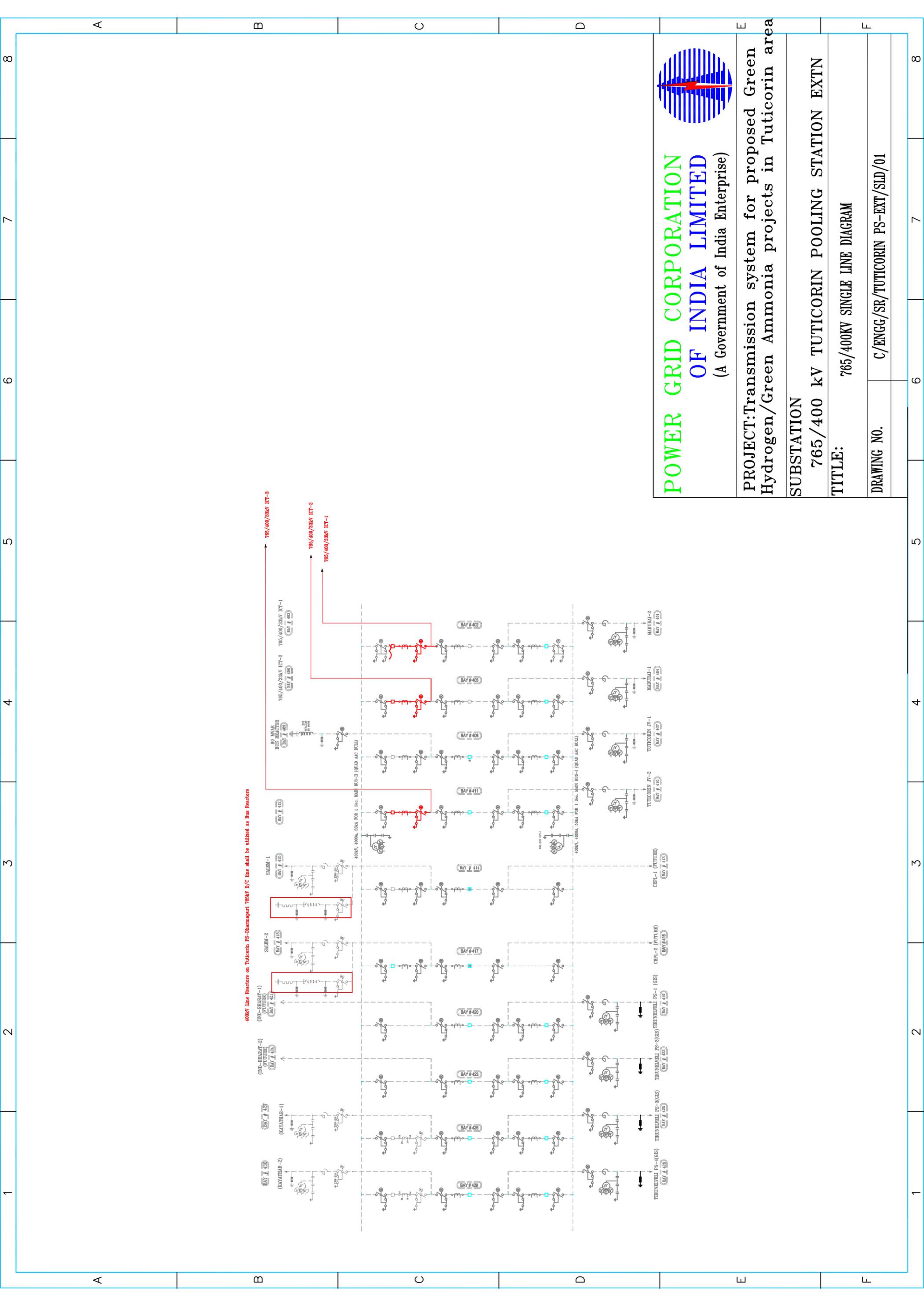
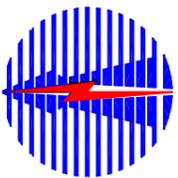


# **A. Tuticorin PS**

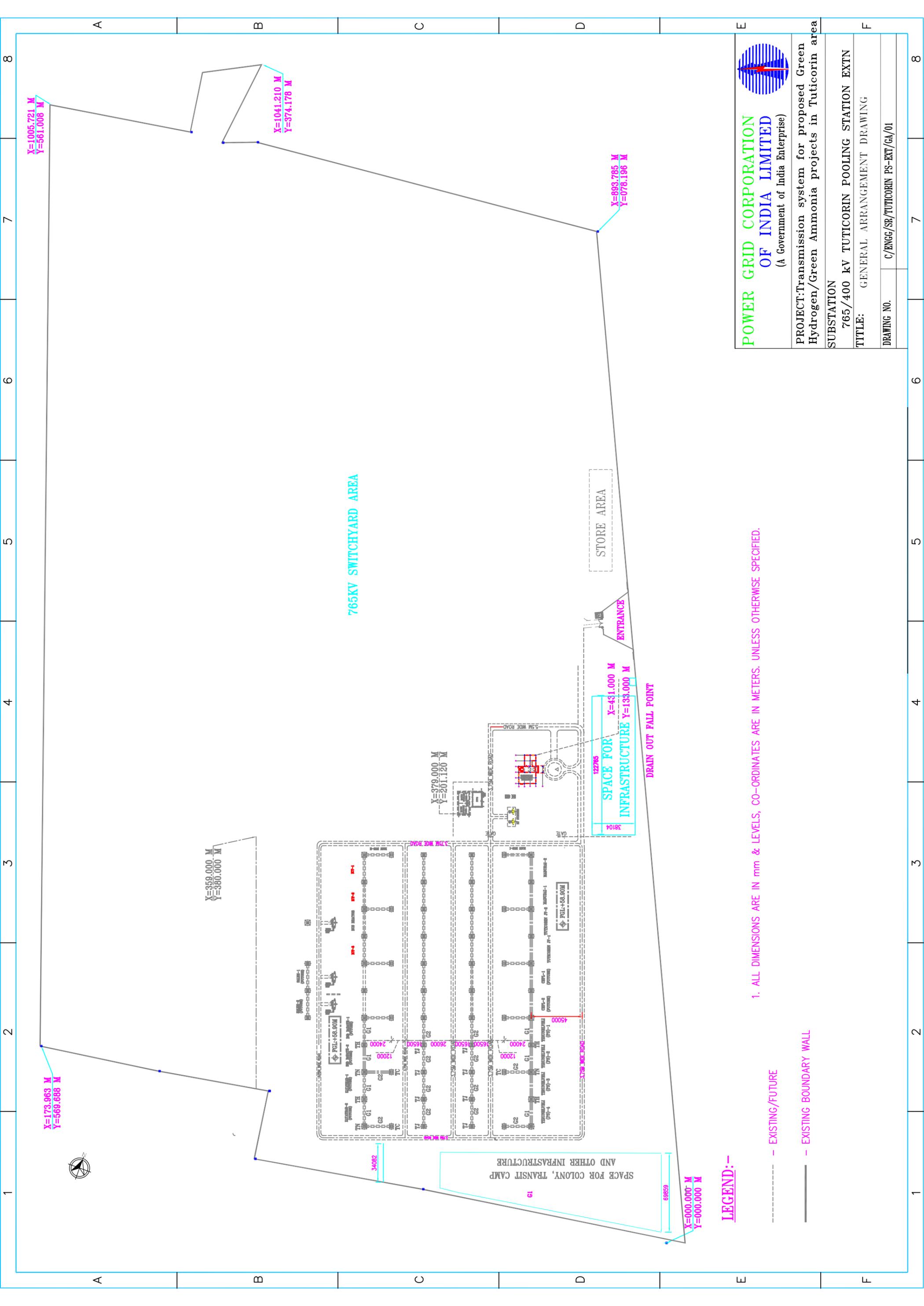
**POWER GRID CORPORATION  
OF INDIA LIMITED**  
(A Government of India Enterprise)

**PROJECT:** Transmission system for proposed Green Hydrogen/Green Ammonia projects in Tuticorin area

**SUBSTATION**  
765/400 kV TUTICORIN POOLING STATION EXTN

**TITLE:**  
765/400KV SINGLE LINE DIAGRAM

**DRAWING NO.**  
C/ENGG/SR/TUTICORIN PS-EXT/SLD/01



X=1005.721 M  
Y=561.008 M

X=1041.210 M  
Y=374.178 M

X=893.785 M  
Y=078.196 M

X=359.000 M  
Y=380.000 M

X=173.963 M  
Y=569.688 M

X=379.000 M  
Y=201.120 M

SPACE FOR  
INFRASTRUCTURE  
X=431.000 M  
Y=133.000 M

X=000.000 M  
Y=000.000 M

**LEGEND:-**

--- EXISTING/FUTURE

— EXISTING BOUNDARY WALL

1. ALL DIMENSIONS ARE IN mm & LEVELS, CO-ORDINATES ARE IN METERS. UNLESS OTHERWISE SPECIFIED.



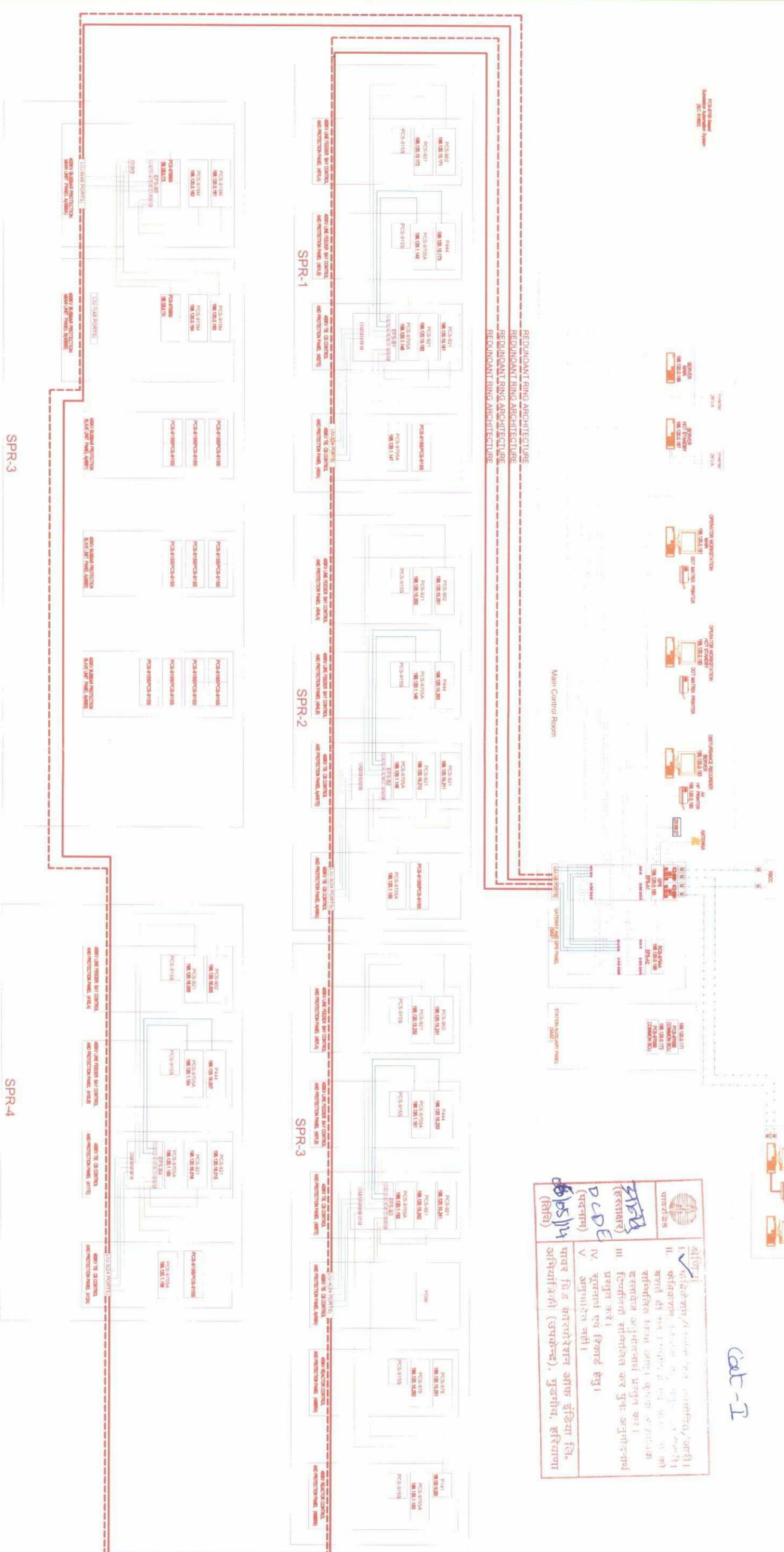
PROJECT: Transmission system for proposed Green Hydrogen/Green Ammonia projects in Tuticorin area	
SUBSTATION 765/400 kV TUTICORIN POOLING STATION EXTN	
TITLE: GENERAL ARRANGEMENT DRAWING	
DRAWING NO.	C/ENGG/SR/TUTICORIN PS-EXTN/GA/01





400KV TUTICORIN POOLING STATION

REDUNDANT RING ARCHITECTURE  
REDUNDANT RING ARCHITECTURE  
REDUNDANT RING ARCHITECTURE



**ACCEPTED**  
 (Date) 06/05/14  
 (Signature) [Signature]  
 (Name) D. C. D. E.  
 (Designation) [Designation]  
 (Department) [Department]

I. [Text]  
 II. [Text]  
 III. [Text]  
 IV. [Text]  
 V. [Text]

धारा 11 के अन्तर्गत शीघ्र स्वीकार किया गया।  
 धारा 11 के अन्तर्गत शीघ्र स्वीकार किया गया।

cat-1

- LEGEND
- 1. RAS ETHERNET PORT
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- DESCRIPTION
- 1. OPERATOR WORK STATION
  - 2. AS PER APPROVED GTP
  - 3. AS PER APPROVED GTP
  - 4. AS PER APPROVED GTP
  - 5. AS PER APPROVED GTP
  - 6. AS PER APPROVED GTP
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  - 16. AS PER APPROVED GTP

- DESCRIPTION
- 1. LINE MAIN ISOLATION RELAY
  - 2. LINE MAIN ISOLATION RELAY
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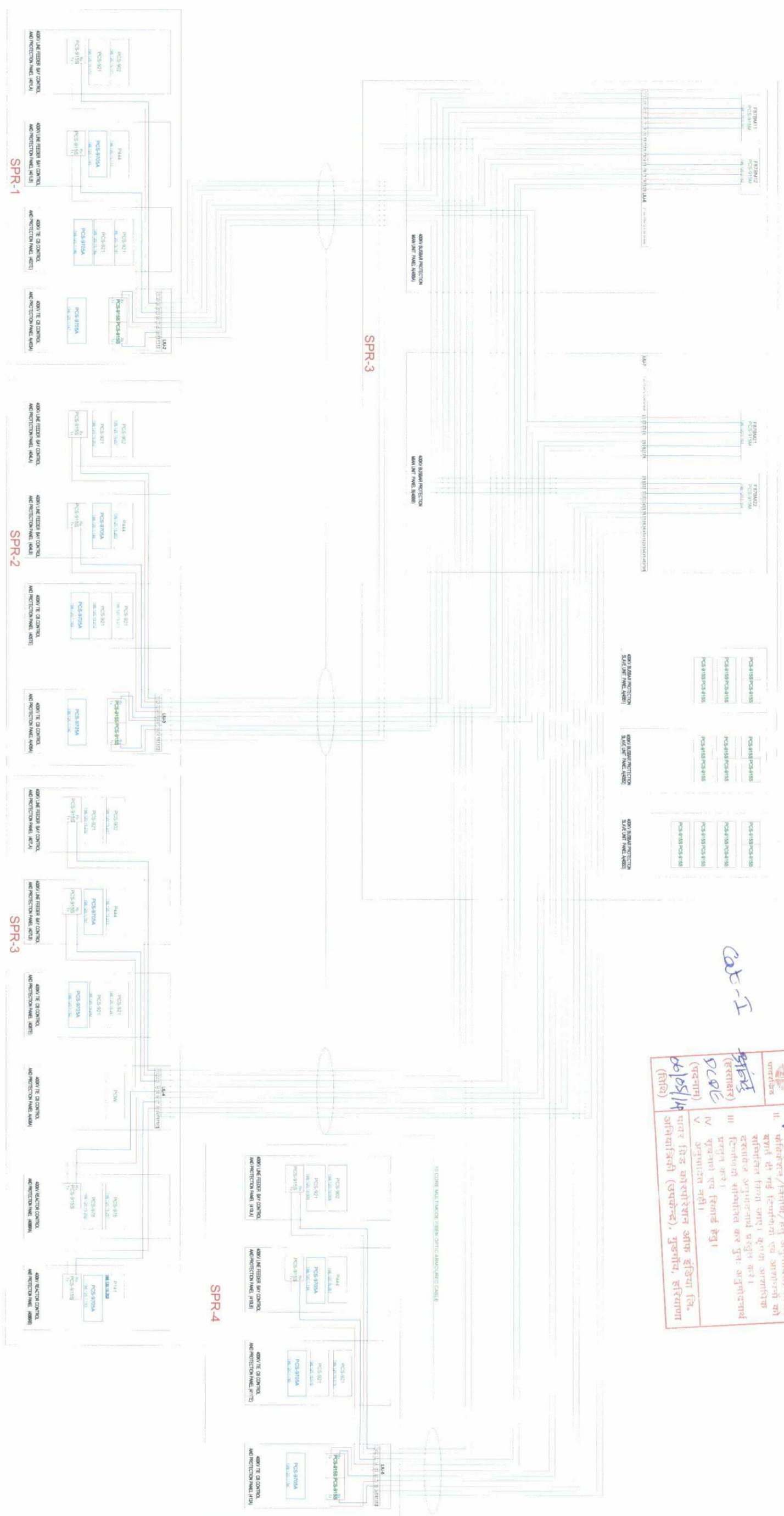
- DESCRIPTION
- 1. BUSBAR SLAVE LIMITS CONNECTION
  - 2. BUSBAR SLAVE LIMITS CONNECTION
  - 3. BUSBAR SLAVE LIMITS CONNECTION
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  - 16. BUSBAR SLAVE LIMITS CONNECTION

- DESCRIPTION
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  - 16. BUSBAR MAIN LIMITS CONNECTION

- DESCRIPTION
- 1. PROTECTIVE RELAY
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  - 16. PROTECTIVE RELAY

- DESCRIPTION
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  - 15. PROTECTIVE RELAY
  - 16. PROTECTIVE RELAY

400KV TUTICORIN POOLING STATION



S.NO	DESCRIPTION	QTY	HARDWARE/SOFTWARE SPECIFICATION	RELAY		DESCRIPTION	NOTE
				PCS#1915	PCS#1916		
1	1. 400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	4	400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR EGRESS CONTROL UNIT	FOR EACH MASTER UNIT OF BUS BAR MAXIMUM 24 SV UNITS CAN BE CONNECTED
2	2. 400V BUSBAR PROTECTION AND SV PANEL (A-F)	4	400V BUSBAR PROTECTION AND SV PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR PROTN SLAVE UNIT	
3	3. 400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	4	400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR EGRESS CONTROL UNIT	
4	4. 400V BUSBAR PROTECTION AND SV PANEL (A-F)	4	400V BUSBAR PROTECTION AND SV PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR PROTN SLAVE UNIT	
5	5. 400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	4	400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR EGRESS CONTROL UNIT	
6	6. 400V BUSBAR PROTECTION AND SV PANEL (A-F)	4	400V BUSBAR PROTECTION AND SV PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR PROTN SLAVE UNIT	
7	7. 400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	4	400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR EGRESS CONTROL UNIT	
8	8. 400V BUSBAR PROTECTION AND SV PANEL (A-F)	4	400V BUSBAR PROTECTION AND SV PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR PROTN SLAVE UNIT	
9	9. 400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	4	400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR EGRESS CONTROL UNIT	
10	10. 400V BUSBAR PROTECTION AND SV PANEL (A-F)	4	400V BUSBAR PROTECTION AND SV PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR PROTN SLAVE UNIT	
11	11. 400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	4	400V LINE EGRESS SV CONTROL AND PROTECTION PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR EGRESS CONTROL UNIT	
12	12. 400V BUSBAR PROTECTION AND SV PANEL (A-F)	4	400V BUSBAR PROTECTION AND SV PANEL (A-F)	PCS#1915	PCS#1916	BUSBAR PROTN SLAVE UNIT	

**Cat-I**

(प्रस्ताव) ०८०८  
०६/०५/१४  
(तारीख)

**अतिरिक्त**  
 I. ✓ विभाजन/खंड/खंड अंतर्गत/वर्गीकृत  
 II. विभाजन/खंड/खंड अंतर्गत/वर्गीकृत  
 III. विभाजन/खंड/खंड अंतर्गत/वर्गीकृत  
 IV. विभाजन/खंड/खंड अंतर्गत/वर्गीकृत  
 V. विभाजन/खंड/खंड अंतर्गत/वर्गीकृत

एतद्वारा (उपरोक्त) प्रस्ताव, प्रस्ताव, प्रस्ताव  
 अतिरिक्त (उपरोक्त) प्रस्ताव, प्रस्ताव, प्रस्ताव

**NR**  
NR ELECTRIC CO. LTD.

PROJECT NO. NR/001/2014  
DRAWING NO. NR/001/2014/01  
SHEET NO. 01 OF 01

DATE: 05/05/14  
BY: [Signature]  
CHECKED: [Signature]  
APPROVED: [Signature]

**B. Dharmapuri (Salem New)**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A

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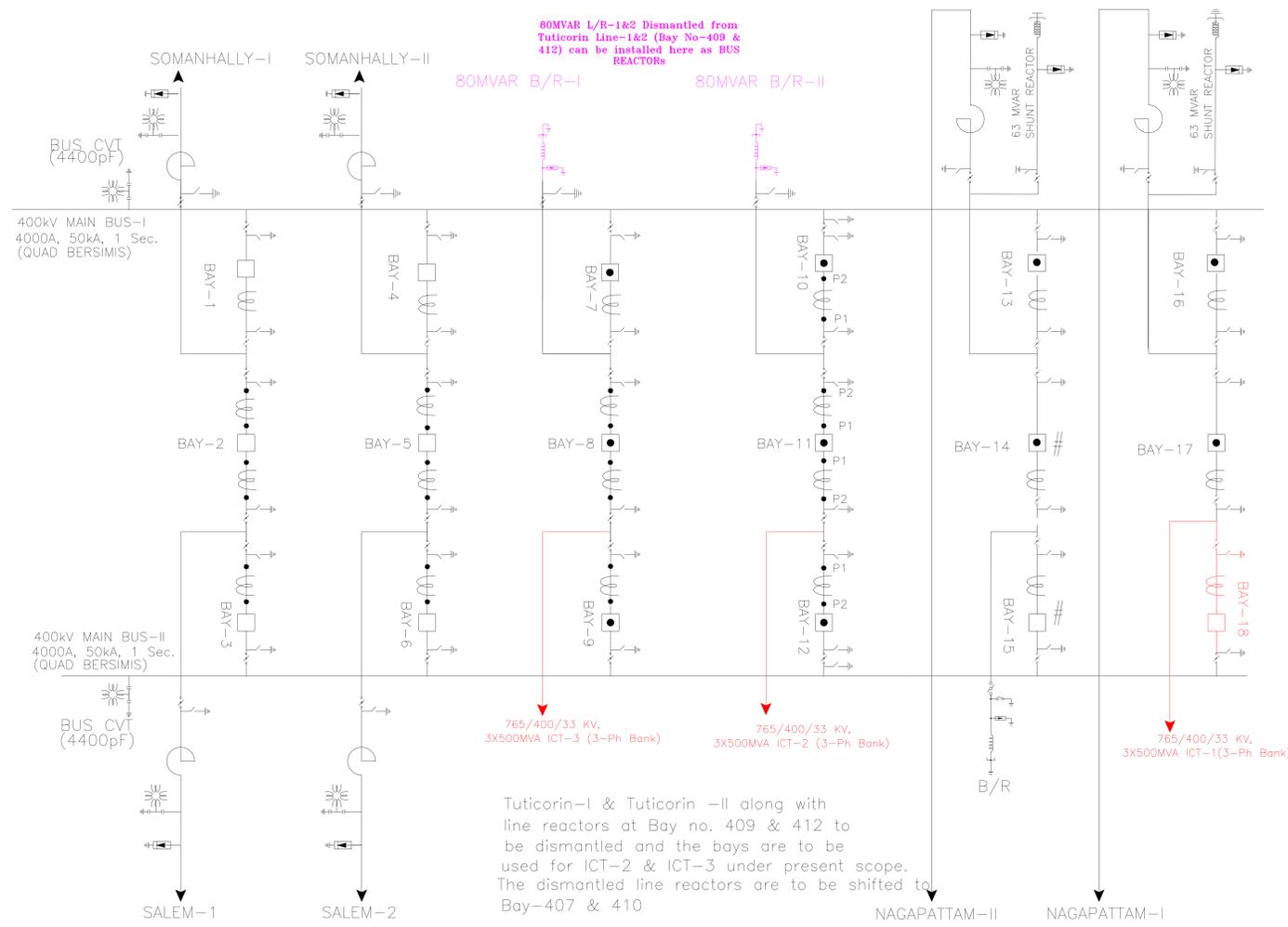
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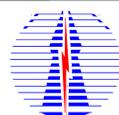


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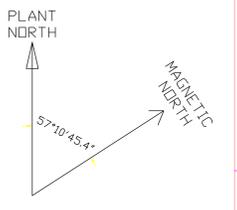
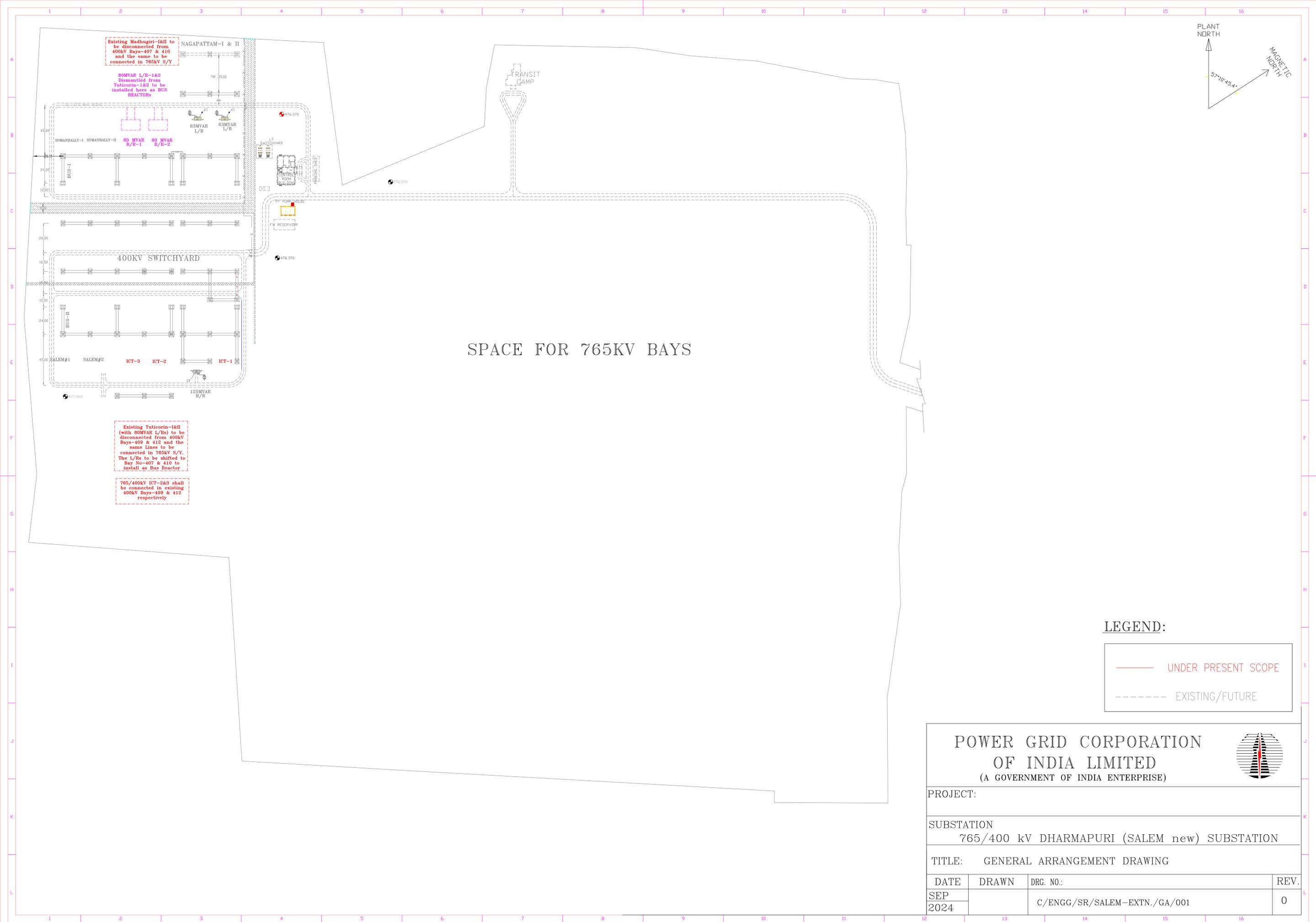
- UNDER PRESENT SCOPE
- - - - EXISTING/FUTURE
- - - - DISMANTLED EQPTS TO BE REINSTALLED

FOR TENDER PURPOSE

**POWER GRID CORPORATION OF INDIA LIMITED**  
(A GOVERNMENT OF INDIA ENTERPRISE)



PROJECT:			
SUBSTATION: EXTN. OF 765/400 kV DHARMAPURI (SALEM NEW) STATION			
TITLE: SINGLE LINE DIAGRAM			
DATE	DRAWN	DRG. NO.:	REV.
SEP 2024		C/ENGG/SR/SALEM NEW-EXTN./SLD/001	0

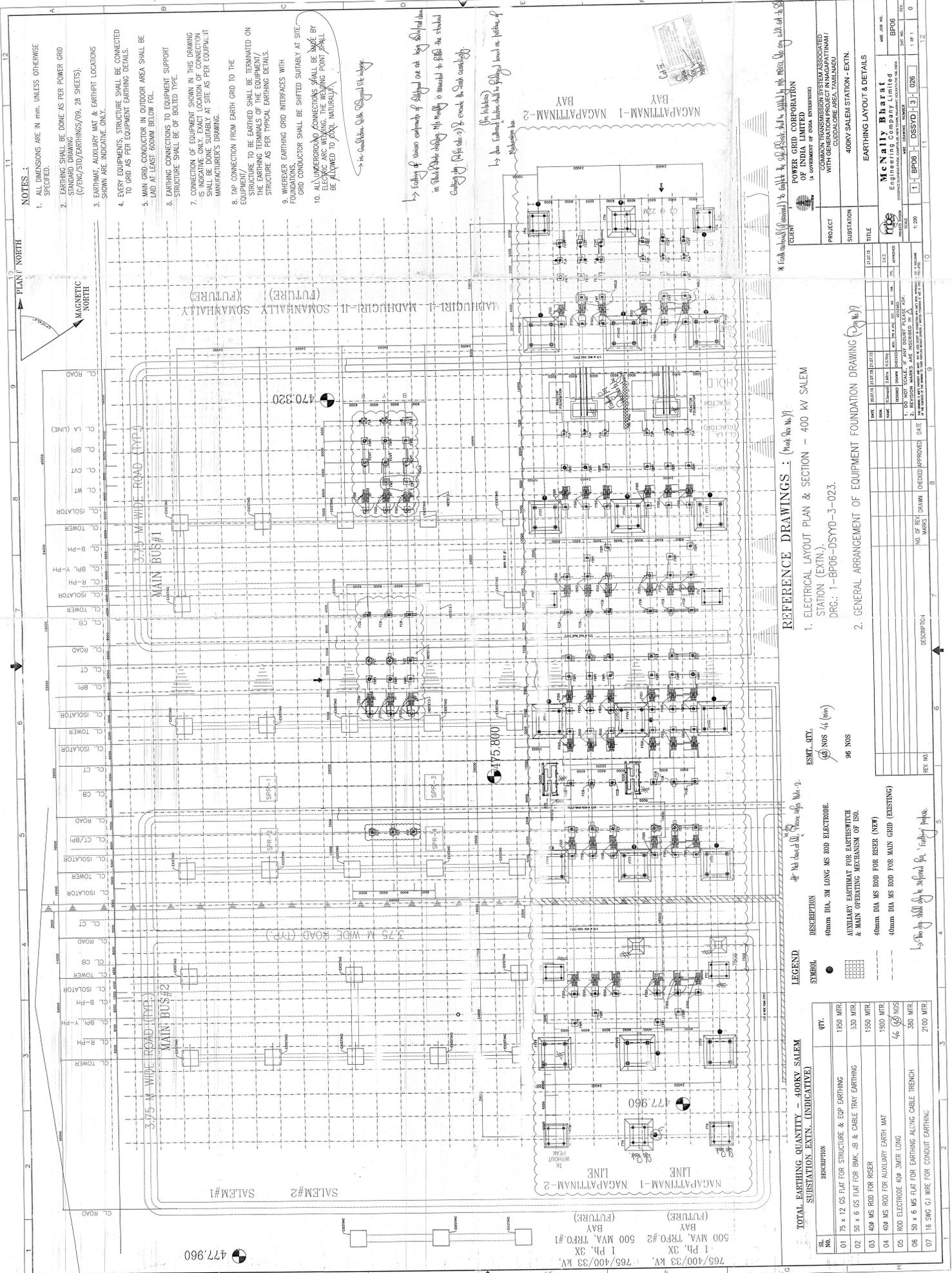


SPACE FOR 765KV BAYS

**LEGEND:**



<b>POWER GRID CORPORATION OF INDIA LIMITED</b> (A GOVERNMENT OF INDIA ENTERPRISE)				
PROJECT:				
SUBSTATION				
765/400 kV DHARMAPURI (SALEM new) SUBSTATION				
TITLE: GENERAL ARRANGEMENT DRAWING				
DATE	DRAWN	DRG. NO.:	REV.	
SEP 2024		C/ENGG/SR/SALEM-EXTN./GA/001	0	



**NOTES :**

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
2. EARTHING SHALL BE DONE AS PER POWER GRID STANDARD DRAWING (C/ENG/STD/EARTHINGS/09, 28 SHEETS).
3. EARTH MAT, AUXILIARY MAT & EARTH PIT LOCATIONS SHOWN ARE INDICATIVE ONLY.
4. EVERY EQUIPMENTS, STRUCTURE SHALL BE CONNECTED TO GRID AS PER EQUIPMENT EARTHING DETAILS.
5. MAIN GRID CONDUCTOR IN OUTDOOR AREA SHALL BE LAID AT LEAST 60MM BELOW FOL.
6. EARTHING CONNECTIONS TO EQUIPMENT SUPPORT STRUCTURE SHALL BE OF BOLTED TYPE.
7. CONNECTION OF EQUIPMENT SHOWN IN THIS DRAWING IS INDICATIVE ONLY. THE TYPE OF CONNECTION SHALL BE DONE SUITABLY AT SITE AS PER EQUIPMENT MANUFACTURER'S DRAWING.
8. TAP CONNECTION FROM EARTH GRID TO THE EQUIPMENT SHALL BE EARTHED SHALL BE TERMINATED ON THE EARTHING TERMINALS OF THE EQUIPMENT/ STRUCTURE AS PER TYPICAL EARTHING DETAILS.
9. WHEREVER EARTHING GRID INTERFACES WITH FOUNDATION STRUCTURE SHALL BE SHIFTED SUITABLY AT SITE. GRID CONDUCTOR SHALL BE SHIFTED SUITABLY AT SITE.
10. ALL UNDERGROUND CONNECTIONS SHALL BE MADE BY ELECTROLYTIC WELDING. THE WELDING POINT SHALL BE ALLOWED TO FACE NATURALLY.

*in the condition with original set change*

*→ Existing of some components of Station are not being indicated in this drawing as they are to be removed to BPR the attached Drawing (Ref No-2) to connect the work suitably.*

*(for future)*

*→ New Equipment shall be supplied from the foundation of Nagapattinam-1.*

**REFERENCE DRAWINGS :** (Ref No. No.)

1. ELECTRICAL LAYOUT PLAN & SECTION - 400 KV SALEM STATION (EXTN).
2. GENERAL ARRANGEMENT OF EQUIPMENT FOUNDATION DRAWING (Ref No. No.)

ESMT. QTY.  
 (6) NOS 44 (typ)  
 96 NOS

**LEGEND**

SYMBOL	DESCRIPTION
●	40mm DIA. 3M LONG MS ROD ELECTRODE.
■	AUXILIARY EARTH MAT FOR EARTH PIT & MAIN OPERATING MECHANISM OF ISOL.
—	40mm DIA. MS ROD FOR RISER (NEW)
---	40mm DIA. MS ROD FOR MAIN GRID (EXISTING)

*→ The rods shall be supplied for earthing purpose.*

**TOTAL EARTHING QUANTITY - 400KV SALEM SUBSTATION EXTN. (INDICATIVE)**

SL. NO.	DESCRIPTION	QTY.
01	75 x 12 GS FLAT FOR STRUCTURE & EOP EARTHING	1550 MTR
02	50 x 6 GS FLAT FOR ENK. JB & CABLE TRAY EARTHING	330 MTR
03	40P MS ROD FOR RISER	1500 MTR
04	40P MS ROD FOR AUXILIARY EARTH MAT	1500 MTR
05	ROD ELECTRODE 40P 3MTR LONG	46 (6) NOS
06	50 x 6 MS FLAT FOR EARTHING ALONG CABLE TRENCH	380 MTR
07	18 SWG GI WIRE FOR CONDUIT EARTHING	2100 MTR

08 Main Earthing →

**POWER GRID CORPORATION OF INDIA LIMITED**  
 (A GOVERNMENT OF INDIA ENTERPRISE)  
 COMMON TRANSMISSION SYSTEM ASSOCIATED WITH GENERATION PROJECT (TANJAVUR) (TANJAVUR)

**PROJECT** 400KV SALEM STATION - EXTN.  
**TITLE** EARTHING LAYOUT & DETAILS

**DESIGNER** **McNally Bharat Engineering Company Limited**  
 (A MEMBER FIRM OF MCA GROUP OF COMPANIES)  
 11, BP06 - DSYYO - 3 - 026

**DATE** 21.03.15  
**SCALE** SLS  
**APPROVED** [Signature]

**NO. OF REV. MARKS** DRAWN CHECKED APPROVED DATE

**REV. NO.** DESCRIPTION

\* Each sheet shall be supplied to the site office. The sheets shall be supplied to the site office with the original set.

**DRG. 1 - BP06 - DSYYO - 3 - 023.**

**NO. OF REV. MARKS** DRAWN CHECKED APPROVED DATE

**REV. NO.** DESCRIPTION

1. DO NOT SCALE IF ANY DOUBT PLEASE ASK.

2. REVISION MARKS ARE INDICATED BY A.

3. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE POWER GRID CORPORATION OF INDIA LIMITED.

4. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE POWER GRID CORPORATION OF INDIA LIMITED.

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28. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE POWER GRID CORPORATION OF INDIA LIMITED.

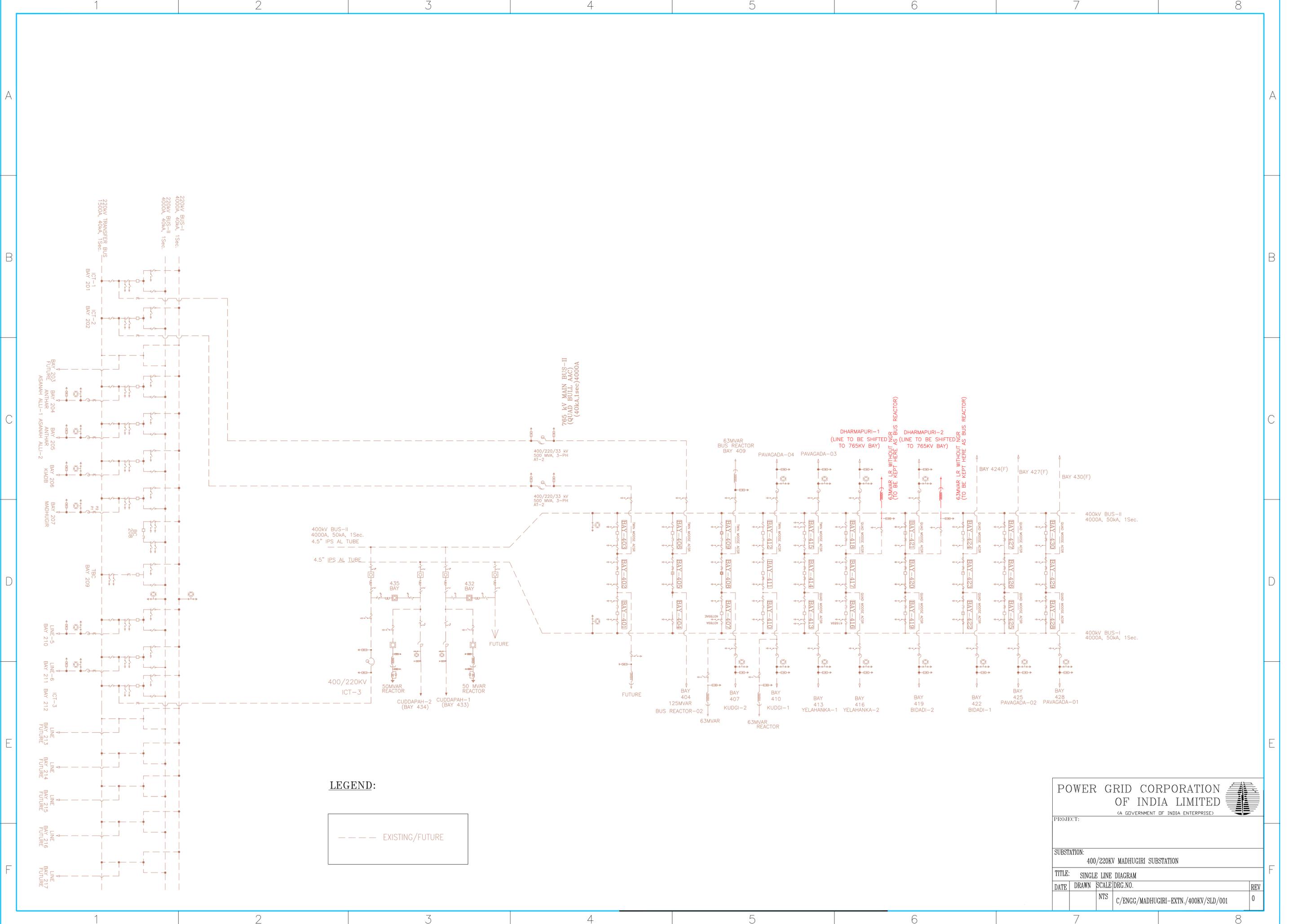
29. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE POWER GRID CORPORATION OF INDIA LIMITED.

30. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE POWER GRID CORPORATION OF INDIA LIMITED.

31. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE POWER GRID CORPORATION OF INDIA LIMITED.

32. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE POWER GRID CORPORATION OF INDIA LIMITED.

**C. Madhugiri S/s**



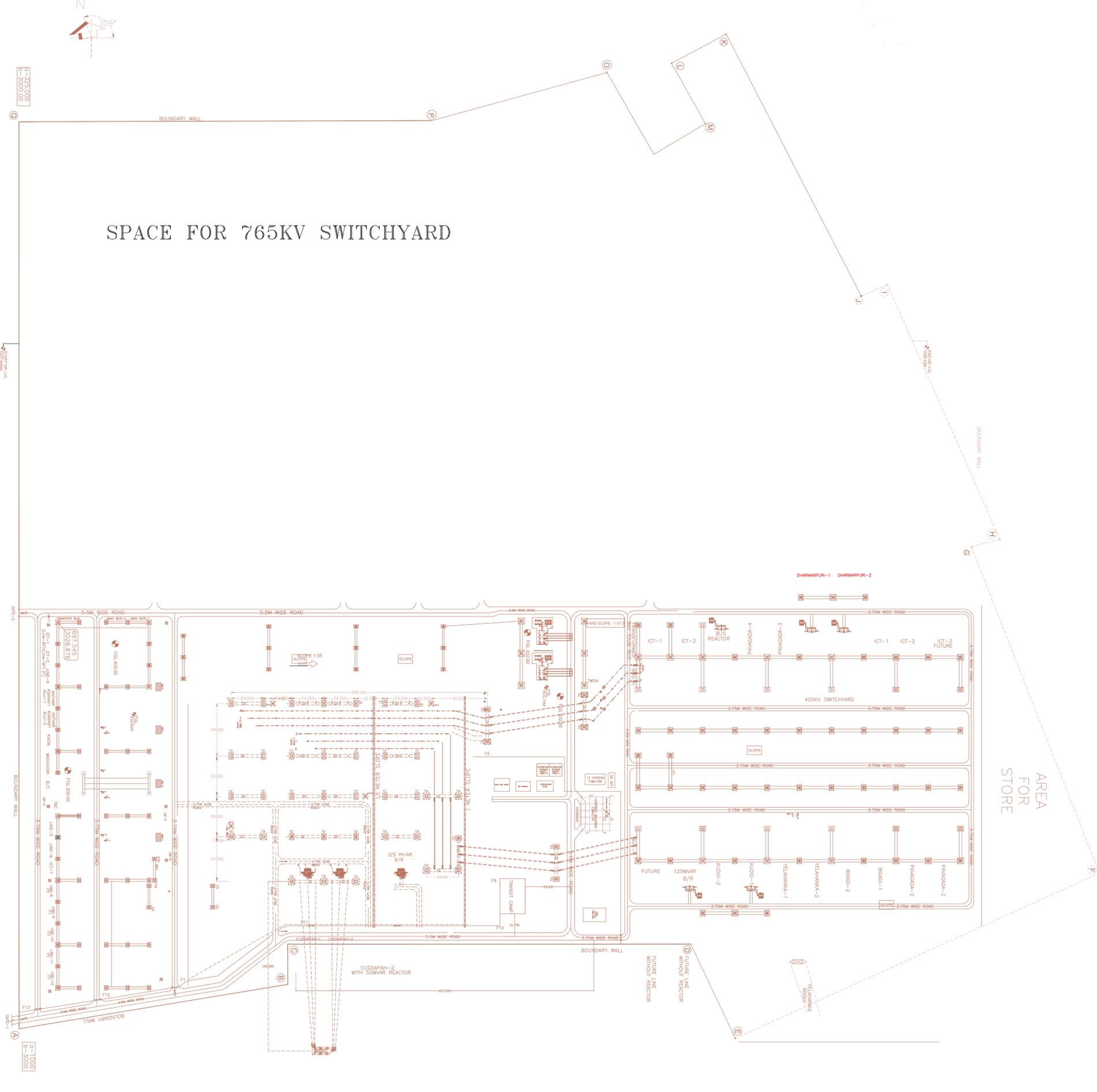
**LEGEND:**



<b>POWER GRID CORPORATION OF INDIA LIMITED</b> <small>(A GOVERNMENT OF INDIA ENTERPRISE)</small>			
PROJECT:			
SUBSTATION: 400/220KV MADHUGIRI SUBSTATION			
TITLE: SINGLE LINE DIAGRAM			
DATE	DRAWN	SCALE	DRG.NO.
		NTS	C/ENGG/MADHUGIRI-EXTN./400KV/SLD/001
			REV
			0



SPACE FOR 765KV SWITCHYARD



NOTE:  
1. ALL DIMENSIONS ARE IN METER.

LEGEND:



FOR TENDER PURPOSE

POWER GRID CORPORATION  
OF INDIA LIMITED  
(A GOVERNMENT OF INDIA ENTERPRISE)



PROJECT:

SUBSTATION:

400/220KV MADHUGIRI SUBSTATION

TITLE:

GENERAL ARRANGEMENT DRAWING

DATE

DRAWN

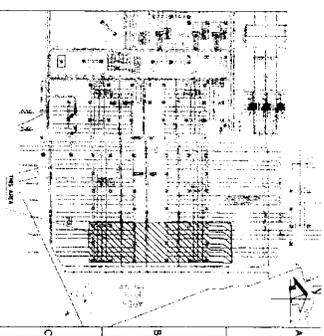
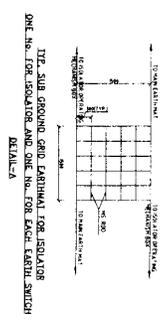
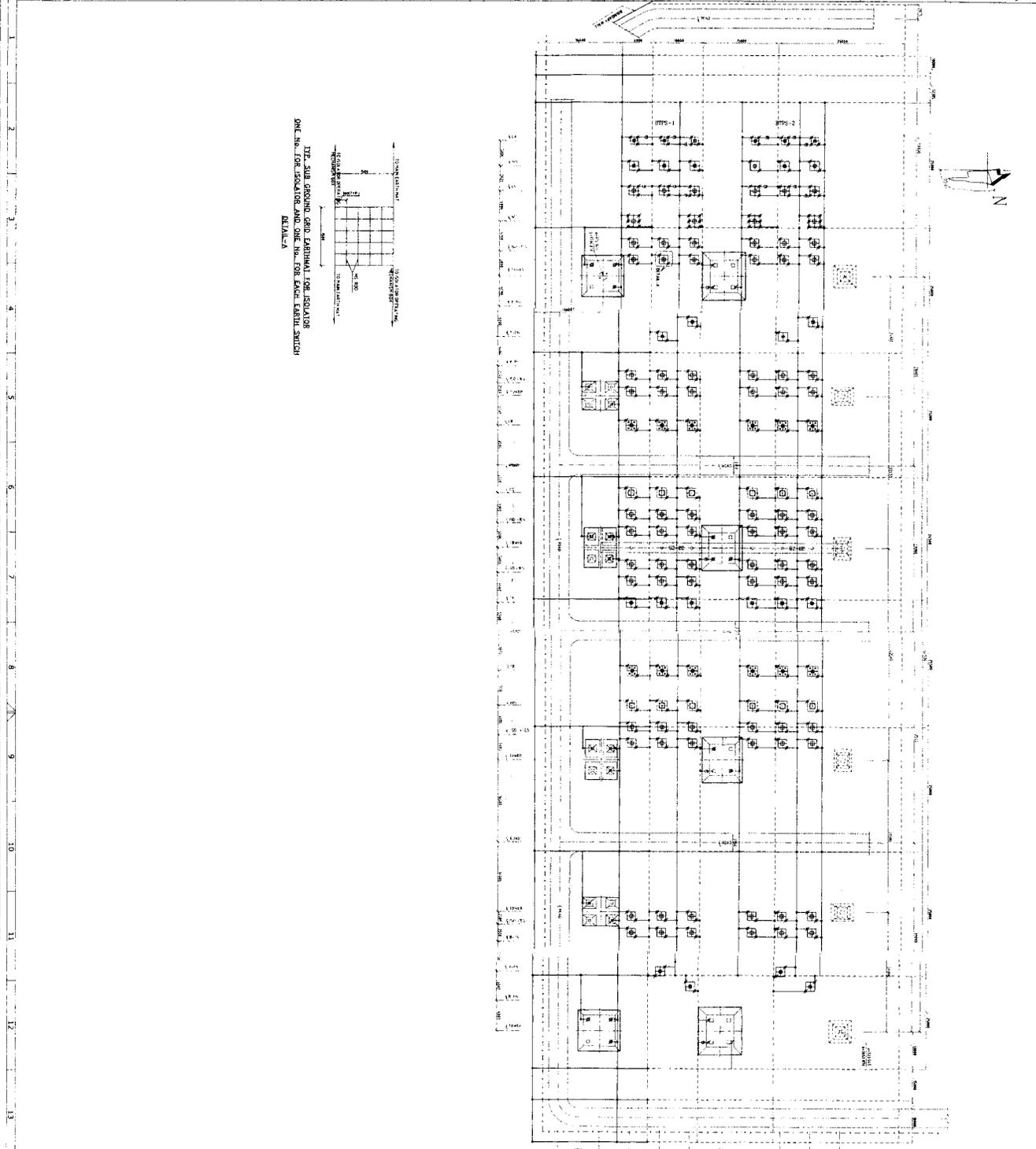
DRG. NO.:

REV.

C/ENGG/MADHUGIRI-EXTN./400KV/GA/001

0





**BOO OF GRID FOR PRESENT SCHEMATIC**

SYMBOL	DESCRIPTION	UNIT	QUANTITY
1	...	...	...
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**NOTES**

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. THE GRID IS TO BE CONSTRUCTED AS PER THE ATTACHED DRAWINGS AND SPECIFICATIONS.
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**CLIENT:** BLUE STAR LIGHT

**CONSULTANCY SERVICES TO:** KANAKAKA POWER TRANSMISSION CORPORATION LTD

**PROJECT:** POWER GRID CORPORATION OF INDIA LIMITED

**LOCATION:** KANAKAKA

**DATE:** 15/08/2015

**SCALE:** 1:100

**PROJECT NO.:** 0202-3006

**REVISION:** 1

**BY:** [Signature]

**CHECKED BY:** [Signature]

**APPROVED BY:** [Signature]









**संदर्भ/Ref :** CC-ENGG-TR201810-1000808-SS1228-kV-SAS-DRG-ARCHI

**DATE :** 17/07/2020

<b>FROM:</b>	P K Das Senior GM	<b>TO:</b>	M/s ABB India Limited ABB India Limited, Plot No.-5&6 Peenya Industrial Area, Phase-II Bengaluru-560058, Karnataka, India
		<b>CC:</b>	

<b>Subject :</b>	Substation Package SS22 for (i) Hosur S/S Extn. (ii)400kV Madhugiri S/S Extn. (iii) 400kV Dharmapuri S/S Extn. (iv) 400kV Hiriyur S/S Extn. (v) 400kV Pugalur S/S (AIS) Extn. (vi) 400kV Pugalur HVDC(GIS) S/S Extn (vii) 400/220kV Gazuwaka S/S Extn. (viii) 1x500MVA, 400/220kV ICT at Gazuwaka under SRSS-XXV and (i) 220kV Cochin S/S Extn (ii) 400kV Kozhikode S/S Extn under SRSS-XXVI
<b>LOA Ref :</b>	CC-CS/903-SR2/SS-3951/3/G7/NOA-I/8862 &NOA-II/8863 Dated 25/07/2019

Please find enclosed following drawings/ documents for necessary action at your end.	
<b>Vendor Drg. No.</b>	: 1
<b>Orgn. Drg. No.</b>	: TR201810-1000808-SS1228-kV-SAS-DRG-ARCHI
<b>Revision No.</b>	: 00
<b>Drg. Title</b>	: MADHUGIRI S/S- kV SAS - DRGS-ARCHITECTURAL
<b>App. Category</b>	: CAT-I
<b>Release Date</b>	: 17/07/2020
<b>Comments :</b>	Please Incorporate minor comments marked on the drawing during As built drg submission

<b>अनुमोदित श्रेणी/App. Category:</b>	
I.	फैब्रिकेशन/निर्माण/टाइप रीरिजिंग हेतु जारी। <b>Approved/released for fabrication/construction.</b>
II.	फैब्रिकेशन/निर्माण/टाइप रीरिजिंग हेतु अनुमोदित/जारी बशर्तें दिए गए टिप्पणियों एवं आशोधनों की सम्मिलित किश्या जाये। कृपया रिवाइज्ड दस्तावेज अनुमोदनार्थ प्रस्तुत करें। <b>Approved/released for fabrication/ construction subject to incorporation of comments and modification as noted. Revised drawing required for approval.</b>
III.	टिप्पणियों सम्मिलित करने के उपरान्त दस्तावेज को अनुमोदनार्थ प्रस्तुत करें। <b>To be resubmitted for approval after incorporating the comments.</b>
IV.	सूचनाार्थ एवं रिकार्ड हेतु। <b>For information and record.</b>
REL-CON	निर्माण हेतु जारी। <b>Released for construction.</b>
<b>नोट/Note:</b>	
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.

