

FACILITY DESIGN REQUIREMENTS

a) Design Scope:

Site survey and design (Architectural, Structural, Services and Interior design) of Tertiary Health Facilities respective to the plot allocation of the Islands. The design shall also include the landscaping of facility site area, decorative boundary walls and preparation of bill of quantities (including priced boq) and technical specifications for the complete construction, installations and furnishing works of the facility.

Design work shall consist minimum of 20 interior design scenes of different zones (selected by Ministry of Health) and exterior perspective views of the building (minimum 03 nos.).

Servicing shall include designed and detailed MEP drawings including Air-conditioning, Fresh Air systems, pneumatic tube systems, Solar PV systems, firefighting mechanism and internal networking shall include nurse call systems, public addressing system, access control system, security camera recording mechanisms, telephone, internet...etc.

Design works shall be carried out in collaboration with Ministry of Health and conceptual design must be approved by Ministry of Health prior to commencement of detailed designing.

Complying design guideline: Australasian Health Facility Guidelines (**AusHFG**)

b) Materials Selection:

All the materials selections shall comply to the technical specifications and bill of quantities requirements and quantities. Material details should be detailed in design drawings.

c) Wall finish: Hygienic Protective Cladding

- Accident and Emergency area
- Ward area
- Emergency rooms
- Labour room
- Laboratory
- Operation theaters

d) Areas for Air Condition System:

Quality of Air-condition to be Daikin Inverter VRV IV Q Series with 360 Deg. Round flow indoor cassette type or Equivalent. Efficiency of overall system performance shall be up to 28 IEER.

Areas for Air Condition & Ventilation System with HEPA Filters (H14).

- Accidents and Emergencies
- Labour room
- NICU
- Operation Theaters
- Sterile Areas

e) Windows and Facades or fixed panels shall be double glazed.

f) Solar PV system:

- Design 250KW grid tied solar PV system for the facility. Detailing shall include to complete the network and connect to the grid with net metering as per specification. (Junction box specs, solar AC&DC cable specs, solar bracket specs, inverter specs & solar panel).

Note: The contractor has to submit a soft copy of all the Drawings (Architectural, structural, and services) in AutoCAD and PDF format, BOQ (.Xls format), after submission of the documents, Ministry of Health has the right to use in future projects. The company has no right to claim ownership of the documents. All the drawings to be prepared complying to Government standards and with approval stamps of accredited Engineers, Architects and any other authority approval required for the services designs.
