



LEGEND : EARTHING

S.No.	SYMBOL	DESCRIPTION
1.	(E)	600 x 600 x 6 MM G.I. PLATE EARTHING
2.	---	50 MM x 6 MM G.I. FLAT EARTHING STRIP
3.	---	32 x 6 MM G.I. PIG TAIL
4.	(CT)	600 x 600 x 6 MM COPPER PLATE EARTHING (FOR NEUTRALS)
5.	---	32 x 6 MM INSULATED COPPER EARTH STRIP
6.	---	25 x 5 MM INSULATED COPPER EARTH STRIP

LEGEND : (ELECTRICAL SYSTEM)

S.No.	SYMBOL	DESCRIPTION
1.	□	NORMAL FEEDER PILLAR
2.	▨	ESSENTIAL FEEDER PILLAR
3.	□	EXTERNAL LIGHTING FEEDER PILLAR
4.	---	3 CORE 185 SQ. MM 11 KV XLPE INSULATED ARMoured ALUMINIUM CABLE
5.	---	L.T. XLPE INSULATED ARMoured ALUMINIUM POWER CABLE (FROM NORMAL LT PANEL TO NORMAL SUB FEEDER PILLAR / COMMON FACILITIES)
6.	---	L.T. XLPE INSULATED ARMoured ALUMINIUM POWER CABLE (FROM ESSENTIAL LT PANEL TO ESSENTIAL SUB FEEDER PILLAR / COMMON FACILITIES)
7.	---	L.T. XLPE INSULATED ARMoured ALUMINIUM POWER CABLE (FROM NORMAL SUB FEEDER PILLAR TO NORMAL FEEDER PILLAR & CLUB / COMMON FACILITIES)
8.	---	L.T. XLPE INSULATED ARMoured ALUMINIUM POWER CABLE (FROM ESSENTIAL SUB FEEDER PILLAR TO ESSENTIAL FEEDER PILLAR)
9.	---	L.T. XLPE INSULATED ARMoured ALUMINIUM POWER CABLE (FROM MAIN COMMON SERVICES FEEDER PILLAR TO COMMON FACILITIES)
10.	---	L.T. XLPE INSULATED ARMoured ALUMINIUM DISTRIBUTION CABLE (FROM FEEDER PILLAR TO VILLAS)

NOTES :

- Minimum Distance between two earth pit shall be 2.0 MTR.
- Final Location of earth pit shall be finalized after coordination with Plumbing, Sewerage pipes and other services.

NOTES : (ELECTRICAL SYSTEM)

- THE POWER SHALL BE DISTRIBUTED TO VARIOUS BLOCK THROUGH XLPE / PVC INSULATED ARMoured ALUMINIUM CABLES.
- ALL TRANSFORMERS SHALL BE PLUNTH MOUNTED WITH FENCING ALONG AS PER THE STANDARD DESIGN OF U.P.S.E.B.
- FOR INSTALLATION OF POWER CABLES THE PROVISION OF IS - 1255 SHALL BE FOLLOWED AS APPLICABLE.
- THE MINIMUM CLEARANCE BETWEEN TWO POWER CABLES SHALL BE 150 M.M. HOWEVER THE CLEARANCE SHOULD BE AS LARGE AS SITE CONDITIONS PERMIT.
- IT IS DESIRED FROM THE CONTRACTOR THAT HE SHOULD PREPARE SHOP DRAWING BEFORE STARTING THE WORK. FOR ALL SUBSTATION EQUIPMENTS, PANEL, CABLE LAYOUT ETC.
- THE MINIMUM CLEARANCE BETWEEN POWER CABLE AND WATER LINE / COMMUNICATION CABLE (TELEPHONE CABLE) SHALL BE 300 M.M. HOWEVER LARGER CLEARANCE SHOULD BE ADOPTED IF SITE PERMITS.
- ALL POWER CABLES SHOULD PASS INSIDE SEPARATE PIPE UNDER ROAD CROSSING.
- ALL UNDER GROUND ARMoured L.T. CABLE SHALL BE LAID AT A DEPTH OF 750 M.M. AND 11 KV CABLE SHALL BE LAID AT 900 M.M. BELOW GROUND LEVEL AND DULY PROTECTED BY BRICKS WITH SAND FILLING ALONG AS PER STANDARD DESIGN & SPECIFICATIONS.

EARTHING SCHEDULE

S.NO.	DESCRIPTION	NO.	EARTH BY	EARTH STRIP / PIG TAIL	MAIN EARTH GRID
10	FOR EACH TRANSFORMER NEUTRAL	2 NOS.	800 x 600 x 6 MM COPPER PLATE	32 x 6 MM COPPER STRIP	
11	FOR D. G. SET - 1 (230 KVA) / 1 (171.16 x 62.5 KVA) MAIN COMMON SERVICES FEEDER PILLAR - 1	2 NOS.	800 x 600 x 6 MM COPPER PLATE	32 x 6 MM COPPER STRIP	
12	FOR D. G. SET - 6 (181.8 x 61.11 KVA) / 1 (11 KV PANEL, RMU) TRANSFORMERS LT PANELS & DO SETS BODY (FOR ESS-1)	2 NOS.	800 x 600 x 6 MM COPPER PLATE	32 x 6 MM COPPER STRIP	
13	FOR 11 KV PANEL, RMU TRANSFORMERS LT PANELS & DO SETS BODY (FOR ESS-2)	2 NOS.	800 x 600 x 6 MM COPPER PLATE	32 x 6 MM COPPER STRIP	
14	FOR 11 KV PANEL, RMU TRANSFORMERS LT PANELS & DO SETS BODY (FOR ESS-3)	2 NOS.	800 x 600 x 6 MM COPPER PLATE	32 x 6 MM COPPER STRIP	
15	FOR 11 KV TRANSFORMER & LT PANEL (FOR ESS-4)	4 NOS.	800 x 600 x 6 MM COPPER PLATE	32 x 6 MM COPPER STRIP	
16	FOR EACH FEEDER PILLAR / WATER SUPPLY PUMP PANEL	2 NOS.	800 x 600 x 6 MM COPPER PLATE	32 x 6 MM COPPER STRIP	

Project :
ELDECO TOWNSHIPS & HOUSING AT JAWAHARPURAM, KANPUR (U.P.)

Title :
LAYOUT PLAN

Subtitle :
EXTERNAL ELECTRICAL SYSTEM PH-1

Drawing Released For :
 APPROVAL SUBMISSION
 ADVANCE COPY CONSTRUCTION

Drg. No. : EJ/EE-01

Scale : 1 : 850 **Drawn By :** Mandep

Date : March 2016 **Design By :** M. Sadiq

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JYOTI SINGHAL ARCHITECT
CA/93/18250



KEY PLAN

Rev. No.	Date	Revision
R1	16.04.2016	Issued as GFC