

संदर्भ/Ref : CC-ENGG-TR202308-1002103-SS1907-SAS-ARCH DRG

Date : 21/11/2024

From : Somiran Das
Senior GM**To :** M S HARTEK POWER PRIVATE LIMITED
BOOTH NO 195 SECTOR 37 C CHANDI
CHANDIGARH 160036
160036**Cc :** CGM(Project)/Sr.GM(ENGG),NRTS,Faridabad**Subject :** AIS Substation Extn. Package - SS116 for i) Augmentation of transformation capacity at 400/220 kV Nalagarh S/s by 400/220 kV, 1x500 MVA ICT (4th) ii)Augmentation of transformation capacity at 400/220 kV Bikaner - II PS by 400/220 kV, 1x500 MVA ICT.**LOA Ref :** CC/NT/W-AIS/DOM/A02/23/07106/NOA-1/24-101261/01 Dated 25/01/2024

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

Vendor Drg. No. : TR202308-1002103-SS1907-SAS-ARCH DRG
Orgn. Drg. No. : TR202308-1002103-SS1907-SAS-ARCH DRG
Revision No. : 00
Drg. Title : NALAGARH- SYSTEM ARCHITECTURE DRAWING
App. Category : CAT-I
Release Date : 21/11/2024



Scan to verify

Comments : -**अनुमोदित श्रेणी/App. Category:**

- I. फेब्रिकेशन/निर्माण/टाइप टेस्टिंग हेतु जारी।
Approved/released for fabrication/construction.
- II. 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.
- III. टिप्पणियाँ सम्मिलित करने के उपरांत दस्तावेज को अनुमोदनार्थ प्रस्तुत करें।
To be resubmitted for approval after incorporating the comments.
- IV. सूचनार्थ एवं रिकार्ड हेतु।
For information and record.
- CATREL/ निर्माण हेतु जारी।
REL-CON **Released for construction.**

नोट/Note:

1. 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.
2. The approval conveyed vide this letter does not cover the approval of make for sub-vendor items.

HARTEK®**HARTEK POWER PVT. LTD.****DOCUMENT NO.****NALAGARH- SYSTEM ARCHITECTURE DRAWING****TR202308-1002103-
SS1907-SAS-ARCH DRG****POWER GRID CORPORATION OF INDIA LTD.**

Project :- Project:Substation Package SS-116 for augmentation of transformation capacity at 400/220 kV Nalagarh S/s by 400/220 kV, 1x500 MVA ICT (4th) and augmentation of transformation capacity at 400/220kV Bikaner-II PS by 400/220kV, 1x500MVA ICT

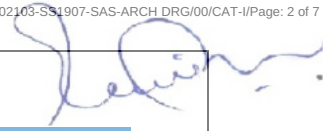
Equipment:-NALAGARH- SYSTEM ARCHITECTURE DRAWING

HARTEK®**HARTEK POWER PVT. LTD.****EPC CONTRACTOR**

REV. NO.	0		1		2		3		ISSUE
	INITIALS	SIGN.	INITIALS	SIGN.	INITIALS	SIGN.	INITIALS	SIGN.	
PPD. BY	G.P.S								Rev R0
CHD. BY	SOU								
APD. BY	K.A								
DATE	25-10-2024								

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SYSTEM ARCHITECTURE DRAWING

SS116 400/220KV
NALAGARH
EXTENSION,PGCIL.

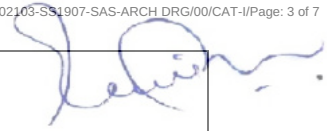
Doc No. : KA2G-SA1-Rev-A

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GE T&D India Limited

END CUSTOMER : POWERGRID CORPORATION OF INDIA LTD
CUSTOMER: HARTEK POWER PRIVATE LIMITED
PROJECT: SS116 400/220KV NALAGARH EXTENSION,PGCIL.
DOCUMENT Ref : KA2G -SA1



DOCUMENT NAME	SAS ARCHITECTURE DRAWING
END CUSTOMER	POWERGRID CORPORATION OF INDIA LTD
CUSTOMER	HARTEK POWER PRIVATE LIMITED
PROJECT	SS116 400/220KV NALAGARH EXTENSION, PGCIL.
PO REF NO.	PO-HPPL-GE-PGCIL SS116-CRP-2912-017 DT- 05.06.2024
SUBSTATION	NALAGARH EXTENSION, PGCIL.

Rev	Date	Revision Comments	Author	Reviewer	Validator
A	22.10.2024	FOR FIRST SUBMISSION	Edmound Franklin	Jayaraman Karunakaran	Siva Sridhar



GE T&D India Limited

END CUSTOMER : POWERGRID CORPORATION OF INDIA LTD

REV: A

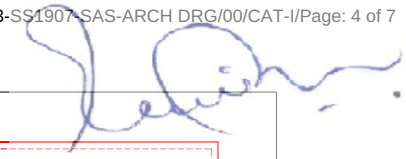
CUSTOMER : HARTEK POWER PRIVATE LIMITED

PROJECT : SS116 400/220KV NALAGARH EXTENSION,PGCIL.

DATE: 22.10.2024

DOCUMENT Ref :KA2G -SA1

SHEET : 2 of 2



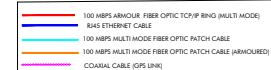
EFS	USED PORTS	SPARE PORTS
EFS-1(16FX)	11FX	05FX
EFS-2(14FX)	05FX	09FX

NOTE:

*TO CLOSE THE PRESENT SCOPE RING WITH EXISTING RING TO BE IDENTIFIED AT SITE.

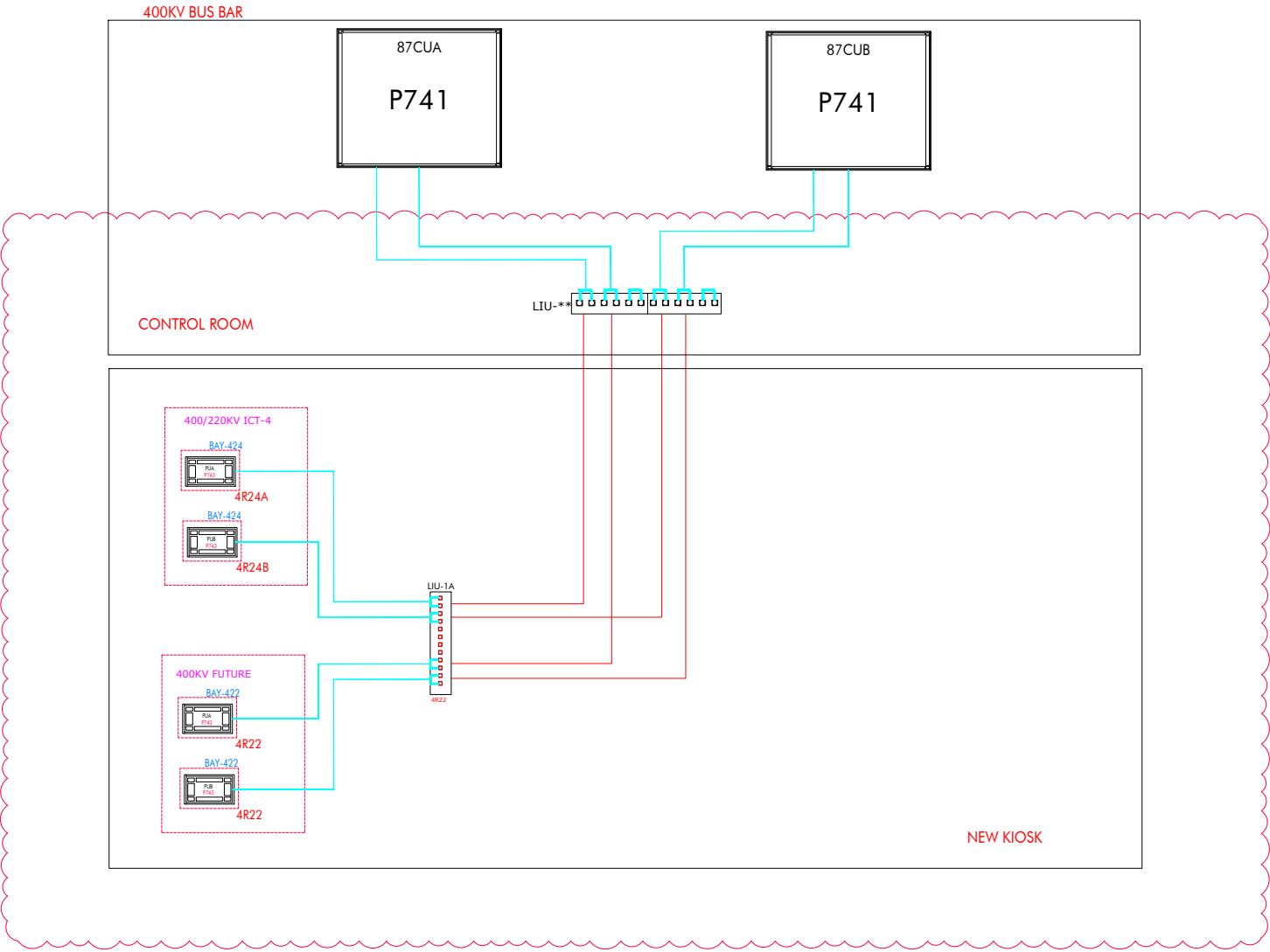
*PANEL REF FOR LIU/EFS SHALL BE UPDATED BASED ON APPROVED SCHEME IF REQUIRED.

LEGEND:-



				DATE : 05.06.2024 SYSTEM ARCHITECTURE DRAWING TITLE : SYSTEM ARCHITECTURE			
A FOR APPROVAL 22.10.2024				 GE T&D India Ltd. (Formerly Asten T&D India Ltd.) Grid Automation-Palavaram India			
REV		DESCRIPTION		DATE			
		P.NL TYPE :-					
ENGR REF NO.		KAS2		SCH REF :-			
SALES ORDER NO.		3768646706		PR ER		KAS05A1	
PREPARED BY :		JOK		SCALE :		DRG REF. : KAS20A1	
CHECKED BY :		JOK		DATE :		22.10.2024	
				SHT 1 OF 3		REV. NO.	

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NOTE:

- * FOR BUSBAR PROTECTION CENTRAL UNIT WILL COMMUNICATE TO PERIPHERAL UNIT.
- * LOCATION FOR MOUNTING THE LIU** TO BE IDENTIFIED AT SITE.
- * CU P741 IS ALREADY EXISTING RELAY.

LEGEND:-

—	100 MBPS ARMOUR FIBER OPTIC TCP/IP RING (MULTI MODE)
—	100 MBPS ARMOUR FIBER OPTIC TCP/IP RING (MULTI MODE)
—	100 MBPS MULTI MODE FIBER OPTIC PATCH CABLE
—	100 MBPS MULTI MODE FIBER OPTIC PATCH CABLE (ARMoured)
—	COAXIAL CABLE (GPS LINK)

CUSTOMER : POWERGRID CORPORATION OF INDIA, PRV LTD.	
CONTRACTOR : HARTEK POWER PRIVATE LIMITED	
PROJECT NAME : SS116 400/220KV NALAGARH EXTENSION,PGCIL	
NDA NO. : PO-HPPL-GE-PGCIL SS116-CRP-2912-017	
DATED : 22.09.2023	
SYSTEM ARCHITECTURE DRAWING	
TITLE : SYSTEM ARCHITECTURE	
GE T&D India Ltd. (Formerly Alstom T&D India Ltd.) Grid Automation-Pallavaram India	
ENGD REF NO : KA2G	FILE : KA2GBA1
SALES ORDER NO : 3209006706	FILE : KA2GBA1
PREPARED BY : AEF	CHECKED BY : JOK
APPROVED BY : SSS	DATE : 22.10.2024
(P) SMT 1 OF 3	



		PNL TYPE : -		Grid Automation-Pallavaram India			
ENGG.REF.NO. : KA2G		SCH REF. : -		PREPARED BY : AEF		SCALE: -	
				CHECKED BY : JKC		DRG. REF.: KA2GSA1 (F)	
SALES ORDER NO : 3269066706		FILE : KA2GSA1		APPROVED BY: SSS		(F) SHT 1 OF 3	
						DATE: 22.10.2024	
						REV: A	

