

GETTING
BETTER
TOGETHER



EQUIPMENT
PROSPECTUS

2018

C.S.S.D. Central Sterilization Services Department



QUEEN
ELIZABETH
HOSPITAL





It is my pleasure to invite our valued partners to participate in this innovative initiative, the 4th edition of our Equipment Prospectus designed to raise capital funds for the Queen Elizabeth Hospital. Since its inception 6-years ago, we have raised in excess of \$12M towards major projects such as the upgrade to the Medical and Surgical Intensive Care Units, outfitting of the Cardiac Suite and the Clara Brathwaite Centre for Oncology and Nuclear Medicine and the purchase of medical and diagnostic equipment for use by many departments across the hospital. On behalf of the Board of Management, we wholeheartedly thank our many past donors - resident and non-resident, individual and corporate, the Diaspora, in and out-patients, well-wishers, and Non-Governmental Organizations - for their ongoing financial contributions in assisting us in keeping our healthcare plant up to date. Every dollar contributed has been well spent and allowed the hospital to maintain an acceptable standard of patient safety and quality of care. Your financial support has undoubtedly contributed to the QEH's attainment of the 'Gold' standard of accreditation by Accreditation Canada Inc., an international credentialing body for hospitals.

LAUNCH OF EQUIPMENT PROSPECTUS IV

Upgrading of the National CSSD – “Too big to fail”

In this year's edition of the prospectus, the focus is on raising capital contributions towards a major upgrade to our sterilization services. The Central Sterilization Services Department (CSSD), is that service within the hospital in which medical/surgical supplies and equipment, both sterile and non-sterile, are cleaned, prepared, processed, stored and issued for patient care. This major upgrade will involve a move towards centralizing of services and re-engineering the major functions of decontamination, assembly and sterile processing, sterile storage, and distribution, which are currently done at multiple locations across the hospital.

In the *decontamination area*, reusable equipment, instruments and supplies will be cleaned and decontaminated by means of manual or mechanical cleaning processes and chemical disinfection. Clean items will then be transported from the decontamination area to the *assembly and packaging area*, assembled and prepared for issue, storage or further processing (such as sterilization). After assembly or sterilization, items will be transferred to the *sterile storage area* until it's time for them to be issued. Several major functions are expected to be carried out in the *distribution area*: case cart preparation and delivery; exchange cart inventory, replenishment and delivery.

This move towards centralization of services was borne out of the findings and recommendations from our international accreditation process and the need to observe international best practices.

As the lone tertiary care facility in the country, the risk of a non-functioning sterilization function could potentially bring all surgical interventions to a halt. Needless to say, if such an event were to occur this would likely have catastrophic consequences. Therefore, in the context of the country's public health system, this initiative is considered, '*too big to fail*'.

While the main focus of this prospectus is designed to raise funds towards the central sterilization services, the QEH continues to be faced with many unmet needs. The need to keep abreast of medical technology, technology refresh to replace obsolete equipment and equipment nearing end of life are all real factors that pose a challenge that could potentially lead to a major disruption of services. There continues to be the need for critical care equipment such as cardiac monitors, ventilators, infusion pumps, vital signs monitors, ECG machines and surgical equipment including anaesthetic machines, surgical tables and surgical microscopes. The patient-care experience could be enhanced through major upgrades to our private rooms and labour and delivery suites. Donors can also participate in the 'Adopt-A-Ward Project' introduced last year.

In aggressively pursuing hospital philanthropy as one modality for raising much needed capital funding, the Board will also take this opportunity to re-activate the QEH Board Trust. This Trust was registered under the Charities Act Cap. 243 in November 2005 and is a special purpose vehicle established to

The Central Sterilization Services Department (CSSD)

raise funds from the public and private sector to support the capital development needs of the hospital. The Trust will leverage its tax exempt status to invite donations from persons of high net worth, the Diaspora, the private sector and ordinary citizens, who may wish to exploit this taxable benefit. This means that every dollar donated towards this cause is 100% deductible for tax purposes; and all funds received will be 'Restricted' for use towards this project.

In closing, we look forward to your active participation in this initiative as we continue to modernize and improve the operational efficiency of the hospital's sterilization services which would ultimately lead to improved safe surgical practices.

Be a part of this national effort and social responsibility as we continue "Getting Better Together".

Welcome aboard!!

The Central Sterilization Supplies Department (CSSD), of the Queen Elizabeth Hospital (QEH) is responsible for the processing, sterilization and quality control of all sterile supplies and equipment used on patient care units. In addition to the supply of the hospital's sterile supplies and equipment, the CSSD is also responsible for the provision of sterile instruments to governmental healthcare institutions under the Ministry of Health and Wellness, as well as several private sector entities. This makes the department vital to the continued provision of safe, high quality, patient-centred care to Barbados' citizens.

An important measure to mitigate against the spread of diseases, is the requirement that all medical supplies, such as instruments, supplies, drapes etc., which are used on open wounds or will be in contact with the inner fluids of the body, are free of any viable micro-organisms. This means, these items must be sterile. When purchased, some of these materials are sterilized at the factory and

are designed for single use. However, many instruments used for medical interventions are very expensive and are designed in a manner that they can be re-used. To this end, the CSSD provides a high-quality reprocessing cycle in which used materials are treated in a manner to be reused safely. Therefore CSSD plays an essential role in the reduction of the spread of diseases within Barbados' healthcare sector.

The Department has recently undergone a major restructuring process to improve policies, standardize processes, and establish further staff training strategies and opportunities. Under the leadership of the Infection Prevention and Control Department (IPCD), the CSSD Manager and team remain steadfast to the Department's mandate of providing the highest quality service. The Department continues to work closely with the Operating Theatre Manager, and the Department of Engineering to provide the best possible quality of patient care.



Equipment Needs

The Central Sterilization Services Department (CSSD)



Computerized Tomography (CT)

A computerized tomography (CT) scan combines numerous X-ray images to create an in depth cross-sectional view (slices) of the anatomy inclusive of bones, blood vessels and soft tissues. CT scan images provide more detailed information than average X-rays would, hence its importance as a diagnostic tool.

A CT machine has many uses, but it is most useful to quickly image patients who may have internal injuries or other types of trauma. It can be used to provide detailed images of most parts of the body for diagnostics of disease or injury as well as to plan medical, surgical or radiation treatment.

Estimated Cost: \$3,000,000 BBD **Quantity needed:** 1

Neurosurgical Microscope

A neurosurgical microscope is a surgical microscope specifically configured for brain, and spinal applications. A surgical microscope is an optical instrument that provides the surgeon with high quality magnified and illuminated images of the microscopic structures in the surgical field. It comes equipped with foot controls to allow freedom of arm movement, as well as to maintain sterility.

This tool is essential to the surgeon to visualize intricate structures in the brain and spine to ensure precision during surgery.

Estimated Cost: \$700,000 BDS **Quantity needed:** 1



Surgical Instruments Set

The Queen Elizabeth Hospital's Operating Theatres is in need of a set of surgical instruments to allow surgeons to adequately carry out various surgical procedures.

Estimated Cost: \$4,000,000 BDS **Quantity needed:** 1

Radiotherapy Treatment Planning System

A radiotherapy treatment planning computer system (TPS) is an indispensable tool for the delivery of specialized radiotherapy treatment to oncology patients. The TPS allows for the tumour and healthy tissue volumes to be accurately localized and the optimal treatment technique devised to treat individual patients. An optimal treatment technique is one that delivers the prescribed radiation dose uniformly to the tumour volume whilst minimizing radiation doses to normal surrounding tissues/organs.

Estimated Cost: \$540,000 BDS **Quantity needed:** 1

UROLOGY EQUIPMENT

The QEH's Urology Department is in need of several pieces of specialised equipment such as:

- Cysto-Urethro Fiberscope
- Sachse Knife (6pkgs)
- Sachse Urethrotome Sheath 21 FR

Estimated Cost: \$400,000 BDS

X-Ray Machine

Radiography is the most common form of medical imaging for diagnostic purposes. A controlled beam of radiation is used to penetrate the anatomical location being imaged, which creates a detailed picture of the inside of your body. It is a quick, painless test to visualize internal structures particularly bones.

This diagnostic method is used as the first line to identifying many conditions such as breaks and fractures, foreign objects in the body and certain infections to name a few. This is the general form of diagnostic imaging.

Estimated Cost: \$500,000 BDS **Quantity needed:** 1



Ultrasound Machine with Transducers and Printer

An ultrasound machine, also called a sonography machine, uses sound waves to develop ultrasound images of what's going on inside of the body. Ultrasound imaging has many uses in medicine, from confirming and dating a pregnancy to diagnosing certain conditions and guiding doctors through precise medical procedures. Doctors employ ultrasound imaging in diagnosing a wide variety of conditions affecting the organs and soft tissues of the body, including the heart and blood vessels, liver, gallbladder, spleen, pancreas, kidneys, bladder, uterus, ovaries, eyes, thyroid, and testicles.

Estimated Cost: \$400,000 BDS each **Quantity needed:** 2

Echocardiogram Machines

An echo uses ultrasound (soundwaves) to create pictures or video to visualize the anatomy of the heart (heart's chambers, valves, walls and the blood vessels). It can be used to check the heart's rhythm and see how blood moves through the organ. An echocardiogram is an essential tool to assist the cardiologist with diagnosing heart conditions.

It is a painless noninvasive procedure that creates images or video to assist the cardiologist determining the size and shape of the heart as well the condition of the heart's chambers and valves.

Estimated Cost: \$375,000 BDS each **Quantity needed:** 2



Autoclaves

An autoclave is a pressure chamber used to sterilise equipment and supplies at high pressure saturated steam of 121 °C for approximately 15-20 minutes depending on the size of the load of the contents. The QEH is in need of two autoclaves. This acquisition would minimize the presence of bacteria, viruses and spores.

Estimated Cost: \$330,000 BDS each **Quantity needed:** 2

Digital X-Ray Plates

In the older versions of x-rays, film is used to capture the images of the internal anatomy. In this digital age, we currently use digitizers to transform these images from analog film to digital images to be analyzed by doctors and also can be stored in a patient database. Digital x-ray plates allow for the retrofitting of older x-ray film technology to direct digital which eliminates or provides redundancy to the digitizer. These digital plates also increase the efficiency in obtaining diagnostics as the images are immediately available for review by the requesting doctor

In the current work flow of the Radiology and X-Ray Department, all x-ray rooms use one digitizer with the exception of Accident and Emergency Department (which has its own digitizer), in the event of a breakdown of the digitizer this would cripple the operation of the department. This highlights the need for at least one room in radiology to be outfitted with digital plates to operate independently of the current workflow. An added bonus would be to outfit the Accident and Emergency Department with digital plates to increase the efficiency of that department as well.

Estimated Cost: \$300,000 BDS each **Quantity needed:** 2



Ear Nose and Throat (ENT) Microscope

An ENT microscope is specifically designed to perform microsurgery on the anatomical structures associated with the ears, nose and throat. It is an optical instrument that provides the surgeon with high quality magnified and illuminated images of the microscopic structures in the surgical field. It comes equipped with foot controls to allow freedom of arm movement, as well as to maintain sterility.

Estimated Cost: \$240,000 BDS

Quantity needed: 1



Anaesthetic Machine with Mindray Monitor

An anaesthetic machine is designed to provide an accurate, uninterrupted supply of medical gases (such as oxygen and nitrous oxide), in an accurate ratio mixture with a concentration of anaesthetic vapour (such as isoflurane), to the patient via inhalation at a safe and specific pressure and flow rate. Most modern machines also include the functions of a ventilator, suction unit, and patient monitoring.

Estimated Cost: \$180,000 BDS

Quantity needed: 3

Surgical Led Lamps

Quality lighting is essential for every operating room. Surgical lighting systems deliver cool, bright white light so the OR staff stays comfortable under the most demanding conditions. The high-quality LED operating lights provide natural colour rendition, excellent shadow control, and deep-cavity illumination, helping to provide the best possible patient outcomes.

Estimated Cost: \$140,000 BDS **Quantity needed:** 2





Operating Microscopes or Floor standing equivalent

An optical microscope enables a surgeon to perform microsurgery on delicate structures of the eye by magnifying the operating field by up to 40 times. Ophthalmic surgeons need the best visualization possible to be able to operate with the highest precision. The scope also allows for high resolution photography or video to be done, for teaching purposes.

Estimated Cost: \$140,000- \$400,000 BDS **Quantity needed:** 3

NEUROSURGICAL EQUIPMENT

- 2 craniotomy surgical instrument sets **Estimated Cost:** \$160,000 BDS each
- Electrical Neurosurgical Drill **Estimated Cost:** \$30,000 BDS
- Neurosurgical Operating Table **Estimated Cost:** \$80,000 BDS



Cardiopulmonary Bypass Machine (CPB)

The CPB system, also referred to as the heart lung machine performs the function of these two organs during major surgeries such as open heart surgery. Deoxygenated blood returning to the heart is channeled to this equipment where it is oxygenated (function of the lungs) and pumped to the arteries to perfuse the body (function of the heart). During this process, the temperature of the blood is also regulated to control the patient's body temperature.

This system is essential to control the vital operations of the body with sufficient safety as to preserve life during major surgical operations.

Estimated Cost: \$125,000 BBD **Quantity needed:** 1

Surgical Tables

The operating table is an essential part of any successful surgical procedure. Today, various types of surgical tables are available for basic operating requirements as well as specialized procedures. The most important function of the surgical table is to keep the patient in the best position possible for the particular surgical procedure and to allow the surgeon to make any necessary adjustments during the procedure without interfering with the operation.

Estimated Cost: \$90,000 BDS **Quantity needed:** 1



Incubators

An incubator provides precisely regulated environmental conditions for the safe care of premature or sick babies. It maintains temperature, CO₂, and oxygen at optimal levels to promote and maintain healthy conditions for the development of the baby.

Estimated Cost: \$80,000 BDS each **Quantity needed:** 9



Electroencephalogram

An electroencephalogram (EEG) detects the electrical activity of the brain using small, metallic electrodes connected to the head. The brain uses electrical impulses to communicate constantly, even during sleep. This activity is monitored by an EEG and shows up as wave's recordings on a graph.

An EEG is noninvasive and the traces of electrical patterns of the brain can be used to help diagnose conditions such as seizures, epilepsy, head injuries, dizziness, headaches, brain tumors and sleeping problems. It can also be used to confirm brain death.

Estimated Cost: \$80,000 BDS **Quantity needed:** 1

Bicycle Ergometers

Rehabilitation therapists utilise bicycle ergometers to test the fitness levels and evaluate patients who are suffering from various physical conditions caused by illness or accidents. The QEH's Rehabilitation Department is in need of a Bicycle Ergometers.

Estimated Cost: \$80,000 BDS **Quantity needed:** 1



Ventilator

A medical ventilator or mechanical ventilator, is designed to move breathable air into and out of the lungs. Ventilators provides oxygenated air to patients who are physically unable to breathe, or whose ability to breath is compromised.

Estimated Cost: \$50,000 BDS each **Quantity needed:** 25

Operating Chairs

There are two types of ophthalmic operating chairs, one designed for the patient having an operation and the other for the surgeon performing the operation. Both must be readily adjustable in terms of height and tilt to provide maximum comfort. The surgeon's operating chair must also be able to provide the necessary hand rest to assist the surgeon in maintaining a steady hand.

Estimated Cost: \$40,000-\$140,000 BDS **Quantity needed:** 2





Dialysis Machines

Used to replicate the function of the kidneys, dialysis machines filter the blood to remove excess water and buildup of waste products when the kidneys are damaged, or not functioning efficiently. It also assists with the regulation of the body's electrolyte and mineral levels. Dialysis machines are essential for persons with chronic kidney disease; and affords patients with diminished kidney function the chance to lead a somewhat normal life.

Estimated Cost: \$39,000 BDS each **Quantity needed:** 12

Sonic Washer

The QEH's CSSD is in need of a sonic washer. Sonic washing or ultrasonic cleaning is a process that uses ultrasound usually from (20-400 KHz) and cleaning solvent (sometimes ordinary tap water) to clean items. The ultrasound can be used with just water, but the use of a solvent appropriate for the item to be cleaned enhances the effect. Cleaning takes approximately three to six minutes, but can also exceed 20 minutes, depending on the object to be cleaned.

Ultrasonic cleaners are used to clean many different types of objects, including surgical items and lenses.

Estimated Cost: \$36,000 BDS **Quantity needed:** 1



Cardiac Monitors

The nature of heart disease in Barbados has changed and the number of cases being diagnosed has risen and continues to do so. With the move to expand the QEH's cardiac services through the establishment of the Cardiac Suite, a need exists for more cardiac monitors.

The cardiac monitor is a device that measures the vital signs as well as the electrical and pressure waveforms of the cardiovascular system for treatment. The monitor provides a visual indicator of most patient parameters. The basic parameters a cardiac monitor is capable of measuring are: electrocardiogram, blood pressure, intravascular pressures (invasive), cardiac output, arterial blood oxygen saturation, and temperature.

This is a basic and essential tool for patient analysis in the operating theatre and intensive care environment.

Estimated Cost: \$36,000 BDS each **Quantity needed:** 12



Transport Monitors

When patients are moved to a new location, it is vital that their monitoring information goes with them. The transport monitor provides uninterrupted monitoring so you can stay aware of the patient's condition even during transport.

The QEH is in need of two additional Transport Monitors to facilitate the quick and safe movement of patients throughout the hospital whilst maintaining critical monitoring of these patients.

Estimated Cost: \$36,000 BDS each **Quantity needed:** 2

Iridex Laser System

Lasers produce a concentrated continuous beam of light that can make a very small burn or opening in your eye tissue, depending on the strength of the laser beam. Laser surgeries have become important in the treatment of multiple eye problems and diseases. There are several types of laser surgeries used to treat glaucoma and keratoconus, which is a progressive eye disease in which the normally round cornea thins and begins to bulge into a cone-like shape.

Estimated Cost: \$30,000- \$50,000 BDS **Quantity needed:** 3



Infant Warmers

Infant (Radiant) Warmer devices help to maintain the body temperature and limit the metabolism of babies. The heat loss in some babies is rapid and these infant warmers provide an artificial support to keep the body temperature constant. In certain areas with very cold climates, babies are often kept on Radiant Warmers for a number of hours immediately after birth to ensure the stabilization of the infant.

Estimated Cost: \$24,000 BDS each **Quantity needed:** 4

Stretchers

A stretcher is an device to transport patients who require medical care. A wheeled stretcher is usually equipped with various height frames containing wheels, tracks or skids. Stretchers are primarily used in acute out-of-hospital care situations by EMTs, military or in search and rescue operations.

Estimated Cost: \$24,000 BDS each **Quantity needed:** 6



Labour and Delivery Beds

Estimated Cost: \$20,000 BDS each
Quantity needed: 7

Medicine Trolley for Emergency Drugs (Crash Cart with Defibrillator)

Used for the dispensing of emergency medication or the storage of mobile equipment in the case of cardiac arrest or some other serious medical event requiring emergency life support.

Estimated Cost: \$20,000- \$35,000 BDS **Quantity needed:** 6



Haag Streit Slit Lamps

The slit lamp is arguably the most essential tool for an eye exam. It uses high intensity light to illuminate the interior of the eye which alerts the physician to any diseases or abnormalities in the anterior or posterior portions of the eye, which includes the eyelids, lashes, lens, conjunctiva, cornea, iris, retina, sclera, and optic nerve. This device also assists in the diagnosis of macular degeneration, detached retina, cataract, trauma to the cornea, or blockages of the retinal vessels.

Estimated Cost: \$20,000-\$30,000 BDS **Quantity needed:** 4



Laryngoscopes

A laryngoscope (larynx + scope) is a medical device used to obtain a view of the vocal folds and the glottis, which is the space between the vocal cords. This investigation is conducted in two ways.

- Indirect laryngoscopy in which ENT specialists use mirrors to examine the larynx and hypopharynx, which is a portion of the passageway to the lungs and stomach.
- Direct laryngoscopy in which a special instrument, most often a flexible scope is used.

Estimated Cost: \$20,000 BDS each **Quantity needed:** 10



Lumbar Traction

A Lumbar Traction device is used to treat lower back pain in conjunction with other treatment modalities. The traction may be applied intermittently using several methods to treat the spine.

Estimated Cost: \$20,000 BDS **Quantity needed:** 1

Physio-Control Lifepak 15 Monitor/Defibrillator

The Lifepak 15 monitor defibrillator is the new standard in emergency care for emergency medical technicians who want the most clinically, innovative, operationally effective device to monitor patient rhythms and to treat patients experiencing cardiac arrest. These monitors are needed throughout the hospital.

Estimated Cost: \$18,000 BDS each **Quantity needed:** 10



Infusion/ Syringe Pumps

The QEH requires additional infusion/syringe pumps for distribution across all wards, Intensive Care Units (ICUs) and Recovery Rooms. These pumps administer fluids, medication or nutrients into a patient's circulatory system in ways that would be impractically expensive or unreliable if performed manually by nursing staff. For example, infusion/syringe pumps can administer as little as 0.1 ml per hour (too small for a drip), injections with repeated boluses requested by the patient up to a maximum number per hour (e.g. in patient-controlled analgesia) or fluids whose volumes vary by the end of the day.

Estimated Cost: \$18,000 BDS each **Quantity needed:** 48

Patient Trolleys

For the safe transportation of patients to and from the operating theatre.

Estimated Cost: \$16,000 BDS each

Quantity needed: 12



Bipolar Coagulators

Bipolar coagulators are used in electrosurgery and typically utilize high frequencies between two electrical poles to surgically cauterize and remove tissue. Surgeons commonly use this method of tissue destruction and removal for tumor or other types of tissue removal. One major benefit of electrosurgery is hemostasis, which is the prevention or containment of bleeding, it allows for a safer and more favorable result. It is commonly used in ophthalmology to induce punctal stenosis for patients with dry eyes, to close conjunctival incisions and as a surgical marker.



Estimated Cost: \$14,000 BDS each **Quantity needed:** 2

Patient Hoists

This is an assistive device that allows patients in hospitals and nursing homes, as well as those receiving home health care to be transferred between a bed and a chair or other similar resting places, using hydraulic power. Sling lifts are used for patients whose mobility is limited. Hoists can be mobile (or floor) lifts or overhead lifts (ceiling-mounted or mounted on overhead tracks).

The sling lift has several advantages. It allows heavy patients to be transferred while decreasing stress on caregivers, and also reducing the number of nursing staff required to move patients. Sling lifts also reduce the probability of orthopaedic injury to caregivers from lifting patients.

Estimated Cost: \$10,000 BDS each **Quantity needed:** 15



ECG Machines

An electro cardiogram or (ECG) machine is one of the simplest and fastest procedures used to evaluate the heart. This device is also used to determine the cause of unexplained chest pain which could be caused by a heart attack; inflammation of the sac surrounding the heart or angina; the cause of symptoms of heart disease such as dizziness, fainting or rapid, irregular heartbeats (palpitations).

Estimated Cost: \$9,000 BDS each **Quantity needed:** 9





Ophthalmic Surgical Bed

A specialized surgery table designed to accommodate ophthalmic surgical procedures.

Estimated Cost: \$8,600 BDS each

Quantity needed: 5

Orthopaedic Bed

A specialized bed designed to accommodate orthopaedic patients.

Estimated Cost: \$8,600 BDS each

Quantity needed: 5



Manual Beds

Beds for general medical wards.

Estimated Cost: \$6,400 BDS each

Quantity needed: 80



Doppler Ultrasound

A Doppler ultrasound test uses reflected sound waves to see how blood flows through a blood vessel. It helps doctors evaluate blood flow through major arteries and veins, such as those of the arms, legs, and neck. It can show blocked or reduced flow of blood through narrow areas in the major arteries of the neck that could cause a stroke. It can also reveal blood clots (deep vein thrombosis, or DVT) which could dislodge and block blood flow to the lungs (pulmonary embolism). During pregnancy, Doppler ultrasound may be used to look at blood flow in an unborn baby (foetus) to check the health of the foetus.

The three basic types of Doppler ultrasound are:

- **Bedside or continuous wave Doppler:** The continuous wave Doppler ultrasound uses the change in the pitch of the sound waves to provide information about blood flow through a blood vessel. The doctor listens to the sounds produced by the transducer to evaluate the blood flow through an area that may be blocked or narrowed.
- **Duplex Doppler:** Duplex Doppler ultrasound uses standard ultrasound methods to produce a picture of a blood vessel and the surrounding organs
- **Colour Doppler:** Colour Doppler ultrasound utilizes standard ultrasound methods to produce a picture of a blood vessel. A computer converts the Doppler sounds into colours that are overlaid on the image of the blood vessel and that represent the speed and direction of blood flow through the vessel.

Estimated Cost: \$2,000 BDS each Quantity needed: 8



Enteral Feeding Pumps

An Enteral Feeding Pump is used to administer a precise measurement of liquid nutritional formula directly to the digestive tract of a patient through a flexible tube. Total Parenteral Nutrition (TPN) is a liquid food product formulated to go directly into the blood stream, bypassing the digestive tract to provide nutritional substance to patients who are unable to physically intake food.

Estimated Cost: \$1,400 BDS each **Quantity needed:** 20



Instrument Trolleys

Instrument trolleys are designed for the safe storage and transportation of surgical instruments and dressings during examination and operation; and also for safeguarding used instruments after operation. These trolleys provide a safe place with easy access to all needed instruments and materials.

Large Stainless Steel Trolleys	Estimated Cost: \$400-\$1,000 BDS each	Quantity needed: 5
Anaesthetic Medicine Trolleys	Estimated Cost: \$1,000-\$3,000 BDS each	Quantity needed: 3
Medium Metal Trolleys	Estimated Cost: \$400-\$1,200 BDS each	Quantity needed: 5

Medical Stands

A movable structure positioned over or adjacent to a surgical site or patient bed; it provides a place for sterile instruments and supplies used during surgery or for general patient care.

- **Drip Stands** **Estimated Cost:** \$200-\$800 BDS each **Quantity needed:** 6
- **Large Stands** **Estimated Cost:** \$600-\$1,400 BDS each **Quantity needed:** 6
- **Small Stands** **Estimated Cost:** \$400-\$1,200 BDS each **Quantity needed:** 3
- **Mayo Stands** **Estimated Cost:** \$200-\$800 BDS each **Quantity needed:** 9



Storage Units

Provide safe storage for disposables such as syringes.

Estimated Cost: \$200-\$2,000 BDS each

Quantity needed: 5

COMPUTER EQUIPMENT

50 computers \$2,400 BDS each

20 tablets \$1,200 BDS each

OTHER EQUIPMENT

Warming Blankets

A blanket fitted with a heating element designed to regulate temperature. This is especially important to maintain the patient's body temperature in a specific range to prevent hypothermia and promote good circulation.

Estimated Cost: \$1,400- \$4,000 BDS each **Quantity needed:** 3



OTHER EQUIPMENT

Bedside Lockers

Lockers for the safe storage of the personal possessions of the patients.

Estimated Cost: \$1,200 BDS each

Quantity needed: 5



Portable Oxygen Gauges

Estimated Unit Cost: \$100-\$600 BDS Quantity needed: 3

Storz Light Source

Estimated Unit Cost: \$600-\$1,000 BDS Quantity needed: 2

Portable Suction Units

Estimated Unit Cost: \$1,000-\$3,000 BDS Quantity needed: 2

Large Oxygen Cylinders

Estimated Unit Cost: \$100-\$400 BDS Quantity needed: 3

Phaco hand pieces

Estimated Unit Cost: \$2,000-\$5,000 BDS Quantity needed: 8

Nidek Diode Laser

Estimated Unit Cost: \$3,000-\$10,000 BDS Quantity needed: 1

Angle Poise Lamps

Estimated Unit Cost: \$400-\$800 BDS Quantity needed: 5

Kidney Dishes

Estimated Unit Cost: \$40-\$120 BDS Quantity needed: 5

Urinals

Estimated Unit Cost: \$60-\$200 BDS Quantity needed: 5

Bedpans (Child & Adult)

Estimated Unit Cost: Quantity needed:
\$40-\$100 BDS 5 & 2

Suction Gauges

Estimated Unit Cost: \$20-\$60 BDS Quantity needed: 5

Baskets (for BP cuffs, nebulizers etc.)

Estimated Unit Cost: \$40-\$200 BDS Quantity needed: 5

In addition to the large pieces of equipment outlined in the Prospectus, here are several other items which the QEH requires. A few are listed here however; you may contact the Director of Engineering Services via email: des@qeh.gov.bb to find out more.

- Bedpan washers
- Zimmer frames-walkers
- Televisions
- Drip stands
- Commodes
- BP cuffs
- Wheel chairs
- Machines to measure blood sugar and strips
- Air flow mattresses
- Sphygmometer monitors
- Standing scales
- Bed scales
- Suction machines
- White boards for wards
- (2) 5 patient monitors for radiology
- (2) Monitors for the viewing station in the X-ray Department
- 48 inch burner ranges
- Convection oven
- Heavy duty Hobart food grinder
- Wax bath
- Functional electrical stimulators
- Heavy duty treadmill
- Hobart heavy duty mixer
- 30 patient recliners
- Sat probes
- Over bed tables
- 250 thread count sheets



ADOPT-A-WARD PROJECT

In an environment where the public is demanding more accountability on how their tax dollars are spent on health care, providing the right surroundings while patients convalesce is important. As the QEH seeks to improve the level of service to our patients and become more patient-centred, it has become necessary to upgrade our wards to accommodate the changes in our services and reflect a change in our service delivery. Therefore, the Hospital is seeking partners to assist with the refurbishment of the following wards: C3, C2, B2, B6, A2, A5 and A6.



Donate NOW !

Requirements for Donors:

TIN#	
ID Number	
Company Number	
Donor Type	(Indicate one please)
<input type="checkbox"/> Individual	
<input type="checkbox"/> NGO	
<input type="checkbox"/> Other (Please Specify) _____	

As outlined in the Equipment Prospectus, there are many necessary pieces of equipment required by the Hospital. We are pleased to offer you the opportunity to make a donation. Fax the completed form to 1 (246) 429-5374.

Donor Information (Please print or type)

Name	
Address	
City	
Country	
Telephone (home)	
Telephone (business)	
Fax	
Email	
Contact Person	

Donor Information

I (we) will make a donation of \$ _____ towards the following item(s):

1. _____
2. _____

Credit Card Type	
Credit Card Number	
Expiration Date	
Authorised Signature	

Acknowledgement Information

Please use the following name(s) in all acknowledgements:

--

____ I (we) wish to have our gift remain anonymous.

Signature(s)
Date

Please make cheques or other gifts payable to: The Queen Elizabeth Hospital

Wire Transfer Information:

The Queen Elizabeth Hospital
Martindale's Road,
St. Michael, BB11155
Ac#: 018005512003
Swift Number: BNBA BB BB

REPUBLIC BANK
#1 BROAD STREET
BRIDGETOWN BARBADOS
BB11000





QUEEN ELIZABETH HOSPITAL

GETTING
BETTER
TOGETHER

