

Delivering the Healthcare of the Future







THE COMPANY

TAHPI offers comprehensive specialized services for Healthcare projects, including:

- Medical Equipment Scheduling and Specification
- Medical Equipment Tendering
- Medical Equipment Inspections and Certification
- Medical Equipment Maintenance
- HIS Software Integration
- · Health Services Planning
- Facility Standards and Guidelines
- · Briefing and Medical Planning
- · Architectural and Interior Design
- Health Technology Planning
- Mechanical, Electrical, Public Health & Fire Services
- Project Management

Our services are uniquely scalable to suit our clients needs - from single project to system - wide application.

TAHPI specialist staff bring deep experience, expert knowledge and skills in all planning disciplines to address the complexities of delivering healthcare projects.

Close partnerships with governments, public and private enterprises contribute to our well-grouned and evergrowing reputation worldwide.

MEDICAL EQUIPMENT PLANNING

Healthcare Equipment Planning is a specialized process and requires not only a clear understanding of the clinical need but also an intricate knowledge of budgeting, architectural design and building process.

Effective project planning can only be achieved through a successful team process. This cohesive team generally consists of user groups, project managers, architects and other associated healthcare planners such as equipment planners, whose responsibility is to balance the requirements of the clinical users and their clients against available healthcare technology, budgetary targets and the realities of the design and construction process.

EQUIPMENT PLANNING PROCESS

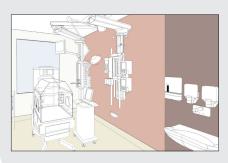
MEDICAL EQUIPMENT PLANNING

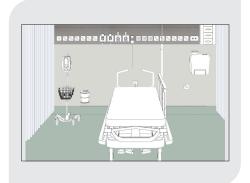
EQUIPMENT TENDERING

PROCUREMENT >

INSTALLATION & COMMISSIONING





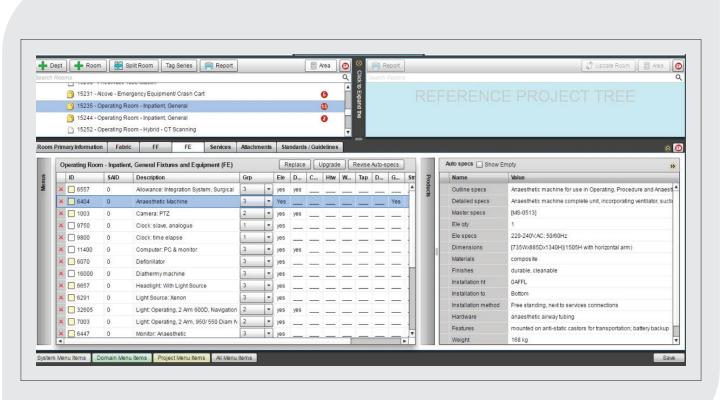


LONG TERM MAINTENANCE SERVICES

EQUIPMENT PLANNING

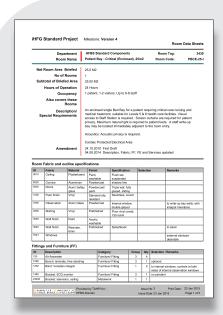
A high level department by department Medical Technology report details the types and complexity of the medical equipment technology intended to be used to meet the project's current and future requirements.

Once the medical equipment requirements are determined, detailed room by room Equipment Schedule, Bill of Quantity report and Budget Estimate are developed. The equipment schedule is used later to verify any room dimensional deficiencies, provide Medical Gas Schedule as well as Mechanical, Electrical and Plumbing Schedule.

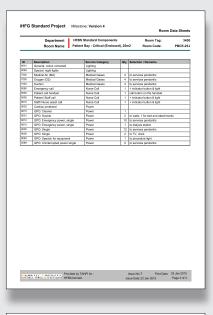


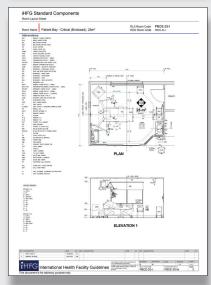
TAHPI's HFBS Software for Equipment Planning

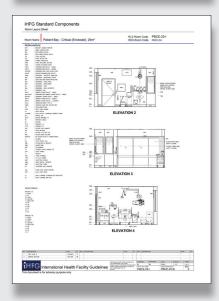
Room Data Sheets (RDS) & the Room Layout Sheets (RLS) for all clinical rooms are developed.

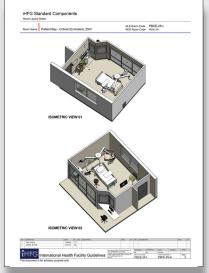


			Standard Components Bay - Critical (Enclosed), 25m2							Roo	PBCE			
ID	Description		Category C					Qt		Selection / Remarks				
2200	Chair: rediner			e/ Fitting		\perp	3	1	pa	patient - intermittent use			use	
2610	Chair: visitor, stackable		Furniture/ Fitting				3	1	┺					
4500	Curtain track: bed screen		Metalwork .			4	1	1	╄					
5000	Curtain: bed screen		Furniture/ Fitting			4	3	1	╄					
5030	Dispenser: antiseptic hand rub		Furniture/ Fitting				2	1	╄					
6162	Disparser: disposable glove		Furniture/ Fitting						1 near entry					
6153	Dispenser: moisturiser		Furniture/ Fitting						1 optional					
9154	Disperser: peper/hand towel		Furniture/ Fitting						1 to basin					
6156	Dispenser: scap		Furniture/ Fitting				5	1		to basin				
G158	Dispenser: soap antiseptic		Furnitural Fitting				2	1	to basin					
12300	Linen carrier: dirty, single		Furniture/ Fitting				3	1	1					
16050	Oxygen flowmeter		Furniture/ Fitting				3	4						
19700	Sharpe bin		Furniture/ Fitting				3	1		mounted on trolley				
20000	Shelving unit: adjustable		Furniture/ Fitting				1	1		near basin				
21700	Stool: adjustable, mobile, high		Furniture/ Fitting			4	3	1	for	for staff				
22000	Suction bottle		Furniture/ Fitting			4	3	4						
22060	Suction bottle carrier		Furniture/ Fitting			4	3	1	mobile					
16290	Table: overbed		Furniture/ Fitting			_	3	- 1	_					
23660	Trolley		Furniture/ Fitting			4	3	1	┺					
24125	Waste birc clinical		ture/ Fitting		4	3	- 1	_						
24100	Waste birc paper, 20 Litre		Furniture/ Fitting				3		1 to basin					
24400	Whiteboard	Fumi	Furniture/ Fitting				2	1 800 x 600						
	s, Equipment and associated													
ID	Description			Ele	Data		HtW				Gar		tion / Remarks	
3100	Basin scrub, Type A	1	1	-	_	yes	_	yes	yas	yes.	_	refer t	o BHWS-A (sirr	
3730	Bed: ICU, electric	3	1	yes	_	_		_	_	_	┕	_		
9700	Clock analogue, electric	1	1	yes	_	_	_		_				r clock system	
15585	Dialysis station	1	1	L	_	yes		yes	yes	yes	Ŀ		O water outlet i h drain	
32150	Light procedure, ceiling	1	1	yes	_	_	_		_	_	_	_		
36060	Monitor: cardiac	3	1	yes	opt	-	-	_	_	-	-	on see	vices pendant	
47(68	Services pendant: 2 arm, height adj	1	1	yes	yea		-	_	_	-	-	1		
54523	Telephone: handset, handshee	3	1	-	yes	-	-		_	-	-	wall p		
aust	Television: flat screen	3	1	y25	_	_			_	_	_	oeiling	mounted	
Servio	es													
100	Description		Service Category					Sale	ction	/Re	mark			
1120	Monitor connection facilities and cabling	Come	Communications											
1000	Telenhore PARX	Come	Communications				1	wall	Mino	hone	-			
1090	TV: MATV		Communications					1.00			_			
1006	Voice / Data outlet: double		Communications					50 W	ed.	_	_			
1006	Voice / Data outlet: double		Communications					to services pendent/s						
5000	Airconditioning		HVAC					1						
	ETT PACILITY Provided by T	AHP1 for						Issue	No:3			Print Da	ris: 23 Jan 20 Page 2 o	





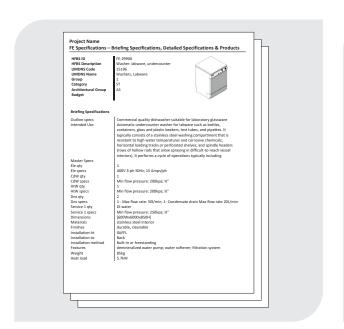




Room Data Sheets and Room Layout Sheets Created on TAHPI HFBS Software Platform

EQUIPMENT TENDERING

This phase looks into collecting all documentation required for a successful tender. Medical equipment technical specifications and a list of top three manufacturers per equipment are developed for the items to be procured. Warranty & training requirements, detailing the number of trainees, type of training and their duration and location for all equipment are identified as well.





PROCUREMENT

Purchase Orders (PO) and Procurement/ Delivery schedules are prepared taking into account the equipment lead times, Architectural/ Mechanical/Electrical/Plumbing impact and the construction progress.

DELIVERY, INSTALLATION & COMMISSIONING:

Delivered equipment are assessed against the purchase orders and a record of deliveries detailing outstanding, noncompliant and accepted deliveries is kept for reference. Requisition numbers are issued in compliance with the current site asset management system.

Supervision over installation and commissioning takes place with proper documentation for each equipment kept on record, to ensure an effortless and smooth handover to the client.

RECENT PROJECTS

COMPREHENSIVE CANCER CENTRE AT SULTAN QABOOS UNIVERSITY, MUSCAT, OMAN

The Sultan Qaboos Comprehensive Cancer Center (SQCC) will provide comprehensive and contemporary cancer services to Oman's growing population. It is envisaged that this centre is to be a state of art world class facility for diagnosis, treatment, research and training of healthcare practitioners. It is the vision of the Government of Oman that the facility is to include only the best specialised services and equipment. The center will be constructed in two phases to accommodate the immediate, medium term and long term cancer care requirements of the population of Oman. Phase I will consist of a 105 bed cancer care facility.

The TAHPI Equipment Planning team has worked on:

- Medical Equipment Planning
- Budget Analysis
- Room Data Sheets
- Room Layout Sheets
- Technical Specifications
- · Medical Equipment Tender Review
- Medical Equipment Procurement

NEURO SPINAL HOSPITAL AND RADIOSURGERY CENTER (NSRC), DUBAI, UAE

The Neuro Spinal Hospital (NSH) is a 39 beds premier neurosciences facility founded in 2002. This tertiary healthcare is recognized as a referral center for the region. The owners have made the decision to invest in a new 100 beds world-class Neuro Spinal Hospital and Radiosurgery Center (NSRC). The facility will occupy approximately 295,500 square feet of built up area comprising of four floors providing emergency, inpatient, outpatient, allied health, diagnostic, administrative, support, and education services.

TAHPI MEQ team is assisting a smooth transition from NSH to NSRC

- Medical Equipment Planning Review
- Medical Equipment Move Schedule
- Medical Equipment Component of the Transition Plan

GOZO HOSPITAL EXPANSION, GOZO ISLAND, MALTA

The project consists of four construction components on the island of Gozo, on the grounds of the existing Gozo General Hospital. The Barts College School of Medicine (5,708 sq.m), demolition of the geriatric care at the Gozo General Hospital, new construction and additions to the Gozo General Hospital (18,400 sq.m), a new R&D facility (approx. 2,000 sq.m), and refurbishment within the existing hospital (14,727 sq.m).

The TAHPI Equipment Planning team has worked on:

- · Medical Equipment Planning
- Room Data Sheets
- Room Layout Sheets in Beam Modeling
- Technical Specifications
- · Medical Equipment Tender Review
- Medical Equipment Procurement
- Installation & Commissioning

PANTAI HOSPITAL AYER KEROH, MELAKA, MALAYSIA

The existing 227 bed Pantai Hospital Ayer Keroh intends to embark on a 154 bed expansion project which entails a comprehensive and fully integrated healthcare services platform on the adjacent land measuring 2.4 acres.

The TAHPI Equipment Planning team has worked on:

· Medical Equipment Planning

Tata Trust Cancer Care Centers

TAHPI has been engaged to design as per International standards. The facility is designed as a Day Surgery Centre with 2 Operating Theatres and an Endoscopy suite, along with 75 specialty Consult rooms. The new facility will also feature Medical Imaging and Laboratory services required for the Outpatient Unit. The building is conceived as a high-tech Modular hospital, using new and unique techniques of prefabrication.

TAHPI is implementing unique medical planning and modular design techniques to create 3 prototypes (L1, L2 and L3) which will cater to 3 levels of care and services.

The largest category which falls under the L1 prototype is envisaged as a state of the art center and Radiation hub with 20 linear accelerators which will be the first of its kind in India.

The TAHPI Equipment Planning team has worked on:

- Medical Equipment Planning
- · Room Data Sheets
- Room Layout Sheets

Outpatient Clinics Building - Dubai Hospital

Dubai Hospital has embarked on an extensive expansion of its Outpatient Services. Phase 1 will consist of a multi-story service building and Phase 2 consists of the development of the new Clinical Building for delivery of the outpatient services, replacing the current outpatient services.

New Clinical Building is multispecialty center with state-of-the-art facilities and is designed as per international standards. It consists of nearly 150 clinics of diverse specialties with associated clinical support areas and provision for vertical expansion of two floors.

- Medical Equipment Planning
- Budget Analysis
- · Room Data Sheets
- Room Layout Sheets
- · Technical Specifications

Aman Hospital, Qatar

Aman Hospital is a premier Private Hospital in Doha specializing in Woman and Children, it's a 100-bed hospital with an internal space of 44,000 sqm. The facility includes 8 Operating Theatres, ICU, NICU, IVF, full service Medical Imaging and various clinics for a variety of service lines including a SPA and Cosmetics Plastic Surgery and Dentistry Clinic.

The TAHPI Equipment Planning team has worked on:

- · Medical Equipment Planning
- Budget Analysis
- Room Data Sheets
- Room Layout Sheets
- Technical Specifications

GKNM Hospital- Outpatient Block, Coimbatore

This facility is designed as a Day Surgery Centre with 2 Operating Theatres and an Endoscopy suite, along with 75 specialty Consult rooms, the facility also features Medical Imaging and Laboratory services required for the Outpatient Unit. The building is conceived as a high-tech Modular hospital, using new and unique techniques of prefabrication.

- Medical Equipment Planning
- Room Data Sheets
- Room Layout Sheets

Sheikh Khalifa Central Hospital, UAE

The hospital has been made to hold growth from the initial 205 beds to an optimal amount of 300 beds, 24 hours service to patients, 11 specialized departments, outpatient clinics and a 32-bed emergency ward, 3-storey rehabilitation center housed in a separate building and 673 parking spots.

The hospital has a Trauma and Accident Department (ER), Inpatient Wards, Intensive Care Units (ICU), Department of Maternity and Premature Delivery, Department of Burn Unit, Department of Surgical and

Internal Medicine, Radiology Department, Laboratory and Blood Bank Department, Department of Anesthesiology and Recovery Department, Operations Theatre Department, Cardiac Catheter Department, Endoscopy / Cystoscopy Department, Supporting Service Departments, and Outpatient Clinics.

The TAHPI Equipment Planning team has worked on:

- Medical Equipment Planning Review
- Room Layout Sheets Review

AKUH HOSPITAL, KAMPALA, UGANDA

The Government of Uganda provided the Aga Khan University with land of sixty acres in central Kampala for the establishment of a 500–600 bed tertiary teaching hospital. The hospital will be of international standard providing specialty care in several disciplines. It will also be a training site for doctors, nurses, and other health professionals. Thus at full development, the site will consist of a Hospital and Health Sciences' Campus. The campus will be developed in phases of which the initial phase known as the Launch Phase will consist of approximately 85 beds.

- Medical Equipment Planning
- Budget Analysis
- · Room Data Sheets
- Room Layout Sheets
- Technical Specifications
- Medical Equipment Tender Review

NEW DUBAI GYNAECOLOGY AND FERTILITY CLINICS, DUBAI, UAE

Due to the expansion of the Dubai population, the existing DHA Dubai Gynaecology and Fertility Center will be transferred to a new facility within Latifa Hospital. The IVF facility will be equipped with state-of-the-art technology equipment within the IVF laboratory, operating theaters, ultrasound department and day ward.

- Medical Equipment Planning
- Room Data Sheets
- Room Layout Sheets
- Technical Specifications

TAHPI
Suite 401, Level 4, Building 25
Dubai Healthcare City, P.O. Box 27801
Dubai, United Arab Emirates

Phone: +971 4 4281348 Email: meq@tahpi.net www.tahpi.net