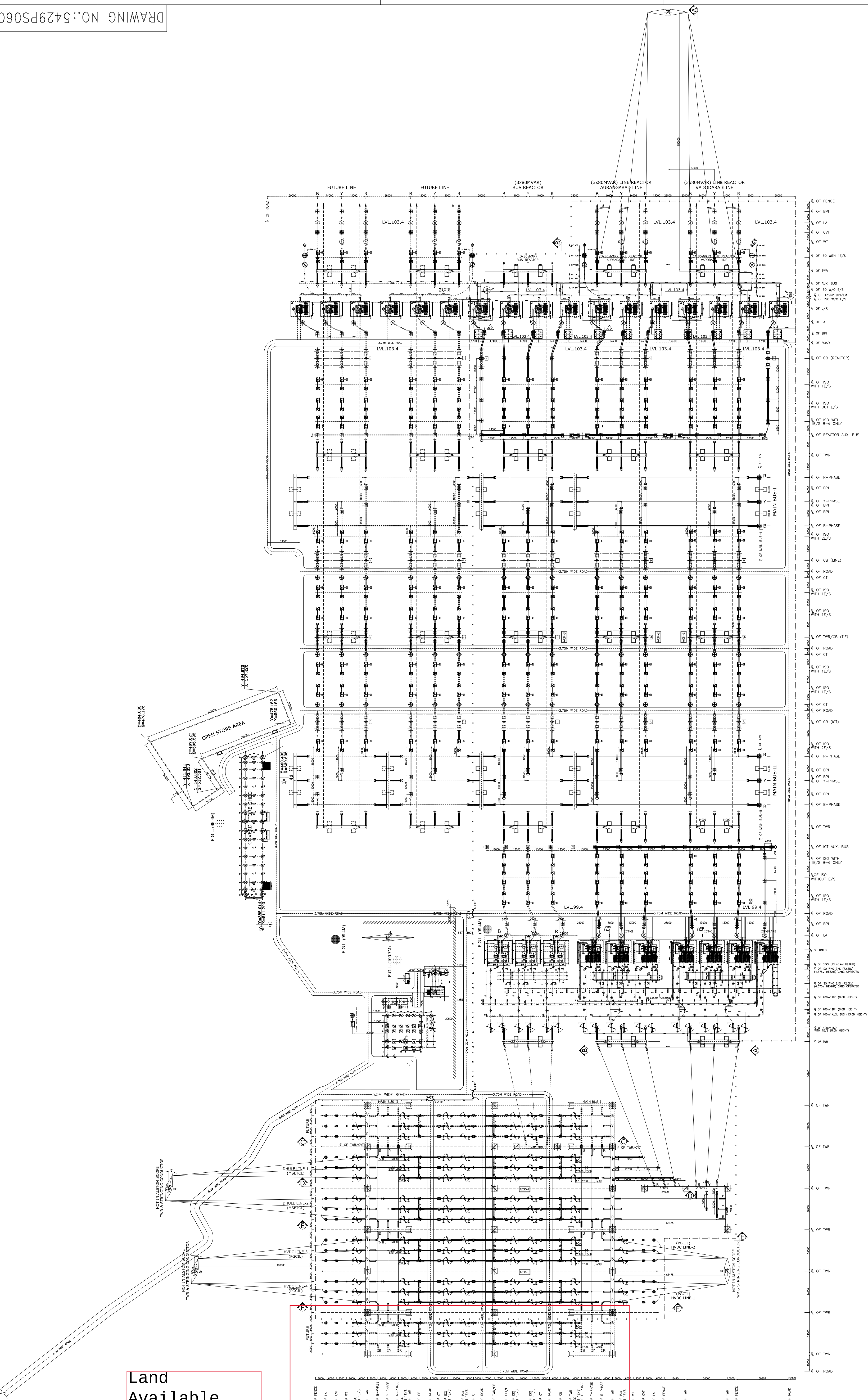
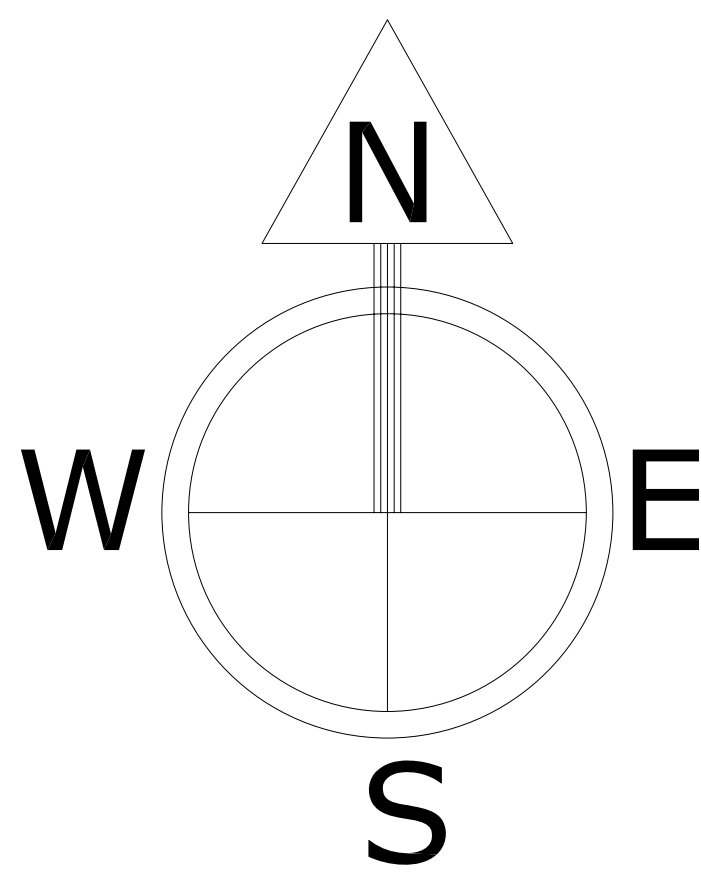
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DRAWING NO.:5429PS060-DHU-C-SYD-AAR-0001



Land Available for two line bays

NOTES:-
1. ALL DIMENSION ARE IN MM & COORDINATES ARE IN METERS.
2. LEVELS FOR SUBSTATION ARE MARKED IN SECTION LAYOUT
3. LAY & OTHER EQUIPMENTS COMING IN WITHDRAWAL DIRECTION OF TRANSFORMER & REACTOR SHALL HAVE REMOVABLE TYPE SUPPORT STRUCTURE.
4. SUPPLY TRAF & REACTOR ARE NOT IN ALSTOM SCOPE
5. LOCATION OF LINE EQUIPMENTS SHOWN ARE CONSIDERING TOWER WITHOUT ANY DEVIATION SITE MAY CHANGE
6. THE LINE EQUIPMENT POSITION (DEPENDING UPON THE DEAD END TOWER LOCATION (AS PER ACTUAL).
7. DEAD END TOWER ERECTION AND OUTGOING STRINGING OF LINE CONDUCTOR, INSULATOR, STRING HARDWARE, & SHIELD WIRE, TENSION CLAMP NOT IN ALSTOM SCOPE BUT LINE EQUIPMENT CONNECTION SHALL BE DONE BY ALSTOM.

BILL OF QUANTITY OF 765KV EQUIPMENTS (TABLE-1)

SLNo.	SYMBOL	DESCRIPTION	MAKE	QTY.
1A		765kV,3150A,40kA,1sec,SF6,3P CIRCUIT BREAKER WITH CONTROL SWITCHING ONLY	ALSTOM	04
1B		765kV,3150A,40kA,1sec,SF6,3P CIRCUIT BREAKER WITH CLOSING RESISTOR & CONTROL SWITCHING.	ALSTOM	02
1C		765kV,3150A,40kA,1sec,SF6,3P CIRCUIT BREAKER WITH CLOSING RESISTOR ONLY.	ALSTOM	02
1D		765kV,2000A,40kA,1sec,SF6,3P CIRCUIT BREAKER WITH CONTROL SWITCHING ONLY(SUITABLE FOR 1 PHASE REACTOR SWITCHING)	ALSTOM	02
1E		765kV,2000A,40kA,1sec,SF6,1P CIRCUIT BREAKER WITH CONTROL SWITCHING ONLY(SUITABLE FOR 1 PHASE REACTOR SWITCHING)	ALSTOM	02
2A		ISOLATOR WITH 1 EARTH SWITCH, VERTICAL KNEE TYPE, 765kV, 3P, 3150A, 40kA FOR 1 sec, ELECTRICALLY GANGED	ALSTOM	17
2B		ISOLATOR WITH 2 EARTH SWITCH, VERTICAL KNEE TYPE, 765kV, 3P, 3150A, 40kA FOR 1 sec, ELECTRICALLY GANGED	ALSTOM	02
2C		ISOLATOR WITH 1 EARTH SWITCH, VERTICAL KNEE TYPE, 765kV, 1P, 2000A, 40kA FOR 1 sec, ELECTRICALLY GANGED (ALL MASTER)	ALSTOM	15
2D.1		ISOLATOR WITHOUT EARTH SWITCH, VERTICAL KNEE TYPE, 765kV, 1P, 2000A, 40kA FOR 1 sec, ELECTRICALLY GANGED (WITH SPECIAL OPERATING MECHANISM ACTING AS "MASTER" ABLE TO COMBINE THE SIGNALS COMING FROM THE TWO SEPARATE AND INDEPENDENT OPERATING MECHANISM)	ALSTOM	04
2D.2		ISOLATOR WITHOUT EARTH SWITCH, VERTICAL KNEE TYPE, 765kV, 1P, 2000A, 40kA FOR 1 sec, ELECTRICALLY GANGED (WITH SPECIAL OPERATING MECHANISM ACTING AS "SLAVE" ABLE TO COMBINE THE SIGNALS COMING FROM THE TWO SEPARATE AND INDEPENDENT OPERATING MECHANISM)	ALSTOM	04
2E.1		ISOLATOR WITHOUT EARTH SWITCH, VERTICAL KNEE TYPE, 765kV, 1P, 2000A, 40kA FOR 1 sec, ELECTRICALLY GANGED (WITH SPECIAL OPERATING MECHANISM ACTING AS "MASTER" ABLE TO COMBINE THE SIGNALS COMING FROM THE TWO SEPARATE AND INDEPENDENT OPERATING MECHANISM)	ALSTOM	13
2E.2		ISOLATOR WITHOUT EARTH SWITCH, VERTICAL KNEE TYPE, 765kV, 1P, 2000A, 40kA FOR 1 sec, ELECTRICALLY GANGED (WITH SPECIAL OPERATING MECHANISM ACTING AS "SLAVE" ABLE TO COMBINE THE SIGNALS COMING FROM THE TWO SEPARATE AND INDEPENDENT OPERATING MECHANISM)	ALSTOM	13
3A		CURRENT TRANSFORMER 765kV 6CORE, 3000A 40kA for 1sec 120% EXTENDED CURRENT RATING	ALSTOM	12
3B		CURRENT TRANSFORMER 765kV 5CORE, 3000A 1-PH, 40kA for 1sec 120% EXTENDED CURRENT RATING	ALSTOM	12
4A		765kV, 1-PH CVT (4400pF), 4 CORE, 3P/3P/0.2/0.2	ALSTOM	06
4B		765kV, 1-PH CVT (4400pF), 3 CORE, 3P/3P/0.2	ALSTOM	06
5		624kV, LIGHTENING ARRESTER (1-#) DISCHARGE CURRENT 20kA	---	24
6		765kV BUS POST INSULATOR	---	75

SYSTEM PARAMETERS (TABLE-8)

SLNo.	DESCRIPTION	765kV SYSTEM	400kV SYSTEM	132kV SYSTEM	33kV INSULATION LEVEL OF 72.5kV
1	SYSTEM OPERATING VOLTAGE	765kV	400kV	132kV	33kV
2	MAX. OPERATING VOLTAGE OF THE SYSTEM (rms)	800kV	420kV	145kV	36kV
3	RATED FREQUENCY	50Hz	50Hz	50Hz	50Hz
4	NO. OF PHASES	3	3	3	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 & WET WITH STAND VOLTAGE (rms)	2100kV 1550kV 830kV	1425kVp 1050kV 630kV	650kVp -- 275kV	325kV -- 140kV
6	MIN. CREEPAGE DISTANCE	20000mm	10500mm	3625mm	1813mm
7	CORONA EXTINCTION VOLTAGE	508kV	320kV	--	--
8	MAX. RADIO INTERFERENCE VOLTAGE LEVEL AT CORONA EXTINCTION VOLTAGE (rms), micro volts	2500	1000	--	--
9	RATED 3-PH, SYMMETRICAL, SHORT CIRCUIT CURRENT WITHSTAND CAPACITY	40kA/1sec.	50kA/1sec.	40kA/1sec.	25kA/1sec.
10	SYSTEM NEUTRAL EARTHING	EFFECT, EARTHED	EFFECT, EARTHED	EFFECT, EARTHED	UN-EARTHED

MINIMUM AIR CLEARANCE (TABLE-9)

SLNo.	DESCRIPTION	765kV SYSTEM	400kV SYSTEM	132kV SYSTEM	33kV SYSTEM
1	PHASE TO PHASE CONDUCTOR TO CONDUCTOR ROD TO STRUCTURE	7600 9400	4000 4200	1100 480	480
2	PHASE TO GROUND CONDUCTOR TO STRUCTURE ROD TO STRUCTURE	4900 6400	3500 6400	1100 480	480
3	SECTIONAL CLEARANCE	10300	6400	3700	3100

BILL OF QUANTITY OF 400KV EQUIPMENTS (TABLE-2)

SLNo.	SYMBOL	DESCRIPTION	MAKE	QTY.
7		CIRCUIT BREAKER, 400kV, 3150A, 50kA for 1 sec, SF6, 3P, WITHOUT CONTROLLED SWITCHING	ALSTOM	12
8A		400kV, 3150A, 50kA,1sec, 3-PHASE HDB TYPE ISOLATOR WITH ONE EARTH SWITCH (WITH MASTER SLAVE OPERATION)	ALSTOM	28
8B		400kV, 3150A, 50kA,1sec, 3-PHASE HDB TYPE ISOLATOR WITH TWO EARTH SWITCH (WITH MASTER SLAVE OPERATION)	ALSTOM	02
8C		ISOLATOR WITH 1EARTH SWITCH HDB TYPE, 400kV 1P, 3150A, 50kA FOR 1 sec, ELECTRICALLY GANGED (ALL MASTER)	ALSTOM	07
8D		ISOLATOR WITHOUT EARTH SWITCH, HDB TYPE, 400kV, 1P, 3150A, 50kA FOR 1sec, ELECTRICALLY GANGED (ALL MASTER)	ALSTOM	05
9		CURRENT TRANSFORMER (1-#) 400kV 6CORE, 3000A 50kA for 1sec 120% EXTENDED CURRENT RATING	ALSTOM	36
9A		CURRENT TRANSFORMER (1-#) 400kV 5CORE, 3000A 50kA for 1sec 120% EXTENDED CURRENT RATING	ALSTOM	06
10		400kV, 50kA, 1 Sec 1-PH CVT (4400pF) 4CORE 3P/3P/0.2/0.2	ALSTOM	18
10A		400kV, 50kA, 1 Sec 1-PH CVT (4400pF) 3CORE 3P/3P/0.2	ALSTOM	06
11		336kV LIGHTENING ARRESTER (1-#) DISCHARGE CURRENT 20kA	---	25
12		400kV BUS POST INSULATOR	---	36

BILL OF QUANTITY OF 145KV EQUIPMENTS (TABLE-3)

SLNo.	SYMBOL	DESCRIPTION	MAKE	QTY.
13		145kV HCB 1P ISOLATOR WITHOUT E/S	---	14

BILL OF QUANTITY OF 33kV EQUIPMENTS (INSULATION LEVEL OF 72.5kV CLASS) TABLE-4)

SLNo.	SYMBOL	DESCRIPTION	MAKE	QTY.
14		72.5kV HCB 2P,400A, ISOLATOR WITHOUT E/S MOTOR OPERATED	---	12

BILL OF QUANTITY OF 33kV EQUIPMENTS (TABLE-5)

SLNo.	SYMBOL	DESCRIPTION	MAKE	QTY.
15		33kV HCB 1P, 400A ISOLATOR W/O E/S MOTOR OPERATED	---	02
16		33kV HCB 1P, 400A ISOLATOR W/O E/S MANUAL OPERATED	---	06
17		33kV NEUTRAL CT 400/1A	---	02

EQUIPMENT TO BE SUPPLIED BY CUSTOMER (NOT IN ALSTOM SCOPE) (TABLE-6)

SLNo.	SYMBOL	DESCRIPTION	MAKE	QTY.
18		INTERCONNECTING TRANSFORMER, 500MVA (SINGLE PHASE) 765/400kV.	HYUNDAI	6+1(SPARE)
19		LINE SHUNT REACTOR, 80MVAR (SINGLE PHASE) 765kV	BTW	6+1(SPARE)
20		BUS SHUNT REACTOR, 80MVAR (SINGLE PHASE) 765kV	BTW	3+1(SPARE)
21		NEUTRAL GROUNDING REACTOR 145kV, 1200 KVAR (WITH BCT)	---	02
22		120kV LIGHTENING ARRESTER (1-#) DISCHARGE CURRENT 10kA	---	02

CONDUCTOR DETAIL OF SWITCHYARD (TABLE-7)

VOLTAGE LEVEL-765kV	
MAIN BUS-1 & MAIN BUS-II	QUAD BULL AAC CONDUCTOR
JACK BUS/STRINGING CONNECTION	QUAD BULL AAC CONDUCTOR
DROPPERS/JUMPERS	QUAD BULL AAC CONDUCTOR
EQUIPMENT INTERCONNECTION	5" IPS AL TUBE
SHIELD WIRE	7/3.66mm GI WIRE (10.98mm DIA)
VOLTAGE LEVEL-400kV	
MAIN BUS-1 & BUS-II	QUAD MOOSE ACSR CONDUCTOR
JACK BUS/STRINGING CONNECTION	QUAD MOOSE ACSR CONDUCTOR
DROPPERS/JUMPERS	TWIN MOOSE ACSR CONDUCTOR (FOR LACVT)
EQUIPMENT INTERCONNECTION	QUAD MOOSE ACSR CONDUCTOR FOR OTHERS
SHIELD WIRE	5" IPS AL TUBE
ICT TERTIARY FORMATION	7/3.66mm GI WIRE (10.98mm DIA)
	3" IPS AL TUBE

ALL DIMENSIONS ARE IN MM

CUSTOMER: BHOPAL DHULE TRANSMISSION COMPANY LTD

OWNER'S ENGINEER: KNR ENGINEERS (INDIA) PVT. LTD.

PROJECT: SYSTEM STRENGTHENING SCHEME OF WR.

CONTRACT: LOI NO. BDTCL/2011-12/LOA-SUBSTATIONS/004 DATED 28-07-2011

TITLE: 765/400kV LAYOUT PLAN & SECTION FOR DHULE SUBSTATION

SCALE: 1:1150
ALSTOM
T&D INDIA LTD.
(Formerly ALSTOM T&D INDIA LTD.)
A-7, SECTOR-65,
NOIDA - 201301
UTTAR PRADESH (INDIA).

DRAWING NO.:

5429PS060-DHU-C-SYD-AAR-0001

SHEET NO

001/001

5429PS060-DHU-C-SYD-AAR-1000
PEI-E1100138-DHL-LAY(SS)-001
5429PS060-DHU-E-DTD-SLD-0401

GENERAL ARRANGEMENT PLOT PLAN FOR 765/400kV DHULE SUBSTATION
765/400kV LAYOUT PLAN (TENDER)
SINGLE LINE DIAGRAM FOR 765/400kV DHULE SUBSTATION

REFR. DRG. NO. DESCRIPTION

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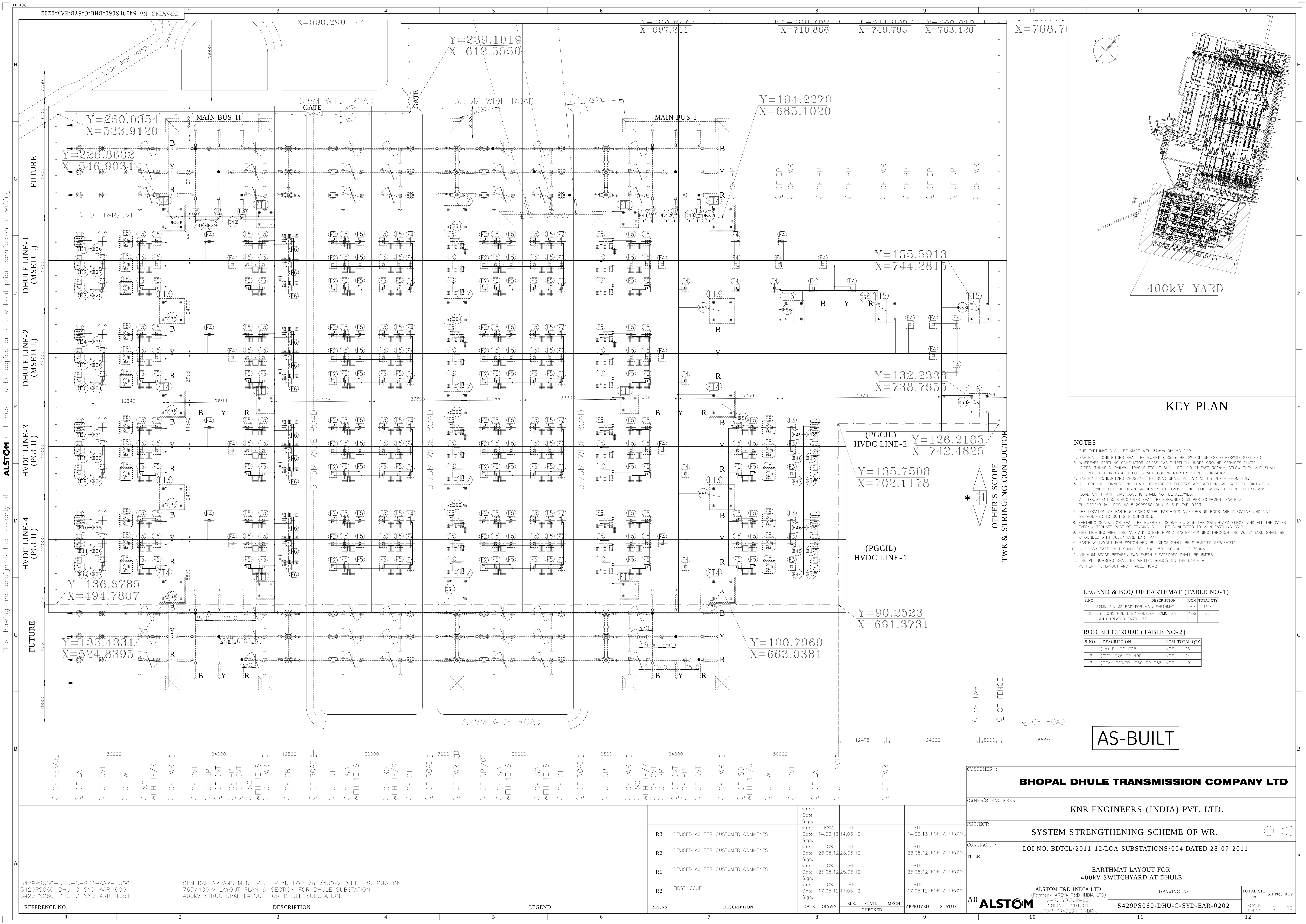
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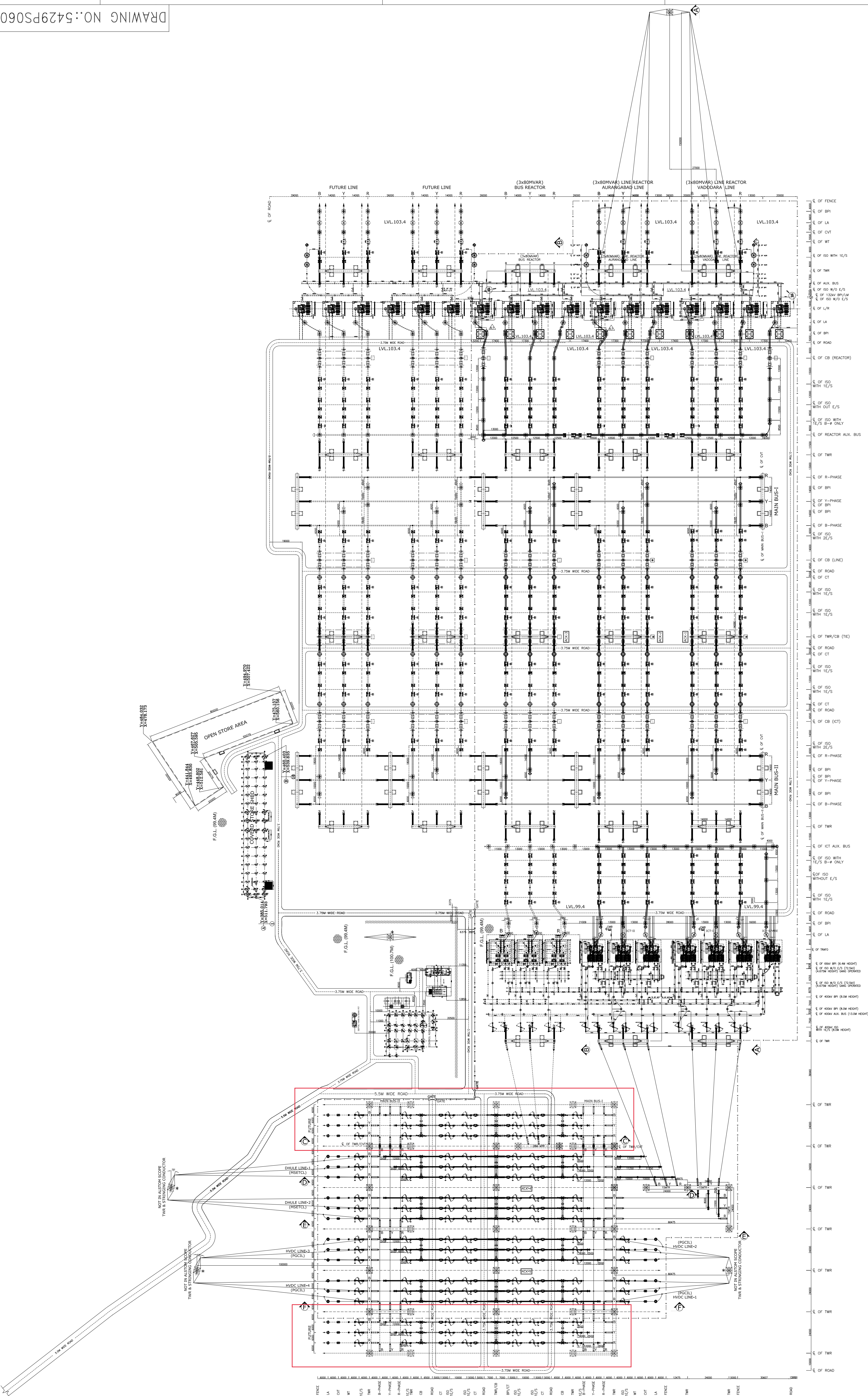
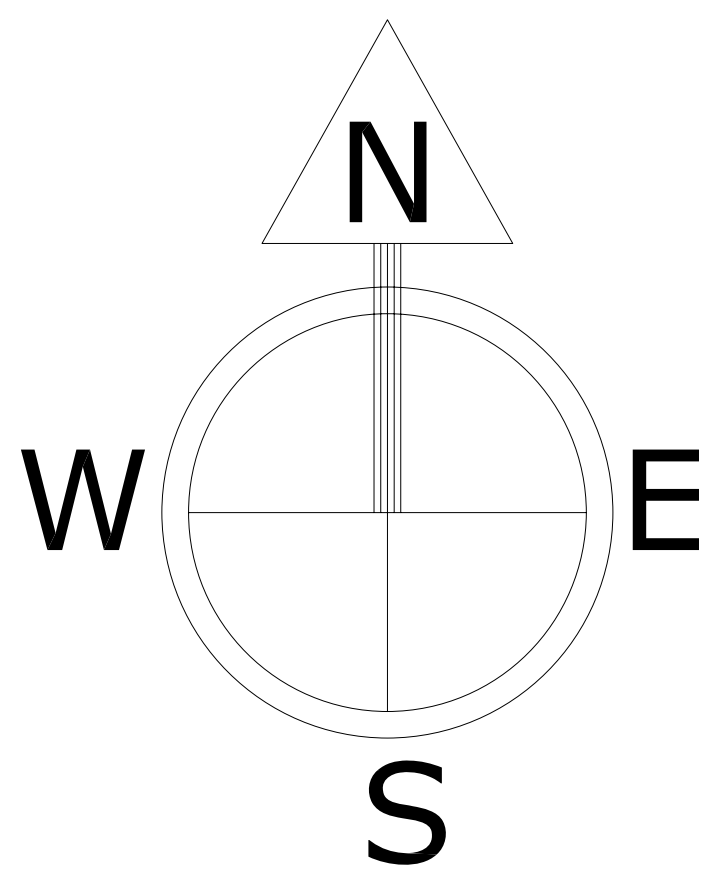
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DRAWING NO.:5429PS060-DHU-C-SYD-AAR-0001



- NOTES:-**
1. ALL DIMENSION ARE IN MM & COORDINATES ARE IN METERS.
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 4. SUPPLY TRAFQ & REACTOR ARE NOT IN ALSTOM SCOPE
 5. LOCATION OF LINE EQUIPMENTS SHOWN ARE CONSIDERING TOWER WITHOUT ANY DEVIATION SITE MAY CHANGE
 6. THE LINE EQUIPMENT POSITION (DEPENDING UPON THE ROAD END TOWER LOCATION (AS PER ACTUAL).
 7. LOCATION OF DEAD END GANTRY TO BE FINALIZED BY CUSTOMER.
 8. DEAD END TOWER ERECTION AND OUTGOING STRINGING OF LINE CONDUCTOR, INSULATOR, STRING HARDWARE, & SHIELD WIRE, TENSION CLAMP NOT IN ALSTOM SCOPE BUT LINE EQUIPMENT CONNECTION SHALL BE DONE BY ALSTOM.

5429PS060-DHU-C-SYD-AAR-1000
PEI-E1100138-DHL-LAY(SS)-001
5429PS060-DHU-E-DYD-SLD-C401

GENERAL ARRANGEMENT PLOT PLAN FOR 765/400kV DHULE SUBSTATION
765/400kV LAYOUT PLAN (TENDER)
SINGLE LINE DIAGRAM FOR 765/400kV DHULE SUBSTATION

REFR. DRG. NO.

DESCRIPTION

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R7	REVISED AS PER CUSTOMER COMMENTS	Name: JCS Date: 16.04.13 Sign: [Signature]	DPK	16.04.13	PTK	16.04.13	FOR APPROVAL
R6	REVISED AS PER INTERNAL UPDATION	Name: JCS Date: 16.07.12 Sign: [Signature]	DPK	16.07.12	PTK	16.07.12	FOR APPROVAL
R5	REVISED AS PER CUSTOMER COMMENTS	Name: KSV Date: 12.03.12 Sign: [Signature]	DPK	12.03.12	PTK	12.03.12	FOR APPROVAL
R4	REVISED AS PER CUSTOMER COMMENTS	Name: KSV Date: 24.02.12 Sign: [Signature]	DPK	24.02.12	PTK	24.02.12	FOR APPROVAL
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R0	FIRST ISSUE	Name: KSV Date: 02.12.11 Sign: [Signature]	DPK	02.12.11	PTK	02.12.11	FOR APPROVAL
REV.	DESCRIPTION	DRAWN	ELECT.	PM	CHECKED	APPROVED	STATUS

ALL DIMENSIONS ARE IN MM

CUSTOMER: **BHOPAL DHULE TRANSMISSION COMPANY LTD**

OWNER'S ENGINEER: **KNR ENGINEERS (INDIA) PVT. LTD.**

PROJECT: **SYSTEM STRENGTHENING SCHEME OF WR.**

CONTRACT: **LOI NO. BDTCL/2011-12/LOA-SUBSTATIONS/004 DATED 28-07-2011**

TITLE: **765/400kV LAYOUT PLAN & SECTION FOR DHULE SUBSTATION**

SCALE: **A0 1:1150**

ALSTOM T&D INDIA LTD.
(Formerly ALSTOM T&D INDIA LTD.)
A-7, SECTOR-65,
NOIDA - 201301
UTTAR PRADESH (INDIA).

DRAWING NO.: **5429PS060-DHU-C-SYD-AAR-0001**

SHEET NO: **001/001**

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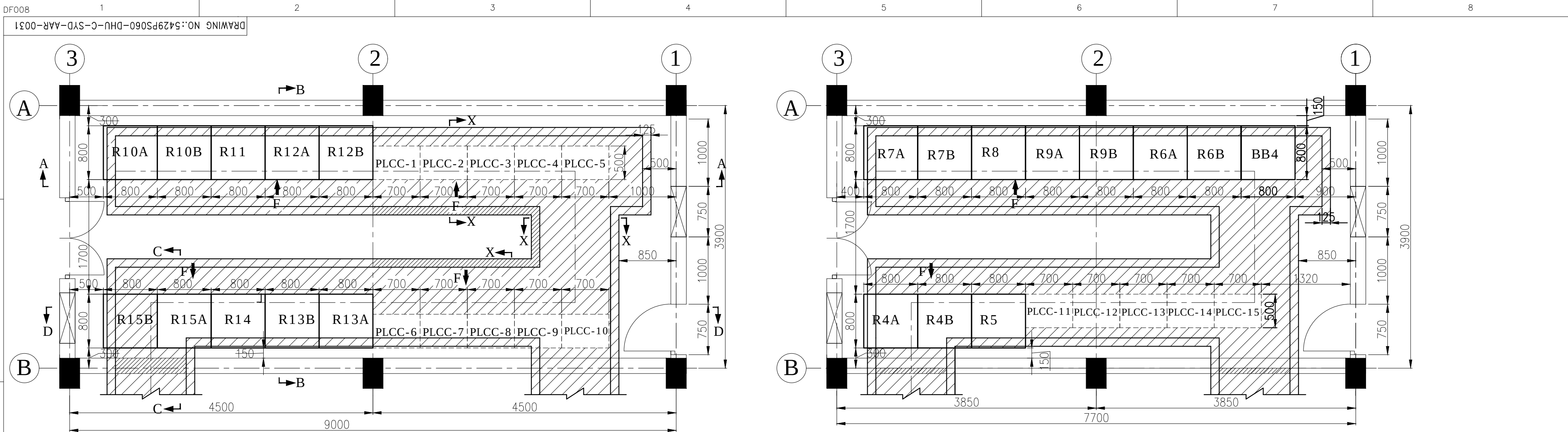
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SWITCHYARD PANEL ROOM #4

SR.NO	DESCRIPTION	DESIGNATION OF PANEL
1.	400kV HVDC (PGCIL) LINE -2 BAY -4-10	R10A
2.	400kV HVDC (PGCIL) LINE-2 BAY-4-10	R10B
3.	400kV TIE BAY-4-11	R11
4.	400kV HVDC (PGCIL) LINE-3 BAY-4-12	R12A
5.	400kV HVDC (PGCIL) LINE-3 BAY-4-12	R12B
6.	400kV HVDC (PGCIL) LINE-1 BAY-4-13	R13A
7.	400kV HVDC (PGCIL) LINE-1 BAY-4-13	R13B
8.	400kV TIE BAY-4-14	R14
9.	400kV HVDC (PGCIL) LINE-4 BAY-4-15	R15A
10.	400kV HVDC (PGCIL) LINE-4 BAY-4-15	R15B
11.	400kV PLCC FUTURE	PLCC-1
12.	400kV PLCC FUTURE	PLCC-2
13.	400kV PLCC FUTURE	PLCC-3
14.	400kV PLCC FUTURE	PLCC-4
15.	400kV PLCC FUTURE	PLCC-5
16.	400kV PLCC FUTURE	PLCC-6
17.	400kV PLCC FUTURE	PLCC-7
18.	400kV PLCC FUTURE	PLCC-8
19.	400kV PLCC FUTURE	PLCC-9
20.	400kV PLCC FUTURE	PLCC-10

SWITCHYARD PANEL ROOM #5

SR.NO	DESCRIPTION	DESIGNATION OF PANEL
1.	400kV SIDE OF 765/400kV ICT-1 BAY-4-4	R4A
2.	400kV SIDE OF 765/400kV ICT-1 BAY-4-4	R4B
3.	400kV TIE BAY-4-5	R5
4.	400kV DHULE(MSETCL) LINE-1 BAY-4-6	R6A
5.	400kV DHULE(MSETCL) LINE-1 BAY-4-6	R6B
6.	400kV SIDE OF 765/400kV ICT-2 BAY-4-4	R7A
7.	400kV SIDE OF 765/400kV ICT-2 BAY-4-4	R7B
8.	400kV TIE BAY-4-5	R8
9.	400kV DHULE(MSETCL) LINE-2 BAY-4-8	R9A
10.	400kV DHULE(MSETCL) LINE-2 BAY-4-8	R9B
11.	400kV BUS BAR	BB4
12.	400kV PLCC FUTURE	PLCC-1
13.	400kV PLCC FUTURE	PLCC-2
14.	400kV PLCC FUTURE	PLCC-3
15.	400kV PLCC FUTURE	PLCC-4
16.	400kV PLCC FUTURE	PLCC-5

NOTES:-

1. OPENINGS ARE PROVIDED FOR INSTALLATION OF ACs IN CASE ONE AC IS PROVIDED. OTHER OPENING SHALL BE CLOSED
2. 220X12MM CHICKEN WIRE MESH TO BE PROVIDED FOR ALL WALL, FLOORING AND ROOF, CHICKEN WIRE MESH SHALL BE CONNECTED WITH EARTHING SYSTEM THROUGH 75X12MM FLAT FIXED ON DIAGONALLY OPPOSITE CO LUMNS ON ITS OUTER SURFACE

AS-BUILT

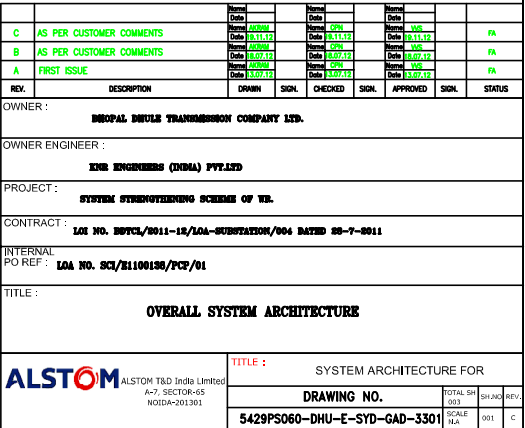
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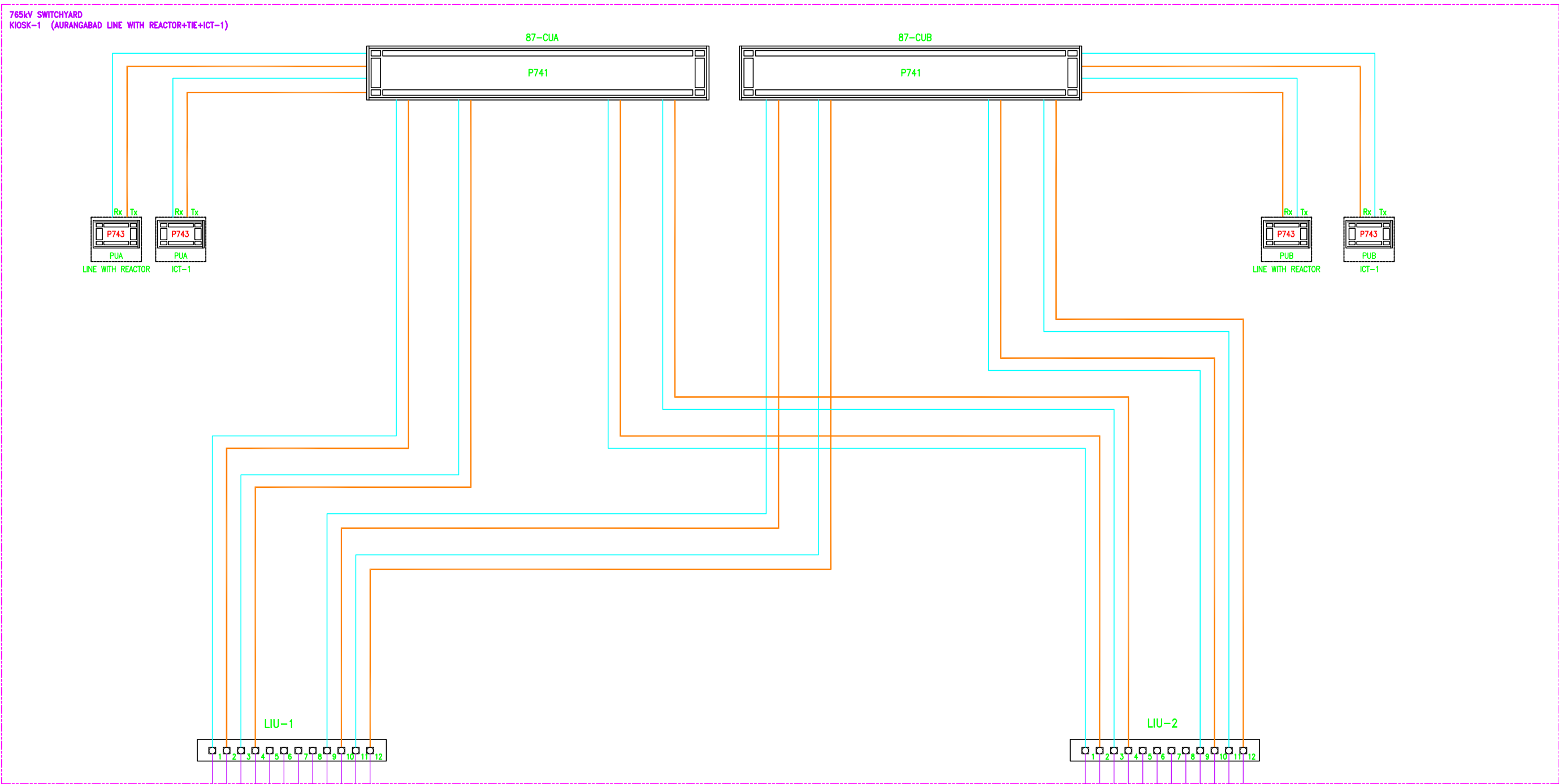
LEGENDS:-

- CABLE TRENCH
- CHEQUERED PLATE
- BRICK WALL
- 50 X 6 M.S FLAT
- PRESENT SCOPE
- FUTURE

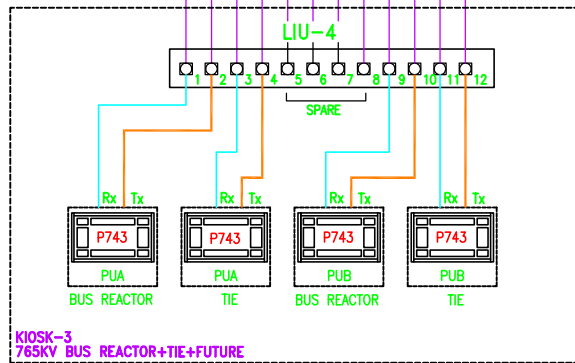
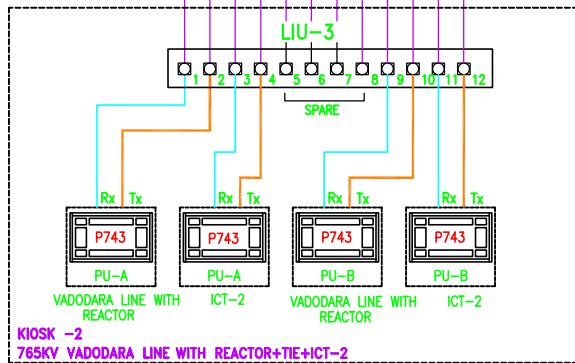
REV.	DESCRIPTION	DRAWN	ELECT.	PH	CHECKED	APPROVED	STATUS
R1	REVISED AS PER CUSTOMER COMMENTS						FOR APPROVAL
R0	FIRST ISSUE						FOR APPROVAL

CUSTOMER:				BHOPAL DHULE TRANSMISSION COMPANY LTD			
OWNER'S ENGINEER:				KNR ENGINEERS (INDIA) PVT. LTD.			
PROJECT:		SYSTEM STRENGTHENING SCHEME OF WR.					
CONTRACT:		LOI NO. BDTCL/2011-12/LOA-SUBSTATIONS/004 DATED 28-07-2011					
TITLE:		400KV SWITCHYARD PANEL ARRANGEMENT FOR DHULE SUBSTATION					
A3	SCALE: 1:450	ALSTOM T&D INDIA LTD (Formerly AREVA T&D INDIA LTD) A-7, SECTOR-65 NOIDA - 201301 UTTAR PRADESH (INDIA).		DRAWING NO.:		SHEET NO	
				5429PS060-DHU-C-SYD-AAR-0031		02 01	





6 CORE MULTIMODE FIBER OPTIC CABLE



NOTES:-

- 1) COMMUNICATION BETWEEN CU & PU SHALL BE ESTABLISHED USING A ST-ST MULTIMODE FIBER OPTIC LINK.
- 2) THE COMMUNICATION PROTOCOL IS BASED ON A PROPEREITARY PROTOCOL.

LEGEND :-

- ST-ST FIBER OPTIC PATCH CORD
- 6 CORE MULTIMODE FIBER OPTIC CABLE

S.NO	EQUIP	QTY.	HARDWARE DES.
1.	LIU-1 TO 4	4	LIU WITH 12 ST PORTS

	Rev	Date	Rev	Date	Rev	Date	
B	AS PER CUSTOMER COMMENT	10/07/21	C	10/07/21	D	10/07/21	FA
A	FIRST ISSUE	09/06/21	B	10/07/21	C	10/07/21	FA
REV.	DESCRIPTION	DRWN	SIGN.	CHECKED	SIGN.	APPROVED	STATUS
OWNER : MPPCL POWER TRANSMISSION COMPANY LTD.							
OWNER ENGINEER : KING ENGINEERING (INDIA) PVT.LTD							
PROJECT : SYSTEM ENGINEERING SCHEMATIC OF WB.							
CONTRACT : LOI NO. 807CS/2011-12/20A-SUBSTATION/004 DATED 08-7-2011							
INTERNAL PO REF : LOA NO. SC3/21100150/PCP/01							
TITLE : OVERALL SYSTEM ARCHITECTURE							
ALSTOM		ALSTOM T&D India Limited A-7, SECTOR-45 NOIDA-201301		TITLE : SYSTEM ARCHITECTURE 765KV BUSBAR ARCHITECTURE DRAWING NO. 5429PS060-DHU-E-SYD-GAD-3301		TOTAL SH SHEET	REV NO
				SCALE 1:1		REV NO	REV NO

S.NO	EQUIP	QTY.	HARDWARE DES.
1.	LIU-1 TO 2	2	LIU WITH 24 ST PORTS

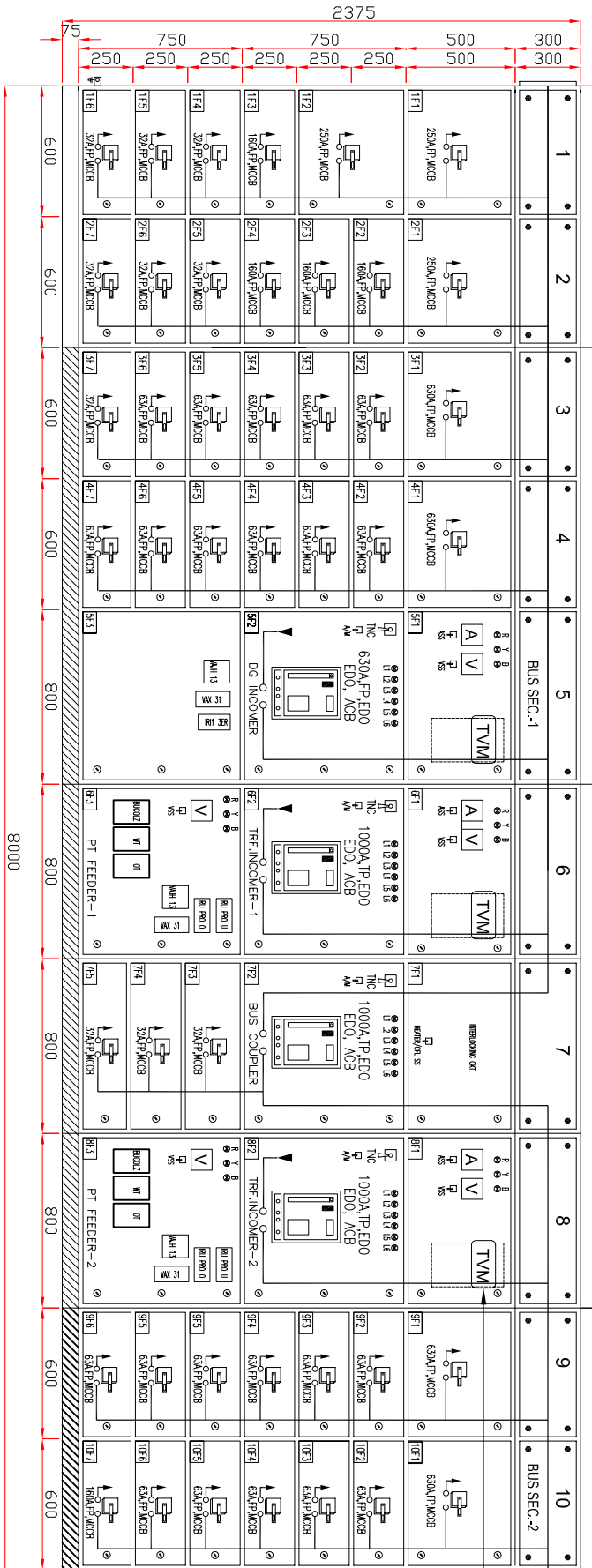
 ALSTOM T&D India Limited A-7, SECTOR-65 NOIDA-201301	TITLE : SYSTEM ARCHITECTURE			
	765KV BUSBAR ARCHITECTURE			
	DRAWING NO.	TOTAL SH	SHEET NO.	REV.
	5429PS080-DHU-E-SYD-GAD-3301	SCALE	003	1
		1:1		

TRANSPORT SECTION-1

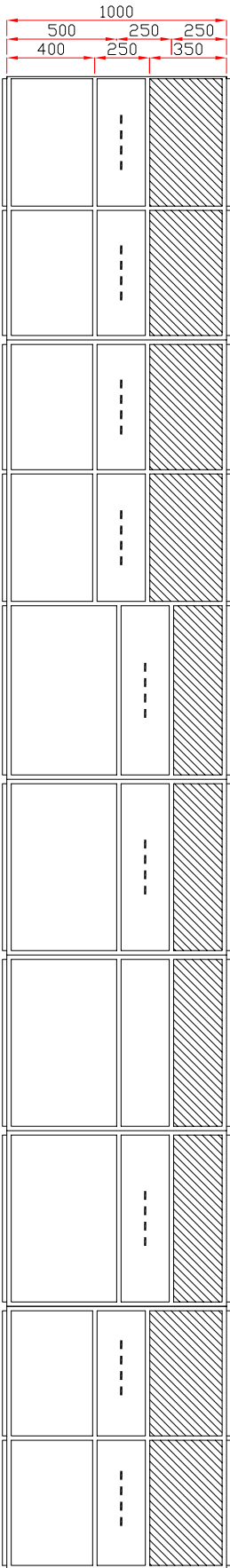
TRANSPORT SECTION-2

TRANSPORT SECTION-3

TRANSPARENT SHEET



FRONT VIEW



TOP/BOTTOM VIEW

NOTES:-1. GENERAL TOLERANCE ± 10
2. DOOR & INTERNAL LAYOUT ARE INDICATIVE ONLY & ARRANGEMENT CAN BE CHANGED AS PER ACTUAL REQUIREMENT

QTY. - 1 NO.

CUSTOMER: BHOPAL DHULE TRANSMISSION COMPANY LTD

OWNER'S ENGINEER: KNR ENGINEERS (INDIA) PVT. LTD.

PROJECT: SYSTEM STRENGTHENING SCHEME OF WR.

CONTRACT: LOT NO. BDTCL/2011-12/DA-SUBSTATIONS/004 DATED 28-07-2011

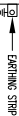
TITLE: GA FOR 415V ACDB

DRAWING NO.: TBS-CS1118-1-GA-002-D

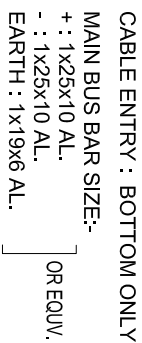
REV: 01

REV	DESCRIPTION	DATE	BY	CHKD	APPD
REV-4					
REV-3					
REV-2					
REV-1					
REV-0					

REV	DESCRIPTION	DATE	BY	CHKD	APPD
REV-4					
REV-3					
REV-2					
REV-1					
REV-0					



SIDE VIEW

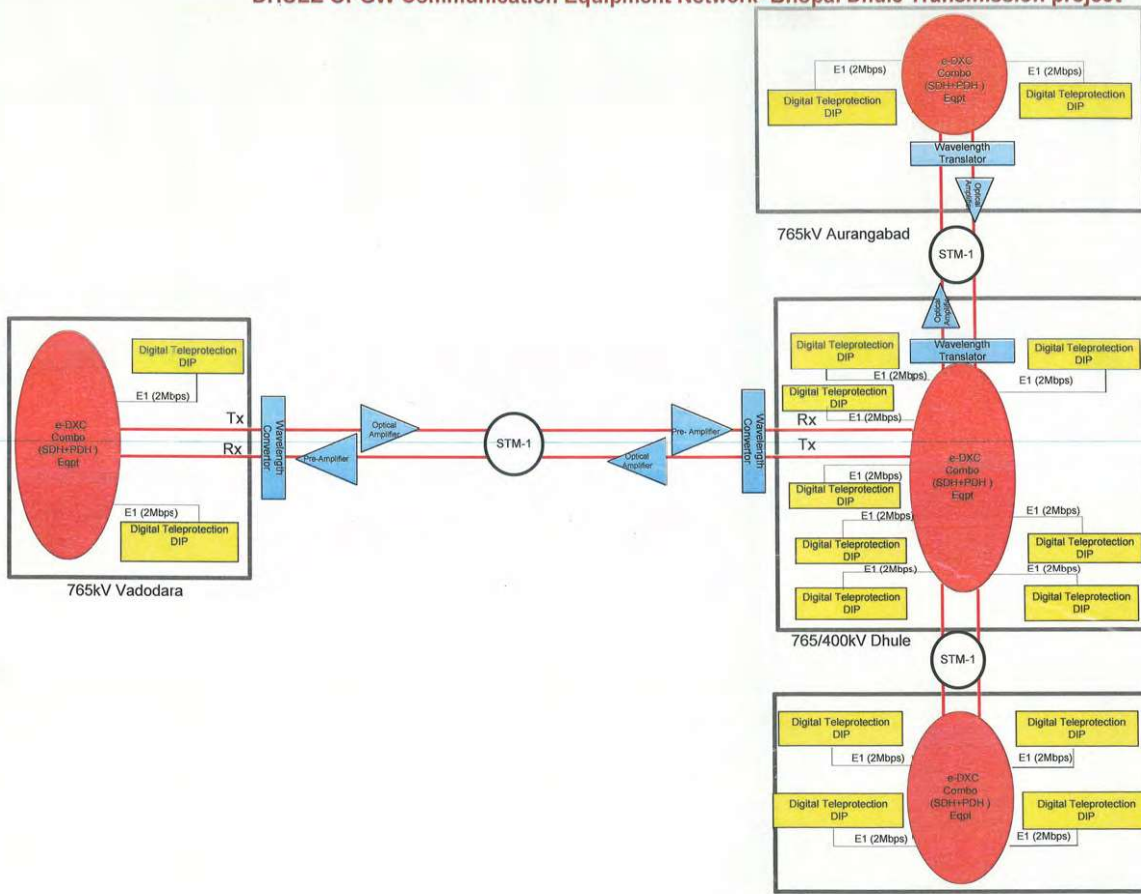


ALL DIMENSIONS ARE IN MM

GA

SCALE	 NRCQA - 2013/01 UTTAR PRADESH (NRCQA)	TBS-CS1118-4-GA-001-D	REV 0
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DHULE OPGW Communication Equipment Network- Bhopal Dhule Transmission project



B.D.T.C.L.
CAT - A- APPROVED
Signed:
Date:
This approval does not absolve the contractor/supplier of his contractual responsibility to engineer an efficient design and successful performance of the Project/Equipment.

CONTROLLED COPY
APPROVAL ☐ AS BUILT
PROTO ☐ CONSTRUCTION
PLANNING ☐ REFERENCE
MANUFACTURING ☐ INDEBT
RECORD ☐ EXECUTION
12 APR 2013 ALSTOM T&D
DI

CLIENT :-
Sterlite
BHOPAL DHULE TRANSMISSION
COMPANY LIMITED.
OPGW Communication Equipment
Network for Dhule

CONTRACTOR :-
ALSTOM
ALSTOM T&D INDIA LTD
Doc No. BDTCL-ALTD-DES-TEL-03 Rev.1
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