

<b>T E R M I N A T O R</b>	Excitation way	Self-excited, Brushless
	Connecting type	3 Phase
	Insulator	H degree
	Enclosure Class	IP23

## II. SCOPE OF WORK:

1. This scope includes supply, delivery, installation, testing and commissioning of one (1) brand new unit 750KVA 3-phase, 230V, 60Hz standby silent type diesel genset complete with accessories. Standard accessories shall include but not limited to the following:
  - Heavy-duty steel skid type base frame
  - Subbase fuel tank (12 hrs capacity)
  - Unit mounted tropical capacity radiator with engine driven blower fan
  - Electric starting systems complete with heavy-duty lead acid type starting batteries, battery mounting frame and battery cables
  - High-capacity air, fuel and lubricating oil filters – all dry type
  - Exhausts muffler
  - Battery charging alternator engine driven
  - Lubricating oil and battery solution
  - Complete set of operation and instruction manual of engine, alternator and control panel
2. Supply, construction and installation of exhaust system for Generator set.
3. Supply and installation of Electrical wirings from Generator set to Automatic Transfer switch (ATS), Main Distribution Panels (see plan for details).
4. Supply of fuel for testing and commissioning of Generator set.
5. Testing and commissioning of Emergency Power Supply System.
6. This scope shall also include all the necessary civil works for the complete operation of genset, not specifically mentioned elsewhere in this scope of work.
7. The contractor shall secure all required permits on agencies and any legal documents concerning the provision of the generator set.
8. The contractor shall also provide hands-on technical training of at least two (2) authorized personnel from the university on proper operation and preventive maintenance of the Generator set.

## CONSTRUCTION OF GENERATOR HOUSE

### I. Provision of Field Office/ Laboratory for the Engineers, including Equipment and Other Utilities

1. The Contractor shall maintain field offices and testing laboratories, including all the necessary electricity, potable water supply, drainage, etc. as specified in the Plan.
2. All facilities provided by the Contractor shall be near the job site, where necessary, and shall conform to the best standard for the required types.
3. Upon project completion, the facilities provided by the Contractor including utilities and communication facilities shall revert to the implementing unit including office equipment, apparatus, pieces of furniture, laboratory equipment, etc. unless otherwise specified in the contract documents.

### II. Project Billboard

The work under this Item shall consist of furnishing all required materials, tools, equipment and labor and performing all operations necessary for the satisfactory completion of all project billboard.

1. The Contractor shall provide a 1 piece - 4'x8' Project billboard.
2. Use 2" x 2" Coco Lumber for frames and braces, and ¼" thk. Marine Plywood, Class A.
3. The project billboard shall contain necessary contractual data which includes the following:
  - a. Project Title;
  - b. Project Location;
  - c. Contract I.D.;
  - d. Contractor;
  - e. Contract Start Date;
  - f. Contract Completion Date; and
  - g. Contract Amount

### III. Occupational Safety and Health

1. All works shall comply with the safety procedure or instruction as set out in Occupational Safety and Health Standards Strictly.
2. The Contractor shall provide Personal Protective Equipment (PPE) to all staffs and laborers such as Safety Helmet, Safety Shoes, Safety Gloves, Safety Vest, Rain Coats, Dust Mask, Eye Goggles, Ear Muff, Body Harness & Lanyard, and Rubber Boots
3. Basic Personal Protective Equipment (PPE) shall be worn by all staff or laborers whenever within the project site.
4. The Contractor shall provide medical kits, medicines & accessories as well as antiseptics and disinfectants such as sanitizing solutions, ethyl alcohol, and liquid hand soap within the project site.
5. The Contractor shall provide Temporary Barricades and Signages.
6. Only trained operators or banksman shall engage to control or operate heavy equipment machines.
7. The Contractor shall assign a one (1) fulltime Safety Officer/Safety Engineer and one (1) fulltime First Aider.
8. The full-time Safety Engineer/Officer assigned at the site who shall strictly monitor work activities. Said Safety Engineer/Officer shall ensure strict compliance with regard to the wearing of additional personal protective equipment (PPE) required such as, but not limited to, face masks, safety glasses/goggles, face shields, and long sleeve T-shirts, and other measures to contain the spread of COVID-19 in the workplace.
9. Work activities shall be strictly monitored daily by the Safety Officer on site to ensure compliance with safety standards and quarantine protocols.
10. Proper waste disposal shall be provided for infectious waste such as PPEs and other waste products coming from outside the construction premises.
11. Contractor shall submit a copy of the approved OSH Program to the Agency through PMC.



12. The Contractor shall strictly adhere to the provisions of this scope. Non-compliance of this requirement shall be a valid ground for suspension and/or termination of contract.

#### IV. Permits, Fees, and Clearances

The work under this Item shall consist of furnishing all required fees and payments for building permit processing, material testing as well as permanent electrical service connection processing and performing all operations necessary for the satisfactory completion of all project.

1. Payments for building permit application with the maximum amount of 150,000.00php will be charged to the Contractor. This includes payment for signing engineers, zoning clearance fees, permit processing fees, if required, occupancy permit fee, and fire protection certificate.
2. During project implementation, the Contractor shall conduct material testing at any testing materials agency recognized by the DPWH under the supervision of a representative from the Project Monitoring Committee. All material testing shall be in accordance with the DPWH Standards. In addition, payments for such Material Testing are included in this Item and will be charged to the Contractor.
3. Prior to removal of existing structures and obstruction designated not to remain at the project site, the Contractor shall secure the Demolition Permit and Tree Cutting Permit. Payments for processing said permit is included in this item.
4. This item also includes payments for testing of kilowatt-hour meter at FICELCO.
5. Upon completion of all works, the Contractor shall apply for the permanent electrical service connection of the building. Any additional fees required shall be covered by this Item.

#### V. Mobilization/ Demobilization

1. This Item includes the mobilization/ demobilization of materials and equipment, construction of Temporary Facilities, Bunkhouse, Warehouse storage & Project Site Office.
2. All materials used for billboards, signages, bunkhouses shall be new and be turned over to the implementing unit after the completion of the project.
3. This item includes demobilization of all construction debris from the site after all works has been completed.

#### VI. Clearing and Grubbing

This item shall consist of clearing, grubbing, removing and disposing of all vegetation and debris as designated in the Contract. Clearing shall include felling all standing trees, except where designated by the Engineer to remain and cutting of all brush. The work shall also include the preservation from injury or defacement of all objects designated to remain. The work also includes complete removal and disposal of all felled trees, brush, and stumps, etc. In addition, any depressions resulting from the above removals must be backfilled to the original ground elevation and compacted to the required density. This work shall be done in strict accordance with local and state laws controlling open burning. Prior approval and coordination must be handled by the Contractor with the Bureau of Fire Protection, Virac Station.

All surface objects and all trees, stumps, roots and other protruding obstructions, not designated to remain, shall be cleared and/or grubbed, including mowed as required, except as provided below:

1. Removal of undisturbed stumps and roots and nonperishable solid objects with a minimum depth of one (1) meter below subgrade or slope of embankment will not be required.
2. In areas outside of the grading limits of cut and embankment areas, stumps and nonperishable solid objects shall be cut off not more than 150 mm above the ground line or low water level.