

DUTY & RESPONSIBILITY OF PROJECT ENGINEER

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Presented By

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B.E (E.P) 1977

National Counterpart (049)

Professional Engineer (0125)

Asean Chartered Professional Engineer (Electrical)

Need to train / discussion (young engineers)

1. ARCHI Drawings

1.1. Site plan

1.2. Floor plan

1.3. Roof plan

1.4. Furniture layout plan

1.5. Bath and WC layout plan

1.6. Kitchen layout plan

1.7. Ceiling plan

1.8. Doors and window drawings

1.9. Stairs

1.10. Elevation drawings

1.11. Section drawings

1.12. Detail drawings ... etc

2. Structure Drawings

2.1. Footing

2.2. Column

2.3. Beam

2.4. Floor slab

3. Electrical Drawings

3.1. Note and legend

3.2. Lighting layout plans

3.3. Power layout plans

3.4. Schematic diagram

3.5. MSB/ EMSB/ SDBs/ DBs

3.6. Power distribution layout plan/ Tray layout plan

3.7. Earthing system

3.8. Lightning protection system

4. Bill Of Quantity

4.1. Countable Material

4.1.1. Transformer

4.1.2. Generator

4.1.3. Light fitting/ Switches/ SSO/ Isolators etc. . .

4.1.4. MSB/ EMSB/ SDBs/ DBs

4.2. Measuring Material

4.2.1. Pipe and accessories

4.2.2. Trunking and accessories

4.2.3. Tray and accessories

4.2.4. Wire

4.2.5. Cable/ BUS-DUCT etc. . .

4.3. Earthing system (Lot)

4.3.1. T.T Earthing System

4.3.2. T.N.S Earthing System

4.4. Lightning protection

4.4.1 Air termination System

4.4.1.a. Angle Method

4.4.1.b. Mesh Method

4.4.1.c. Rolling Sphere Method

4.4.2. Down Conductor

4.4.3. Lightning Earth Termination Network

4.5. Others

4.5.1. Wall hacking

4.5.2 Excavation & Backfilling etc. . .

5. SHOP DRAWINGS

5.1. Piping shop drawing

5.2. Trunking shop drawing

5.3. Tray shop drawing

5.4. Construction schedule (eg – slab drawing)