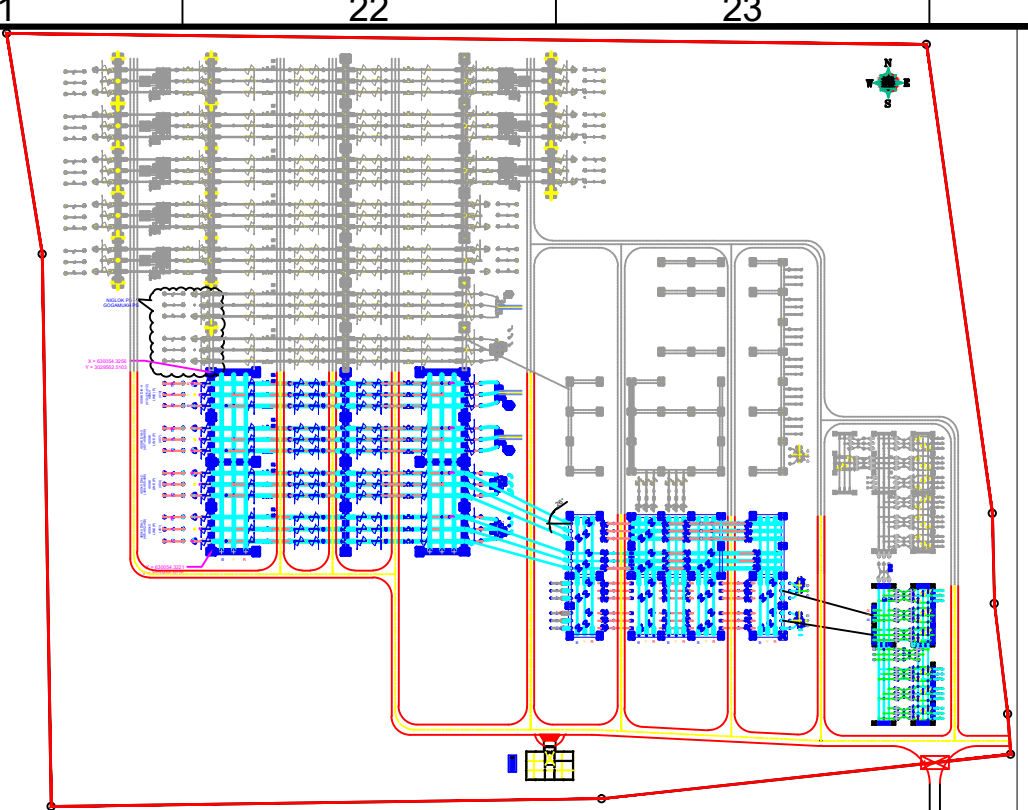
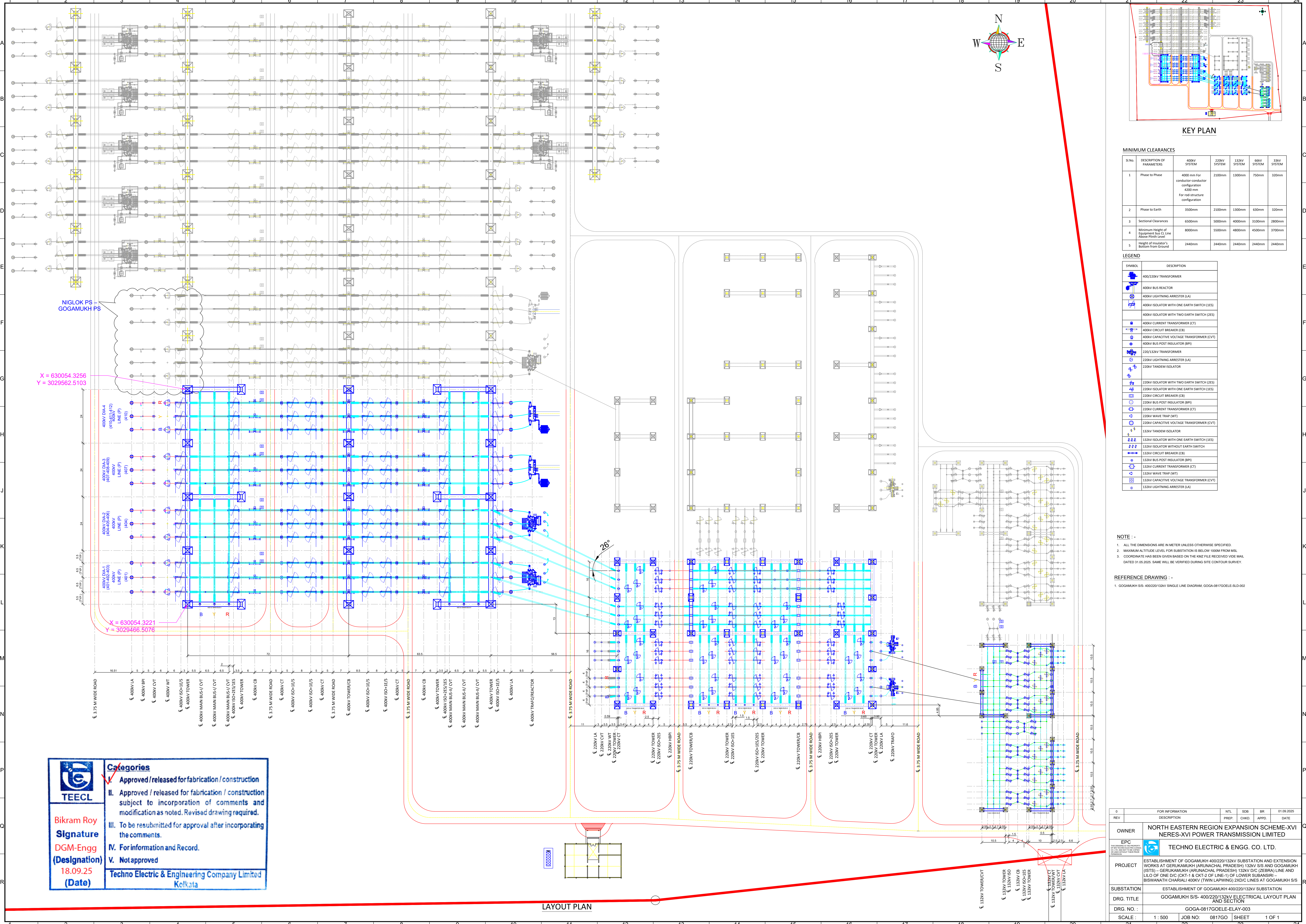




KEY PLAN

MINIMUM CLEARANCES

Sl.No.	DESCRIPTION OF PARAMETERS	400KV SYSTEM	220KV SYSTEM	132KV SYSTEM	66KV SYSTEM	33KV SYSTEM
1	Phase to Phase	4000 mm For conductor-conductor configuration 4200 mm For rod-structure configuration	2100mm	1300mm	750mm	320mm
2	Phase to Earth	3500mm	2100mm	1300mm	630mm	320mm
3	Sectional Clearances	6500mm	5000mm	4000mm	3100mm	2800mm
4	Minimum Height of Equipment bus LL Line Above Plinth Level	8000mm	5500mm	4800mm	4500mm	3700mm
5	Height of insulator's Bottom from Ground	2440mm	2440mm	2440mm	2440mm	2440mm

LEGEND

SYMBOL	DESCRIPTION
	400/220KV TRANSFORMER
	400KV BUS REACTOR
	400KV LIGHTNING ARRESTER (LA)
	400KV ISOLATOR WITH ONE EARTH SWITCH (IES)
	400KV ISOLATOR WITH TWO EARTH SWITCH (TES)
	400KV CURRENT TRANSFORMER (CT)
	400KV CIRCUIT BREAKER (CB)
	400KV CAPACITIVE VOLTAGE TRANSFORMER (CVT)
	400KV BUS POST INSULATOR (BPI)
	220/132KV TRANSFORMER
	220KV LIGHTNING ARRESTER (LA)
	220KV TANDEM ISOLATOR
	220KV ISOLATOR WITH TWO EARTH SWITCH (TES)
	220KV ISOLATOR WITH ONE EARTH SWITCH (IES)
	220KV CIRCUIT BREAKER (CB)
	220KV BUS POST INSULATOR (BPI)
	220KV CURRENT TRANSFORMER (CT)
	220KV WAVE TRAP (WT)
	220KV CAPACITIVE VOLTAGE TRANSFORMER (CVT)
	132KV TANDEM ISOLATOR
	132KV ISOLATOR WITH ONE EARTH SWITCH (IES)
	132KV CIRCUIT BREAKER (CB)
	132KV BUS POST INSULATOR (BPI)
	132KV CURRENT TRANSFORMER (CT)
	132KV WAVE TRAP (WT)
	132KV CAPACITIVE VOLTAGE TRANSFORMER (CVT)
	132KV LIGHTNING ARRESTER (LA)

NOTE :-

- ALL THE DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED.
- MAXIMUM ALTITUDE LEVEL FOR SUBSTATION IS BELOW 100M FROM MSL.
- COORDINATE HAS BEEN GIVEN BASED ON THE RMZ FILE RECEIVED VIDE MAIL DATED 31.05.2025. SAME WILL BE VERIFIED DURING SITE CONTOUR SURVEY.

REFERENCE DRAWING :-

- GOGAMUKH S/S- 400/220/132KV SINGLE LINE DIAGRAM. GOGA-0817GOELE-SLD-002

Categories

- ☒ Approved / released for fabrication / construction
- ☐ II. Approved / released for fabrication / construction subject to incorporation of comments and modification as noted. Revised drawing required.
- ☐ III. To be resubmitted for approval after incorporating the comments.
- ☐ IV. For information and Record.
- ☐ V. Not approved

Techno Electric & Engineering Company Limited
Kolkata

Bikram Roy
Signature
DGM-Engg
(Designation)
18.09.25
(Date)

REV	FOR INFORMATION DESCRIPTION	NTL PREP	SOB CHKD	BR APPD	DATE
0					01.09.2025
OWNER		NORTH EASTERN REGION EXPANSION SCHEME-XVI NERES-XVI POWER TRANSMISSION LIMITED			
EPC		TECHNO ELECTRIC & ENGG. CO. LTD.			
PROJECT		ESTABLISHMENT OF GOGAMUKH 400/220/132KV SUBSTATION AND EXTENSION WORKS AT GERUKAMUKH (ARUNACHAL PRADESH) 132KV SIS AND GOGAMUKH (ISTS) - GERUKAMUKH (ARUNACHAL PRADESH) 132KV D/C (ZEBRA) LINE AND LILO OF ONE D/C (OKT-1 & OKT-2 OF LINE-1) OF LOWER SUBANSIRI-BISWANATH CHARALI-400KV (TWIN LAPWING) 2XDC LINES AT GOGAMUKH S/S			
SUBSTATION		ESTABLISHMENT OF GOGAMUKH 400/220/132KV SUBSTATION			
DRG. TITLE		GOGAMUKH S/S- 400/220/132KV ELECTRICAL LAYOUT PLAN AND SECTION			
DRG. NO. :		GOGA-0817GOELE-ELAY-003			
SCALE :		1 : 500	JOB NO. : 0817GO	SHEET : 1 OF 1	