

Republic of the Philippines

Kalinga State University

BIDS AND AWARDS COMMITTEE

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ANNEX E - MECHANICAL DESIGN PARAMETERS & SPECIFICATIONS

I. Codes and Standards

The Mechanical Design shall be in accordance with the following Codes and Standards.

• Codes:

- 1. National Building Code of the Philippines and Its New IRR
- 2. Philippine Mechanical Code 2003
- 3. ASME A17.1 Safety Code for Elevators and Escalators, latest edition.
- 4. Fire Code of the Philippines
- 5. Existing Local Codes and Ordinances.

• Standards:

- 1. Bureau of Product Standards (BPS)
- 2. Philippine National Standards for Drinking-Water
- 3. National Water Resources Board (NWRB)
- 4. National Plumbers Association of the Philippines (NAMPAP)
- 5. Philippine Society of Sanitary Engineers, Inc. (PSSE)

II. Responsibilities of the Mechanical Engineer/Contractor

- 1) Review the owner's requirements and the architect's elevator specifications.
- 2) Identify the type, size and capacities of proposed elevator
- 3) Pre-qualify reputable suppliers and installation sub-contractors.
- 4) Review shop drawings for compliance with specifications.
- 5) Perform inspection services during elevator installation.
- 6) Provide copies of all documentation of review and inspection reports to the KASC.

III. Basic requirements for specifying and choosing the elevator unit to be installed (partial list)

- 1) Minimum capacity: 6 persons
- 2) Vandal resistant pushbutton fixtures with tamper proof screws
- 3) Digital car position indicators on each floor in the elevator lobby over the door opening, adjacent to the hoistway door entrance, or contained within the hall pushbutton fixture.
- 4) Vandal resistant car direction indicators located on the elevator car to indicate direction of travel and visual arrows for car direction.
- 5) Provision of annual maintenance service and testing

IV. Other required works and facilities

- 1) The contractor shall coordinate all work required by latest applicable codes including fire and smoke rated hoistway enclosures, pits, shaft venting, operable fire alarm systems, etc.
- 2) The machine room shall be enclosed and conditioned per the elevator manufacturer's required tolerances and have temporary power available for installation work.
- 3) Crane service or a lifting equipment with the required lifting capacity shall be provided for the hoisting of the machine room equipment.
- 4) All structural beams and rails shall be in place.
- 5) The elevator pit shall include ladder, guarded light, GFI receptacle and sump pump with cover. Light and pump shall be on separate dedicated circuits.
- V. **Drawing Requirements:** See attached KSU checklist based on Revised IRR of the National Building Code of the Philippines (PD 1096)

--End of Scheme---