Western Cape Government

WESTERN CAPE GOVERNMENT
DEPARTMENT OF HEALTH AND WELLNESS
GROOTE SCHUUR HOSPITAL

APPENDIX

to

GSH RESTORE AND PROCURE ROUTINE MAINTENANCE AND SERVICING CONTRACT FOR THE ZITON FIRE DETECTION SYSTEM AT GROOTE SCHUUR HOSPITAL; OLD MAIN BUILDING; MATERNITY; L-BLOCK; HR DEPT; OPD; CLARENDON RESIDENCE AND WILLIAM SLATER HOSP, FOR A THREE (3) YEAR PERIOD.

Tender No: **WCGHIC0014/2024**

The Appendix consists of a total of 24 pages and contains the following Annexures:

ANNEXURE 1: Price List

Section A1
Fixed Scheduled Routine Maintenance
Groote Schuur Hospital

Item Nr	Description	Units	Qty	Rate	Bid Price in SA Currency EXCL. VAT
1	Site Establishment	Each	1	R	R
2	Traveling associated with Routine Maintenance and Inspections including Toll-Fees where applicable.	Month	36	R	R
3	Tools & Maintenance Equipment	Lot	1	R	R
4	Site Security	Month	36	R	R
5	Other (Provide Brief Description) _____ _____ _____	Lot	1	R	R
6	Cost for scheduled service, routine maintenance, inspections and checks as per included maintenance schedules and requested work according to the tender specification and maintenance task sheets.	Month	36	R	R
Total Section A1, **Fixed Cost Routine Maintenance** **For Contract Period – Groote Schuur Hospital Site**					**R**

Section A2
Fixed Scheduled Routine Maintenance
William Slater Hospital Site

Item Nr	Description	Units	Qty required for the contract period	Rate	Bid Price in SA Currency EXCL. VAT
1	Traveling associated with Routine Maintenance and Inspections including Toll-Fees where applicable.	Month	36	R	R
2	Tools & Maintenance Equipment	Lot	1	R	R
3	Site Security	Month	36	R	R
4	Other (Provide Brief Description) _____ _____ _____	Lot	1	R	R
5	Cost for scheduled service, routine maintenance, inspections and checks as per included maintenance schedules and requested work according to the tender specification and maintenance task sheets.	Month	36	R	R
Total Section A2, **Fixed Cost Routine Maintenance** **For Contract Period – William Slater Hospital Site**					**R**

Section B
Spares Routine Maintenance of Fire Detection System – Groote Schuur Hospital & William Slater Hospital Site

Item Nr	Description	Units	Qty	Rate	Bid Price in SA Currency EXCL. VAT
1	Heat Detector Addressable + base	**No**	**30**	R	R
2	Smoke Detector Addressable + base	**No**	**60**	R	R
3	Addressable zone interface unit	**No**	**20**	R	R
4	Line Isolator	**No**	**2**	R	R
5	Addressable Break Glass Unit, Resettable element, Red, Including Surface Mount Box	**No**	**40**	R	R
8	Siren Strobe Addressable	**No**	**20**	R	R
9	Siren Strobe Addressable Base	**No**	**15**	R	R
10	Fire Rated Cable (PH30) / meter	**m**	**22 000**	R	R
11	Multi-Sensor (Optical & Heat)	**No**	**20**	R	R
12	12v 18ah Battery	**No**	**10**	R	R
13	Addressable relay Unit	**No**	**20**	R	R
14	Addressable Fire Panel- **1 loop**(battery & network card included)	**No**	**3**	R	R
15	Addressable Fire Panel- **2 Loop**(Batt & network)	**No**	**7**	R	R
16	Intelligent addressable Manual Call Point(red)	**No**	**90**	R	R
17	Omnidirectional Sounder & indicator,Red **(102dBa)**	**No**	**90**	R	R
18	Horn Sounder with dual front & rear sound paths, white **(102dBa)**	**No**	**90**	R	R

Item Nr	Description	Units	Qty	Rate	Bid Price in SA Currency EXCL. VAT
19	Intelligent addressable dual optical smoke detector	**No**	**1676**	R	R
20	Intelligent addressable Heat detector	**No**	**15**	R	R
21	A5OE-2A Series mini relay unit	**No**	**145**	R	R
22	Interface units with door contacts	**No**	**145**	R	R
23	PH120 Fire rated cable	**No**	**8200**	R	R
24	25MM GALVANIZED CONDUIT, 4 METERS	**No**	**8260**	R	R
25	Sundries- Fixings, drill bit, Hole saw, test gas ETC	**No**	**2**	R	R
26	PA Controller	**No**	**1**	R	R
27	PA Router	**No**	**1**	R	R
28	PA- Power Amplifiers 2x500w	**No**	**4**	R	R
29	PA- Call Station	**No**	**1**	R	R
30	PA- Call Station Extension	**No**	**1**	R	R
31	PA- End of Line supervision Modules	**No**	**40**	R	R
32	PA- battery charger 24v	**No**	**1**	R	R
33	PA- 100AH Battery	**No**	**2**	R	R
34	PA-Fire ceiling speaker Power: 6W, 100V, (diameter 20 cm)	**No**	**440**	R	R
35	ATS8610 for 50 Devices	**No**	**50**	R	R
Total Section B, Spare Parts for Contract Period – Groote Schuur Hospital & William Slater Hospital					**R**

Section C
Default Mark-up on Additional Spares

Item Nr	Description	Units	Qty	RATE	Bid Price in SA Currency Incl. VAT
1	**An allowance for additional spares and specialised services per month is capped at a maximum of R1500 per month. For this claim to be processed, approval and proof of such spares or services must be submitted.**	month	36	R 1 500	R 54 000
2	Default percentage markup paid to tenderer for additional spares or sub- contracted services. This is capped at 15% under Qty. Insert default markup percentage under rate and the percentage amount in Rands under Bid Price. Maximum 15% **Example** 10% mark up on R54 000 = R 5 400 under Bid Price	percentage		____ %	R
Total Section C: Default Mark-up onAdditional Spares for Contract Period					**R**

Section D
Labour, not relating to routine maintenance

Item Nr	Description	Units	Qty	RATE	Bid Price in SA Currency EXCL. VAT
1	Normal Working Hours SAQCC or other qualified technician	h	1940	R	
2	After Hours Overtime SAQCC or other qualified technician	h	32	R	
3	Saturday Overtime SAQCC or other qualified technician	h	40	R	
4	Sunday or Public Holiday Overtime SAQCC or other qualified technician	h	16	R	
5	Normal Working Hours General Assistant / Labourer	h	1940	R	
6	After Hours Overtime General Assistant / Labourer	h	32	R	
7	Saturday Overtime General Assistant / Labourer	h	40	R	
8	Sunday or Public Holiday Overtime General Assistant / Labourer	h	16	R	
Total Section D: Additional Labour Rates For Contract Period – Groote Schuur Hospital & William Slater Hospital					**R**

Section E

Traveling, Not Relating to Routine Maintenance

Item Nr	Description	Units	Qty of Call outs	Rate	Bid Price in SA Currency VAT Incl.
1	Travel Rate per call out not relating to routine maintenance tasks. Travel rate to include distance and labour hours used for traveling as well as all tolls or other costs associated with travelling. **Total estimated travel shall be calculated on 50 callouts for the contract period from the contractor's workshop site.**	Call out	50	R	R
Total Section E: Additional Travel Rates for Contract Period					**R**

Section F
Restoration Item
Groote Schuur Hospital Site only

Item Nr	Description	Qty required for the contract period	Bid Price in SA Currency EXCL. VAT
1	**RESTORATION OF THE ZITON FIRE DETECTION SYSTEM at OLD MAIN BUILDING Groote Schuur Hospital**		
1.1	OMB Fire Detection System Design & Drawings in accordance with SAQCC and SANS for Hospitals. ***(see Annexure 5.1 - Ziton Addressable for scope of design)***	**1**	R
2	**RESTORATION OF THE PA SYSTEM at OLD MAIN BUILDING Groote Schuur Hospital**		
2.1	OMB PA System Design & Drawings in accordance with Relevant Standards and Regulations for Hospitals. ***(see Annexure 5.2 - OMB PA System for scope of design)***	**1**	R
TOTAL SECTION F: Restoration Item Groote Schuur Hospital Site only			**R**

ANNEXURE 2: MAINTENANCE SCHEDULES

INTERVAL LEGEND:

Q	:	**Quarterly**	**A/4**	:	**Whole System Annually, ¼ Per Quarter**
A	:	**Annually**	**AI**	:	**As Indicated / Instructed**
B	:	**Bi-Annually**			

GENERAL		
Item	**Description**	**Interval**
A	Check the site logbook for previous inspections and report all such entries on a service report sheet.	Q
B	Check that the fire brigade link-up (If available) is provided and do all tests to ensurethat the link is working correctly and is in good condition. The fire brigade is to be informed of the test before it shall be carried out.	A
C	Check that the air-conditioning and ventilation system fire components are functionaland in good condition.	A / 4
D	Test all lifts for correct function and report any deviations from the intendedfunction.	A
E	Check if a lift interface is provided if applicable and test that the interface isfunctioning correctly.	Q
F	Check if a battery backups are provided and run the system from the batteries(disconnect mains supply) for 2 hours to test function. Minimum voltage shall not be allowed to fall below 21.5V.Any bulging, leaking orexpired batteries are to be replaced. Batteries that are visually / voltaically in bad condition are also to be replaced duringthe next visit to the site. All Batteries are to be tested in accordance to Table 5A	AI
G	Check all visual,audio and control functions of the control panels are working.	B
H	Check all break glass units are in working order.	A / 4
I	If requested, use site plans and drawings and inspect the layout of the building to determine any internal changes that would require additional detection, PA, access orother equipment.	AI
J	Check that all fire compartment doors and mechanisms actuate upon alarm.	A / 4

FIRE/SMOKE DAMPERS		
Item	**Description**	**Interval**
A	Test that all electronic fire dampers or shutoff relays activate on a fire alarm. This testis to be done in isolated zones and the facility manager shall be informed 2 weeks in advance of the planned tests. All dampers are to be reset after activation.	A

ADMINISTRATION

Item	Description	Interval
A	Check the condition of the printer if applicable so that all reports are easily legible andclear of smudges and marks.	A
B	Update the logbook with details of defects detected and the corrective measures suggested and note the same on the service report sheet. Also update the logbook with date and details of testing and service.	Q
C	Check that panel time and date is correct and adjust if necessary.	Q
D	Recover the events buffer for all operational activities and print out or update toservice report.	Q
E	Recover the events buffer for all maintenance alarms, detector thresholds andsensitivities and print out or update to service report.	Q
F	If a fire graphics package is installed , check the accuracy of bit-map display	Q
G	If a fire graphics package is installed Check the Comments / Instructions noted on bit-maps.	Q
H	If a fire graphics package is installed Check that GUI and software functions correctly	Q

PA SYSTEM

Item	Description	Interval
A	Visually inspect the PA/Evacuation control panel for any damage. Also check that all lamps are functional and not indicating any faults. Check that all connections are clean and secure.	Q
B	Inspect all speakers, bells, sirens strobes and illuminated signage is operational. Quoteat the end of inspection for the replacement of any equipment.	A / 4
C	Check local rack wiring at fire panel and audio equipment for and loose, faulty ordamaged wiring.	A
D	Check that all audio amplifiers are in working order.	A
E	Check UPS batteries by doing a 1 hour run before testing voltage. Voltage to be within5% of normal operating voltage.	B
F	Check that all ventilation fans are working.	B
G	Test the public address system by operating the patch panel together with the microphone and verify its functionality by random tests throughout the building. Activate the evacuation signal and check that it is audible throughout the building by doing a zone by zone sweep of the building. Also check that all audio and visual devices in the zone is functional and in good working order.	A
H	Independently operate the alert and evacuation signals by patching randomly todifferent zones on the evacuation panel.	A / 4
I	If pre-recorded messages are used , Identify the detail thereof , check the specificoperation and note such detail in the service report.	A
J	Verify that the microphone on the PA system is working correctly.	B

FIRE SYSTEM DEVICES

Item	Description	Interval
A	**Manual call-points** (break glass units) and door release units are to be tested throughoutthe contract with each device being tested at least once during the contract. Each pointshall be activated and the location of the alarm shall be monitored at the panel to confirm that the system is reacting to the activation and that it is shown where it was activated accurately. After the test , any resettable elements are to be reset and in the case of glass element units , the element shall be replaced and the site left clean of any shards of plastic or laminated glass.	Q/4
B	**Resettable Heat Detectors** shall be tested only after it has been cleaned. The contractor shall use a pole mounted heat generator to test the device and the test shallbe monitored from the control panel to ensure that the panel does react to the alarm and that the indicated position is correct.	Q/4
C	**Resettable Smoke Detectors** shall be tested only after it has been cleaned. The contractor shall use a pole mounted smoke generator to test the device and the testshall be monitored from the control panel to ensure that the panel does react to the alarm and that the indicated position is correct.	Q/4
D	**Non-Resettable Heat Detectors** shall not be tested. The device shall be carefully inspected for signs of deterioration of the heat fusing element and the device in generaland any detectors that are in poor condition shall be reported to the project engineer for replacement.	Q/4
E	**General or Remote Indicators** shall be monitored while the testing on the relevant device is being performed to ensure that the indicator is functional. Any malfunctions tobe reported.	Q/4
F	**General Interfaced Items** , not conforming to standard items such as lift , ventilation ectshall be tested using the most appropriate method to simulate alarm condition. For example if a remote interface is connected to the fire panel to warn of freezer malfunction , the sensor in the freezer will be tested with a heat generator to simulate the malfunction condition.	A
G	**Smoke and Fire Rated Doors** , if connected directly to the fire system shall be tested during the quarterly testing. The zone will be activated and every fire/smoke door shall be monitored that it is activated and closes normally without obstruction.	Q/4
H	**Sounders** , if installed as part of the fire detection system shall be tested in-place using a exponentially averaging sound level meter. No sounder may exceed 105dB @ 3M andif devices measure substantially higher , they are to be set if possible to the lowest setting that complies with the required sound level.	A
I	**Strobes or Lights** will be tested during the regular tests being performed on the firesystem and any blown strobes , bulbs or LED arrays to be replaced upon failure.	Q/4
J	**Door Sensors** for areas where the fire alarm panel is connected to emergency doors shallbe checked that it is secured to the door frame and if not shall be secured to the frame using no more nail and two screws if possible. Cabling shall be checked and secured withhot glue to the door frame	A
K	**Cleaning and Housekeeping** is to be done to all components to clear it from dust, debrisor obstacles which may hamper operation. Detectors are to be vacuumed out, blown out with clean oil free compressed air and finally wiped clean with a damp cloth. All other items to be visibly free of dust and debris.	A/4

LIFTS

Item	Description	Interval
A	1. Check that lift activates correctly when the fire alarm is raised. 2. Also check that lifts go to designated fire floor or ground level and check operationof fireman and/or maintenance mode switch. 3. Also check that fireman elevators stay operational during the fire alarm. 4. Operate and check the functioning of the intercom and check that the intercomindicates the correct lift number and location at the control station. 5. Findings are to be reported to the regional representative. Lifts are to be liaised with on-site lift contractor if applicable	A / 4

RELATED SERVICES

Item	Description	Interval
A	The CCTV system is to be inspected for operation. If a item is not functional , it shall be reported to the project engineer. The contractor may be asked to provide a price to perform work to the CCTV system and replace or repair certain malfunctioning equipment.	Q
B	Access control system is to be assessed upon quarterly site inspections and should the system be found to be malfunctioning it is to be reported to the project engineer. The contractor may be asked to provide a price to perform the work to the access control system or to repair/replace the malfunctioning components.	Q
C	The contractor is to check the general condition of the signage at the building and reporthis findings to the engineer. The signage shall be assessed against the ruling regulation that was used when installing the signage in the building or to the time when the building was designed.	A
D	The condition of the access doors , gate booms , automatic gates and automatic doors shall be accessed and the engineer shall be informed of any malfunctioning components so that a proper tender or assessment of repair can be conducted.	A
E	The contractor shall spot check 15 fire hose reels , extinguishers and hydrants todetermine state of servicing. Findings to be reported to engineer.	B

FIRE PANEL INSPECTION

Item	Description	Interval
A	Check the panel logbook. Any due repairs shall be done during the service.	Q
B	Print out a list of all sensors in error, service, preserve or caution mode.	Q
C	Print a report of device values for each point on the panel.	Q
D	Connect a planner to the panel and print out a complete system configuration reportfrom the panel software. Compare to as-installed and note any discrepancies.	Q
E	Check the common disable LED and investigate the reason for disabled equipment and implement necessary action to return the system to normal condition.	Q
F	Test a sensor in each zone. Check that sounders activate and that panel operates appropriately and correctly for the particular sensor. Also check that auxiliary signalswork correctly.	Q
G	Check that all keys on the panel function correctly	Q
H	Check that the printer in working correctly and resupply as necessary	Q

I	If earth leakage detection is provided , test appropriately	Q
J	Check that all terminal screws are tight and cables inside the panel are secure and neat.Check that all printed circuit boards are in good condition and free of dust and securely mounted.	Q
K	Do the battery tests as described earlier	Q
L	Check time and Date settings	Q
M	Restore the system to normal condition.	Q
N	Verify that input and output mapping is functioning correctly, Activate an input andverify that it is correctly displayed on the panel and that the correct action is performed by the panel.	A
O	Check that the batteries will not expire before the next service. Any replaced batteries shall be marked with a date it was installed.	A
P	Provide the Engineering department with all information relating the system includingall passwords at the start and end of the contract period. Information shall be provided in a digital format on a removable media (Flash drive or CD/DVD)	A
Q	Supply one hard copy manual to the control room of each separate system.	A
R	Check Maestro/Graphical Package computer for dust build-up and correct function tooriginal specification.	A
S	If labelling is not correct on the main panel, remove current labels and re-do correctlyusing printed labels inserted into the panel. Also affix company name with contact details onto/into the provided space of the panel.	A
T	Check logbook holder is present and provide and install a holder if none is currentlyinstalled. Holder to be of per specs or approved material.	A
U	Contractor shall remove the panel keys and have a extra 2 copies made which shall beprovided to the operator/maintenance department and the regional representative.	A

BATTERY CHECKS (ALL ITEMS)

Item	Description	Interval
A	Lead Acid Batteries Charger Test	A
B	Lead Acid Batteries Discharge Test	B
C	Lead Acid Batteries Load Voltage Test	Q
D	Sealed Lead Acid Batteries Charger Test	A
E	Sealed Lead Acid Batteries Discharge Test	B
F	Sealed Lead Acid Batteries Load Voltage Test	Q
G	Apply and complete service label	A

RESTORATION OF SYSTEM

Item	Description	Interval
A	Create or draw off the system the total amount of devices connected to the systems anddo a walkthrough inspection to not any glaring defects	A
B	With the fire detection panel, test and see that all loops and relays are functional and ifa graphics package is provided, confirm that it is working correctly.	A
D	Do a basic test to confirm that all systems or components thereof function normally	A
C	Report zone by zone the defects noted as well as the device count of the building andprovide a quotation to repair the system to full working order.	A

In addition to all the tasks required above, the equipment shall also be maintained in accordance with the recommended manufacturer / OEM procedures.

ANNEXURE 3: SCOPE OF WORK

1. Description of the *service*

1. SCOPE OF WORK

   The contract covers the service and repair of Fire detection and related equipment at Groote Schuur Hospital Estate and William Slater Hospital.

   (for description of the services please refer to Annexure 3 of the Appendix)

2. DESCRIPTION OF THE WORK

   General Description of the Systems

   The Main Site is fitted with 12x Ziton ZP3 Fire Panels, which are situated across 6x Buildings on the Groote Schuur Hospital site as detailed in the Equipment List and includes 3x Maestro GUI.
   William Slater Site is fitted with only 1x Ziton ZP3 Panel. The Fire Panels are situated as follows:

   - New Main Building - 1x Ziton ZP3 and 2x Maestro GUI.
   - L Block - 1x Ziton ZP3 including PA and Fireman's Telephone.
   - Human Resources Department - 1x Ziton ZP3 including PA and Fireman's Telephone.
   - Maternity - 2x Ziton ZP3 including PA and Fireman's Telephone.
   - Old Main Building - 3x Ziton ZP3 including PA, Fireman's Telephone and 1x Maestro GUI.
   - Outpatients Department - 2x Ziton ZP3 including PA and Fireman's Telephone.
   - Clarendon Residence – 1x Ziton ZP3 including PA and Firemen's Telephone
   - William Slater Hospital (Satellite Station) - 1x Ziton ZP3 including PA

   The Satellite Station is located in Park Road, Rondebosch and the site consists of a Main Building as well as an out-building on the William Slater Psychiatric Day Clinic site as detailed in the Equipment List.

   Technical alarms and controls included in the system may comprise of the following, but not limited to:
   - Air Conditioner Shutdown
   - Lift Control
   - Generator
   - Chilled Water Temperature
   - Booster pump
   - Humidity Sensors
   - Cooling Fans
   - Fire panels and peripheral equipment
   - PA/Evac Systems and peripheral equipment
   - Fire and Access door and door hardware
   - Alarms, Relays and Technical Switches
   - Access control and safety devices

3. AN EMERGENCY COMMUNICATION AND EVACUATION SYSTEM AND A FIRE TELEPHONE SYSTEM ARE EXISTING

3.1 General

All maintenance and repairs shall be executed by relevant competent SAQCC registered personnel in the most time saving and effective manner possible. The contractor's staff will not be allowed on site in the absence of a SAQCC registered technician. The Contractor shall be required to keep critical spares in stock, at his own cost, in order to keep down-time to an absolute minimum. Faulty items in critical areas* (see list below) must be repaired immediately and returned to the Contractor's stock holding. All tools and equipment required to perform repairs and maintenance shall be supplied by the Contractor and shall remain his property when the contract lapses.

* List of critical areas
Theatres ICU
High Care
Emergency Department
Pharmacy
CSSD
Cold and Freezer Rooms

(No work will be undertaken on the equipment that serves the critical areas above without prior written approval from the head of the facility.)

3.2 Definitions of Functions

3.2.1 Restoration of the Systems

This entails a detailed investigation by the Contractor of all items and systems under the contract, identification of defective and inferior components or systems, and the restoration thereof to comply with the PGWC Standard Specification and Additional Specification for the installation as applicable at the time of the original installation, as well as later additions to the installation(s) and additional installations. All restoration work shall be executed to the satisfaction of the Regional Representative.

The costs associated with the restoration of equipment will be additional to the contract. The contractor shall be remunerated for the specific work on a material cost plus the % mark up as indicated in the price schedule.

3.2.2 Preventive Maintenance

This entails the tendering of services for diagnosing the deterioration of equipment and the subsequent action to restore the equipment to its correct functional level in the workshop or in the field. This also entails testing of ancillary equipment like fire dampers, control valves, flow switches etc.
Preventative and unplanned maintenance of each component is essential in order to ensure continuous usage according to its design capacity and to ensure its expected life expectancy and reliability.

Preventative maintenance schedule. Will be done in accordance with the Maintenance Schedules contained in this document but will not be limited to the scheduled items. It is expected from the contractor to expand on these activities and provide comprehensive preventative maintenance schedules, so that potential trouble situations can be investigated and corrected as soon as possible.
The preventative maintenance tasks consist of the completion of the checklists and compilation of the maintenance actions required.

Maintenance inspection and repair records. These documents should be completed in detail by the contractor's assigned individual. Maintenance personnel shall report their findings and corrective action on assignment sheets or job cards. Permanent records are a useful guide to each mechanical & electrical

system's general condition and reliability. It is important to know the frequency and type of repair and how often there is a need for a complete overhaul.

3.2.3 Planned Preventive Maintenance

Planned maintenance check lists is generated for condition monitoring, services and preventative maintenance for buildings and equipment. The planned maintenance tasks consist of the completion of the checklists and compilation of the maintenance actions required.

3.2.4 Corrective Maintenance

This entails regular observation of the equipment with the intention of identifying minor breakdowns of the equipment and subsequent action to restore it to its correct functional and operational state.

3.2.5 Breakdown Maintenance / Emergencies

This entails the urgent repair and/or replacement of defective equipment and subsequent action to restore it to its correct functional and operational state. This will also include equipment at facilities within a 100km radius of the facility mentioned in this document under emergency repair delegations. Labour and mark-up rates (max 15% mark up on spare parts) as quoted in this document under Contract Data - Price List will apply.

3.2.6 Repair and Replacement of Parts

This entails the replacement of defective parts and the repair or replacement of such defective parts.

3.2.7 Additions/extensions to the systems

On request by the Department, the Contractor shall supply the Department with detailed estimates of costs for additions or extensions as indicated by the Department. Should the Department require such additions or extensions to the existing systems to be done by the Contractor; the Contractor will be paid the price per supplier's invoice plus a percentage mark-up as indicated in the "SUMMARY". The mark-up shall include all expenses incurred by the Contractor and no additional payments will be made, for example, for transport or labour costs. The Department reserves the right to pay the Contractor only an amount equal to market related prices plus mark-up should supplier's prices be excessive.

4. MAINTENANCE EQUIPMENT RECORDS AND INVENTORY CONTROL SYSTEMS

This entails the composition of a complete inventory of equipment and the updating and maintenance thereof

5. TOOLS & MATERIALS

Generally, all tools and equipment must be provided to complete the maintenance procedure, these to include:

- All hand tools for operating and maintaining fire detection system;
- All test equipment for operating and maintaining fire detection system including Solo detector tester;
- Cleaning tools and materials;
- Safety goggles;
- Working gloves; and
- Electrical multimeter

Important note relating to tools & electrical cables being plugged into the hospital/ health facility electrical network system. Before any electrical tool is being used in the hospital it will be tested by the workshop and

then tagged to be used inside the health facility if not found faulty. The reason for this is to prevent unnecessary tripping of equipment inside the health facility.

6. SECURITY

The contractor shall supply his own security arrangements to safeguard his own property as well as any unfixed materials on-site.
The contractor shall be subject to security screening at entry and exit of the premises and/or building as well as at any time while the contractor is on-site.
The contractor shall report to the workshop or site representative before any work is laid to hand. The contractor and his employees shall at all times have identification in the form of:

a. Clothing which permanently features the name of the contracting company
b. Identification tag with name and photo-identification
c. SAQCC badge which shall be visible at all times (SAQCC registered personnel)

Failure to comply with these requirements may lead to the contractor being denied access to the site and any costs incurred shall be for the contractor's own account

7. TESTING AND ADDITIONAL EQUIPMENT

The Contractor will ensure that he is in possession of all testing equipment necessary for the successful execution of this contract. Should any tests be required related to any service, it will be done by means of instrumentation recognised and approved by the manufacturer. No other results will be accepted.

8. TRAINING OF PERSONNEL

This entails the quarterly training of the User Department's operating personnel to acquaint them with the operation of the systems. This also includes a set of operating and maintenance instructions, which shall be mounted in the control or plant rooms in the building, and which shall be in a location and of a quality approved by the Engineer or his Regional Representative.

9. AS-BUILT DRAWINGS AND MAINTENANCE MANUALS

Tenderers will be informed of the availability of existing O & M manuals and drawings at the tender site meeting.

10. AVAILABILITY OF THE SYSTEM

The availability of the overall system will be calculated as the percentage of time over a period of 30 days within which the overall system is fully operational. A minimum system availability of 99% is required.

11. MANAGEMENT SYSTEMS AND PROCEDURES

In addition to the control measures contained in this document the contractor shall provide the necessary information to update and keep the existing Pragma system current for effective control of maintenance at the institutions. Any changes proposed by the Department shall be implemented by the Contractor without any additional costs to the Department.

The approved management system and procedures shall be implemented at the site and shall be strictly adhered to during the course of the contract. Should any changes be required to the management system and procedures during the course of Contract, such changes will be discussed and agreed between the Department and the Contractor. The implementation of such changes shall be at no extra cost to the Department.

12. COMMUNICATIONS

The Contractor's management and maintenance personnel shall be available on a 24-hour basis. The contractor shall provide an approved system of communication to this effect as well as a cell number and e-mail address that is manned 24 hours per day 7 days per week. Contractors must make themselves available for fire detection related emergency repairs at institutions under this contract when requested to do so.

13. MAINTENANCE FREQUENCY

Routine maintenance of all listed equipment shall be carried out at the frequencies as set out in the maintenance schedules.

The Contractor shall within 30 days of the commencement of the Contract, draw up, for approval by the Department, a draft master maintenance schedule based on his routine maintenance intervals for the various items of equipment. The master schedule shall be calendar based, that is, normally fixed days.

The master schedule shall also indicate specific training sessions to be provided to the Department's and/or User Department's personnel.

The master schedule shall be revised and refined in the light of experience gained and a copy of each revised master schedule shall be supplied to the Department for approval.

The Contractor shall at all times have adequate resources available to perform all functions required of him. Resources shall include labour, specialist expertise, tools, test equipment, consumable material, spare parts, operation and maintenance manuals, drawings, and other documentation to achieve the contract performance guarantee.

14. DEPARTMENT'S OBLIGATIONS

The Department or User Department will be solely responsible for operating the systems and performing minor maintenance work like regular cleaning of the filters. When a fault occurs, the system operators will execute prescribed reset procedures, provided in the control room by the Contractor.

In the event that the equipment becomes operational again, the operator will not call out the Contractor but will log the fault and reset operations in the control logbook. If the equipment remains faulty, the operator will notify the Contractor immediately and will log the incident, and the call-out of the Contractor, in the logbook.

15. CONTRACTORS RESPONSIBILITIES

The Contractor shall be responsible, and Tenderers shall allow for in their Quotation, for the complete maintenance service, i.e., routine preventive and corrective maintenance, breakdown and repair maintenance, repair, replacement, and stocking of critical spare parts.

The Contractor shall carry out inspections and checking of the equipment detailed in the Schedules. Each inspection and test shall be recorded and listed in a logbook to be kept on site and the quarterly report, giving the date of the inspection and the nature of the test, complete with the names of persons carrying out such tests, and inspection test results. Testing of repaired faulty equipment shall also be reflected in this list.

The Contractor shall provide the operator personnel with written reset procedures, approved by the Department, mounted in the control room. The Contractor shall ensure that the operator personnel are conversant with the systems and reset procedures.

Telephone numbers of contact persons shall be provided by the Contractor to the operator personnel. While the Contractor is on site, he shall also provide refresher training to the operator personnel.

The Contractor shall at any time during the contract period, maintain, and repair or replace, faulty equipment upon receipt of an instruction from the Department, within the Repair Time as defined in the tender document at no additional cost to the Department.

The Contractor shall restore or repair the equipment to the original operational condition, recalibrate and re- commission the equipment on completion of each maintenance service carried out.

The Contractor shall rectify any fault condition of which he becomes aware, even if it has not been reported by the user.

Such rectifications shall also be logged and listed in the Quarterly Report.

The information of the system and equipment in this Specification is given, and intended only, to provide a guide and overview of the Contractor's responsibilities. The information given shall not be regarded as complete or exact.

16. MAINTENANCE MANUALS, TECHNICAL BROCHURES/DRAWINGS

If available, the Regional Representative shall make available at the site a set of maintenance manuals, technical brochures and manuals of selected equipment and as built drawings for the contractor to scrutinize. Should the Tenderer notice any discrepancies, he must allow in his Quotation for preparing additional technical handbooks and/or drawings.

One set of technical handbooks, if available, for all equipment in use will be made available to the Contractor at the commencement of the maintenance contract. Should such handbooks not be available, the Contractor shall be expected to compile the necessary documentation within six months of commencement of the contract. This documentation will become the property of the Department.

The maintenance manual and as built drawings supplied to the contractor shall be signed for by the Contractor or his duly appointed representative upon handover. The Contractor shall, as part of his contract, update literature and drawings whenever he becomes aware of discrepancies. On termination of the Contract, the maintenance manual, all technical handbooks and as built drawings shall be returned to the Department of Health by the Contractor.

17. COMPUTER SOFTWARE

On any system where computers are used, the Contractor shall, as part of the Contract; supply to the Department licensed and documented copies of all additional or modified software used. Removable disks needed to reload the system to fully operational level in the event of a complete breakdown of the system, or for installation on a new or alternative computer system, must be supplied. The software shall include the operating system, application software, utility software and specific programs written for the system. Where programs are compiled the source files must be handed to the Department.

Installation and start-up procedures shall be clearly set out and documented. Whenever changes are made to the software, the Contractor shall supply the Department with a new set of back-ups of the software that underwent the changes. Software may only be changed with the written permission from the Department, and the reasons for proposed changes shall be fully motivated in writing. Before any changes are made, the original software shall be copied by the Contractor to removable media, which shall be handed over to the Department.

Should passwords be used on any system, the highest level of passwords shall be handed to the Department in a sealed envelope, and should any changes to the passwords be made, the new passwords shall be handed to the Department in a sealed envelope by the Contractor.

The Contractor shall also supply the Department with anti-virus protection software, which shall be loaded onto the system by the Contractor, and shall be updated by the Contractor, as new versions become available in the market. The protection software shall be memory resident and shall warn the user the moment a virus is detected.

The Contractor shall allow in his tender for any reformatting of the hard disk drives which may become necessary, reloading of back-up software and testing of the system once the back-up software has been loaded.

The documentation and back-up software must be handed over to the Regional Representative upon the restoration phase of the Contract.

18. MAINTENANCE CONTROL SYSTEMS

18.1 Quarterly Reports

The Contractor shall submit written quarterly reports to the Department on the status of the systems and progress achieved. The schedules and service sheets comprising the quarterly report requirements. The Contractor shall prepare his own schedules and service sheets for acceptance by the Department and shall make his own arrangements for printing and duplicating of quarterly reports and service sheets.

The reports shall also be countersigned by the specifically appointed Health Representative in charge of the site, building or room in which the equipment is situated, and he shall endorse the sheets to the effect that the plant is, in his opinion, operating satisfactorily. His name in print, his signature, the date and his telephone number must appear on the sheet.

This report shall show the following:

- Availability will be calculated on a daily basis for continuous 30-day periods with the running average for those periods.
- Any alarms indicated during the period, as well as reasons for alarms, with corrective actions taken and dates.
- Quarterly test results, showing, with dates
- Equipment tested with results
- Faulty equipment
- Repairs undertaken
- Call-out log
- Short description of callouts with corrective action taken and dates

The quarterly report shall be both narrative and statistical. The statistical content shall deal typically with the incidence and nature of breakdown maintenance carried out during the preceding quarter, equipment downtime and the frequency of spare replacement. The narrative content shall highlight corrective maintenance executed and shall draw attention to on-going deficiencies being attended to by the Contractor and/or any matters requiring attention by the user or Department.

The contractor will forward copies of all records to the Department and will in addition keep records of tests and inspections of the equipment & installations for 5 years.

18.2 Site Maintenance Log

The Contractor shall provide a maintenance/repair/training logbook, which shall be kept in the Foreman's office for record purposes. This logbook will remain the property of the Department and may not be removed from the foreman's office under any circumstances. To ensure easy control by all parties involved, the logbook shall have triplicate sheets. The master sheet shall be supplied to the Regional Representative

with the Quarterly Reports. The first copy is for use by the Contractor and the second copy shall stay in the logbook. The Contractor and/or the User Department shall be required to record the following in a chronological order:

- Fault incidences
- Fault notification to Contractor
- Any re-notification
- Replacement spares used
- Contractor's attendance for routine and break down maintenance
- Any visit to the Site by the Contractor, with reasons for the visit.

The Contractor shall provide adequate supplies of these logs and shall submit the format to the Department for approval within 14 days of the award of the Contract.

Faults will be reported to one specific address only, which has the necessary telephone and facsimile facilities. Faults will be reported to the Contractor by telephone or facsimile. In the event of a complaint by telephone, the Contractor shall supply the reporter with a complaint number, which must be entered into the logbook by the reporter of the complaint. The Contractor shall inform his staff to instruct the User Department to enter the details of the complaint in the logbook.

18.3 Repair and Response Time

It shall be expected of the Contractor to relate his actions in respect of callouts, repairs and general maintenance to specific prescribed response and repair times.

Depending on the urgency of the call-out, the response times may vary, and the table below indicates maximum timespans.

Call out Type	Response Time	Repair Time
Emergency Urgent Normal	1 hour 2 hours 24 hours	To be discussed per event

Response Time shall mean the time lapsed from the time the call-out is logged by the system operator or person making the call, until the Contractor report on site in writing. A record will be kept in the control logbook.

Repair Time shall mean the maximum time taken by the Contractor to repair the fault, in order to limit the downtime of the system to a minimum. Repair time will be measured from the time the Contractor's response on site is logged, until such time as the fault is rectified and signed off in the control logbook.

Downtime, with respect to callouts, shall mean the total time for which the system is not 100% operational, i.e. Response time plus Repair time.

With regard to Routine periodic services, the Contractor shall notify the Regional Representative and the User Department at least 7 days in advance.

18.4 Inspection and Testing

The Department and/or its duly appointed representative, or any person he may appoint for the purpose, may inspect and test the various portions of the work at all times and shall have full power to reject all or any portion of the work that he may consider to be defective or inferior in quality of material, workmanship or design with respect to the original installation.

Any portion of the work so rejected shall be replaced immediately by the Contractor, unless, in the opinion of the Department, the work rejected can be so treated and repaired as to render it fit for incorporation in the contract works. In this event the Contractor shall, at his own risk and expense, be at liberty to repair the work to the satisfaction of the Department.

The Contractor shall carry out such tests as are necessary, in the opinion of the Department, to prove that the contract requirements are being complied with. The cost of all tests and/or analyses shall be borne by the Contractor. If the contractor fails to repair the work to the satisfaction of the Department, the Department will appoint a contractor of his choice to repair the work for the expense of the Contractor.

18.5 Site Meeting

A meeting between the Department and/or its duly appointed representative, and the Contractor shall be held quarterly or more frequently if so required by the Department, at a time, date and venue determined by the Department, to discuss all aspects of the maintenance of works as documented in the Quarterly Report. No additional compensation will be paid for this. The site meetings will be under the chairmanship of the Regional Representative and/or his duly appointed representative.

19. RESTORATION OF THE SYSTEM AND/ OR EMERGENCY REPAIRS

After award of the Contract, the Contractor shall restore all faulty equipment to the satisfaction of the Regional Representative. The restoration shall be done at a cost-plus mark-up basis as per the price Schedule.

This mark-up shall include labour, accommodation, overhead expenses, travelling, profit and all other items necessary in restoring the system to full functioning in accordance with, if available, the manufacturer's specification, the Department's Standard Specifications and Drawings, and/or the Additional Specification, all of which as applicable during the original installation. The purpose of this restoration is to ensure that the system will function as was intended at the time of the original installation.

Where the appointed contractor can prove to the satisfaction of the Department that spares are not available to restore the system to its original state, or that upgrading of the system will be more economical, the appointed contractor can replace the system or components with a new system or components, provided that this new system is approved in writing by the Employer's Agent and complies with the Department's applicable Standard Specifications.

With reference to the paragraph above, Tenderers shall clearly indicate in their Quotation the method of restoration they have allowed for, as well as motivation thereof.

Tenderers shall, with due cognizance of the functional condition of the existing system(s) indicate the maximum period required to restore the system(s) in compliance with the requirements hereof. Should the Department consider this period to be excessive, it shall reserve the right to, in consultation with the successful Tenderer, shorten the period to that which it would consider being feasible, practical and reasonable.

During this phase the Contractor shall ensure that all possible equipment remains functional. This shall be achieved, for example, by removing and replacing equipment on one floor or zone, ensuring that it functions properly before moving on to the next floor or zone. The User Department shall be informed on a daily basis of those portions of the system, which will not be functional, so as to enable the User to make appropriate arrangements to compensate for non-functional portions of the system. No escalation will apply to this phase of the Contract. No progress claims shall be made during this phase.

Payment of the restoration will be a once-off payment of the total amount to restore. Payment will be made only after total completion of the restoration and a 21 day "hands-off" trial period. Should any malfunction of, or problems with, the system(s) occur during the 21 day "hands-off" period, the cycle will be extended by a further 21 days after the rectification of the malfunction and/or the problem.

During the "hands-off" period the Contractor shall be expected to continue normal maintenance, as prescribed and required, to keep the system functional to the availability as specified in the tender document.
Any replacement/repair of equipment during the "hands-off" period shall be subject to approval of, and prior arrangement with, the Regional Representative, whose decision to whether the said replacement/repair is considered as normal maintenance or as a result of faults in the restoration, shall be final.

The Contractor should note that payment will also be made only after the following have been delivered to the Regional Representative, or completed by the Contractor:

- Updated technical brochures/ handbooks
- Updated drawings
- Software documentation
- Back-up software
- Passwords
- Training of operating staff
- Logbooks on site and in use

20. ADDITIONAL SPECIFICATIONS

20.1 Documents

The following documents shall be read in conjunction with this Quotation and shall form an integral part thereof. Additional Conditions contained in this document shall take preference.

a. NEC4 Term Service Short Contract – June 2017
b. Occupational Health & Safety Act: (Act 85 of 1993) as amended

The following PGWC Standard specifications
- PGWC - General Conditions for the supply and installation of Fire detection equipment and services.
- SANS 10400 - B
- PGWC – Standard Specification for Fire detection Installations
- SANS 10139
- PGWC – General Technical Specification for Electrical Installations

The Tenderer shall study these documents and acquaint himself with the contents thereof as no claims in this regard will be entertained.

20.2 Provisional scope of work and quantities

The scope of work, description and quantities given in the Tender Document shall be regarded as provisional and solely as a guide to Tenderers.

The Department reserves the right to increase or decrease, during the duration of the contract, the scope of work, description and/or quantities as given by the Tenderer, without alteration to any tariff. Such increase or decrease will be made by notice in writing to the Contractor.

20.3 Contract period

A contract ensuing from this Tender shall remain valid for a period of twenty-four (24) months, commencing from the date of the Letter of Acceptance of the Tender. Notice of extension of the contract will be given 3 months prior to the end of the period(s), and both parties shall consent, in writing, to extensions. If no written extension is given, the contract will terminate.

20.4 Services applicable to this tender

This Tender shall involve the restoration (if so instructed) and the COMPLETE maintenance service of existing installations, systems and equipment in accordance with the requirements of this Tender document.

The responsibility shall rest on the Tenderer to acquaint him/herself fully with the exact extent and detail of the installations, systems and equipment at the site(s) before preparing his Tender. A compulsory site clarification meeting will be arranged for this purpose.
Where maintenance, servicing & repairs are required to specialised items of equipment, the Contractor shall arrange for such work to be carried out by specialists after obtaining written approval from the Engineer/ Regional Representative, and the cost of carrying out such work shall be deemed to have been allowed for in the Tender.

The Contractor shall supply all consumables and cleaning materials necessary for the proper execution and performance of the maintenance and servicing.

20.5 Rates

The rates as given by the Tenderer in the Price Schedules, shall apply at all times, inclusive of emergency repairs at surrounding facilities within a 100km radius from the contracted facility. The Regional Representative reserves the right to add to, or omit from, the list. Additions shall be evaluated, either as mutually agreed, or from costs per supplier's invoice plus mark-up in the case of "Variable Cost" items.

20.6 Management

The Contractor undertakes to:

- Arrange in collaboration with the contact person of the User Department regarding access to the premises, in order to execute the required service.
- Ensure that all his/her staff adheres to the arrangements in this document and that no UNAUTHORISED INTERUPTION OF FIRE DETECTION SERVICES will occur due to interventions by the contractor's staff without prior written approval from the facility manager.
- Take adequate precautions to prevent damage to buildings, and fittings and furnishing, inside the premises and elsewhere on the site.
- Accept liability for, and to indemnify the State against, any claims whatsoever arising from his conduct and/or the conduct of his employees.
- Safeguard all his employees in accordance with the Regulations of the Unemployment Insurance Act 63 of 2001, (latest amendments).
- and any amendments thereof.
- Comply with all By-laws and requirements of the Local Authority.
- Implement an approved management system and procedures in accordance with this document

20.7 Execution of services

In the event of failure of the Contractor to maintain and/or repair any installation, or having committed any breach in terms of the conditions hereof, such failure or breach shall be dealt with as follows;

In the event of failure of the Contractor to maintain and/or repair any installation to the satisfaction of the Regional Representative, the latter reserves the right to make any arrangements necessary or expedient in regard to said maintenance and/or repairs to any installation appearing in the Equipment Schedules attached hereto, and the Contractor shall be liable to the State for payment of any additional expenditure thereby incurred, as well as for payment of damages which the State may have suffered as a result of the Contractor's default or negligence.

In the event of it becoming evident that there is any deterioration or defects, in part or as a whole of the system or systems to be maintained under this contract, especially towards the end of the maintenance contract period, such a deterioration or defect shall be rectified and made good by the Contractor. Failure to do so, either the incoming Contractor or others will do such rectifications and the cost thereof shall then be for the account of the outgoing Contractor.

In the event of the Contractor having committed any breach whatsoever of the terms and conditions hereof, the Regional Representative shall, on behalf of the State, be entitled to give the Contractor seven (7) days written notice, requiring the Contractor to remedy such breach, and if the Contractor shall thereafter continue to be in breach, the Department shall thereupon have the right forthwith to declare this agreement cancelled without any further notice thereof to the Contractor.

20.8 Qualified trained staff

The Contractor shall at all times use competent and trained staff, directly employed and supervised by him, and shall take all reasonable care to maintain the installations and keep it in proper operating condition. All electronic, electrical and other specialised work shall be executed by, or under the direct supervision of, a registered and qualified SAQCC Registered technician. The SAQCC technician must display his card at all times while on site. No work will be done or allowed on site in the absence of the registered and qualified SAQCC technician, specifically fire detection.

NOTE:

The Department reserves the right to call for proof of artisans' qualifications. If so required, the Contractor shall submit the necessary qualification certificates and/or papers.

The number of staff to be employed by the successful Tenderer must be adequate to fulfill the maintenance program as detailed in the equipment list to be maintained. This program must be strictly adhered to.

The maintenance team must be established to complete the program in time and be supplied with their own tools and transport for the purpose of their maintenance duties. All tools to be used/ provided to the service teams shall be of the good quality.

In addition to the above, a service crew must be on standby for routine maintenance as well as emergency call outs and repairs as detected by the maintenance teams detailed above.

The actual number of maintenance / service personnel as well as the actual number of service teams will be discussed and confirmed with the successful Tenderer prior to the signing of the Maintenance Contract to complete the Maintenance Schedule in line with the proposed Maintenance Program.

The successful contractor is required to provide a full maintenance and service crew that will comprise of the following staff members:

Qualified Fire Detection technicians

The technician shall have:

- Passed a recognized test as a servicemen level 3 Technician or an appropriate trade test.
- Gained at least five years of post-qualification experience in the installation and maintenance of Fire installations, pertaining to industrial and commercial buildings.
- Extensive knowledge on various reticulation distribution fire panels and safety devices.
- He shall be a full-time employment with the company, and in a senior position within the company.
- The full list of his duties shall be as is set out below and in the specification.

A qualified Artisan shall be available, Three Hundred & Sixty-Five (365) days of the year and twenty-four hours (24) a day. This shall also include after hours if required as stated above. When he goes on his annual leave an approved substitute/relieve qualified technician shall take his place. The technician shall be equipped with a cellular phone that shall remain on at all times.

Qualified Electrical Artisan

The Artisan shall have;

- Passed a recognised trade test as an electrician.
- Gained at least five years post post-qualification experience in the installation and maintenance
- of electrical & control installations, pertaining to industrial & commercial buildings.
- Have extensive knowledge on various reticulation distribution boards, switch gear and safety devices.
- He shall be a full-time employee with the company, and in a senior position within the company.

A qualified electrical artisan shall be available, three hundred & sixty-five (365) days of the year and twenty-four hours (24) a day. This shall also include after hours if required as stated above. When he goes on his annual leave an approved substitute/relieve refrigeration practitioner shall takes his place.

The electrical artisan shall be equipped with a cellular phone that shall remain on at all times. General Assistants:
They shall have background knowledge in the fire detection engineering field for at least twenty-four (24) months, prior to being employed for this contract.

The minimum educational qualification for these positions is not applicable. The duties of the general assistants are as set out in this specification. The general assistant workers shall be divided into two (2) teams, with one or two workers per team.

Overtime may be necessary to be carried out from time to time at any given time. Such overtime shall be carried out after the official working hours as stated, or over a weekend which will include public holidays.

The duties of the above-mentioned labour forces are summarized (but not limited to) that indicated in the table below.

NOTE THAT THE CONTRACTOR IS FULLY RESPONSIBLE FOR COMPLIANCE WITH THE OHSA AND its REGULATIONS IN THE EXECUTION OF ANY DUTIES RELATED TO THIS CONTRACT.

20.9. Material and workmanship of equal quality. All new equipment and workmanship shall be guaranteed for a period of 12 months.

Duties	***Responsibility***
Fault finding which will include all minor repairs, replace components etc.Fault-finding/repairs to control panels and any other equipment. Measuring and testing for verifying compliance. Compiling of the monthly claim forms, writing up of all logbooks etc.	Serviceman and Commissioner
Testing of equipment under supervision. Checking and tightening of fasteners under supervision. Maintenance of panels and boards under supervision. Checking and updating of legends General supervision of all staff including the supervision of the staff plus staffdress and discipline. Progress reports time sheets, job cards etc.Visual inspection of systems. Battery tests Writing up of all reports on equipment etc	Installer
Cleaning of all parts, plant rooms, painting of plant rooms, and painting ofexterior of equipment. All general labour.	Cabler

All replacement parts and spares shall comply fully with all the specifications of the original parts.

Substitute electronic components will be acceptable, PROVIDED that they are equal to, and of the same quality as, or superior to, the original components and are approved, in writing, by the Department.

Any other parts, spares and materials that are used, shall conform to SANS Specifications and shall, where possible, carry the SANS mark of approval.

Substitute parts, as well as the serial numbers of the original and new components, shall be entered on the service sheets and in the maintenance/repair logbook referred to in the tender document.

The Contractor shall obtain, and cede to the Department, any supplier's or factory guarantees of repaired or replaced components and shall ensure that such guarantees are not jeopardized in any way. The guarantee cards for repaired or replaced components shall also be attached to the service sheets and maintenance/repair logbook.

20.10 Uncertainty about scope

Should the Contractor be uncertain about the scope of any work to be executed under this contract, the Department shall be immediately requested to clarify any instruction or scope which is not clear.

20.11 Call-out response time and applicable penalties

It is expected of the contractor to relate his actions in respect of callouts, repairs and general maintenance to specific prescribed response and repair times. Depending on the urgency of the call-out, the response times may vary, and the table below indicates maximum timespans.

Callout Type	Response Time	Penalty per Hour
Emergency Callout	1 Hours	R300.00
Urgent Callout	2 Hours	R100.00
Normal Callout	24 Hours	R50.00

Each callout shall be regarded as a separate task order. Approval for the callout shall be obtained by the contractor from the site representative.

20.12 Task order procedure

Restoration of the existing systems, maintenance thereof and repairs thereto, as and when required, in accordance with the Tender document shall be the sole responsibility of the Contractor in order to achieve and guarantee the performance of the system.

A. All repair work amounting to less than R1 000.00 (incl VAT) can be executed immediately without permission. Proof of cost to contractor and invoicing to follow.

B. For any repairs with a cost in excess of R1 000.00 but less than R5 000.00 (incl VAT), a formal quotation of cost of repair should be submitted to the site representative for approval and issuing of an official task order, before commencing with the work.

C. For repairs in excess of R5 000.00 (incl VAT) a formal quotation of cost of repair should be forwarded to the Engineer for approval and issuing of an official task order, before commencing with the work.

Please Note:
The department reserves the right to call for quotations from multiple suppliers where applicable.
All claims shall be accompanied by proof of cost to contractor e.g. Invoices for material and specialised services

20.13 Hours of work

Official working hours for this contract is 07:30 until 16:00 and this shall be strictly adhered to unless specifically requested to perform work outside of these hours.
In addition to normal working hours, the contractor shall be available to conduct work outside of these hours to suit the department's functions and operational requirements. Such work done outside normal working hours shall be at the Contractor'' own risk and costs.
All work, where possible, shall be done during normal working hours unless prior arrangements are made to work outside of normal working hours.

The contractor may be requested by the facility manager from time to time to perform some services, testing and repairs outside normal working hours, not to interfere with hospital operations. Such overtime shall be carried out after the official working hours as is stated, or over a weekend, which will include public holidays. In these instances, the additional costs will be for the cost of the Department of Health.

20.14 Emergency repairs and services

Emergency services after normal working hours shall be executed on the request of an official of the User Department. This shall be logged on the service sheets in the site maintenance logbook and the quarterly report. The Contractor shall ensure that the official of the User Department signs the sheets, logbook and

quarterly report in respect of emergency callouts. The Contractor shall provide 24 hours stand-by services for emergency callouts and emergency repairs.

20.15 Contract price adjustments

The contract price(s) shall remain fixed for 36 calendar months, except for in the case of statutory increases, e.g. changes in taxes. The contract price(s) shall be subject to negotiated increase, if absolutely unavoidable, should the contract be extended for one or more further periods, each period not exceeding 3 months. The negotiated increase shall not exceed the increase as calculated in accordance with the SEIFSA indices of Actual Labour Costs.

20.16 Maintenance service control system

The Contractor shall, in accordance with the tender document,

a) Prepare, supply and maintain, for record purposes, a site maintenance/repair logbook in the master control station/room at each of the sites included in the contract;
b) Prepare and submit written quarterly reports comprising schedules and service sheets.
c) Marking of Equipment Serviced - All parts serviced at a quarterly maintenance is to be marked visually to establish that it has been checked. Therefore, all parts serviced during a quarterly maintenance shall be marked with a sticker using the following standard colour scheme:

Quarter 1 : White – Major Service
Quarter 2 : Blue – Minor Service 1
Quarter 3 : Green – Minor Service 2
Quarter 4 : Yellow – Minor Service 3

When doing maintenance on a system which was previously marked during maintenance with stickers, the old sticker shall be removed and the new one placed over the old one and shall include written on it the year (15) to represent 2015 for instance. Both the technician that serviced the item and the Health Representative that witnessed that the service was done will sign the sticker with the date the equipment was serviced. The sticker shall be no larger than a R2 coin and shall be placed on an area that is visible from ground level.

20.17 Accounts and payments

Accounts submitted by the Contractor for services rendered, shall be accompanied by a service sheet and quarterly report, duly signed and countersigned. The order and tender number and name a MUST appear on all documents submitted to the Regional Representative. Separate accounts, service sheets and quarterly reports shall be submitted by the Contractor for every site which forms part of this contract. Scheduled service and preventative maintenance shall be billed once every 3 months starting from the 3rd month after the official site handover for Servicing and Maintenance. Accounts shall be submitted on the 25th of the billing month. Additional payments for callouts or extra work including travel and labour shall be invoiced together with the quarterly invoice unless prior arrangement is made with the employer's representative. The relevant task orders shall accompany the invoice. Normal preventative maintenance and additional work shall not be included on a single invoice. Separate invoices shall be submitted.

NOTE:
Any errors in the compilation of the log-sheets, quarterly report, service sheets or accounts discovered at a later stage, shall be rectified and any overpayment made to the Contractor will be recovered by the Department all in accordance with the Contract.

20.18 Payment for variable portion of work

a) In terms of the tender document, the Contractor shall deem to have allowed in his tender price for all maintenance services, labour, transport, equipment, breakdowns, spares, repairs, replacements, stocking of spares, profit etc. to perform all the preventative maintenance work.

b) The contractor will be remunerated for breakdowns, spares, repairs, replacements which include profit etc. NB travelling costs will be deemed to be included in the fixed mark up. No claims will be considered for travelling.
c) With regard to restoration of the system, payment will be made to the Contractor in accordance with Section 19 - Restoration of the system.
d) With regard to extra work or work on other sites payment will be made according to the rates tendered in this tender document and Section 19 - Restoration of the system.

20.19 Payment for variable portion of work

a) In terms of the tender document, the Contractor shall deem to have allowed in his tender price for all maintenance services, labour, transport, equipment, breakdowns, spares, repairs, replacements, stocking of spares, profit etc. to perform all the preventative maintenance work.
b) The contractor will be remunerated for breakdowns, spares, repairs, replacements which include profit etc. NB travelling costs will be deemed to be included in the fixed mark up. No claims will be considered for travelling.
c) With regard to restoration of the system, payment will be made to the Contractor in accordance with Section 19 - Restoration of the system.
d) With regard to extra work or work on other sites payment will be made according to the rates tendered in this tender document and Section 19 - Restoration of the system.

20.20 Payment

The first section of the invoice shall be for the Routine Maintenance done and the other section for the Repairs done. All original invoices from the suppliers (proof of purchase) shall accompany the invoices plus a Photostat copy of the original invoice from the supplier. Also, to be attached shall be a signed copy for approval of repairs in a similar format as the template on page 105.

Payment of the above invoices shall be affected within thirty (30) days as from the above date. All payments will be deposited directly into the Contractor's banking account and no other procedures are acceptable.

The following information must be printed on the invoice:

- Tender number and contract name
- Order number
- Invoice number and Invoice date
- Progress claim number, i.e., Claim 1 of 4

20.20.1 Invoice section the Maintenance (quarterly normal labour):

The tender price that is to be submitted will be sub divided to represent the financial year of the Department. Each claim shall represent 1/4 of the contract price for the financial year. The contractor will thus hand in 4 claims per year for preventative maintenance. The invoice shall be set out as follows:

- Total contract price and period.
- Total of the previous amount claimed.
- Current claim number (1-4 of year).
- Date.

Should the labour rate change during the duration of the thirty-six (36) month period or prior to the annual increase/s, such increase/s shall be applied for in the following manner. Proof of documentation from the Council representing this contract shall be submitted to the Representative/Agent for approval of an increase. Proof of payment made to workers during this period also to be submitted

All increases will be applied for in writing and will be hand delivered to the Representative/Agent. No fax copies related to the above matter will be allowed.

20.20.2 Invoice section for Repairs (Overtime, Spares/Equipment):

The repairs claim is for all work carried out by the refrigeration/ chiller/air-conditioning technician, including any/all overtime work that has been carried out by the maintenance team during the period in question. The original plus a photostat copy of the original invoice shall accompany all claims for spares purchased during the quarter from the supplier.

The signed purchase approved form shall accompany the invoices.

The Contractor shall take special note that the Representative/Agent prior to any purchase-taking place must approve all purchases for equipment, spares, consumables etc. A minimum of three quotations must be submitted for approval in cases where the supplier or manufacturer of the equipment is not the sole agent. Should approval not be obtained prior to the purchase-taking place, such purchases will not be taken into consideration for payment.

The invoice, claiming for spares equipment & consumables shall clearly show the percentage of mark-up and it must be in accordance with the Quotation

In relation to service work outside of the routine maintenance schedule, additional work will be done/approved strictly in accordance with Paragraph 20.12 - OFFICIAL ORDER AND TASK ORDER PROCEDURE of this contract. The same ruling will apply in relation to all Overtime worked.

The following documents must accompany the invoices:

- A copy of the Approved Task Order.
- A copy of authorised repairs timesheets.
- A copy of all invoices for spares purchased plus Photostats of such invoices.
- A copy of the authorised spares purchases list.
- All invoices will include VAT as a separate item on the invoice.

No advance payment will be permitted.

No faxed copies/ photostat copies of any original invoice will be accepted as proof of any work that may have been rendered or of any spares purchased.

20.21 Rubbish and waste

All rubbish and waste arising from the work for the day shall be removed by the Contractor, and the site(s) and building(s) left clean and tidy.

ANNEXURE 4: Equipment Schedules per Building

Panel Details

Project : **GSH Annex** Page 1

Panel : **1** Name : **P01 Comm. Centre Groote Schuur Hosp** Type : **ZP3 EN54 4 Loop/128 Zone**
Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **10F3**
Language : **English**

Passwords :

User Name	Password	Access Level
	2000	2
	3000	3
Master	4621	4

Installed Devices :

Line : **1** Devices : **2** Spares : **0** Available : **125**

Device Type	Quantity
I/F Fire ZP740/5-T24 ZP740/5-T24	1
Emulated Fire Emulated 2-24	1

Line : **2** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Line : **3** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Line : **4** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Installed Devices Totals : Devices : **2** Spares : **0** Available : **506**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : **2** Name : **P02 L Block Groote Schuur Hosp** Type : **ZP3 EN54 4 Loop/128 Zone**
Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **2186**
Language : **English**

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
Master	4621	4

Installed Devices :

Line : **1** Devices : **105** Spares : **0** Available : **22**

Device Type	Quantity
Optical Smoke ZP730 ZP730	82
Callpoint ZP785 ZP785	6
I/F Fire ZP740/5-T24 ZP740/5-T24	2
Address Relay ZP750/A51 ZP750	6
Paradigm Multi ZP832 ZP832	3
Line Sounder ZP755 ZP755	5
Heat ZP720-3 ZP720-3	1

Line : **2** Devices : **114** Spares : **0** Available : **13**

Device Type	Quantity
Optical Smoke ZP730 ZP730	94
Callpoint ZP785 ZP785	6
I/F Fire ZP740/5-T24 ZP740/5-T24	2

Panel Details

Project : **GSH Annex**

Address Relay ZP750/A51 ZP750	6
Paradigm Multi ZP832 ZP832	1
Line Sounder ZP755 ZP755	5

Line : 3 Devices : 73 Spares : 0 Available : 54

Device Type	Quantity
Optical Smoke ZP730 ZP730	45
Callpoint ZP785 ZP785	6
Address Relay ZP750/A51 ZP750	1
Optic/Heat ZP732 ZP732	17
Line Sounder ZP755 ZP755	4

Line : 4 Devices : 127 Spares : 0 Available : 0

Device Type	Quantity
Optical Smoke ZP730 ZP730	100
Callpoint ZP785 ZP785	9
Address Relay ZP750/A51 ZP750	5
Paradigm Multi ZP832 ZP832	1
Line Sounder ZP755 ZP755	8
Heat ZP720-3 ZP720-3	4

Installed Devices Totals : Devices : 419 Spares : 0 Available : 89

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-RDUB1	Peripheral	256	1.02	Remote Display Unit 1 (RDU)
ZP3-RDUB1	Peripheral	257	1.02	Remote Display Unit 2 (RDU)
ZP3-RDUB1	Peripheral	258	1.02	Remote Display Unit 3 (RDU)
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
ZP3AB-SCB-D	Peripheral	386	1.01	Serial Control Bus Driver Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : 3 Name : **P03 OPD MAIN Groote Schuur Hosp** Type : **ZP3 EN54 4 Loop/128 Zone**

Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **D114**

Language : **English**

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
	4621	4

Installed Devices :

Line : 1 Devices : 62 Spares : 0 Available : 65

Device Type	Quantity
Optical Smoke ZP730 ZP730	56
Callpoint ZP785 ZP785	3
Line Sounder ZP755 ZP755	3

Line : 2 Devices : 77 Spares : 0 Available : 50

Device Type	Quantity
Optical Smoke ZP730 ZP730	69
Callpoint ZP785 ZP785	4
Line Sounder ZP755 ZP755	4

Line : 3 Devices : 117 Spares : 0 Available : 10

Device Type	Quantity
Optical Smoke ZP730 ZP730	92
Callpoint ZP785 ZP785	11

Panel Details

Project : **GSH Annex**

I/F Fire ZP740/5-T24 ZP740/5-T24	2
Address Relay ZP750/A51 ZP750	4
Line Sounder ZP755 ZP755	8

Line : 4 Devices : 0 Spares : 0 Available : 127

Device Type	Quantity
No Devices Programmed	

Installed Devices Totals : Devices : 256 Spares : 0 Available : 252

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-RDUB1	Peripheral	256	1.02	Remote Display Unit 1 (RDU)
ZP3-RDUB1	Peripheral	257	1.02	Remote Display Unit 2 (RDU)
ZP3-RDUB1	Peripheral	258	1.02	Remote Display Unit 3 (RDU)
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
ZP3AB-SCB-D	Peripheral	386	1.01	Serial Control Bus Driver Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : 4 Name : P04 Maternity Groote Schuur Hosp Type : ZP3 EN54 4 Loop/128 Zone

Installation Date : 01/01/2002 Serial No : S/W Number : 71910 Software Version : 3.12 Checksum : 65E6

Language : English

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
Master	4621	4

Installed Devices :

Line : 1 Devices : 106 Spares : 0 Available : 21

Device Type	Quantity
Optical Smoke ZP730 ZP730	70
Callpoint ZP785 ZP785	11
I/F Fire ZP740/5-T24 ZP740/5-T24	5
Address Relay ZP750/A51 ZP750	9
Line Sounder ZP754 ZP754	1
Paradigm Multi ZP832 ZP832	4
Line Sounder ZP755 ZP755	5
Heat ZP720-3 ZP720-3	1

Line : 2 Devices : 58 Spares : 0 Available : 69

Device Type	Quantity
Optical Smoke ZP730 ZP730	44
Callpoint ZP785 ZP785	6
I/F Fire ZP740/5-T24 ZP740/5-T24	1
Address Relay ZP750/A51 ZP750	2
Line Sounder ZP755 ZP755	2
Heat ZP720-3 ZP720-3	3

Line : 3 Devices : 112 Spares : 0 Available : 15

Device Type	Quantity
Optical Smoke ZP730 ZP730	91
Callpoint ZP785 ZP785	9
I/F Fire ZP740/5-T24 ZP740/5-T24	1
Address Relay ZP750/A51 ZP750	4
Paradigm Multi ZP832 ZP832	1
Line Sounder ZP755 ZP755	5

Panel Details

Project : **GSH Annex**

Heat ZP720-3 ZP720-3	1

Line : **4** Devices : **95** Spares : **0** Available : **32**

Device Type	Quantity
Optical Smoke ZP730 ZP730	71
Callpoint ZP785 ZP785	9
I/F Fire ZP740/5-T24 ZP740/5-T24	1
Address Relay ZP750/A51 ZP750	11
Line Sounder ZP755 ZP755	3

Installed Devices Totals : Devices : **371** Spares : **0** Available : **137**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-RDUB1	Peripheral	256	1.02	Remote Display Unit 1 (RDU)
ZP3-RDUB1	Peripheral	257	1.02	Remote Display Unit 2 (RDU)
ZP3-RDUB1	Peripheral	258	1.02	Remote Display Unit 3 (RDU)
ZP3-RDUB1	Peripheral	260	1.02	Remote Display Unit 5 (RDU)
ZP3-RDUB1	Peripheral	261	1.02	Remote Display Unit 6 (RDU)
ZP3-RDUB1	Peripheral	262	1.02	Remote Display Unit 7 (RDU)
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
ZP3AB-SCB-D	Peripheral	386	1.01	Serial Control Bus Driver Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : **5** Name : **P05 HRD** **Groote Schuur Hosp** Type : **ZP3 EN54 4 Loop/128 Zone**

Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **8A26**

Language : **English**

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
Master	4621	4

Installed Devices :

Line : **1** Devices : **58** Spares : **0** Available : **69**

Device Type	Quantity
Optical Smoke ZP730 ZP730	43
Callpoint ZP785 ZP785	11
Line Sounder ZP754 ZP754	1
Line Sounder ZP755 ZP755	1
Heat ZP720-3 ZP720-3	2

Line : **2** Devices : **43** Spares : **0** Available : **84**

Device Type	Quantity
Optical Smoke ZP730 ZP730	35
Callpoint ZP785 ZP785	3
Address Relay ZP750/A51 ZP750	2
Paradigm Multi ZP832 ZP832	1
Line Sounder ZP755 ZP755	2

Line : **3** Devices : **53** Spares : **0** Available : **74**

Device Type	Quantity
Optical Smoke ZP730 ZP730	45
Callpoint ZP785 ZP785	3
Address Relay ZP750/A51 ZP750	1
Line Sounder ZP755 ZP755	3
Heat ZP720-3 ZP720-3	1

Panel Details

Project : **GSH Annex**

Line : 4 Devices : 0 Spares : 0 Available : 127

Device Type	Quantity
No Devices Programmed	

Installed Devices Totals : Devices : 154 Spares : 0 Available : 354

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-RDUB1	Peripheral	256	1.02	Remote Display Unit 1 (RDU)
ZP3-RDUB1	Peripheral	257	1.02	Remote Display Unit 2 (RDU)
ZP3-RDUB1	Peripheral	258	1.02	Remote Display Unit 3 (RDU)
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
ZP3AB-SCB-D	Peripheral	386	1.01	Serial Control Bus Driver Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : 6 Name : P06 OMB MAIN Groote Schuur Hosp Type : ZP3 EN54 4 Loop/128 Zone

Installation Date : 01/01/2002 Serial No : S/W Number : 71910 Software Version : 3.12 Checksum : B82E

Language : English

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
	4621	4

Installed Devices :

Line : 1 Devices : 29 Spares : 0 Available : 98

Device Type	Quantity
Ionisation ZP710 ZP710	3
Heat ZP720 ZP720	2
Optical Smoke ZP730 ZP730	17
Callpoint ZP785 ZP785	3
I/F Non Fire ZP740/5-T52 ZP740/5-T52	2
Address Relay ZP750/A51 ZP750	2

Line : 2 Devices : 33 Spares : 0 Available : 94

Device Type	Quantity
I/F Fire ZP740/5-T24 ZP740/5-T24	1
I/F Conv. ZP570 / A70 ZP570	21
I/F Non Fire ZP740/5-T52 ZP740/5-T52	2
I/F Secur L ZP740/5-T62 ZP740/5-T62	2
Address Relay ZP750/A51 ZP750	7

Line : 3 Devices : 33 Spares : 0 Available : 94

Device Type	Quantity
Optical Smoke ZP730 ZP730	2
Callpoint ZP785 ZP785	1
I/F Fire ZP740/5-T24 ZP740/5-T24	2
I/F Conv. ZP570 / A70 ZP570	9
I/F Non Fire ZP740/5-T52 ZP740/5-T52	8
I/F ControlSw ZP740/5-T53 ZP740/5-T53	1
Address Relay ZP750/A51 ZP750	10

Line : 4 Devices : 101 Spares : 0 Available : 26

Device Type	Quantity
Ionisation ZP710 ZP710	1
Heat ZP720 ZP720	2
Optical Smoke ZP730 ZP730	48

Panel Details

Project : **GSH Annex**

Callpoint ZP785 ZP785	9
I/F Fire ZP740/5-T24 ZP740/5-T24	3
I/F Conv. ZP570 / A70 ZP570	25
I/F Non Fire ZP740/5-T52 ZP740/5-T52	3
Address Relay ZP750/A51 ZP750	8
Line Sounder ZP755 ZP755	1
Heat ZP720-3 ZP720-3	1

Installed Devices Totals : Devices : **196** Spares : **0** Available : **312**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : **7** Name : **P07 OMB N51/M51 Groote Schuur Hosp** Type : **ZP3 EN54 1 Loop/128 Zone**

Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **09C2**

Language : **English**

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
	4621	4

Installed Devices :

Line : **1** Devices : **63** Spares : **0** Available : **64**

Device Type	Quantity
Ionisation ZP710 ZP710	45
Heat ZP720 ZP720	3
Optical Smoke ZP730 ZP730	3
Callpoint ZP785 ZP785	8
Address Relay ZP750/A51 ZP750	2
Line Sounder ZP754 ZP754	1
Line Sounder ZP755 ZP755	1

Installed Devices Totals : Devices : **63** Spares : **0** Available : **64**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : **8** Name : **P08 OMB J51/52 Groote Schuur Hosp** Type : **ZP3 EN54 4 Loop/128 Zone**

Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **98AE**

Language : **English**

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
Master	4621	4

Installed Devices :

Line : **1** Devices : **127** Spares : **0** Available : **0**

Device Type	Quantity
Optical Smoke ZP730 ZP730	90
Callpoint ZP785 ZP785	7
I/F Fire ZP740/5-T24 ZP740/5-T24	6

Panel Details

Project : **GSH Annex**

Address Relay ZP750/A51 ZP750	9
Line Sounder ZP755 ZP755	13
Heat ZP720-3 ZP720-3	2

Line : **2** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Line : **3** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Line : **4** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Installed Devices Totals : Devices : **127** Spares : **0** Available : **381**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-DISPLAY	Peripheral	384	3.00	Local Display Board (Local)
LINE-DRIVER	Peripheral	387	3.05	Main Board Line Driver PIC (Local)

Panel : **9** Name : **P09 Maternity H+G Groote Schuur Hosp** Type : **ZP3 EN54 4 Loop/128 Zone**

Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **7D68**

Language : **English**

Passwords :

User Name	Password	Access Level
	2000	2
	9111	3
	4621	4

Installed Devices :

Line : **1** Devices : **89** Spares : **0** Available : **38**

Device Type	Quantity
Optical Smoke ZP730 ZP730	72
Callpoint ZP785 ZP785	3
Address Relay ZP750/A51 ZP750	4
Emulated Non-Fire Emulated 2-52	1
Line Sounder ZP755 ZP755	7
Heat ZP720-3 ZP720-3	2

Line : **2** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Line : **3** Devices : **94** Spares : **0** Available : **33**

Device Type	Quantity
Optical Smoke ZP730 ZP730	69
Callpoint ZP785 ZP785	10
Line Sounder ZP755 ZP755	13
Heat ZP720-3 ZP720-3	2

Line : **4** Devices : **108** Spares : **0** Available : **19**

Device Type	Quantity
Optical Smoke ZP730 ZP730	89
Callpoint ZP785 ZP785	1
Address Relay ZP750/A51 ZP750	17
Emulated Non-Fire Emulated 2-52	1

Panel Details

Project : **GSH Annex**

Installed Devices Totals : Devices : **291** Spares : **0** Available : **217**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-DISPLAY	**Peripheral**	**384**	**3.00**	**Local Display Board (Local)**
LINE-DRIVER	**Peripheral**	**387**	**3.05**	**Main Board Line Driver PIC (Local)**

Panel : **10** Name : **P10 OPD SOUTH** **Groote Schuur Hosp** Type : **ZP3 EN54 2 Loop/128 Zone**
Installation Date : **01/01/2002** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **68C3**
Language : **English**

Passwords :

User Name	Password	Access Level
	2000	**2**
	9111	**3**
	4621	**4**

Installed Devices :

Line : **1** Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Line : **2** Devices : **87** Spares : **0** Available : **40**

Device Type	Quantity
Optical Smoke ZP730 ZP730	**61**
Callpoint ZP785 ZP785	**5**
Address Relay ZP750/A51 ZP750	**7**
Line Sounder ZP755 ZP755	**13**
Heat ZP720-3 ZP720-3	**1**

Installed Devices Totals : Devices : **87** Spares : **0** Available : **167**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-DISPLAY	**Peripheral**	**384**	**3.00**	**Local Display Board (Local)**
LINE-DRIVER	**Peripheral**	**387**	**3.05**	**Main Board Line Driver PIC (Local)**

Panel : **32** Name : **P32 D03 MAIN** **Groote Schuur Hosp** Type : **Maestro Graphics**
Installation Date : **29/09/2020** Serial No : S/W Number : **77300** Software Version : **1.00** Checksum :
Language : **English**

Passwords :

User Name	Password	Access Level
No Passwords Programmed		

Installed Devices :

Line : Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Installed Devices Totals : Devices : **0** Spares : **0** Available : **127**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
No Hardware Modules Installed				

Panel : **33** Name : **P33 D03 CCTV** **Groote Schuur Hosp** Type : **Maestro Graphics**
Installation Date : **29/09/2020** Serial No : S/W Number : **77300** Software Version : **1.00** Checksum :
Language : **English**

Passwords :

User Name	Password	Access Level

Panel Details

Project : **GSH Annex** Page 9

No Passwords Programmed

Installed Devices :

Line : Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Installed Devices Totals : Devices : **0** Spares : **0** Available : **127**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
No Hardware Modules Installed				

Panel : **34** Name : **P34 OMB E47** **Groote Schuur Hosp** Type : **Maestro Graphics**
Installation Date : **29/09/2020** Serial No : S/W Number : **77300** Software Version : **1.00** Checksum :
Language : **English**

Passwords :

User Name	Password	Access Level
Master	**2000**	**4**

Installed Devices :

Line : Devices : **0** Spares : **0** Available : **127**

Device Type	Quantity
No Devices Programmed	

Installed Devices Totals : Devices : **0** Spares : **0** Available : **127**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
No Hardware Modules Installed				

Panel Details

Project : **William Slater P01** Page 1

Panel : **1** Name : **WILLIAM SLATER FIRE ALARM SYSTEM** Type : **ZP3 EN54 1 Loop/128 Zone**
Installation Date : **01/12/2020** Serial No : S/W Number : **71910** Software Version : **3.12** Checksum : **EA81**
Language : **English**

Passwords :

User Name	Password	Access Level
Master	**2000**	**4**

Installed Devices :

Line : **1** Devices : **110** Spares : **0** Available : **17**

Device Type	Quantity
Optical Smoke ZP730 ZP730	**77**
Callpoint ZP785 ZP785	**15**
Address Relay ZP750/A51 ZP750	**2**
Line Sounder ZP755 ZP755	**13**
Heat ZP720-3 ZP720-3	**3**

Installed Devices Totals : Devices : **110** Spares : **0** Available : **17**

Installed Hardware :

Type	Group	Addr	S/W Ver	Comments
ZP3-DISPLAY	**Peripheral**	**384**	**3.00**	**Local Display Board (Local)**
LINE-DRIVER	**Peripheral**	**387**	**3.05**	**Main Board Line Driver PIC (Local)**

ANNEXURE 5

Restoration Information – Section F of Price List

ANNEXURE 5.1: RESTORATION OF THE ZITON FIRE DETECTION SYSTEM at OLD MAIN BUILDING Groote Schuur Hospital

OMB Fire Detection System Design & Drawings in accordance with SAQCC and SANS for Hospitals.

Scope of Design:

QTY	**DESCRIPTION**
3	Ziton 1 Loop Addressable Fire Panel English with Battery and Network
7	Ziton 2 Loop Addressable Fire Panel English with Battery and Network Card
90	Intelligent Addressable MCP - ZIT (Red)
90	Omnidirectional sounder & indicator, red (102 dBA)
90	Horn sounder with dual front & rear sound paths, white (102 dBA)
1676	Intelligent addressable dual optical smoke detector
15	Intelligent addressable heat detector
145	A50E-2 A Series mini relay unit
145	Interface Units with Door Contacts
20000	PH30 Fire Rated Cable
200	PH120 Fire Rated Cable
6500	PC Sum for Route Build Bosal

ANNEXURE 5.2: RESTORATION OF THE PA SYSTEM at OLD MAIN BUILDING Groote Schuur Hospital

OMB PA System Design & Drawings in accordance with Relevant Standards and Regulations for Hospitals.

Scope of Design:

QTY	DESCRIPTION
1	Controller
1	Router
4	Power amplifier, 2x500W
1	Call station
1	Call station extension
40	End-of-line supervision module
1	Battery charger, 24V
2	100AH BATTERY
440	Fire ceiling speaker Power: 6W,100v, (diameter 20cm)
8000	PH120 Fire Rated Cable
1760	PC Sum for Route Build Bosal

ANNEXURE 6: OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

AGREEMENT MADE AND ENTERED INTO BETWEEN THE DEPARTMENT OF HEALTH & WELLNESS (HEREINAFTER CALLED THE "WCDOHW")

AND

……..……..……,
(Supplier/Mandatary/Company/CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 85 OF 1993 AS AMENDED.

I, ……..……..……..…..,

representing ……..……..……as an employer

The Contractor acknowledges that it is an employer in its own right, and will be responsible for compliance with the OHS Act and regulations while its employees, agents, or subcontractors are performing work for the Department.
I furthermore confirm that I am/we are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/We are insured with an approved licensed compensation insurer.

COID ACT Registration Number: ……..

OR Compensation Insurer: .....Policy No.: .....

The Contractor undertakes to:

Comply with the OHS Act, regulations, and all applicable safety standards during the execution of work.
Provide a written Health and Safety Policy applicable to the work performed.
Appoint in writing a competent person as defined in the Act to oversee health and safety compliance and act as liaison with the Department.
Conduct risk assessments relevant to the work, and provide method statements and safety plans where applicable.
ensure all employees are adequately trained on health and safety applicable to the work and provide proof of such training upon request.
I further undertake to ensure that any subcontractors employed by me will enter into an occupational health and safety agreement separately, and that such subcontractors comply with the conditions set.
I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan submitted and approved in terms thereof.

Signed at ..... on the.....day of.. .....20….

_____ _____
Witness **Mandatary**

Signed at..... on the.....day of.. .....20 ....

_____ _____
Witness **for and on behalf of WCDOHW**