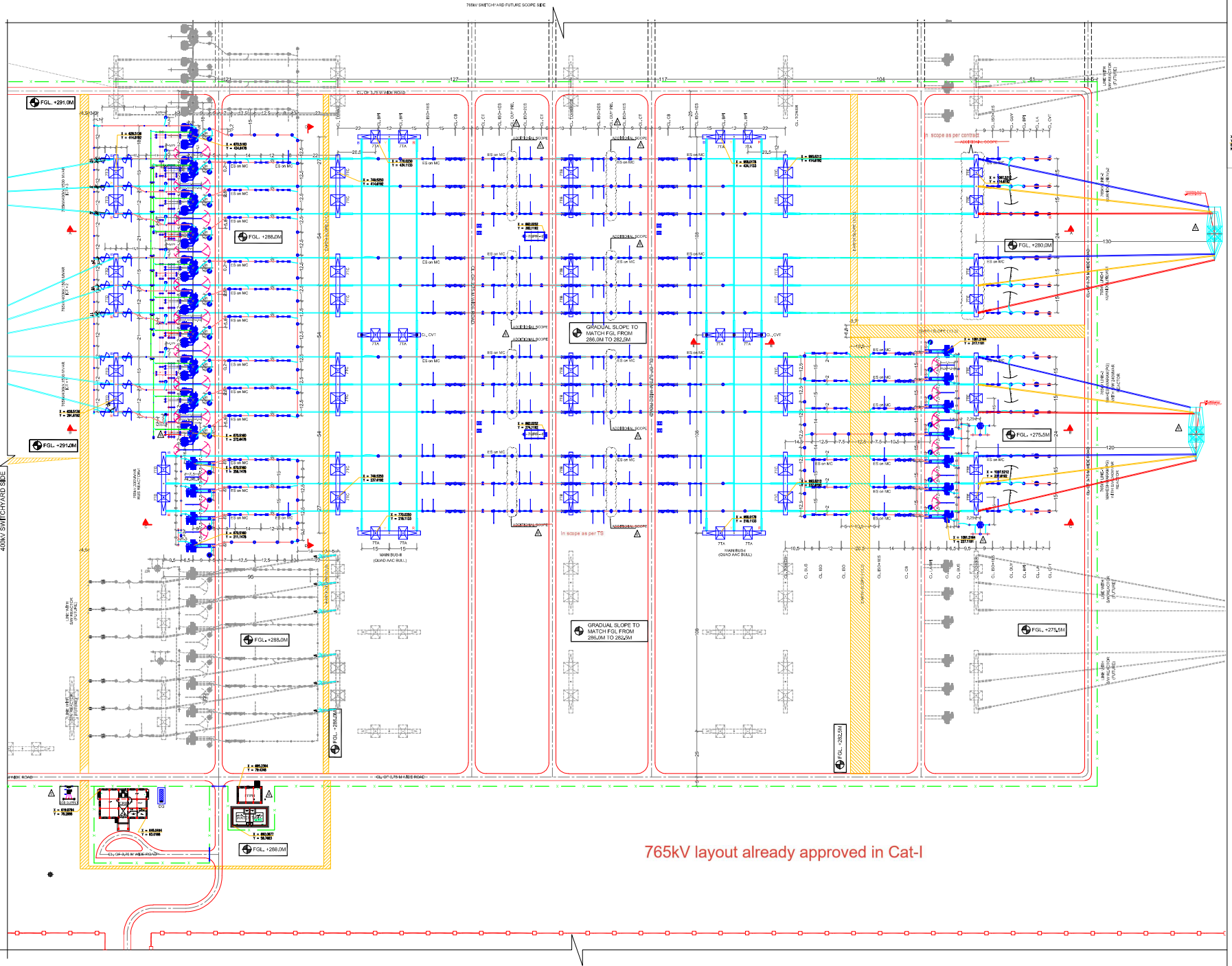
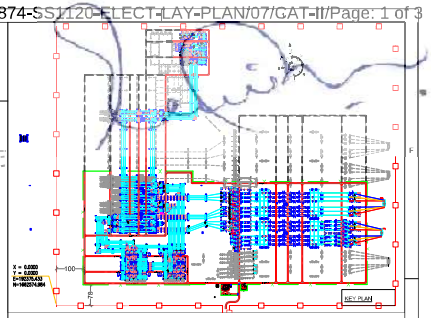




BILL OF QTY. FOR 765KV MAIN EQUIPMENTS:

SL.NO.	DESCRIPTION	UNIT	QUANTITY		REMARKS
			AS PER LOA	ACTUAL QTY.	
1	AUTO TRANSFORMER (1-PH) (500MVA,765/400/33kV)	NOS	–	10	OWNERS SUPPLY
2	80MVAR LINE REACTOR (1-PH) (Including Spare Reactor)	NOS	–	07	OWNERS SUPPLY
3	110 MVAR BUS REACTOR (1-PH)	NOS	–	04	OWNERS SUPPLY
4	765 KV,3150A,50 KA CIRCUIT BREAKER(3-PH) WITH CLOSING RESISTOR (With Support Structure)	EA	08	08	
5	765 KV,3150A,50 KA CIRCUIT BREAKER(3-PH) WITHOUT CLOSING RESISTOR (With Support Structure)	EA	06	04	
6	765 KV,3150 A, 50 KA 3 PH CIRCUIT BREAKER WITHOUT CLOSING RESISTOR WITH CONTROL SWITCHING SUITABLE FOR 1 PH (With Support Structure)	EA	00	02	
7	765 KV,3150A,50 KA SINGLE PHASE CIRCUIT BREAKER (WITH SUPPORT STRUCTURE)	EA	01	01	
8	CONTROL SWITCHING DEVICE FOR 3-PH CIRCUIT BREAKER	EA	10	10	
9	765 KV,3000A,50 KA, 1 PHASE CURRENT TRANSFORMER (WITH 120% EXTENDED CURRENT RATING)	EA	36	36	
10	765 KV,8000 pF CAPACITIVE VOLTAGE TRANSFORMER(1-PH)	EA	18	18	
11	765 KV,3150A,50KA, VERTICAL KNEE ISOLATOR (3-PH) WITH 1 E/S	EA	18	18	
12	765 KV,3150A,50KA, VERTICAL KNEE ISOLATOR (3-PH) WITH 2 E/S	EA	10	10	
13	765 KV,3150A,50KA, VERTICAL KNEE ISOLATOR (1-PH) WITH 1 E/S	EA	21	21	
14	765 KV,3150A,50KA, VERTICAL KNEE ISOLATOR (1-PH) WITHOUT E/S	EA	33	33	
15	624 KV SURGE ARRESTER (1-PH)	EA	33	33	
16	765 KV, BUS POST INSULATOR (EXCEPT FOR LINE TRAPS)	EA	80	57	
17	765 KV, BUS POST INSULATOR (EXCEPT FOR LINE TRAPS)	EA	--	39	PART OF ERECTION HARDWARE
18	765 KV GUY ARRANGEMENT	EA	--	36	ADDITIONAL ITEM

765kV TOWER:

SL.NO.	TOWER TYPE	ACTUAL QUANTITY (NOS.)
1	7TA	12
2	7TB	08
3	7TC	16
4	7TD	08
5	7TE	08
	TOTAL	52

CONDUCTOR DETAILS OF 765 kV SIDE:	
a) MAIN BUS	QUAD BULL AAC AT 27 kA
b) JACK BUS	QUAD BULL AAC AT 40 kA
c) BAY EQPT BUS	4.5" IPS AL TUBE AT 14 kA QUAD BULL AAC
d) DROPPER / JUMPER	QUAD BULL AAC
NO.OF STRINGS/PHASE=	
a) FOR TENSION	2
b) FOR SUSPENSION	1
SUB CONDUCTOR SPACING=	450 mm
EARTH WIRE.	16.88 MM DIA GI WIRE

SWITCHYARD PANEL ROOM & BAY MARSHALLING KIOSK:

SL. NO.	DESCRIPTION	ACTUAL QTY
1	SWITCHYARD PANEL ROOM (SPR)= 765KV (9M X 4.2M)	02
2	BAY MARSHALLING KIOSK (BMK)= 765kV	06

GENERAL NOTE:

1. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. SUPPLY, ERECTION, TESTING & COMMISSIONING OF 500 MVA, (765/132/400/33)kV, SINGLE PHASE AUTO TRANSFORMERS ARE NOT IN UNDER SCOPE OF WORK.
3. SUPPLY, ERECTION, TESTING & COMMISSIONING OF 110 MVAR & 80 MVAR, 765/13 kV, SINGLE PHASE LINE AND BUS REACTOR AND ASSOCIATED NGR & 132kV LA ARE NOT IN UNDER SCOPE OF WORK.
4. DETAILED DRAWINGS FOR CRB, AC KIOSK, FPPH, WATER TANK, ETC SHALL BE AS PER PGCIL RELEASED FOR CONSTRUCTION DRAWING.
5. ACTUAL LOCATION OF BAY & SPR TO BE SHOWN IN TRENCH LAYOUT.
6. 72.5 kV & 33kV LAYOUT AND BOQ TO BE SUBMITTED ON LATER STAGE.
7. BOUNDARY CORNER 9A WITH COORDINATE "E=1192375.433 N=1662574.264" HAS BEEN TREATED AS "0,0,0" AS PER PGCIL SURVEY PLAN DRAWING (DWG NO.=6001/0023).

LEGEND:

- PRESENT SCOPE
- NOT IN SCOPE OR FUTURE SCOPE
- FENCE
- BOUNDARY WALL
- LEVEL LINE / SLOPE

△ REVISED AS PER MAIL DATED 25.04.24 AND DISCUSSION HELD ON 19.05.24, 10.05.24 & 14.05.24.

REV	DESCRIPTION	PREP.	CHKD.	APPD.	DATE
7	EIGHTH SUBMISSION	AM	AM	BS	14.03.24
6	SEVENTH SUBMISSION	AM	AM	BS	14.03.24
5	SIXTH SUBMISSION	AM	AM	BS	22.12.23
4	FIFTH SUBMISSION	AM	AM	BS	23.11.23
3	FOURTH SUBMISSION	AM	AM	BS	31.10.23
2	THIRD SUBMISSION	AM	AM	BS	26.08.23
1	SECOND SUBMISSION	AM	AM	BS	13.08.23
0	FIRST SUBMISSION	PV	AM	BS	29.06.23

SIGN.

CUSTOMER	POWER GRID CORPORATION OF INDIA LTD.
	TECHNO ELECTRIC & ENGG. CO. LTD.
NOA NO.	SUPPLY: CC/NT/W-AIS/DOM/A00/23/00332/NOA-1/23-103051/01,DATE:19.06.2023
	ERECTION: CC/NT/W-AIS/DOM/A00/23/00332/NOA-2/23-103051/02,DATE:19.06.2023
PROJECT	SUBSTATION PACKAGE-SS1120: 765/400/220KV KURNOOL-III UNDER TRANSMISSION SCHEME FOR EVACUATION OF POWER FROM RE SOURCES IN KURNOOL WIND ENERGY ZONE (3000MW) / SOLAR ENERGY ZONE (1500 MW) PART A AND PART B.
SUBSTATION	765/400/220 KV KURNOOL-III (NEW) PS
DRG. TITLE	Kurnool-III S/S (NEW)-765/400/220kV ELECTRICAL LAYOUT PLAN
DRG. NO. :	TR201906-1001874-SS1120-ELECT-LAY-PLAN
SCALE :	NTS / JOB NO: 0791MO / SHEET 1 OF 3

Deferred

220KV BUS SECTION - 3

220KV BUS SECTION - 2

220KV BUS SECTION - 1

FGL +299.5M

FGL +300.0M

FGL +297.0M

FGL +291.0M

GRADUAL SLOPE TO MATCH FGL TO 291.2M

GRADUAL SLOPE TO MATCH FGL FROM 292.0M TO 293.0M

GRADUAL SLOPE TO MATCH FGL FROM 291.2M TO 292.0M

400KV & 220KV SWITCHYARD

(1.0) There is no hold in 765kV, 400kV & 220kV areas and all these areas are cleared for construction except the area marked as 'Deferred'

(2.0) The drawing approved in Cat II as line side equipment area layout for 220kV line bays could not be finalized in absence of co-ordinates of Transmission line dead end tower for 220kV lines.

BILL OF QTY. FOR 400kV MAIN EQUIPMENTS:

SL.NO.	DESCRIPTION	UNIT	QUANTITY				REMARKS
			AS PER SPEC.	AS PER DRAWING	PRECEDING	CUMULATIVE	
1	400 KV CVT WITH LA & CONNECTOR (CONNECTED TO BUS)	EA	03	06	03		
2	400 KV CVT WITH LA & CONNECTOR (CONNECTED TO LINE)	EA	04	04	03		
3	400 KV CVT WITH LA & CONNECTOR (CONNECTED TO TRANSFORMER)	EA	10	10	10		
4	400 KV PILOT WITH LA & CONNECTOR (CONNECTED TO BUS)	EA	06	06	06		
5	400 KV PILOT WITH LA & CONNECTOR (CONNECTED TO LINE)	EA	02	06	07		
6	400 KV PILOT WITH LA & CONNECTOR (CONNECTED TO TRANSFORMER)	EA	06	06	06		
7	400 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO BUS)	EA	47	57	43		
8	400 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO LINE)	EA	02	02	02		
9	400 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO TRANSFORMER)	EA	16	16	16		
10	400 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO BUS COUPLER)	EA	08	08	08		
11	765 KV SURGE ARRESTER (WITH COUNTER)	EA	41	13	10	NOW HERE	
12	765 KV SURGE ARRESTER (WITHOUT COUNTER)	EA		30	35	NO HERE	
13	400 KV BUS POST INSULATOR (CONNECTED TO BUS)	EA	156	20	28		
14	400 KV BUS POST INSULATOR (CONNECTED TO LINE)	EA		163	171		
15	400 KV BUS POST INSULATOR (CONNECTED TO TRANSFORMER)	EA		48	52		PART OF PRESENT CONTRACT
16	400 KV BUS POST INSULATOR (CONNECTED TO BUS COUPLER)	EA		16	16		PART OF PRESENT CONTRACT

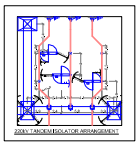
BILL OF QTY. FOR 220kV MAIN EQUIPMENTS:

SL.NO.	DESCRIPTION	UNIT	QUANTITY				REMARKS
			AS PER SPEC.	AS PER DRAWING	PRECEDING	CUMULATIVE	
1	220 KV CVT WITH LA & CONNECTOR (CONNECTED TO BUS)	NOS.	24	24	07		
2	220 KV CVT WITH LA & CONNECTOR (CONNECTED TO LINE)	EA	27	27	24		
3	220 KV CVT WITH LA & CONNECTOR (CONNECTED TO TRANSFORMER)	EA	17	17	17		
4	220 KV PILOT WITH LA & CONNECTOR (CONNECTED TO BUS)	EA	21	21	12		
5	220 KV PILOT WITH LA & CONNECTOR (CONNECTED TO LINE)	EA	41	45	37		
6	220 KV PILOT WITH LA & CONNECTOR (CONNECTED TO TRANSFORMER)	EA	03	03	03		
7	220 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO BUS)	EA	38	38	34		
8	220 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO LINE)	EA	23	27	19		
9	220 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO TRANSFORMER)	EA	27	27	24		
10	220 KV STRAIN BUS STUB WITH CONNECTOR (CONNECTED TO BUS COUPLER)	EA	41	40	35		
11	220 KV SURGE ARRESTER (WITH COUNTER)	EA	72	72	51		
12	220 KV SURGE ARRESTER (WITHOUT COUNTER)	EA	40	40	51		
13	220 KV BUS POST INSULATOR (CONNECTED TO BUS)	EA	212	219	208		
14	220 KV BUS POST INSULATOR (CONNECTED TO LINE)	EA	38	38	45		
15	220 KV BUS POST INSULATOR (CONNECTED TO TRANSFORMER)	EA	48	48	45		

DESCRIPTION OF 220 KV BUSBAR SYSTEM	
BUSBAR SYSTEM	DOUBLE BUS WITH TIE BAY
MAIN BUS	QUAD BYPASS ACSR 30" SQ.CM.
MAIN BUS SUPPORT	QUAD TUBE ACSR 30"
COUPLER / ALARM	QUAD / TWIN BYPASS ACSR
COUPLER SUPPORT	QUAD TUBE ACSR
MAIN CONDUCTOR	2
SUPPORT INSULATOR	2
BUS SUPPORT STRUCTURE	ACSR
EARTHING	DUAL MAIN GRIDS

DESCRIPTION OF 400 KV BUSBAR SYSTEM	
BUSBAR SYSTEM	DOUBLE BUS WITH TIE BAY
MAIN BUS	QUAD BYPASS ACSR 31.5 SQ.CM.
MAIN BUS SUPPORT	QUAD TUBE ACSR 31.5 SQ.CM.
COUPLER / ALARM	QUAD / TWIN BYPASS ACSR
COUPLER SUPPORT	QUAD TUBE ACSR
MAIN CONDUCTOR	2
SUPPORT INSULATOR	2
BUS SUPPORT STRUCTURE	ACSR
EARTHING	DUAL MAIN GRIDS

SL.NO.	DESCRIPTION	ACSR 31.5 SQ.CM.	ACSR 30 SQ.CM.
1	400 KV MAIN BUS (ACSR 31.5 SQ.CM.)	04	04
2	400 KV MAIN BUS (ACSR 30 SQ.CM.)	04	04
3	400 KV MAIN BUS (ACSR 31.5 SQ.CM.)	02	02
4	400 KV MAIN BUS (ACSR 30 SQ.CM.)	02	02



GENERAL NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT DRAWINGS.
3. ALL EQUIPMENT SHALL BE SUITABLE FOR 50 Hz, 3 PHASE, 400kV SYSTEM EXCEPT WHERE OTHERWISE SPECIFIED.
4. ALL EQUIPMENT SHALL BE SUITABLE FOR TROPICAL CONDITIONS.
5. ALL EQUIPMENT SHALL BE SUITABLE FOR SEISMIC ZONE-IV.
6. ALL EQUIPMENT SHALL BE SUITABLE FOR POLLUTION LEVEL-I.
7. ALL EQUIPMENT SHALL BE SUITABLE FOR ALTITUDE UP TO 1000 M.
8. ALL EQUIPMENT SHALL BE SUITABLE FOR 100% RELATIVE HUMIDITY.
9. ALL EQUIPMENT SHALL BE SUITABLE FOR 24 HOURS CONTINUOUS OPERATION.
10. ALL EQUIPMENT SHALL BE SUITABLE FOR 10% VOLTAGE VARIATION.
11. ALL EQUIPMENT SHALL BE SUITABLE FOR 5% FREQUENCY VARIATION.
12. ALL EQUIPMENT SHALL BE SUITABLE FOR 2% HARMONICS.
13. ALL EQUIPMENT SHALL BE SUITABLE FOR 2% NEGATIVE PHASE SEQUENCE.
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100. ALL EQUIPMENT SHALL BE SUITABLE FOR 2% ZERO PHASE SEQUENCE.

LEGEND

PROPOSED SCOPE
NOT IN SCOPE OR FUTURE SCOPE
FENCE
BOUNDARY WALL
LEVEL UNCHANGED
LEVEL UNCHANGED SLOPE AS PER REQ.-UN
SLOPE LEVEL LINE / SLOPE FOR SCOPE CHANGE

(1.0) There is no hold in 765kV, 400kV & 220kV areas and all these areas are cleared for construction except the area marked as 'Deferred'

(2.0) The drawing approved in Cat II as line side equipment area layout for 220kV line bays could not be finalized in absence of co-ordinates of Transmission line dead end tower for 220kV lines.

REVISED AS PER MRL DATED 06/04/23 AND DRG.REVISION NO.(0.0) DATED: 19/04/23 & 19/04/23.

REV	DESCRIPTION	PREPD.	CHKD.	APPD.	DATE
7	EIGHTH SUBMISSION	AM	MF	BS	19/04/23
6	SEVENTH SUBMISSION	AM	MF	BS	05/04/23
5	SIXTH SUBMISSION	AM	MF	BS	31/03/23
4	FOURTH SUBMISSION	AM	MF	BS	21/12/22
3	THIRD SUBMISSION	AM	MF	BS	05/08/22
2	SECOND SUBMISSION	AM	MF	BS	12/05/22
1	FIRST SUBMISSION	PM	MF	BS	30/04/21

CUSTOMER: POWER GRID CORPORATION OF INDIA LTD.

TECHNO ELECTRIC & ENGG. CO. LTD.

NOA NO. SUPPLY: CC/NT/W-LS/DOM/A002/03032/NOA1/23-1085/01, DATE: 19.06.2023
ERECTION: CC/NT/W-LS/DOM/A002/03033/NOA1/23-1083/01 NO.DATE: 19.06.2023

PROJECT: SUBSTATION PACKAGE-SS1120 (765/400/220kV KURNOOL-III) UNDER TRANSMISSION SCHEME FOR EVACUATION OF POWER FROM RE SOURCES IN KURNOOL WIND ENERGY ZONE (3000MW) SOLAR ENERGY ZONE (1000 MW) PART A AND PART B.

SUBSTATION: 765/400/220 KV KURNOOL-III (NEW) PS

DRG. TITLE: Kurnool-III S/S (REV-7)765/400/220kV ELECTRICAL LAYOUT PLAN

DRG. NO.: TR201906-1001874-SS1120-ELECT-LAY-PLAN

SCALE: NTS | JOB NO: 07/1010 | SHEET: 2 OF 3