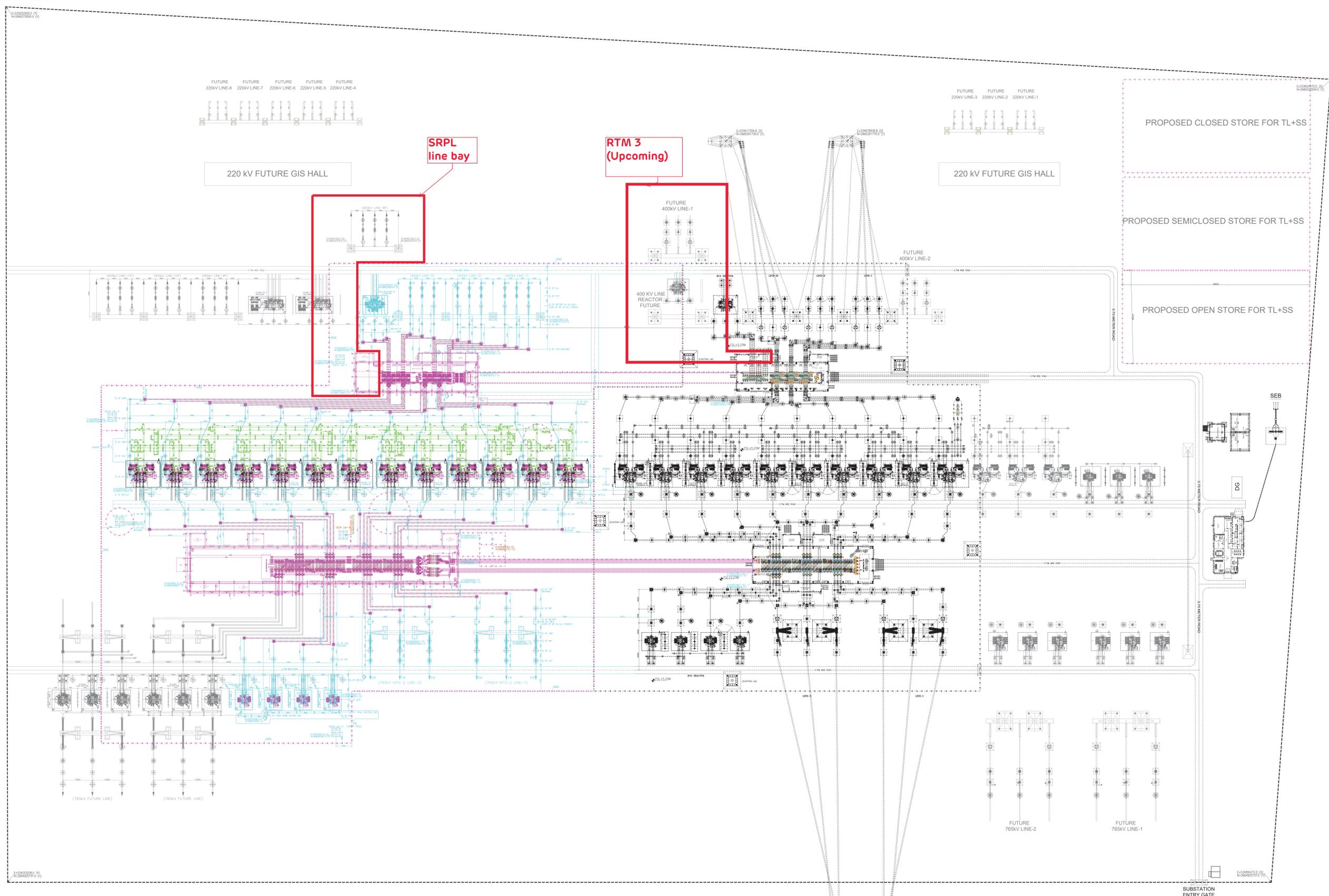


<b>CLIENT:</b> KPS-2 TRANSMISSION LIMITED	
<b>CONSULTANT:</b> POWER GRID CORPORATION OF INDIA LTD.	
<b>LEAD PARTNER OF JV:</b> KEC INTERNATIONAL LIMITED	
<b>OTHER PARTNER OF JV:</b> HYOSUNG T & D PVT. LTD.	
<b>CONTRACT NO.:</b> CCTM-GIS/DOM/A02/23/1156/NOA-124-10855601 & 02	<b>NOA-I - SUPPLY:</b> CCTM-GIS/DOM/A02/23/1156/NOA-124-10855601
<b>NOA-II - SERVICE:</b> CCTM-GIS/DOM/A02/23/1156/NOA-2/24-10855602	<b>SPEC. NO.:</b> TBCB/76KV/GIS/KPSZSS01G7
<b>PROJECT:</b> ALIGNMENT OF TRANSMISSION CAPACITY AT KPS2 (GIS) WITH 4X150MMVA CT (IN SECTION I & II) ASSOCIATED WITH 7-TRANSMISSION SYSTEM FOR EVACUATION OF POWER FROM POTENTIAL RENEWABLE ENERGY ZONE IN KHAUDA AREA OF GUJARAT UNDER PHASE-IV (76KV) PART E7 THROUGH TBCB ROUTE	
<b>SUBSTATION:</b> 76S/400/220KV EXTN. OF KPS-2 GIS SUBSTATION	
<b>TITLE:</b> 76S/400/220KV OVERALL SINGLE LINE DIAGRAM	
<b>DIVISION:</b> ELECTRICAL SUBSTATION	<b>DATE/CURRENT ISSUE:</b> 02.09.24
<b>DWG. NO.:</b> KEC-SB503-KPS-2-391-ESE-301-001	<b>SCALE:</b> NTS
<b>SHEET NO.:</b> 02 OF 02	<b>REV.:</b> R0

<b>REV. DATE</b>	<b>DESCRIPTION</b>
R0 02.09.24	FIRST SUBMISSION
RS	DRN/CHD/APP
SB	
MM	

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CLIENT: KPS1 TRANSMISSION LIMITED  
ADANI CORPORATE HOUSE SHANTIGRAM, SG HIGHWAY,  
AHMEDABAD, GUJARAT (INDIA)

EPC CONTRACTOR: GE T&D INDIA LTD.  
AXIS HOUSE, PLOT NO 1-14, SECTOR-128,  
TOWERS 5&6 JAYPREE WISH TOWN,  
INDIA, UTTAR PRADESH (INDIA)

PROJECT: AUGMENTATION OF KHAVDA PS1 BY 765/400kV TRANSFORMATION CAPACITY  
(MAX. UPTO 4x1500 MVA) WITH 1x330 MVAR, 765kV BUS REACTOR AND  
1x125 MVAR, 420kV BUS REACTOR ON 2ND 765kV AND 400kV BUS SECTION RESPECTIVELY

LDA NO.: LDA/KPS-1/EPC/BA/02/23 DATE : 02.12.2023

SUBSTATION: 765/400kV KPS1 SUBSTATION GIS EXTENSION

TITLE: KPS-1 EXTENSION S/S 765/400kV ELECTRICAL LAYOUT PLAN & SECTION

REVISIONS:

REV.	DATE	DESCRIPTION	BY	CHKD	APPV
R2	15.01.2024	REVISED AS PER CUSTOMER COMMENTS DATED: 15.01.2024	SV	ABH	NMJ DMH
R1	11.01.24	REVISED AS PER CUSTOMER COMMENTS	SV	ABH	NMJ DMH
R0	30.12.23	FIRST ISSUE	SV	ABH	NMJ DMH

APPROVED: [Signature]

DATE: 30.12.23

GE DRAWING No. 5427XXXX-KHA-765-SYD-GSI-S2020-GA-0001

TOTAL SHEETS: 003

SHEET NO: 001

REV: R2

077804-KMD-SYD-E-06-42-001  
5427XXXX-KHA-765-SYD-GSI-S2020-SL-0001

ELECTRICAL LAYOUT PLAN & SECTION FOR 765/400kV KPS1 SUBSTATION GIS EXTN.  
SWITCHYARD SINGLE LINE DIAGRAM FOR 765/400kV KPS1 SUBSTATION GIS EXTENSION

REFERENCE DRAWING/DOCUMENT NUMBER	DRAWING/DOCUMENT DESCRIPTION
5	
6	
7	
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15	
16	

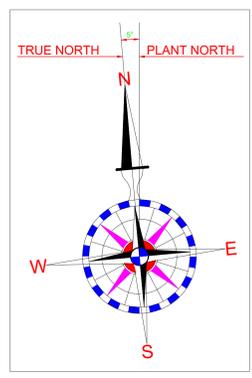
- LEGENDS
- PRESENT SCOPE
  - EXISTING
  - FUTURE
  - SF6 TO AIR BUSHING
  - SF6 GAS BUS DUCT

REV.	DATE	DESCRIPTION	BY	CHKD	APPV	STATUS
R2	15.01.2024	REVISED AS PER CUSTOMER COMMENTS DATED: 15.01.2024	SV	ABH	NMJ DMH	FOR APPROV
R1	11.01.24	REVISED AS PER CUSTOMER COMMENTS	SV	ABH	NMJ DMH	FOR APPROV
R0	30.12.23	FIRST ISSUE	SV	ABH	NMJ DMH	FOR APPROV

DATE	DRAWN	ELE	CIVIL	MECH	APPROVED	STATUS
30.12.23	SV	ABH	NMJ	DMH	[Signature]	FOR APPROV

765/400/220KV KPS-2 SUBSTATION

1050 M



400 M

650 M

BOUNDARY LINE

560 M

SPACE FOR HVDC AREA

W 766 M

765 KV PRESENT AND FUTURE AREA

AREA TO BE LEVELLED

140 M

SPACE FOR HVDC

240 M

540 M

511 M

**LEGEND:**  
 PRESENT SCOPE OF WORK  
 FUTURE / NOT IN SCOPE OF WORK  
 BOUNDARY LINE

REFERENCE COORDINATES TABLE (IN METER):-

PLOT POINTS	GPS COORDINATE-N	GPS COORDINATE-E	PLANT COORDINATE-Y	PLANT COORDINATE-X
D	N=2662660.000	E=552621.100	Y=0.982	X=-1050.547
C	N=2662746.020	E=553668.120	Y = 0.0	X = 0.0
B	N=2663542.950	E=553601.030	Y = 799.749	X = -0.863
A	N=2663456.020	E=552554.920	Y = 799.748	X = -1050.579
765KV TOWER	N=2662931.011	E=553157.671	Y = 225.235	X = -493.366
765KV BUS REACTOR-1	N=2662976.212	E=553219.711	Y = 265.257	X = -427.866
765KV BUS REACTOR-2	N=2663038.008	E=553214.685	Y = 327.257	X = -427.866
765KV GIS BUILDING	N=2662945.213	E=553269.704	Y = 230.308	X = -380.551
765KV ICT-4	N=2662926.216	E=553334.707	Y = 206.103	X = -317.301
765KV ICT-7	N=2663105.622	E=553320.115	Y = 386.103	X = -317.301
FFPH BUILDING	N=2662864.713	E=553304.501	Y = 147.252	X = -352.394
CONTROL BUILDING	N=2662846.529	E=553331.396	Y = 126.947	X = -326.062

- NOTES:-**
- ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE SPECIFIED.
  - LOCATION OF LINE EQUIPMENTS (WAVE TRAP, LA & CVT) ARE HOLD & IT WILL CONFIRMED AFTER GETTING THE LOCATION OF DEAD END TOWER FROM PGCIL.
  - AS SUGGESTED BY PGCIL DEAD-END TOWER HAS SHOWN AT 150M DISTANCE FROM SUBSTATION TAKE-OFF GANTRY AND SHFT WT TO ALIGN WITH TRANSMISSION LINE. KEC IN CONSULTATION WITH PGCIL. LOCATION OF DEAD-END TOWER AND LINE SIDE EQUIPMENT TO BE RE-VERIFIED BEFORE CASTING AT SITE.
  - AS CONFIRMED BY PGCIL, 2nd LT TRANSFORMER (800KVA 330/43KV) SHALL BE FED FROM TERTIARY DELTA BUS IN PLACE OF DISCOM POWER SUPPLY.
  - AREA POINT A'-B'-C'-D'-E'-F'-G'-H'-I'-J' TO BE CONSIDERED FOR SITE LEVELLING.
  - CENTER LINE OF DEAD END TOWER TO BE MATCHED AS SHOWN IN DRAWING & 765KV LINE SIDE EQUIPMENT ARE FINALIZED ACCORDINGLY. IF THERE IS CHANGE IN LOCATION OF DEAD END TOWER PGCIL SITE HAS TO INTIMATE AT THIS STAGE.
  - 110MVAR BUS REACTOR GA SHALL BE UPDATED AFTER RECEIVING PROJECT SPECIFIC DRAWING FROM PGCIL.
  - SUPPLY, ERECTION, TESTING & COMMISSIONING OF 110 MVAR, 765/3 KV, SINGLE PHASE BUS REACTORS ARE NOT IN SCOPE OF KEC.
  - SUPPLY, ERECTION, TESTING & COMMISSIONING OF 500MVA, (765/3)(400/3)33KV, SINGLE PHASE AUTO TRANSFORMERS ARE NOT IN SCOPE OF KEC.
  - 765KV FUTURE SCOPE, 400KV SCOPE AND 220KV SCOPE SHOWN IN THIS DRAWING IS INDICATIVE.
  - APPROACH ROAD LOCATION SHALL BE FINALISED AFTER GETTING CONFIRMATION FROM PGCIL SITE.
  - 400KV LAYOUT (BHEL PORTION) HAS BEEN MODIFIED BASED ON OGA RECEIVED THROUGH MAIL DATED: 16.06.2023.

- REVISION NOTES:-**
- ADDITIONAL BEND IN GIB FOR ICT-4 HAS BEEN DELETED.
  - 765KV BPI IN 'R' PHASE (NEXT TO GIS BUSHING) OF ICT - 7 HAS BEEN DELETED.

WIND TOWER TO ROAD CENTER 339 MTR AND SUBSTATION BOUNDARY TO 80 MTR  
 WIND TOWER CO-ORDINATE  
 E 553559.758, N 2663077.60

**CLIENT:**  
KPS-2 TRANSMISSION LIMITED

**CONSULTANT:**  
POWER GRID CORPORATION OF INDIA LTD.

**LEAD PARTNER OF JV:**  
KEC INTERNATIONAL LIMITED

**OTHER PARTNER OF JV:**  
HYOSUNG T & D PVT.LTD.

**CONTRACT NO.:**  
CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/01

**NOA-I : SUPPLY:**  
CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/01

**NOA-II : SERVICE:**  
CC/TW-GIS/DOM/A06/23/01068/NOA-1/23-100321/02

**SPEC. NO :**  
TBCB/765KV/GIS/KPS2/SS01/G7

**PROJECT:**  
765kv GIS Substation Package SS01 for a) 765kv KPS-2 new GIS S/s and b) LLO of one ckt. of KPS1-Bhuj PS 765kv D/C line at KPS2 (1Km) associated with establishment of Khadva Pooling Station-2 (KPS2) in Khadva RE Park through TBCB route.

**SUBSTATION:**  
765/400/220KV KPS-2 GIS SUBSTATION

**TITLE:**  
OVERALL GENERAL ARRANGEMENT LAYOUT

**DIVISION:** ELECTRICAL SUBSTATION **DATE:** (CURRENT ISSUE) 17.07.23

**DWG. NO.:** KEC-SA323-KPS2-ESE-305-100 **SCALE:** 1:1200

**SHEET NO.:** 01 OF 01 **REV.:** R3

REV	DATE	DESCRIPTION	DRN	CHD	APP
R3	17.07.23	CC-ENGG-TB202308-1001951-SS3390-OGA, DATE : 12/07/2023	RM	SB	SB
R2	28.06.23	REVISED AS PER PGCIL LETTER REF: CC-ENGG-TB202308-1001951-SS3390-OGA Date : 08/06/2023	RM	SB	SB
R1	29.05.23	REVISED AS PER PGCIL LETTER REF: CC-ENGG-TB202308-1001951-SS3390-OGA, DATED: 28-04-2023	PK	SB	SB
R0	25.04.23	FIRST SUBMISSION	PK	SB	SB

FILE PATH: Design Common Drive (M:\mampad\U\_D04\_Other\KEC STD SHEET\FINAL\HORIZONTAL SHEET\KEC-STD-SHEET-A0(L SHAPE) R0