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## **UPGRADING OF ELECTRICAL SYSTEM AT NFTI (TERMS OF REFERENCES)**

### **1. General Requirement**

The Upgrading of Electrical System shall be covered with the appropriate electrical workmanship and professionalism in the field of Electrical Engineering and Methodology.

### **2. GENERAL CODE AND STANDARDS**

The design and specifications shall conform to, but not limited to the following standards set by the:

- a. Philippine Electrical Code of the Philippines (PEC) latest edition;
- b. Applicable Local Regulations and Ordinances.

With respect to the actual construction, applicable rules and regulations prescribed by the following agencies and/or embodied in the following shall be observed:

- a. Department of Public Works and Highways
- b. Department of Environment and Natural Resources
- c. Applicable Building and Electrical Laws and Ordinances in the City of Calamba

### **MAN POWER CAPABILITY**

#### **STAFF REQUIREMENT**

The contractor shall provide adequate and qualified staff to perform the services required herein. The key professionals and the respective qualifications of the IMPLEMENTING PERSONNEL shall be as follows:

##### **ELECTRICAL ENGINEER/RME**

The Electrical Engineer/Master Electrician must be a Registered Professional Electrical Engineer or Registered Master Electrician with at least five (5) years' experience in the design of exterior lighting and knowledgeable in developments in emergent efficient lighting technologies and energy management.

The key professionals and the respective qualifications of the CONSTRUCTION PERSONNEL shall be as follows:

##### **PROJECT MANAGER (1)**

The Project Manager shall be a licensed Electrical Engineer/High Voltage Foreman and a practicing professional in the field of electrical engineering with at least ten (10) years of relevant experience in projects involving energization and protection and other similar or comparable projects.

##### **FOREMAN (1)**

The Foreman must have at least five (5) years' experience related in his/her field of specialization and have appropriate license.

##### **LINE MAN (5)**

## **SAFETY OFFICER (1)**

The Safety Officer must be an accredited safety practitioner by the Department of Labor and Employment (DOLE) and must have undergone the prescribed forty (40) hour Construction Safety and Health Training (COSH). The above key personnel listed are required. The Builder Contractor (BC) may, as needed and at its own expense, supply additional professionals and/or support personnel for the optimal performance of all Construction Services, as stipulated in these Terms of Reference, for the Project. Prospective bidders shall attach each individual's resume, PRC license of the professional staff, certificates of training and all other pertinent documents proving the said professional's expertise.

### **Project Requirements:**


The Contractor shall comply:

- a. Time Schedule: One (1) Month
- b. Schedule of Work shall conform to meet the given Time Schedule.
- c. Equipment: at least 3-man-lift truck with driver/operator, 1- boom truck with driver/operator and 2-service trucks/vehicles with driver
- d. Tools: at least 5 line-man tools, high voltage set of gloves, PPE's
- e. Competent workers: provide at least 5 first class lineman, 1 authorized foreman

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