

0. Guidance on How to Deliver your Submission to SHCC

1. This document provides information on all the deliverables required for a Detailed Submission. It specifies what the deliverables are, their quantity, format, size, scale and content.

2. This document also is to be used as a Checklist for the Applicant, to verify the Submission is complete. To ensure a complete and compliant Submission is presented to SHCC, the Applicant is to check all the boxes in the green field. Although SHCC encourages Applicants to provide as much information as possible, there may be reasons why certain deliverables may not need to be provided. Where the Submission deviates from what is listed below, the Applicant is to list these in a separate Non-Compliance Report (refer to item 1.6) and explain the reason. It should be noted Submissions deemed incomplete may be rejected by SHCC. It is therefore the Applicant's responsibility to be as complete as possible and where in doubt, consult SHCC for the exact requirements. The deliverables as listed below are applicable to a large scale, complex health facility: small scale, basic facilities may be exempt from providing certain deliverables.

Examples: A Vertical Transportation Study is obviously not required for single-level facilities. For multiple-story facilities, it may only be required if over a certain size - Check with SHCC
Details for food storage and preparation are not required if the health facility does not provide this service
Details of medication delivery may not be required for a small dental clinic

3. The SHCC Officer will use this document to verify the Submission is complete and compliant by checking all the boxes in the yellow field.

Part	For hard copies - All items with identical numbers are to be bound together but separated by dividers/tabs For soft copies - All items with identical numbers are to be filed together in a folder
Size	The document is to be submitted in the prescribed size
Scale	The document is to be submitted using the prescribed scale
Template	Template - The Applicant is to use a Template for this specific deliverable. All Templates are provided in Part A
Sample	Sample - The Applicant is to refer to a Sample for this specific deliverable. All Samples are provided in Part A. The Sample will give an indication on the format/content of the deliverable
Hard Copy	An "x" in this column indicates one (1) hard copy is to be provided, to scale and in color where required. Minimum size to be A1
PDF	An "x" in this column indicates one (1) PDF copy is to be provided, to scale and in color where required. File naming should allow easy identification of each document
Soft Copy	An "x" in this column indicates one (1) soft copy in the prescribed format is to be provided. File naming should allow easy identification of each document

All dimensions, levels and areas to be metric
All documents produced by the applicant to be in English

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
1.1	Deliverables for Detailed Submission	1	A4	T	x	x		Signed hard copy and PDF to be included with the Submission.
1.2	Detailed Submission Application Form	1	A4	T	x	x	x	Soft copy to be submitted online by the operator/developer. Signed hard copy and PDF to be submitted with the Submission
1.3	Approval in Principal - Schematic	1	A4		x	x		Authority/supplier name, purpose of document and approval date mentioned in the file name
1.4	Assessment Report	1	A4	S	x	x	Word	The MS Word Assessment Report as issued by SHCC when issuing the AIP-S is to be completed and updated as required
1.5	NoC for Land Excavation	1	A4		x	x		Authority/supplier name, purpose of document and approval date mentioned in the file name
1.6	Copy of Contract agreement and "Construction Material Specification Approved Letter"	1	A4		x	x		Name - Sign - Seal of the Owner, Consultant and Contractor, purpose of document and approval date mentioned in the file name
1.7	All other required Authorities (Sharjah Electricity and Water Authority, Department of Telecommunication - Etisalat, Civil Aviation and Civil Defence). NoCs received to date	1	A4		x	x		Authority/supplier name, purpose of document and approval date mentioned in the file name
1.8	Non-Compliance Report - Deliverables	1	A4	T	x	x		Where the Submission is not fully compliant (not all boxes ticked in the applicant self-check field), all non-compliances are to be listed in a separate report explaining the reasons for the non-compliance. The missing item is to be identified by the corresponding reference number on this sheet
1.9	Non-Compliance Report - Design	1	A4	T	x	x		Where the design is not fully compliant with the Standards and Guidelines, all non-compliances are to be listed in a separate report, explaining the reasons for the non-compliance

2.1 Architectural Reports

[illegible]

2.1 Architectural Reports - continued

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
2.1.3	Functional Planning Unit (FPU) Schedule	2	A4		x	x		<p>General description of each FPU</p> <p>* Complete list of all FPU's (Departments) including their Gross Floor Area and proposed RDL</p> <p>* Provide a short operational policy per FPU</p> <p>* Explain the most critical functional relations to other FPU's (explain adjacencies)</p> <p>* Explain the different access points for staff, patients and visitors</p> <p>* Explain whether there are any (semi) restricted areas and how this segregation is achieved</p> <p>* Explain what facilities (change rooms, showers, lounges, toilets etc.) are available for staff, patients and visitors within/outside the department</p> <p>* Explain all different storage rooms within the FPU and their intended use</p> <p>* Explain all special hazards within this particular FPU and explain how this will be addressed during the design phase (example: radiation, chemicals, etc.)</p> <p>* Elaborate on all people and goods flows within the department if this is not fully addressed under item 1.2.4</p>
2.1.4	People and Goods Flows	2	A4		x	x		<p>At facility level, explain text and document in color through the departmental relationship plans</p> <p>* Visitors flows from car parking to each FPU accessible to the public</p> <p>* Staff flows from car parking to each FPU and/or change room</p> <p>* Patient flows from car parking, ambulance bay and helipad to each FPU accessible to patients</p> <p>* The use and internal size of each lift cabin - staff, patients, visitors, goods, maintenance, CCSD or a mixture</p> <p>* The use of each entry point into the facility - staff, patients, visitors, goods, public, staff only etc.</p> <p>* Storage, collection, delivery, distribution of clean and soiled linen. Explain whether laundry is on/off site.</p> <p>* Storage, collection, recycling of waste - general, food, medical, radioactive, biohazard</p> <p>* Storage, delivery of fuels, medical gases</p> <p>* Storage, delivery of food to the kitchen. Explain whether food preparation is on/off site.</p> <p>* Storage, delivery of food to the wards.</p> <p>* Medication delivery to wards, medication rooms, pharmacies etc. - who delivers, how is it stored, how is it secured</p> <p>* Cleaning methods and distribution/detailed fit out of housekeeping rooms</p>

2.2 Architectural Schedules and Calculations

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
2.2.1	Schedule of Accommodation	3	A4	T	x	x	Excel	<p>Room names in line with HFG nomenclature</p> <p>Room number and Metric Floor Area</p> <p>No of rooms per type, per FPU (Department)</p> <p>Total circulation within the Department</p> <p>Departmental totals - net, circulation, gross</p> <p>Total circulation outside the Departments</p> <p>Total engineering space and plant rooms</p> <p>Floor level totals - net, circulation, gross</p> <p>Facility totals - net, circulation, gross</p> <p>State which area measurement method was used, internal dimensions or no-gap method</p> <p>GFA should be listed per floor and per use (offices, clinical etc.)</p>
2.2.2	Occupant Load Calculation	3	A4		x	x		Based on NFPA101 and stamped "Approved" by the Sharjah Civil Defence
2.2.3	Vertical Transportation Study	3	A4		x	x		<p>This should be conducted by a reputable vertical transportation specialist</p> <p>Indicate the exact use of each lift - patients, visitors, staff, goods, maintenance</p>

3. Architectural Drawings

3.1 Architectural and Health Planning Drawings

No	Item	Part	Scale	T/S	Hard copy	PDF	Soft copy	Showing
3.1.1	Departmental Relationships Plans and People and Goods Flows	4	1/100		x	x	Acad	<p>Room names in line with HFG nomenclature</p> <p>FPU (Department) names in line with HFG nomenclature</p> <p>FPU's (Departments) shown in different colors</p> <p>Where support areas are shared between Departments, provide hatching indicating the extent</p> <p>Where areas are restricted or semi-restricted, provide a bold outline around the perimeter indicating the extent</p> <p>Indicate all people and goods flows as described under 1.2.4</p> <p>Key plan indicating what portion of the facility is shown on the sheet</p>
3.1.2	Architectural Floor Plans	5	1/100	S	x	x	Acad	<p>Room names in line with HFG nomenclature</p> <p>Room number and Metric Floor Area</p> <p>FPU (Department) names in line with HFG nomenclature</p> <p>Total FPU (Department) area written within each FPU</p> <p>Dimensions (between walls) for all rooms, including corridors</p> <p>Dimensions for door openings (clear opening)</p> <p>Dimensions between grid lines</p> <p>All built in joinery, sanitary fittings and large furniture/equipment</p> <p>Where sinks and basins are shown, visually identify which are for clinical use, for disposal of body fluids, for cleaning and for hand washing</p> <p>All floor wastes and shower drains, including floor falls</p> <p>Where storage rooms/alcoves are shown, specify the exact use in line with the nomenclature as described in the HFG</p> <p>Key plan indicating what portion of the facility is shown on the sheet</p>

3.1 Architectural and Health Planning Drawings - continued

No	Item	Part	Scale	T/S	Hard copy	PDF	Soft copy	Showing
3.1.3	Architectural Sections	6	1/100		x	x	Acad	Dimensions of floor to floor heights Dimensions of clear ceiling heights Key plan indicating where the section is taken
3.1.4	Reflected Ceiling Plans	7	1/100		x	x	Acad	Room names in line with HFG nomenclature Room number Ceiling height All built in joinery going up to the ceiling All ceiling mounted equipment and fixtures Type/material of ceiling Key plan indicating what portion of the facility is shown on the sheet
3.1.5	Architectural Elevations Exterior	8	1/100		x	x	Acad	Dimensions of floor to floor heights Key plan indicating where the elevation is taken Operable windows and external vents/intakes clearly labelled
3.1.6	Room Layouts and Elevations of all Typical Rooms	9	1/20 1/50		x	x	Acad	Room names in line with HFG nomenclature Room number and Metric Floor Area Dimensions (between walls) Dimensions for door openings (clear opening) All fixtures, fittings, joinery, sanitary fittings and equipment Where sinks and basins are shown, visually identify which are for clinical use, for disposal of body fluids, for cleaning and for hand washing All floor wastes and shower drains, including floor falls All MEP outlets (electrical, data, gas) Reference indicating where this room is located on the 1:100 drawings
3.1.7	Room Layouts and Elevations of all Non-Typical Critical Rooms	9	1/20 1/50		x	x	Acad	As above

3.2 Drawings Documentation

No	Item	Part	Scale	T/S	Hard copy	PDF	Soft copy	Showing
3.2.1	Site Plan	10	1/500 1/1000		x	x	Acad	Ground floor layout of the facility with overhanging roofs and canopies dashed On grade car parking, including traffic directions and markings. Indicate the numbers of each type of car park - standard, accessible, accessible van etc. On grade accessible car parking and their accessible routes to entrances identified Pedestrian crossings and walkways Loading bays with clean/dirty separation shown Landscaped areas Access points to public transport Vehicle and pedestrian ramps External steps and stairs Ambulance access and parking (this includes all details such as clear height, distance behind the ambulance etc.) Drop-off zones Helipads North arrow Site boundary Surrounding streets and access points Total land area, ground floor footprint area and total building area
3.2.2	Accessibility Floor Plans	11	1/100		x	x	Acad	Visualize (hatch, color) all accessible routes and facilities and joinery items along these routes, including and not limited to the list under 2.2.3 Provide call outs for each item and document at an appropriate scale as mentioned under item 2.2.3
3.2.3	Document all Accessible Items: * Passenger loading zones * Kerb Ramps * Ramps * Stairs * Lifts * Toilets, Ensuites, Bathrooms, Changing Rooms * Accessible patient rooms and ensuites * Counters, Kiosks etc.	11			x	x	Acad	Ensure compliance with all applicable ADA clauses is documented, including but not limited to the items below Slope, levels, clear width, length Slope, levels, clear width, length Slope, levels, clear width, length, handrail details Slope, levels, clear width, length, handrail details Internal size of all lift cages deemed to be accessible Internal size of all lift cages deemed to be for bed transport Internal size of all lift cages deemed to be for maintenance/goods Clear door opening (width/height) Height, details of call buttons (inside and outside lift cabin) and handrails Door swings and clear openings Internal dimensions and accessible circle Location and size of fittings and fixtures Wheelchair square showing door approach Toilet and grab bar positioning Floor falls Shower seats Plans, elevations, sections etc., as required Plans, elevations, sections etc., as required

3.2 Drawings Documentation (Continued)

No	Item	Part	Scale	T/S	Hard copy	PDF	Soft copy	Showing
	* Public Phones, Drinking Fountains etc. * Water Coolers, ATMs , Vending Machines etc. * Wall Protection and Handrail Strategy * Approach with regards to the Hearing Impaired * Approach with regards to the Visibly Impaired	11			x	x	Acad	Plans, elevations, sections etc., as required Plans, elevations, sections etc., as required Typical section of corridor approach in all public corridors Details as required Details as required
3.2.4	Number of Accessible Facilities	11			x	x		Diagram documenting the number of accessible facilities, as per ADA 2010 section 223

4. Structural Reports, Schedules and Calculations**4.1 Structural Reports**

No	Item	Part	Scale	T/S	Hard copy	PDF	Soft copy	Showing
4.1.1	Structural Report	12	A4		x	x		Explain Design Intent
4.1.2	Structural Calculations	12	A4		x	x		
4.1.3	Structural Specifications							

5. Structural Drawings**5.1 Structural and Health Planning Drawings**

No	Item	Part	Scale	T/S	Hard copy	PDF	Soft copy	Showing
5.1.1	Foundation Plans		1/100		x	x		Levels, footings, metric dimensions, notes, cross references
5.1.2	Floor Plans, including columns, slabs, sheer walls and set-downs		1/100		x	x		Relative levels, metric dimensions, notes, cross references, reinforcement
5.1.3	Column Schedules		N/A		x	x		Concrete and steel column types, dimensions, descriptions
5.1.4	Concrete Beam Profiles		1/20		x	x		Elevations, sections, metric dimensions, notes, cross references
5.1.5	Concrete Cross Sections		1/20 1/10 1/5		x	x		Concrete junctions, typical and special conditions, metric dimensions and notes
5.1.6	Concrete Details		Varies		x	x		Concrete junctions, typical and special conditions, metric dimensions and notes
5.1.7	Structural Steel Drawings		Varies		x	x		Plans, sections, elevations, notes and metric dimensions
5.1.8	Structural Steel Details		Varies		x	x		Typical and special details, junctions, connections, notes and metric dimensions
5.1.9	Structural Steel Schedules		Varies		x	x		Column, purlin, rafter or other schedules
5.1.10	Miscellaneous Details		Varies		x	x		Lintels, stabilizers, fasteners, slip joints and similar details, notes and metric dimensions

6. Engineering Reports, Schedules and Calculations**6.1 Engineering Reports and Specifications**

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
6.1.1	MEP Design Report	16	A4		x	x		Explain Design Intent Parameters and consideration Design criteria
6.1.2	Fire Strategy Report	16	A4		x	x		Fire strategy and recommendation by Fire Consultant, Licensed house of Expertise by ADCD
6.1.3	MEP Technical Specifications	16	A4		x	x		
6.1.4	Acoustic Report	16	A4		x	x		Signed report by independent Acoustic Engineer to confirm compliance with the HFG

6.2 Engineering Calculations

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
6.2.1	HVAC Heat Load	16	A4		x	x		Compliance to Approved/Recommended Code and Guidelines
6.2.2	Water Demand, Boiler and Calorifier Sizing	16	A4		x	x		Compliance to Approved/Recommended Code and Guidelines
6.2.3	Major HVAC and Public Health Pump/Equipment Sizing (Hydraulic)	16	A4		x	x		Compliance to Approved/Recommended Code and Guidelines
6.2.4	LP Gas Load	16	A4		x	x		Compliance to Approved/Recommended Code and Guidelines
6.2.5	Fire Services	16	A4		x	x		Compliance to Approved/Recommended Code and Guidelines - Fire Water Reserve, Fire Pump Capacity, Gas Fire Suppression Capacity etc.
6.2.6	Electrical Power and Lighting	16	A4		x	x		Compliance to Approved/Recommended Code and Guidelines

7. Engineering Drawings**7.1 HVAC Design Drawings**

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.1.1	HVAC Equipment Schedules	17	NTS		x	x	Acad	Equipment Description and Tags (Abbreviation) Equipment Locations Detailed Equipment Capacity (Flow Rate, Power, Voltage, Frequency, Head etc.)
7.1.2	HVAC System Riser Diagrams	17	NTS		x	x	Acad	Equipment and Duct/Pipe Description and Tags (Abbreviation) Detailed Duct Routing and Sizes Piping Routes and Sizes Major Valves, Dampers, Controls, Meters etc. Exact Equipment Quantities (FCU, AHU, FAHU) as per Design
7.1.3	HVAC System Design Plan Drawings	17	1/100		x	x	Acad	Key Plan Metric Dimensions of Duct and Pipes Sizes Equipment Description, Tags (Abbreviation), Capacity

							Optimized Duct and Pipes Routing Major Valves, Dampers, Controls, Meters etc. Coordinated Equipment Location Legends, Symbol and Abbreviations
7.1.4	HVAC Machine Rooms Plans and Sections	17	1/20 1/50		x	x	Acad Room/Shaft Description and Levels Metric Dimensions of Clear Ceiling Heights Double Line Plan and Section Equipment Description, Tags (Abbreviation), Capacity Metric Dimensions of Duct and Pipes Sizes Area/Room Identification
7.1.5	HVAC Main Shaft Sections, Major Crossovers	17	1/20 1/50		x	x	Acad Metric Dimensions of Clear Ceiling Heights Double Line Plan and Section Area/Room Identification
7.1.6	HVAC Standard Details, Symbols, Legends and Abbreviations	17	1/20 1/50 NTS		x	x	Acad Equipment Standard Control Assembly Standard Valve Assembly Standard FCU, AHU, FAHU, FANS Assembly Standard Sleeve and Lagging Details Standard Inertia Bases Standard Support, Hangers and Brackets details Standard HEX Installation Detail Standard Connection Details to Major Equipment Standard Pipe and Duct Penetration Details Standard Louvre and Damper Mounting Details HVAC Symbol and Abbreviations

7.1 HVAC Design Drawings - continued

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.1.7	Building Management System Diagrams	17	NTS		x	x	Acad	BMS Interface to Mechanical Equipment Signal/Alarm Monitor and Control Philosophy
7.1.8	Major HVAC Sequence of Operations	17			x	x	Acad	Major Equipment, Valves and Control Sequence of Operation

7.2 Public Health Design Drawings (Plumbing, LPG and Drainage)

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.2.1	Public Health Equipment, Manhole Schedules and Pipe Schedules	18	NTS		x	x	Acad	Equipment and Tanks Description and Tags (Abbreviation) Equipment and Tanks Locations Water Tank and Boiler/Calorifier Capacity Detailed Equipment Capacity (Flow Rate, Power, Voltage, Frequency, Head etc.) Manhole Schedule showing Cover Levels and Invert Levels Nominal Size to be used for Water Supply Pipes. Equivalent Commercial Pipe Schedule to be Shown
7.2.2	Public Health System Riser Diagrams including Treatment/Filtration and Solar Heating (If any)	18	NTS		x	x	Acad	Equipment and Pipe Description and Tags (Abbreviation) Optimized Pipe Routing and Sizes Major Valves, Controls, Meters, WHA etc. Detailed Equipment Quantities (Pumps, Tanks, Boilers, Heaters, Interceptors, Treatment System) as per Design Drawings Bathroom Group Water Supply and Drainage Connection Detailed Schematic Showing Fixture Connections Riser Numbers (Description)
7.2.3	Public Health System Design Plan Drawings	18	1/100		x	x	Acad	Key Plan Metric Dimensions of Pipes Sizes Equipment Description, Tags (Abbreviation), Capacity Pipe Routing and Sizes Detailed Valves, Controls, Meters, Flexible Connectors, Drains, Manholes, SGT, Interceptor etc. Coordinated Equipment/Plant Room Location Legends, Symbol and Abbreviations Pipe Slopes and Invert Levels
7.2.4	Public Health Major Pump Room Plans and Sections	18	1/20 1/50		x	x	Acad	Metric Dimensions of Clear Ceiling Heights Double Line Plan and Section Equipment Description, Tags (Abbreviation), Capacity Metric Dimensions of Pipes Sizes Area/Room Identification
7.2.5	Public Health Major Shaft Sections and Wet Area Blow Up Plans	18	1/20 1/50		x	x	Acad	Metric Dimensions of Clear Ceiling Heights Area/Room Identification Blow Up for Typical Wet Areas (Toilet, Wash Room, Kitchen etc.) Detailed Pipe Sizes, Valves, Slopes etc.
7.2.6	Public Health Standard Details, Symbols, Legends and Abbreviations	18	1/20 1/50 NTS		x	x	Acad	With Dimension Standard Control Assembly Standard Valve Assembly Standard Pump, Heater, Tanks Connections Assembly Standard Sleeve and Lagging Details Standard Inertia Bases Standard Support, Hangers and Brackets details Standard HEX Installation Detail Standard Connection Details to Major Equipment and Sanitary Wares Standard Pipe Penetration Details Standard Pump Pit (Submersible) details Standard Drains and Manhole Installation details Public Health Symbol and Abbreviations
7.2.7	Major Public Health Sequence of Operations	18			x	x	Acad	Major Equipment, Valves and Control Sequence of Operation for Water Cooling Major Equipment, Valves and Control Sequence of Operation for Solar Water Heating (If any)

7.3 Fire Fighting Design Drawings

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.3.1	Fire Fighting Equipment Schedules	19	NTS		x	x	Acad	Equipment and Tanks Description and Tags (Abbreviation) Equipment and Tanks Locations Fire Water Tank Capacity Detailed Equipment Capacity (Flow Rate, Power, Voltage, Frequency, Head etc.)
7.3.2	Fire Fighting System Riser Diagrams	19	NTS		x	x	Acad	Equipment and Pipe Description and Tags (Abbreviation) Detailed Pipe Routing and Sizes Major Valves, Controls, FHC, FHR, Hydrants etc. Detailed Equipment Quantities (Pumps, tanks, FHC, Hydrants) following Design Drawings
7.3.3	Fire Fighting System Design Drawings	19	1/100		x	x	Acad	Key Plan Sprinkler Zoning Key Plan (applicable for building exceeding 4831m² floor area) Metric Dimensions of Pipes Sizes Equipment Description, Tags (Abbreviation), Capacity Major Valves, Controls, Fire Extinguishers, FHC, Sprinklers, Gas Spray Nozzles etc. Coordinated Equipment/Pump, Breaching Inlet and Gas Suppression Cylinder (for Electrical and Communication Rooms) Location Legends, Symbol and Abbreviations

7.3 Fire Fighting Design Drawings - continued

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.3.4	Fire Fighting Major Pump Room Plans and Sections	19	1/20 1/50		x	x	Acad	Metric Dimensions of Clear Ceiling Heights Double Line Plan and Section Equipment Description, Tags (Abbreviation), Capacity Metric Dimensions of Pipes Sizes Area/Room Identification
7.3.5	Fire Fighting Major Shaft Sections and Blow Up Plans	19	1/20 1/50		x	x	Acad	Metric Dimensions of Clear Ceiling Heights Area/Room Identification Detailed Pipe Sizes, Valves etc.

7.4 Medical Gas Design Drawings

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.4.1	Medical Gas Equipment Schedules	20	NTS		x	x	Acad	Medical Equipment and Cylinder Description and Tags (Abbreviation) Medical Equipment and Cylinder Locations Optimized Medical Equipment Capacity (Flow Rate, Power, Voltage, Frequency, Head etc.)
7.4.2	Medical Gas System Riser Diagrams	20	NTS		x	x	Acad	Equipment and Pipe Description and Tags (Abbreviation) Pipe Routing and Sizes Major Valves, Controls, Alarms, Terminal Units, Remote Switch, Alarm Switch etc. Exact Equipment Quantities (Gas Cylinders, Vacuum etc.) as per Design Drawings
7.4.3	Medical Gas System Design Plan Drawings	20	1/100		x	x	Acad	Key Plan Gas Zoning Key Plan Number and Description of Outlets Metric Dimensions of Pipes Sizes Equipment Description, Tags (Abbreviation), Capacity Combined Medical Gas Pipe Routing Major Valves, Controls, Alarms, Terminal Units, Remote Switch, Alarm Switch etc. Coordinated Medical Equipment/Pump Room Location Legends, Symbol and Abbreviations
7.4.4	Medical Gas Major Pump Room Plans and Sections	20	1/20 1/50		x	x	Acad	Metric Dimensions of Clear Ceiling heights Double Line Plan and Section Equipment Description, Tags (Abbreviation), Capacity Metric Dimensions of Pipes sizes Area/Room Identification
7.4.5	Medical Gas Major Shaft Sections and Blow Up Plans	20	1/20 1/50		x	x	Acad	Metric Dimensions of Clear Ceiling Heights Area/Room Identification Blow Up for Typical Rooms
7.4.6	Medical Gas Standard Details, Symbols, Legends and Abbreviations	20	1/20 1/50 NTS		x	x	Acad	With Dimension Standard Control Assembly Standard Valve Service Installation Detail Standard Terminal Unit Installation Detail Standard Sleeve Details Standard Inertia Bases Standard Support, Hangers and Brackets Details Standard Remote and Alarm Switch Installation Detail Standard Connection Details to Major Medical Equipment Standard Pipe Penetration Details Medical Gas Symbol, Legends and Abbreviations
7.4.7	Major Medical Gas Sequence of Operations	20	N/A		x	x	Acad	Sequence of Operation for Medical Gas Supply Change-Over

7.5 Electrical Power Design Drawings

[illegible]

7.5 Electrical Power Design Drawings - continued

[illegible]

7.6 Electrical Lighting Design Drawings

[illegible]

7.7 Electrical - ELV Design Drawings

[illegible]

7.8 Telecommunication Design Drawings

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.8.1	Telecom Riser Diagrams	24	NTS		x	x	Acad	Structured Cabling Details with Telecom Room Details (Sizes and locations) All Cables Sizes Equipment Description and Tags (Abbreviation)
7.8.2	Telecom System Design Drawings	24	1/100		x	x	Acad	Key Plan Locations of all Telephone Outlets, Data Outlets etc. Equipment Description, Tags (Abbreviation), Capacity Coordinated Equipment Location Legends, Symbol and Abbreviations

7.9 Fire Alarm (FA) and Voice Evacuation (VE) Design Drawings

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.9.1	FA and VE Riser Diagrams	25	NTS		x	x	Acad	Detectors, Sounders and Speakers Description and Tags (Abbreviation) All Cables Sizes Control Panel Details and Locations
7.9.2	FA and VE System Design Drawings	25	1/100		x	x	Acad	Key Plan Locations of all Detectors, Sounders, Speakers, Control Panels etc. Equipment Description, Tags (Abbreviation), Capacity Coordinated Equipment Location Legends, Symbol and Abbreviations

7.9 Fire Alarm (FA) and Voice Evacuation (VE) Design Drawings - continued

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.9.3	FA and VE Standard Details, Symbols, Legends and Abbreviations	25	1/20 1/50 NTS		x	x	Acad	With Dimension FA and VE Symbol and Abbreviations Typical Mounting Detail for Detectors Typical Mounting Detail for Manual Pull Station Typical Mounting Detail Sounder/Flashers

7.10 Lightning Protection Design Drawings

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.10.1	Lightning Protection Riser Diagrams	26	NTS		x	x	Acad	Down Conductor Details Conductor Sizing and Routing
7.10.2	Lightning Protection System Design Drawings	26	1/100		x	x	Acad	Key Plan Locations of all Strike Pads, Copper Tape, Lightning Rods etc. Equipment Description, Tags (Abbreviation), Capacity Coordinated Equipment Location Legends, Symbol and Abbreviations Earth Pit Locations
7.10.3	Lightning Protection Standard Details, Symbols, Legends and Abbreviations	26	1/20 1/50 NTS		x	x	Acad	With Dimension Lightning Protection Symbol and Abbreviations Down Conductor Detail for Curtain Wall Building Typical Earth Pit Detail Typical Earth Bar Detail

7.11 Nurse Call

No	Item	Part	Size	T/S	Hard copy	PDF	Soft copy	Comments
7.11.1	Nurse Call Systems Schematic Diagram	27	NTS		x	x	Acad	System's Components with Descriptions and Locations Power Requirement Details Interfacing with other Systems - Details Specific Requirements, if any
7.11.2	Nurse Call System Design Drawings	27	1/100		x	x	Acad	Key Plan Locations of Switching/ Coordinated Equipment Locations Power Requirements/ Interfacing Details Equipment Description, Tags (Abbreviation), Capacity Coordinated Equipment Location Legends, Symbol and Abbreviations

8. Compliance Declaration

We, the undersigned, have compiled the Detailed Submission and confirm the Submission is complete and matches SHCC's requirements as set out above. We also confirm the design is in compliance with the Standards and Guidelines. Where compliance with the Submission requirements and/or with the Standards and Guidelines was not achieved, these non-compliances were listed in the Non-Compliance Reports (Item 1.8 and 1.9).

Standards and Guidelines for the Detailed Submission:

Health Facility Guidelines - Part A to E
Americans with Disabilities Act 1994 (relevant sections)
Civil Defence Authority Manual UAE
National Fire Protection Association 99
ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers) - Inc. HVAC Design Handbook
SMACNA (Sheet Metal and Air Conditioning Contractors' National Association) - Design Handbook
DW 144 - Specification for Sheet Metal Ductwork
DW 171 - Standard for Kitchen Ventilation Systems
ARI (Air-Conditioning and Refrigeration Institute)
CIBSE (Chartered Institution of Building Services Engineers)
IOP (Institute of Plumbing) - Plumbing Engineering Services Design Guide
ASPE (American Society of Plumbing Engineers) Design handbook
IPC (International Plumbing Code)
AWWA (American Water Works Association)
ASTM (American Society for Testing and Materials)
NFPA (National Fire Protection Association)
UL (Underwriters' Laboratories, Inc.)
HTM 02 (Health Technical Memorandum 02) Medical Gas Design Guide - Part 1 and 2
RSB (Regulation and Supervision Bureau)
UPC-AD (Uniform Plumbing Code of Sharjah Emirate)
ADCD Fire Code and Latest Circulars and Memorandums
ADWEA (Sharjah Water and Electricity Authority) Guidelines
ADSSC (Sharjah Sewerage Services Company) Guidelines
Wiring Regulations for Electrical Installations (IEE 17th Edition), published by the Institution of Engineering and Technology (BS 7671)
CIBSE Design Guides A, D, E, F, H, K and L
BS 5266 and NFPA 70 - Emergency Lighting
BS 5839(p8) - Voice Alarm System in Buildings
BS EN 60849 - Sound Systems For Emergency Purposes
BS EN 62305:2006 - Protection of Structures Against Lightning
BS 7430 and BS 7671 - Earthing
NFPA 72 - National Fire Alarm Code
NFPA 101 - Life Safety Code

We, the undersigned, further confirm the following design aspects were specifically verified against compliance with the Health Facility Guidelines. We confirm they are in compliance:

Infection Control
Specifications of Finishes

Architect of Record:

Signed:

Organization:

Prequalification Number:

Name:

Position:

Date:

Specialist Health Facility Planner:

Signed:

Organization:

Prequalification Number:

Name:

Position:

Date:

6. Compliance Declaration - continued

Engineer of Record:

Signed:

Organization:

Prequalification Number:

Name:

Position:

Date:

For SHCC office use only:

Signed:

Stamp:

SHCC confirms the Detailed Submission was received and verified. In terms of completeness and formatting, the Submission was found to be:

☐

Accepted (1)

☐

Accepted with comments (2)

☐

Rejected with comments

Comments:

Name SHCC Officer:

Date:

- Notes
- (1) Although SHCC may accept the Submission, while testing the Submission against the HFG, additional information may be requested to allow the process to continue. The Applicant is to provide this within a set time frame, as determined by SHCC.
 - (2) If minor discrepancies are picked up when submitting, at the SHCC officers discretion, SHCC may accept the Submission but will list a request for additional information. The Applicant is to provide this within a set time frame, as determined by SHCC.