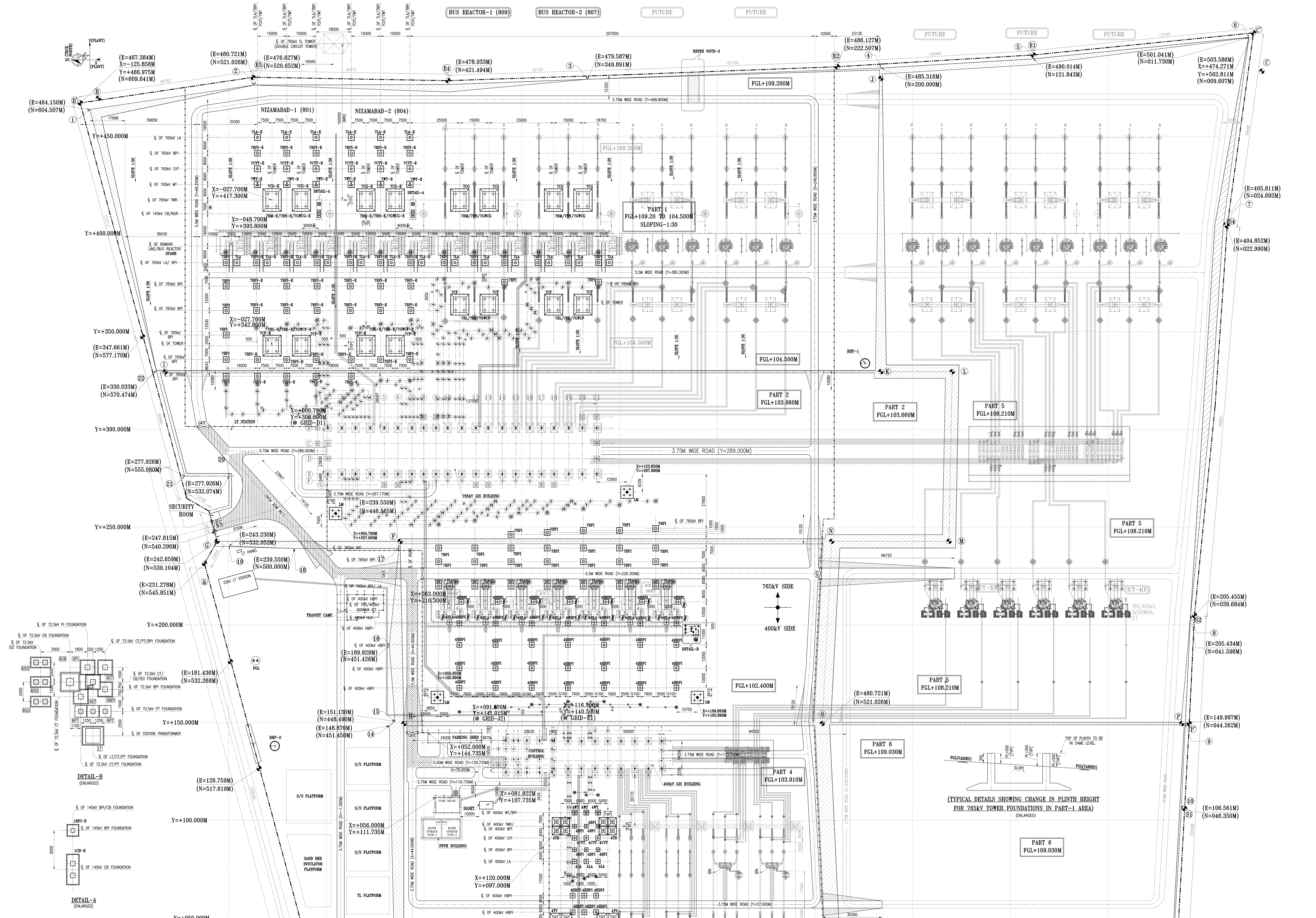
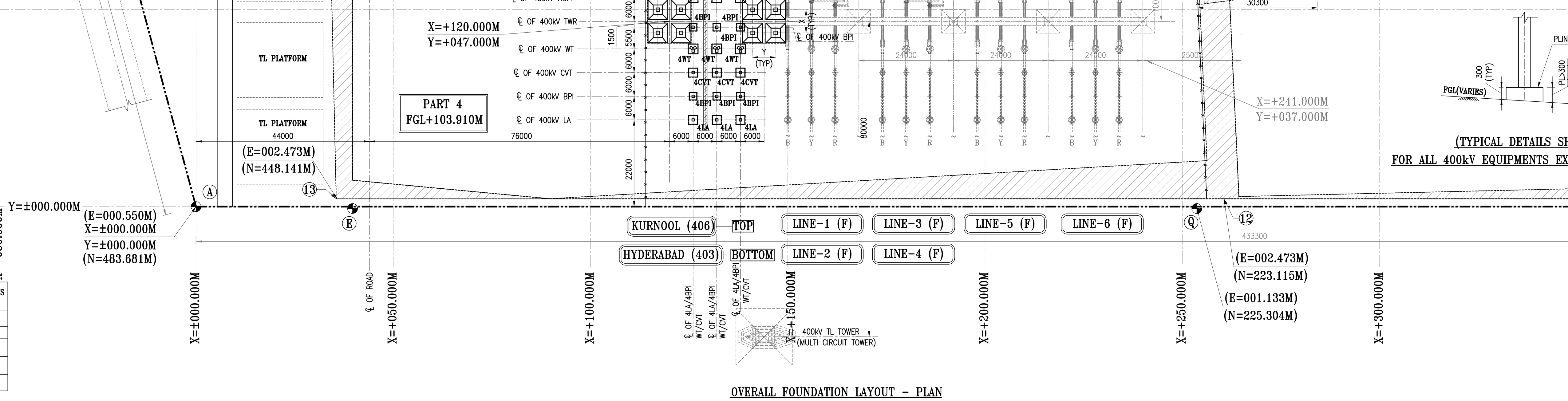




OVERALL FOUNDATION LAYOUT - PLAN

This drawing is the property of L&T Construction, Power Transmission & Distribution and must not be passed on to any person or body not authorised by us to receive it nor be copied or otherwise made use either in full or in part by such person or body without our prior permission in writing

LEGEND:

- INDICATES EQUIPMENT FOUNDATION (HLA, HBPI, CVT, LA, BPI) AS APPLICABLE.
- INDICATES EQUIPMENT FOUNDATION (WT) AS APPLICABLE.
- INDICATES TOWER FOUNDATION AND ITS ORIENTATION
  'X' INDICATES LONGER SIDE OF TOWER BASE (i.e ALONG ph. CONDUCTOR)
  'Y' INDICATES SHORTER SIDE OF TOWER BASE (i.e ACROSS ph. CONDUCTOR)
- FENCE
- GATE
- NTS – NOT TO SCALE
- BOUNDARY WALL
- TWR – TOWER
- FUTURE / NOT IN L&T SCOPE OF WORK
- PRESENT SCOPE OF WORK

REFERENCE DRAWINGS:-

1. 765/400kV HYDERABAD(MAHESWARAM) GIS SUBSTATION – OVERALL LAYOUT PLAN & SECTIONS DRAWING NO: 015052-E-IS-SY-EL-1001.
2. 765/400kV HYDERABAD(MAHESWARAM) GIS SUBSTATION – SITE GRADING LAYOUT PLAN & DETAILS C/ENGG/SR1/HYD/SITE LEVELLING-1(R1) ISSUED BY PGCIL, DATED:26.05.2015

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED
2. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. DO NOT SCALE THE DRAWING.
3. EXISTING DRAIN (NALLAH) SHALL BE REROUTED BY PGCIL ALONG COMPOUND WALL.
4. (&) THE LOCATION OF MAIN GATE SHALL BE AS PER SITE CONDITION.
5. (&&) FOR DETAILS FOR SLOPE/LEVEL, FGL FOR THIS AREA TO BE FINALISED BY PGCIL.
6. FOUNDATION DETAILS SHOWN IN THIS DRAWING INDICATIVE ONLY. EXACT DETAILS OF FOUNDATION REFER RESPECTIVE DRAWING.
7. (*) THE LOCATION SHALL BE AS PER APPROVED ELECTRICAL OVERALL LAYOUT.
8. THE POSITION INDICATED FOR 765kV & 400kV SF6 TO AIR BUSHING MEANT FOR THE 765/400kV TRANSFORMER SHALL BE UTILISED FOR DEVELOPING TRANSFORMER YARD LAYOUT & TO BE CONFIRMED BY PGCIL.
9. THE ROAD OUTSIDE THE SWITCHYARD FENCED AREA & ROAD LEADING TO CONTROL ROOM BUILDING SHALL BE PROVIDED WITH KERB STONE & INTERLOCKING TILES ON SHOULDER. WIDTH OF SHOULDER SHALL BE 1.75m IN CASE OF 5.5m WIDE ROAD AND 1.3m IN CASE OF 3.75m WIDE ROAD.

TABLE 1 : SCHEDULE OF 765kV EQUIPMENT FOUNDATIONS

(WITHIN SWITCHYARD FENCED AREA)

SL. No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	FDN.ID	FDN. QTY. (Nos.)	REMARKS
	765kV EQUIPMENTS						
	I) 765/400kV HYDERABAD GIS POOLING STATION						
1	LA (1ø)	14	015052-C-IS-SY-VD-6250	C-ENGG-STD-EQP-765-FDN-06	7LA	14	--
2	BPI (1ø)	40	015052-C-IS-SY-VD-6270	C-ENGG-STD-EQP-765-FDN-06	7BPI	40	--
	II) EXTENSION OF 765kV HYDERABAD GIS POOLING STATION						
1	LA (1ø)	12	015052-C-IS-SY-VD-6250	C-ENGG-STD-EQP-765-FDN-06	7LA-E	12	--
2	BPI (1ø)	34	015052-C-IS-SY-VD-6270	C-ENGG-STD-EQP-765-FDN-06	7BPI-E	34	--
3	CVT (1ø)	6	015052-C-IS-SY-VD-6240	C-ENGG-STD-EQP-765-FDN-06	7CVT-E	6	--
4	WT(1ø)	4	015052-C-IS-SY-VD-6260	C/ENGG/HYDNIZ/WT/765/BPEG/FDN/01	7WT-E	6	1 FDN. CONSISTS OF 3 PEDESTALS WITH COMMON RAFT. WT FDN. TO BE CAST IN ALL 3 PHASES .
	TOTAL	110			TOTAL	112	

TABLE 2 : SCHEDULE OF 400kV EQUIPMENT FOUNDATIONS

(WITHIN SWITCHYARD FENCED AREA)

SL. No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	FDN.ID	FDN. QTY. (Nos.)	REMARKS
	I) 765/400kV HYDERABAD GIS POOLING STATION						
	400kV Equipments						
1	CVT (1ø)	6	015052-C-IS-SY-VD-6210	C/ENGG/HYDNIZ/EQP/FDN/01	4CVT	6	--
2	LA (1ø)	6	015052-C-IS-SY-VD-6220	C/ENGG/HYDNIZ/EQP/FDN/01	4LA	6	--
3	4WT (1ø)	4	015052-C-IS-SY-VD-6200	C/ENGG/HYDNIZ/WT/400/BPEG/FDN/02	4WT	6	1 FDN. CONSISTS OF 3 PEDESTALS WITH COMMON RAFT.
4	BPI (1ø)	12	015052-C-IS-SY-VD-6230	C/ENGG/HYDNIZ/EQP/FDN/01	4BPI	12	--
5	HBPI (1ø)	41	015052-C-IS-SY-VD-6320	AS PER PGCIL ISSUED DRAWING	4HBPI	41	--
6	HLA (1ø)	7	015052-C-IS-SY-VD-6330	AS PER PGCIL ISSUED DRAWING	4HLA	7	--
	TOTAL	76			TOTAL	78	

TABLE 3 : SCHEDULE OF 765kV TOWER FOUNDATIONS

(WITHIN SWITCHYARD FENCED AREA)

SL. No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	FDN.ID	FDN. QTY. (Nos.)	REMARKS
	I) 765/400kV HYDERABAD GIS POOLING STATION						
	765kV TOWERS						
1	7CG	4	015052-C-IS-SY-VD-6140	C/ENGG/STD/765TOW/FDN/7CG/02	7CG	4	
2	7CF	4	015052-C-IS-SY-VD-6110	C/ENGG/STD/765TOW/FDN/7CG/02	7CF	4	
	II) EXTENSION OF 765kV HYDERABAD GIS POOLING STATION						
1	7CG	4	015052-C-IS-SY-VD-6140	C/ENGG/STD/765TOW/FDN/7CG/02	7CG-E	8	--
2	7CF	4	015052-C-IS-SY-VD-6110	C/ENGG/STD/765TOW/FDN/7CF/02	7CF-E	8	--
	TOTAL	16			TOTAL	16	

TABLE 4 : SCHEDULE OF 765kV GIRDER DETAILS

(WITHIN SWITCHYARD FENCED AREA)

SL. No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	ID	FDN. QTY. (Nos.)	REMARKS
	II) EXTENSION OF 765kV HYDERABAD GIS POOLING STATION						
	765kV GIRDER						
	FOR TOWER 7CG						
1	BM	2	015052-C-IS-SY-VD-6150	--	7BM-E	--	--
2	BN	4	015052-C-IS-SY-VD-6160	--	7BN-E	--	--
3	7GWCG	4	015052-C-IS-SY-VD-6170	--	7GWCG-E	--	--
	FOR TOWER 7CF						
4	BK	2	015052-C-IS-SY-VD-6110	--	7BK-E	--	--
5	BL	4	015052-C-IS-SY-VD-6120	--	7BL-E	--	--
6	7GWCF	4	015052-C-IS-SY-VD-6130	--	7GWCF-E	--	--
	TOTAL	20			TOTAL	--	

TABLE 5 : SCHEDULE OF 72.5KV EQUIPMENT FOUNDATIONS

(WITHIN SWITCHYARD FENCED AREA)

S.No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	FDN. ID	FDN. QTY. (SETS)	REMARKS
	I) 765/400kV HYDERABAD GIS POOLING STATION						
A	72.5kV EQUIPMENTS						
1	BPI(1ø)	2	015052-C-IS-SY-GA-6310	C/ENGG/NIZHYD/EQP/FDN/72.5kV/01	6BPI	2	
2	ISO(3ø)	1 SET	015052-C-IS-SY-GA-6290	C/ENGG/NIZHYD/EQP/FDN/72.5kV/01	6ISO	6	1 SET INCLUDES 6 NOS. OF STR. & 6 NOS. OF FOUNDATIONS.
3	CB(3ø)	--	AS PER VENDOR DRAWING	C/ENGG/NIZHYD/EQP/FDN/72.5kV/01	6CB	1	
4	CT(1ø)	3	015052-C-IS-SY-GA-6280	C/ENGG/NIZHYD/EQP/FDN/72.5kV/01	6CT	3	
5	PT(1ø)	3	015052-C-IS-SY-GA-6300	C/ENGG/NIZHYD/EQP/FDN/72.5kV/01	6PT	3	
	TOTAL	14			TOTAL	15	

IMPORTANT NOTE:

– THE HATCHED ROAD SHALL BE PROVIDED WITH KERB STONE & INTERLOCKING TILES ON SHOULDER.

TABLE 6 : SCHEDULE OF 145kV EQUIPMENT FOUNDATION DETAILS

(WITHIN SWITCHYARD FENCED AREA)

SL. No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	ID	FDN. QTY. (Nos.)	REMARKS
	145kV EQUIPMENTS						
1	BPI	4	015052-C-IS-SY-VD-6340	015052-C-IS-SY-FN-6341	1BPI-E	4	--
2	CB	2	AS PER VENDOR DRAWING	AS PER PGCIL ISSUED DRAWING	1CB-E	2	--
	TOTAL	6			TOTAL	6	

TABLE 7 : SCHEDULE OF 400KV GIRDER DETAILS

(WITHIN SWITCHYARD FENCED AREA)

S.No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	ID	FDN. QTY. (SETS)	REMARKS
A	400kV GIRDER						
1	G1	3	015052-C-IS-SY-VD-6090	--	4G1	--	--
	TOTAL	3			TOTAL	--	

TABLE 8 : SCHEDULE OF 400KV TOWER FOUNDATIONS

(WITHIN SWITCHYARD FENCED AREA)

S.No.	DESCRIPTION	STR. QTY. (Nos.)	STR. REFERENCE DRG.	FDN. REFERENCE DRG.	FDN. ID	FDN. QTY. (SETS)	REMARKS
	I) 765/400kV HYDERABAD GIS POOLING STATION						
	400kV TOWERS						
1	TB	2	015052-C-IS-SY-VD-6070	C/ENGG/HYD/TOW/400/FDN/01A	4TB	2	--
2	TV	2	015052-C-IS-SY-VD-6080	C/ENGG/400/TOW/TV 63kA/FDN/01	4TV	2	--
3	LM	4	015052-C-IS-SY-VD-6180	PGCIL ISSUED DRAWING	LM	4	--
	TOTAL	8			TOTAL	8	

IMPORTANT NOTES:

1. (@) FOUNDATION FOR 765KV BPI & LA WHICH ARE FOULING WITH THE RAIL CUM ROAD OF TRANSFORMER/REACTOR SHALL BE CASTED ALONG WITH RAIL CUM ROAD BY THE CIVIL CONTRACTOR OF TRANSOMER & REACTOR FOUNDATION.
2. (#) FOUNDATION FOR 400KV HBPI & HLA WHICH ARE FOULING WITH THE SOAK PIT OF TRANSFORMER/REACTOR SHALL BE CASTED ALONG WITH SOAK PIT BY THE CIVIL CONTRACTOR OF TRANSOMER & REACTOR FOUNDATION.

AS BUILT

REVISIONS

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	AS BUILT	AKW 20.04.19	AKW 20.04.19	AS 20.04.19	DA 20.04.19
D	HOLD ON EQUIPMENTS NEAR REACTOR/TRANSFORMER AREA REMOVED AS PER PGCIL REACTOR/TRANSFORMER DRAWING.	PDK 26.04.16	SH 26.04.16	MRB 26.04.16	DA 26.04.16
C	REVISED TO SUIT AS PER REVISED APPROVED ELECTRICAL LAYOUT (NO. OF 7CG, 7CF FOUNDATIONS & 400kV BPI FOUNDATIONS REVISED)	PDK 19.09.15	SH 19.09.15	MRB 22.09.15	DA 22.09.15
B	REVISED AS PER REVISED ELECTRICAL LAYOUT – (REV-B)	PDK 22.06.15	SH 22.06.15	MRB 26.06.15	DA 26.06.15
A	ISSUED FOR APPROVAL	PDK 12.06.15	SH 12.06.15	MRB 15.06.15	DA 15.06.15

HYOSUNG CORPORATION

L&T Construction
Power Transmission & Distribution

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

CONSULTANT :

PROJECT : SUBSTATION PACKAGE-S1 FOR (A) ESTABLISHMENT OF 765/400kV HYDERABAD (MAHESWARAM) NEW GIS POOLING SUBSTATION UNDER SUBSTATION WORKS ASSOCIATED WITH HYDERABAD (MAHESWARAM) POOLING STATION AND (B) EXTENSION OF 765kV HYDERABAD (MAHESWARAM) NEW GIS POOLING STATION UNDER WARDHA-HYDERABAD 765kV LINK
LOA: CC-CS/466-SR1/GIS-2607/3/G5:NA-5365, DATED:13.05.15

SUPPLIER / CONTRACTOR : L&T CONSTRUCTION

JOB No. : 015052-C-IS

	NAME	SIGN	DATE
DSGN	PDK	PDK	12.06.15
DRWN	SH	SH	12.06.15
CHKD	MRB	MRB	15.06.15
APPD	DA	DA	15.06.15

TITLE : 765/400kV HYDERABAD (MAHESWARAM) GIS SUBSTATION
OVERALL FOUNDATION LAYOUT OF TOWERS, EQUIPMENTS, FENCE & ROADS

SCALE 1:700

PROJECTION

CHECKED BY	SIGN	DATE
ARCHITECTURE	–	–
CIVIL&STRUCTURAL	–	–
PLUMBING&SANITARY	–	–
MECHANICAL	–	–
ELECTRICAL	–	–
INSTRUMENTATION	–	–

DRG. No. 015052-C-IS-SY-FL-1010 SIZE A0 REV. 0
SHEET 01 OF 01

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION