

संदर्भ/Ref : CC-ENGG-LD201803-1000981-SS1312-SAS-ARCH-DRG

Date : 16/09/2021

From : Abhay Kumar Senior GM	To : Siemens Limited Pro Factory Plot No L6 Salcette 403722 403722
	Cc : 1) CGM, ER1, RHQ, PATNA 2) CGM, ER2, RHQ, KOLKATA 3) Sr GM, ODISHA, RHQ, BUBHANESWAR

Subject : Package-Y for RTU Replacement / SAS Upgradation Package for Eastern Region under Upgradation of SCADA/RTUs/ SAS in Central Sector Stations and Strengthening of OPGW network in Eastern Region Project

LOA Ref : CC-CS/987-ER1/MISC-4017/3/G5/NOA-I&II/9098&9099 Dated 31/12/2020

Please find enclosed following drawings/ documents for necessary action at your end.

Vendor Drg. No. : (3)G719EA-MG9246-11-C500
Orgn. Drg. No. : LD201803-1000981-SS1312-SAS-ARCH-DRG
Revision No. : 00
Drg. Title : 765/400/220/132/33KV SASARAM - SAS ARCHITECTURE
App. Category : CAT-II
Release Date : 16/09/2021



Scan to verify

Comments : Comments marked in the document.

अनुमोदित श्रेणी/App. Category:

- फेब्रिकेशन/निर्माण/टाइप टेस्टिंग हेतु जारी।
Approved/released for fabrication/construction.
 - फेब्रिकेशन/निर्माण/टाइप टेस्टिंग हेतु अनुमोदित/जारी बशर्ते दिए गए टिप्पणियाँ एवं आशोधनों की सम्मिलित किया जाये। कृपया रिवाइज्ड दस्तावेज अनुमोदनार्थ प्रस्तुत करें।
Approved/released for fabrication/ construction subject to incorporation of comments and modification as noted. Revised drawing required for approval.
 - टिप्पणियाँ सम्मिलित करने के उपरांत दस्तावेज को अनुमोदनार्थ प्रस्तुत करें।
To be resubmitted for approval after incorporating the comments.
 - सूचनार्थ एवं रिकार्ड हेतु।
For information and record.
- REL-CON निर्माण हेतु जारी।
Released for construction.

नोट/Note:

- Approval/Comments conveyed herein neither relieve the contractor of his contractual obligations and his responsibilities, weights, quantities, design details assemble fits, performance particulars and conformity of the supplies with the Indian Statutory Laws as may be applicable, nor does it limits the purchaser's right under the contract.
- The approval conveyed vide this letter does not cover the approval of make for sub-vendor items.



SI DG EA

Configuration Architecture

Please show the entire 765/400/132 & 33kV System connections
Any change in existing network to connect all voltage levels in new SAS may be shown.

End Customer

Power Grid Corporation India Limited  पावरग्रिड
POWERGRID

Consultant	NA
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EPC/Contractor	Siemens Ltd.
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Project	Supply of Goods Contract for Pkg-Y for RTU replacement/SAS Upgradation Pkg For Eastern Region under Upgradation of SCADA/RTU/SAS in Central Sector Stations and strengthening of OPGW network in Eastern Region
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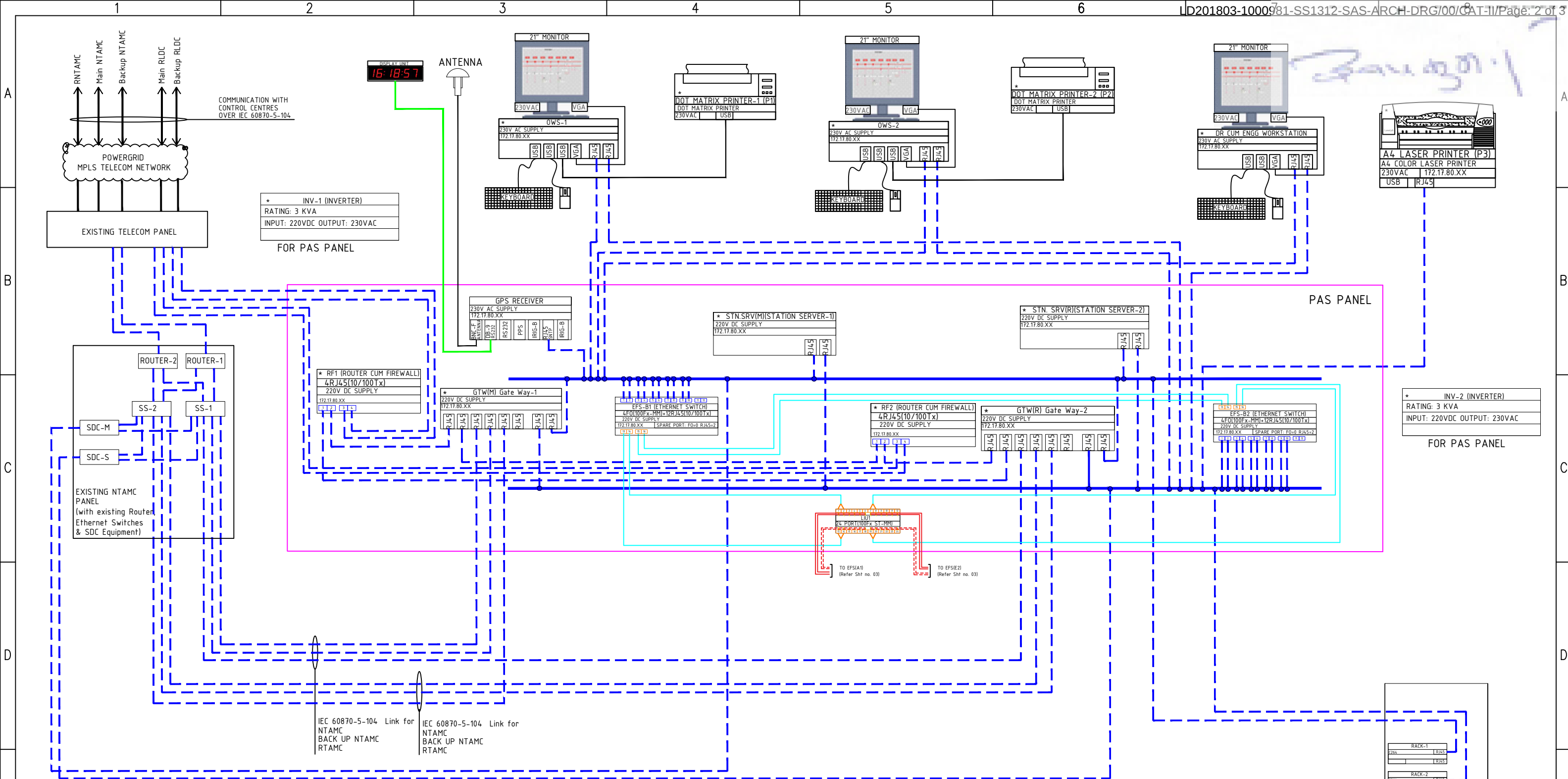
Ref. No.
CC-CS/987-ER1/MISC-4017/3/G5/NOA-I/9098 dated 31/12/2020

Substation	765/400kV Sasaram Substation
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Title	Configuration Architecture
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Drawing No.	(0)-G719EA-MG9246-11-C500
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				Version	0	765/400kV Sasaram Substation Power Grid Corporation India Limited Siemens Ltd			Main Cover Sheet	PGCIL-Y Package		C		
				Drawn By	SSH							C500 01		
0	First Submission	8/5/2021	MV	Chkd By	MV					3007148938	(3)G719EA-MG9246-11-C500		Sh. 01 of 03	
Revision	REMARKS	DATE	NAME	Appr By	AIR	Orig:	Replaces:	Replaced By:				<-	2>	



NOTES:-

- (*) M/s. Siemens will supply New IPC(S) GTW(M),GTW(R), STN. SRV(M), STN. SRV(R), and Firewall cum Router which will be installed in the existing PAS Panel-1 and PAS Panel-2 and New supplied IPC (HMI-1, HMI-2 and DR Cum Engg Workstation along with Printers) will be kept on the existing control desk. New Inverter1 & 2 shall also be installed
- Existing Ethernet Switches, GPS, Time display Unit and Antenna, LIU shall be used.
- As per project requirement, we have connected Existing NTAMC BCU (Rack-1 & 2) to Spare port available in Existing Ethernet Switch mounted in PAS Panel-1 & 2.
- As per requirement from M/s. PGCIL, we have connected Existing SDC mounted in NTAMC Panel to Spare port available in Existing Ethernet Switch mounted in PAS Panel-1 & 2.
- IEC 60870-5-104 (COMMUNICATION LINK / CHANNEL NOT IN SIEMENS SCOPE)
- Telecom Panel communication Port details shall be updated during Site As-built.

	RJ45 ETHERNET CABLE		HMI	HUMAN MACHINE INTERFACE	
	100 MBPS MULTI MODE FIBER OPTIC PATCH CABLE		PES-1, PES-2	ETHERNET SWITCH OF NETWORK PANEL	
	100 MBPS ARMOUR FIBER OPTIC TCP/IP REDUNDANT RING (MULTI MODE)		FO(MM)	FIBER OPTIC (MULTI MODE)	
	100 MBPS ARMOUR FIBER OPTIC TCP/IP MAIN RING (MULTI MODE)		GPS	GLOBAL POSITIONING SYSTEM	
	RS 232 CABLE				

F				Version	0	765/400kV Sasaram Substation			CONFIGURATION ARCHITECTURE	PGCIL-Y Package		C			F
				Drawn By	SSH	Power Grid Corporation India Limited							C500 02		
	0	First Submission	8/5/2021	MV	Chkd By	MV	Siemens Ltd.			3007148938	(3)G719EA-MG9246-11-C500		Sh. 02 of 3		
	Revision	REMARKS	DATE	NAME	Appr By	AIR	Orig:			Replaces:	Replaced By:			<1	

A

B

C

D

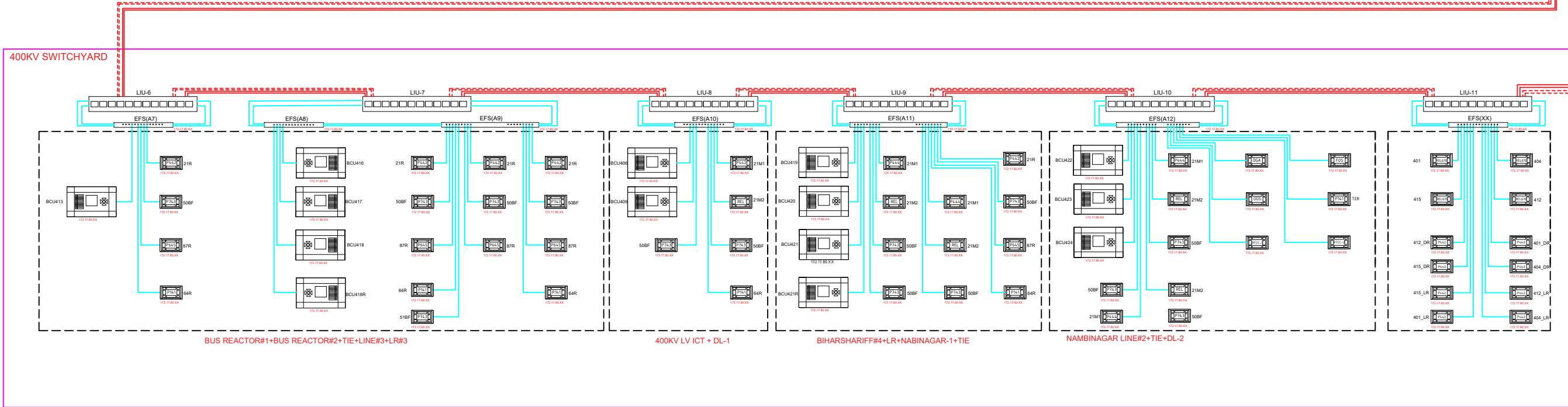
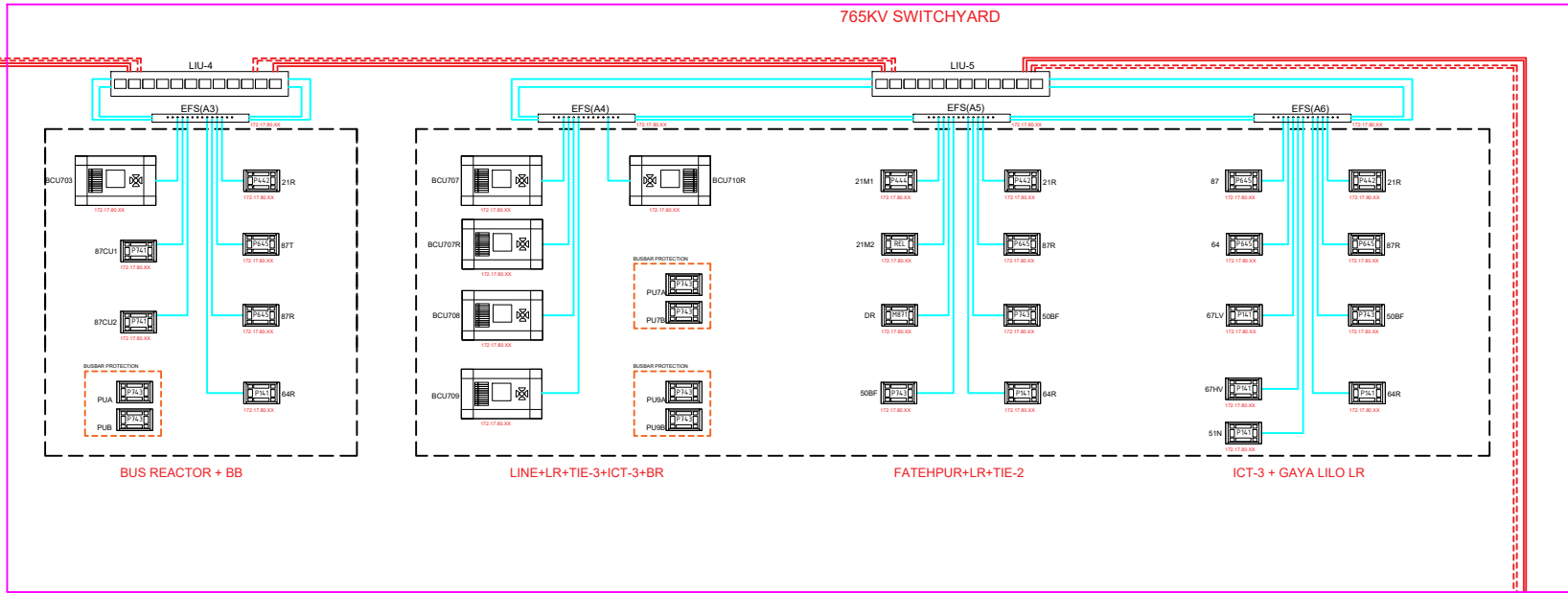
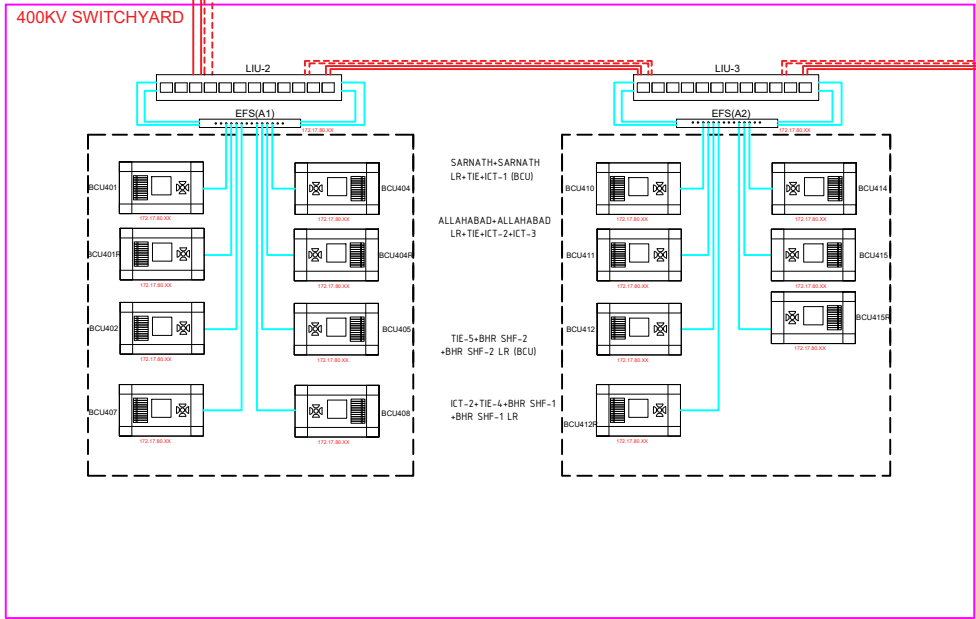
E

F

FROM EFS(B1)
MAIN CENTRAL CONTROL ROOM
(Refer Sht no. 02)

FROM EFS(B2)
MAIN CENTRAL CONTROL ROOM
(Refer Sht no. 02)

2021.03.01



---	RJ45 ETHERNET CABLE		HMI	HUMAN MACHINE INTERFACE	
---	100 MBPS MULTI MODE FIBER OPTIC PATCH CABLE		PES-1, PES-2	ETHERNET SWITCH OF NETWORK PANEL	
-----	100 MBPS ARMOUR FIBER OPTIC TCP/IP REDUNDANT RING (MULTI MODE)		FO(MM)	FIBER OPTIC (MULTI MODE)	
=====	100 MBPS ARMOUR FIBER OPTIC TCP/IP MAIN RING (MULTI MODE)		GPS	GLOBAL POSITIONING SYSTEM	
---	RS 232 CABLE				

				Version	0	765/400kV Sasaram Substation			CONFIGURATION ARCHITECTURE	PGCIL-Y Package		C			
				Drawn By	SSH	Power Grid Corporation India Limited				3007148938		(3)G719EA-MG9246-11-C500			C500 03
0	First Submission	5/8/2021	MV	Chkd By	MV	Siemens Ltd.									
Revision	REMARKS	DATE	NAME	Appr By	AIR	Orig:	Replaces:	Replaced By:						<2	-->