



**PHILIPPINE GENERAL HOSPITAL**  
The National University Hospital  
University of the Philippines Manila  
**OFFICE OF ENGINEERING AND TECHNICAL SERVICES**  
Taft Avenue, Manila

*PHIC-Accredited Health Care Provider  
ISO 9001:2008 Certified*

**Project Title : DISMANTLING, TRANSPORT, AND DISPOSAL OF ASBESTOS  
CONTAINING MATERIALS (ACM) OF ROOFING OF THE OLD O.R.  
BUILDING**

**Location : Philippine General Hospital, Taft Avenue, Manila**

**Subject : SCOPE OF WORKS & SPECIFICATIONS**

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### **1. GENERAL CONDITIONS**

- 1.1 The Contractor shall furnish all the materials, labor, tools, equipment, and supervision for the completion of all the works of the Project as indicated on the plans, specifications and contract documents.
- 1.2 The Contractor shall visit and carefully examine the site and check all the possible interference and conditions affecting the works.
- 1.3 Extra care must be observed during dismantling works to avoid damage on the existing facilities such as Telephone and Internet Lines, Paging System Accessories, Medical Gas Lines, Sewer and Water Lines, etc. Any damaged thereof should be restored to its original status at the expense of the Contractor within two (2) weeks. Otherwise, construction activity will be stopped.
- 1.5 The Plans and Specifications shall be interpreted only by a competent registered Engineer. The Contractor is enjoined to confer with the Project Engineer of OETS on drawing/items he failed to understand before submitting his bid. No excuses shall be entertained for misinterpretation on the Plans and Specifications after the award of the Contract. All work as deemed provided by the OETS shall be carried out properly by the Contractor.
- 1.6 The Plans and Specifications are complimentary to each other, whatever is not mentioned in one but mentioned on the other shall be considered as if mentioned on both and shall be carried out properly by the Contractor.
- 1.7 Any inconsistency or discrepancy between the Plans and Specifications shall be brought immediately to the attention of the OETS Project Engineer/s who shall decide the correct version of the two.

- 1.8 No addition or alteration that will result in a change order from the contract shall be allowed without the approval of the PGH Administration. The Contractor shall bring the case to the OETS Project Engineer/s.
- 1.9 One set of the Plans, Specifications and Log Book shall always be kept at the jobsite to be available to the Project Inspector or his representative upon his request during the construction period.
- 1.10 Prior to the installation of any item or material the Contractor shall submit sample with complete specifications to OETS for evaluation. In case of testing, the Contractor shall notify the OETS and End-user at least one week in advance of making the required tests so that the arrangements can be made for their presence to witness the tests. The necessary materials, labor, devices and all others required to conduct such tests at no additional cost the Owner.
- 1.11 The Contractor is solely responsible for the safety, protection, and security of his personnel, the works, equipment, installations and the like. The Contractor shall adopt or apply the protective measures in accordance with the standards set by the Safety Organizations and the Department of Labor Standards.
- 1.12 The Contract Period of this project is **SEVENTY FIVE (75) CALENDAR DAYS**.
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|--|--------------|
| a. Mobilization, installation of scaffoldings, condoning off and - - - - - | 20 CD        |
| shielding of the work area   |              |
| b. Dismantling, spraying of asbestos sheet, packaging, cleaning,           |              |
| air monitoring, and installation of Temporary Roofing - - - - -            | 25 CD        |
| c. Hauling, disposal, clearing, and cleaning - - - - -                     | 10 CD        |
| d. Air monitoring and turn-over - - - - -                                  | 20 CD        |
| <b>TOTAL</b>   | <b>75 CD</b> |

## 2. SITE WORKS

### 2.1 Scope of Works

The work shall cover the dismantling of Asbestos Containing Materials (ACM) and Non-Asbestos Containing Materials from the location of the subject property by competent personnel who are trained, knowledgeable, qualified and licensed in the techniques of handling and disposal of Asbestos-containing and Asbestos-contaminated materials and the subsequent cleaning of the contaminated areas.

- 2.1.1 The contractor shall dismantle, collect, transport, treat and properly dispose the Hazardous Asbestos Contaminated (ACM) wastes generated including other hazardous wastes using DENR accepted methodology, as provided for 'Toxic Substances and Hazardous Wastes Control Act of 1990 (RA 6969) other pertinent laws and legislation
- 2.1.2 The contractor shall have the capability to dismantle, pack, transport, treat and properly dispose the hazardous ACM.



2.1.3 The contractor shall obtain all the required licenses and permits from the EMB-DENR and other government regulatory bodies, specifically indicated in the eligibility requirements.

2.1.4 The contractor must be ISO 9001 and 14001 certified.

2.1.5 The contractor shall provide/install a **temporary rooftop cover** after dismantling of ACM. The material to be used shall be leak-proof from rain/moisture.

2.2 Method of dismantling, collection, transport, treatment and disposal of Hazardous Asbestos Contaminated Materials (ACM) wastes shall be accordance with the following conditions:

#### 2.2.1 Dismantling

The contractor shall be responsible to provide all necessary tools and equipment including Personal Protective Equipment (PPE) for the dismantling of ACM in the defined areas of the project.

The contractor shall ensure and provide enclosure in the defined areas throughout the project duration using canvass material. Only trained and/or authorized personnel of the contractor shall be allowed to enter the project premises.

The contractor shall be responsible to provide ambient air monitoring before and after the dismantling and collection of ACM.

#### 2.2.2 Packaging

The contractor shall be responsible for ensuring the ACM will be sprayed or soaked with appropriate laminating material (environment and health safe) to ensure that there are no errant fibers of ACM.

The contractor shall be responsible for packing of the dismantled ACM wrapped with polyethylene stretch film liners.

#### 2.2.3 Transport

The contractor shall transport the dismantled ACM using registered transport vehicles to the Environmental Management Bureau – Department of Environmental and Natural Resources (EMB-DENR) accredited treatment and disposal facility.

The transport of hazardous asbestos contaminated material wastes should comply with the national regulation governing transport of toxic wastes (RA 6969) and should, at all times, not pose any danger to the public during transport.

#### 2.2.4 Treatment, and Disposal

The treatment and disposal of the contractor should be acceptable to the community wherein the facility is located. Further, the final disposal facility should be registered with or accredited by the EMB-DENR.

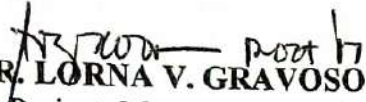
The contractor shall issue a certificate of treatment and final disposal stamped and received by EMB-DENR.

#### 2.3 Final clean up of the area. The temporary roof top cover shall remain and securely fastened on the existing roof trusses.

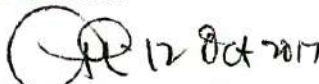
#### 2.4 Demobilization

*Required Technical Documents and ISO Certifications are attached and submitted as eligibility requirements (see page 5)*


Prepared by:

  
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Head, Project Management Unit-OETS

Favorably Endorsed:

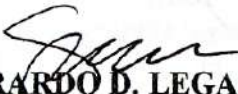
  
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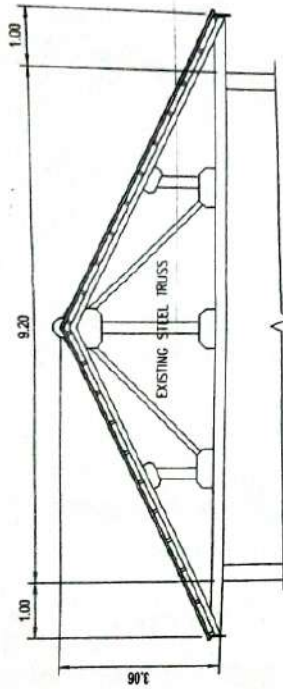
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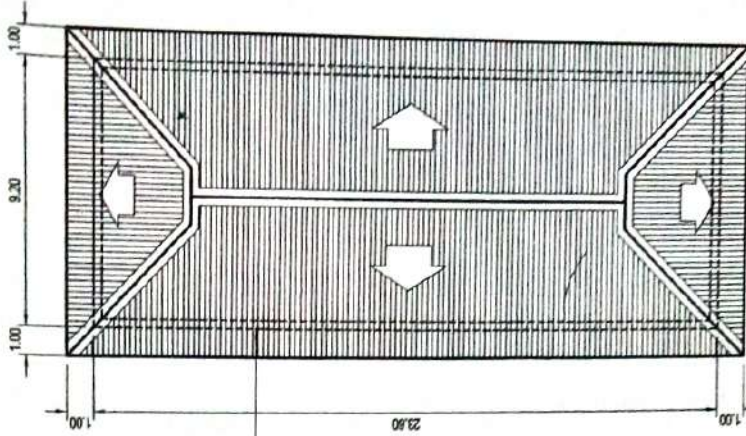


6. Technical Documents
  1. Certificate of Site Inspection
  2. Required DENR- Accredited Waste Transporter
  3. Registered DENR- Accredited Hazardous Waste Treater -
  4. DENR- Accredited Pollution Control Officer
  5. DENR- Environmental Compliance Certification for Secured Landfill
7. Duly accomplished ISO Certification
  1. ISO 9007:2008 Quality Management Certificate
  2. ISO 14001:2004 Environmental Management Certificate
  3. Valid Certificate from the Department of Labor and Employment (DOLE)
  4. Occupational Safety and Health Center (OSHC); registered Safety Officer/Engineer
  5. Certificate of Basic Awareness Training for Hazardous Waste Transporters
  6. Asbestos Management Training issued by DOLE or OSHC
  7. Pollution Legal Liabilities Insurance Policy (PLLI) with coverage of at least 20 Million peso per incident.

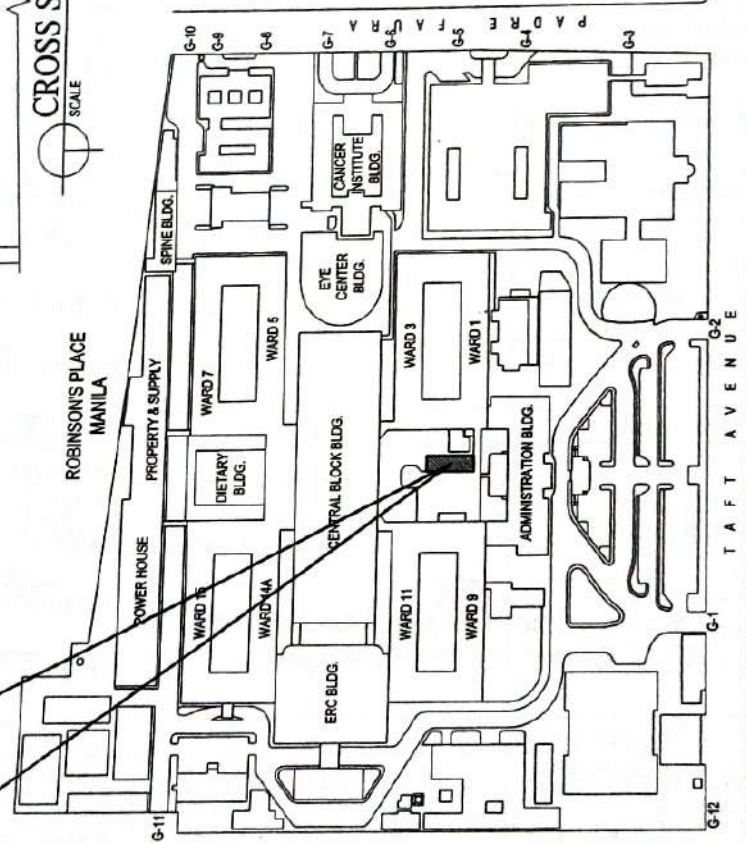
# SITE



**CROSS SECTION**  
SCALE 1:100M



**ROOF PLAN**  
SCALE 1:200M



**LOCATION PLAN**  
NOT TO SCALE

<p><b>Office of Engineering &amp; Technical Services</b> Philippine General Hospital University of the Philippines Taft Avenue, Ermita, Manila</p>	<p><b>PROJECT TITLE:</b> DISMANTLING, TRANSPORT AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS (ACM) OF ROOFING OF THE OLD O.R. BUILDING LOCATION: Old O.R. Building, UP-PGH Compound, Taft Avenue, Ermita, Manila</p>	<p><b>PREPARED BY:</b> ENGR. LORNA V. GRACIOSO Head/Project Management Unit</p> <p><b>ENDORSED BY:</b> ENGR. GENESSIS H. JIMENEZ</p>	<p><b>RECOMMENDING APPROVAL:</b> AERIMSON B. BERREARBE, MD Coordinator for Facilities &amp; Social Projects</p>	<p><b>APPROVED:</b> MARIA TERESA JULIETA U. BENEDICTO, MD Deputy Director for Administration</p>	<p><b>SHEET NO.:</b> 1</p>
	<p><b>UP-MANILA COMPOUND</b></p>				