



Province of the
EASTERN CAPE
HEALTH

CONTRACT No. SCMU3-17/18-0332-HO

FOR

**CLUSTER 3
BHISHO HOSPITAL PHASE 1: URGENT REPAIRS
AND MAINTENANCE**

FOR THE DEPARTMENT OF HEALTH

CONSISTING OF THE FOLLOWING:

**VOLUME 1 – THE TENDER
VOLUME 2 – THE CONTRACT**

FEBRUARY 2018

PREPARED FOR:

Eastern Cape Department of Health
Dukumbana Building, Independence Avenue
P.O. Box X0038
BHISHO
6505

PREPARED BY:

Sakhiwo FM Consortium (Pty) Ltd
1 Rochester Street
Vincent
EAST LONDON
5201

NAME OF TENDERER:

INDEX

Content

THE TENDER (Volume 1)

Part 1:	Tendering Procedures
	Copy of Tender Advert
T1.1a	Tender Notice And Invitation To Tender
T1.1b	Invitation To Bid (SBD1) (Part A & B)
T1.2	Tender data
Part 2 :	Agreement and Contract Data
C1.1	Form of Offer and Acceptance
C1.1b	Standard conditions of tender
C1.2	Contract data
C1.3	Fixed Construction Guarantee
C2.2	Bills of Quantities comprising Sections 1 to 5 and Final Summary
	Section 6 Electrical Bills of Quantities
Part 3	Returnable Schedules/Documents
T2.1	List of returnable schedules/documents
T2.2	Returnable schedules/Documents
T2.2a	Resolution for signatory
T2.2b	Resolution of Board of Directors to enter into consortia or JV's
T2.2c	Schedule of proposed Sub-Contractors
T2.2n	Record of addenda to tender documents
T2.2p	Schedule of Plant and Equipment
T2.2r	Compulsory Enterprise Questionnaire
T2.2u	CIDB Grading Certificate – Proof of registration
T2.2v	CIPC Company Registration Certificate
T2.2y	Particulars of Electrical Contractor
	Proof of registration with CSD
SBD 6.1	Preference Points Claim Form In Terms Of The Preferential Procurement Regulations 2017
	Specific bidding conditions for steel products and components for construction
	Guideline for pricing local content
SBD 6.2	Declaration Certificate for Local Production and Content for Designated Sectors
Annex C	Local Content Declaration: Summary Schedule
SBD 4	Declaration of Interest
SBD 8	Declaration of Bidder's Past Supply Chain Management Practices
SBD 9	Certificate of Independent Bid Determination
Annexure G	Letter of Good Standing (Coida)

Annexure H	Sub-contracting to EMEs and QSEs as a condition of Tender
Annexure J	Electrical Sub-Contractor's Wireman's Licence
Annexure L	Product Guarantee Declaration

T2.3	Returnable schedules/Documents
	Functionality criteria
Annexure A	Method Statement
Annexure B1	Key Personnel Qualifications (Construction Manager)
Annexure B2	Key Personnel Qualifications (Construction Supervisor)
Annexure C1	Key Personnel Experience (Construction Project Management)
Annexure C2	Key Personnel Experience (Construction supervisor)
Annexure D	Company Experience
Annexure E	Contactable References
Annexure F	Bank Rating

THE CONTRACT (Volume 2)

Part 1:	Scope of Work
C3.1	Scope of Work
C3.2	Health and Safety Specification
C3.3	HIV/Aids specification with Schedules A-C
C3.4	Contractor's reports
C3.6	Socio Economic Development and Transformation
Part 2:	Pricing data
C2.1	Pricing Instructions
Part 3:	Site Information
C4.1	Site Information
Part 4:	Appendices
C5	Drawings

PART 1: SCOPE OF WORK

SCOPE OF WORKS – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (March 2005 Edition)

Project title:	BHISHO HOSPITAL PHASE 1: URGENT REPAIRS AND MAINTENANCE
Tender No:	SCMU3-17/18-0332-HO

C3.1 Scope of Works

Renovations to Bhisho Hospital

Renovations Bhisho Hospital:

- Replace existing vinyl floor coverings in certain areas with new vinyl sheeting – 42m²
- Replace existing ceilings and cornices with new nailed up ceilings and cornices in certain rooms – 201m²
- Replace broken/storm damaged “asbestos” roof sheeting (approx. 369m²) to Kitchen / Storeroom areas, including replacement of fascia boards and rainwater goods
- Convert 4 rooms to psychiatric units
- Install new steel ceiling and cornice in new psychiatric units – 158m²
- Install vandal safe furniture for new psychiatric units
- Install new exercise yard for psychiatric patients
- Replace existing sanitary fittings with new and replaced damaged pipework where required
- Replace internal and external plaster in certain areas – 191m²
- Paint internal walls, doors, door frames, existing windows and skirting in certain areas
- Replace damaged / broken aprons in certain areas – 180m²
- Install new high security fence at the psychiatric unit yard – 45m

Electrical Installation:

- Electrical installation 2EB or higher

Methodology of Project Execution

- **Project Review**
The work is to be executed in an existing hospital, which shall remain fully functional 24 hours per day and 7 days a week.
- **Restrictions and Constraints**
The completion of the project is urgent and work shall be executed during normal working hours ie 7h00 till 17h00 daily including weekends. Work required to be executed outside of these hours must be arranged with the Facilities Manager and the Chief Executive of the hospital, in advance.
- Noise must be kept to a minimum and within acceptable levels at all times. It is possible that the hospital could impose restricted times for demolition due to sensitive clinical interventions being affected by noise and vibration.
- All shut-offs and tie/cut-ins to existing services must be arranged in advance with the Facilities Manager and a methodology with appropriate mitigation of risks must be prepared by the contractor and submitted to the relevant Professional discipline in

- advance, for approval.
- Dust emanating from the work site must be contained and controlled at all times.
- **Operational Protocols**
- Security is a priority and the site shall be kept safe at all times.
- The approved Health and Safety plan shall be adhered to at all times
- All staff members of the contractor shall wear PPE at all times
- All staff members of the contractor shall be specifically identifiable at all times and to this end shall wear a predetermined coloured overall to be able to enter and work on the site.
- Regular meetings, the frequency of which is to be determined, shall be held with the management of the hospital to ensure a cohesive spirit of co-operation at all times

Order of works

The successful bidder should note that a meeting will be held with the user department and project manager to determine and finalize order of works. Order of works can be finalized at date of site handover, to enable work to commence in the agreed areas from the day of site handover.

Access

Prospective bidders are to fully familiarize themselves with the site and access to the site.

ACCEPTANCE OF TENDERS

The Employer is not bound to accept the lowest, or any tender, or any portion of any tender.

GENERIC HEALTH AND SAFETY SPECIFICATION



HEALTH AND SAFETY SPECIFICATION

Project title:	INFRASTRUCTURE UPGRADE AND MAINTENANCE AT EASTERN CAPE DEPARTMENT OF HEALTH FACILITIES
-----------------------	---

GENERIC HEALTH AND SAFETY SPECIFICATION

TABLE OF CONTENT

1. INTRODUCTION	Page 4
2. KEY ROLE PLAYERS	Page 4
2.1 Client	
2.2 Principal Contractor	
3. LIST OF ABBREVIATIONS	Page 5
4. DEFINITIONS	Page 5, 6
5. KEY REFERENCES	Page 6
6. PURPOSE OF THE PROJECTS SPECIFIC TO HEALTH & SAFETY SPECIFICATION (PSHSS)	Page 6, 7
7. IMPLEMENTATION OF THE PROJECT SPECIFIC TO OCCUPATIONAL HEALTH & SAFETY SPECIFICATIONS (PSHSS)	Page 7, 8
8. APPLICATION	Page 8
9. REQUIREMENTS AT TENDER STAGE	Page 8
10. GENERAL REQUIREMENTS	Page 8 – 11
10.1 Summary of Risks identified during Design	
10.2 Hazard Identification and Risk Assessment (HIRA)	
11. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT	Page 11 – 17
11.1 Scope	
11.2 Scope of Works	
11.3 Structure and Organization of H&S Responsibilities	
11.4 Health & Safety Plan Framework	
11.5 Appointment of Competent Site Personnel	
11.6 Construction Supervision	
11.7 Construction Health & Safety	
11.8 Traffic Safety	
11.9 Construction Vehicles	
11.10 Health and Safety Representatives and H&S Meetings	
11.11 Appointment of Competent Contractors	
12. GENERAL RISK MANAGEMENT	Page 17 – 23
12.1 Health Risks and Medical Surveillance	
12.2 General Environmental Conditions	
12.3 Noise Risks	
12.4 Emergency Procedures	
12.5 First Aiders and First Aid Equipment	
12.6 Fires and Emergency Management	

GENERIC HEALTH AND SAFETY SPECIFICATION

- 12.7 Incident Management and Compensation Claims
- 12.8 Personal Protective Equipment (PPE) and Clothing
- 12.9 Occupational Health & Safety Signage
- 12.10 Induction of Employees and Visitors, General H&S Training
- 12.11 Public and Site Visitor Health & Safety
- 12.12 Awareness

13. MANAGEMENT OF PLANT AND EQUIPMENT

Page 23 – 28

- 13.1 Construction Plant
- 13.2 Plant and Equipment
- 13.3 Operators
- 13.4 Machinery and Power Tools
- 13.5 Portable Electrical Tools / Equipment and Explosive Powered Tools
- 13.6 Hired Plant and Machinery
- 13.7 Vessels under Pressure and Gas Bottles
- 13.8 Hand Tools
- 13.9 Inspection of equipment and tools
- 13.10 Ladders and ladder work
- 13.11 Cranes and lifting equipment
- 13.12 Tower Cranes
- 13.13 Overhead work and suspended loads
- 13.14 Temporary Works (Scaffolding, support work, formwork)
- 13.15 Batch plants

14. WORKING PROCEDURES

Page 29 – 33

- 14.1 Demolition work
- 14.2 Site Works and Excavations
- 14.3 Excavations
- 14.4 Working at Heights
- 14.5 Edge protection
- 14.6 Roof Work
- 14.7 Piling
- 14.8 Asbestos removal / replacement of roof / sheeting
- 14.9 Mechanical Installations
- 14.10 Electrical Work

15. AUDITING

Page 33 – 34

16. OCCUPATIONAL HEALTH

Page 34 – 37

- 16.1 Communication on Site
- 16.2 Care of Workers on Site (Welfare)
- 16.3 Discipline, Alcohol and Substance Abuse

GENERIC HEALTH AND SAFETY SPECIFICATION

- 16.4 Rules of Conduct
- 16.5 Compliance with Rules of Conduct
- 16.6 Electrical Equipment

17. SAFETY RULES WITH RESPECT TO WORK TO HEALTHCARE FACILITIES

Page 37 – 38

18. PROJECT SPECIFIC RISKS

Page 38 – 39

19. PROCEDURES TO MANAGE PROJECT RISKS

Page 39

- 19.1 Training and competency.
- 19.2 Daily Task Specific Risk Assessments.
- 19.3 Permits.
- 19.4 Checklists and registers.

20. HEALTH & SAFETY FILE

Page 39 – 40

21. NON-CONFORMANCES

Page 40 – 41

22. MEASUREMENT AND PAYMENT

Page 41 – 43

ANNEXURE A

ANNEXURE B

ANNEXURE C

HEALTH AND SAFETY SPECIFICATION

1. INTRODUCTION AND BACKGROUND

- 1.1. The Construction Regulations No. 3705 of 7th February 2014 requires the Client to prepare a pre-construction Health and Safety Specification, with all existing risks identified.
- 1.2. The Eastern Cape Department of Health (ECDoH) is tasked to provide Healthcare operational facilities across the Eastern Cape.
- 1.3. The ECDoH has a responsibility to limit its risk by ensuring a zero tolerance and best practice approach to Contractors and those affiliated to a construction project. Thus, a high premium is placed on the health and safety (H&S) of ECDoH stakeholders, which include its employees, professional service providers, public and its physical assets.
- 1.4. The responsibilities that the Department and relevant stakeholders have toward its employees are captured in, but not limited to this document. The responsibilities stem from both moral, civil and a variety of legal obligations.
- 1.5. The Principal Contractor is to take due cognisance of the above statement.
- 1.6. The ECDoH, as the Client and where there is an appointed H&S Agent on its behalf, shall provide Health & Safety Specification (HSS) for the project and provide the Principal Contractor/s making a bid or appointed to perform construction work for the project, or parts thereof such documentation to prepare project specific health and safety plan.
- 1.7. This Health and Safety Specification complies with the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations of February 2014.
- 1.8. This Health and Safety Specification is to be used as a Management tool to comply with the Occupational Health and Safety Act.
- 1.9. This Specification has been prepared by the Eastern Cape Department of Health.

2. KEY ROLE PLAYERS

- 2.1.1. Eastern Cape Department of Health (Client)
- 2.1.2. Principal Agent
- 2.1.3. Architect
- 2.1.4. Quantity Surveyor
- 2.1.5. Structural Engineer
- 2.1.6. Civil Engineer
- 2.1.7. Electrical Engineer
- 2.1.8. Mechanical Engineer
- 2.1.9. Clerk of Works
- 2.1.10. Health & Safety Agent
- 2.1.11. Principal Contractor
- 2.1.12. Other

3. LIST OF ABBREVIATIONS

AAIA	Approved Asbestos Inspection Authority
AIA	Approved Inspection Authority
BoQ	Bill of Quantities
CC	Compensation Commissioner
CR	Construction Regulations
DMR	Driven Machinery Regulations
DoL	Department of Labour
FEMA	Federated Employers Mutual Association
GAR	General Administration Regulations
GSR	General Safety Regulations
HCSR	Hazardous Chemical Substances Regulations
HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
ER	Engineer's Representative
LI	Labour Intensive
OH	Occupational Health
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
OHSS	Occupational Health and Safety Specification
PSHSS	Project Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
SANS	South African National Standards (Authority)
SDS	Safety Data Sheet
SMME	Small, Micro, Medium Enterprise
SWP	Safe Work Procedure

4. DEFINITIONS

4.1. The definitions used will be those set out in the Regulation Gazette N0 3705 of 7th February 2014 with the following additions:

4.1.1. Client:

The Superintendent General, Eastern Cape Department of Health.

4.1.2. Designer:

Means a competent person appointed by the Client as Agent to design, supervise and monitor construction on their behalf.

4.1.3. Hazard:

Source of exposure to danger

4.1.4. Hazard Identification and Risk Assessment (HIRA) and Risk Control:

Means a documented plan, which identifies hazards, assesses the risks and details the control measures and safe working procedures which are to be used to mitigate and control the occurrence of hazards and risks during construction or operation phases.

4.1.5. Health and Safety Agent:

Means any person who acts as a representative for the Client in managing the overall health and safety work as their responsible person.

4.1.6. Health and Safety Plan:

Means a documented plan which answers to the Project Specific Health and Safety Specification; including all the supporting documentation that indicate how the Principal Contractor or Contractor plans to manage H&S for the duration of the Contract.

4.1.7. Induction Training:

Means once off introductory training on general health and safety issues given to all employees and visitors to the site before commencement of work on site.

4.1.8. Risk:

Means the probability or likelihood that a hazard can result in injury or damage.

4.1.9. Regulation/s:

Shall mean the relevant regulation/s promulgated in terms of the Occupational Health and Safety Act, No. 85 of 1993 and the Construction Regulations No. 3705 of 7th February 2014.

4.1.10. Site:

Means the area in the possession of the Principal Contractor for the construction of the works. Where there is no demarcated boundary it will include all adjacent areas, which are reasonably required for the activities for the Principal Contractor, and approved for such use by the Designer.

4.1.11. The Act:

Means, unless the context indicates otherwise, the Occupational Health and Safety Act, No. 85 of 1993 and Regulations promulgated thereunder, as amended.

5. KEY REFERENCES

5.1 Occupational Health and Safety Act No. 85 of 1993 and Regulations (as amended).

5.2 Compensation for Injury and Occupational Diseases Act No. 100 of 1993 (as amended)

5.3 Joint Building Conditions of Contract (JBCC)

5.4 South African Roads Traffic Safety Manual (SARTSM) Chapter 2, Volume 13 of 1999

5.5 Road Traffic Safety Act No. 93 of 1996 (as amended)

5.6 Construction Regulations No. 3705 of 7th February 2014

5.7 Construction Specifications & Standards 6.0 for Southern Africa. Hans Wegelin 6th Edition 2010

5.8 SANS Code 10400 and others that are applicable

6. **PURPOSE OF THE HEALTH AND SAFETY SPECIFICATION (HSS)**

- 6.1. The HSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client Viz. Agents, Professional Service Consultants (Engineers, Quantity Surveyors and Architects), Principal Contractors and Sub-Contractors achieve an acceptable level of OHS performance.
- 6.2. To assist in achieving compliances with the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations of February 2014, to, as far as is practical, reduce or eliminate incidents or injuries.
- 6.3. No advice, approval of any document required by the HSS, such as hazard identification and risk assessments, or any other form of communication from the Client shall be construed as acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements.
- 6.4. Furthermore, there is no acceptance of liability by the Client, which may result from the Principal Contractor failing to comply with the HSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.
- 6.5. A Mandatory Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing.
- 6.6. The HSS highlights the aspects to be implemented over and above the minimum requirements of current legislation.
- 6.7. Requirements may be changed should new risks or issues are identified that could not have been foreseen during the design phase of the project, or during the construction phase. Any new legislation or standards (legislated, or determined by the ECDoH) that are promulgated or accepted during the contract will automatically be applied.
- 6.8. Environmental management shall receive due attention as per the requirements of the Environmental Control Officer (ECO), but will be managed by the ECO directly.

6.9. The Contractor shall use this Specification as a basis for the drafting of his and any Subcontractors' Construction Health and Safety Plans.

6.10. The Specification sets out the requirements to be followed by all Contractors so that the Health and Safety of all persons who may be affected by the Construction Project will receive proper priority.

6.11. The Project Specific Risks that have been identified have been tabulated in Section 18 of this Specification.

7. IMPLEMENTATION OF THE PROJECT SPECIFIC OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS (PSHSS)

7.1. The H&S specification (HSS) forms an integral part of the Contract, and PCs are required to make it an integral part of their Contracts with Contractors and Suppliers.

7.2. A HSS will be available for each level of Contract and Contractor, and must be complied with.

7.3. This specification must be read in conjunction with the OHSA, Regulations thereto (as amended) and any other standards relating to work being done, and ensure compliance thereto.

7.4. The information relative to the scope of the project, the works etc. are detailed in the tender, are to be considered when developing the H&S plan and associated documentation.

7.5. The summary of risks is included in Section 18 of the HSS.

7.6. The OHSA S.37.2 Mandatory Agreement must be fully completed by the PC, supplied by the Client.

7.7. No work may commence without written approval of the H&S plan by the H&S Agent, or the responsible person in the ECDoH.

7.8. Should there be design changes, or change in the scope of works, an amended PSHSS may be issued.

7.8.1. Where amended HSSs are issued, the PC will be required to ensure a resubmission of an amended H&S plan for approval.

7.8.2. Further to this, the PC must ensure that similar information must be provided as it applies to the works to all their Contractors, within 5 working days following notification thereof of such design changes.

7.9. The H&S Agent will visit the project as deemed necessary by the Employer to ensure compliance and limit risk.

7.9.1. All activities on the site and all appropriate documentation will be monitored and reported on to the Client and the Designer.

- 7.10. Non-conformances will be issued and penalties or work stoppage will be issued where appropriate. Communication between the H&S Agent and the PC will be through the Principal Agent (or Client's responsible person) as determined at the commencement of the project.
- 7.11. The Principal Contractor must forward a copy of the Health and Safety plan to all Subcontractors to enable them to prepare their own Health and Safety plans.
- 7.12. Non-conformances will be issued and penalties or work stoppage will be issued where appropriate.
- 7.13. Communication between the H&S Agent and the PC will be through the Designer (or Client's responsible person) as determined at the commencement of the project.

8. **APPLICATION**

- 8.1. This Specification is a compliance document drawn up in terms of the Occupational Health and Safety Act No. 85 of 1993, and the Construction Regulations of February 2014, and is therefore binding on the Contractor as well as the Owner.
- 8.2. All Contractors are to comply with the conditions of this Health and safety Specification.
- 8.3. All Direct Contractors carrying out work on behalf of the Eastern Cape Department of Health, at the ECDOH Facility are also required to comply with the conditions of this Health and Safety Specification.
- 8.4. All staff and representatives of the Eastern Cape Department of Health, who visit the site at ECDOH Facility are required to comply with the conditions of this Health and Safety Specification.
- 8.5. All representatives of the Implementing Agent who visit the site are required to comply with the conditions of this Health and safety Specification.
- 8.6. All members of the Consulting Team who visit the site are required to comply with the conditions of this Health and safety Specification.

9. **REQUIREMENTS AT TENDER STAGE**

- 9.1 Adequate pricing for H&S is required, and the appropriate section in the BoQ is to be completed.
 - 9.1.1. Failure to do so could result in the Tender being regarded as non-responsive.

10. **GENERAL REQUIREMENTS**

10.1. Summary of Risks identified during Design

- 10.1.1. The intention of the summary of findings from the design risk assessment is to highlight the residual risks identified during the design phase.
- 10.1.2. The full design risk assessment can be found in the tender document.

10.1.3. The summary of risks provided is to point the contractor towards some risks he may not be aware of during tendering stage and while developing his formal risk assessments for the project.

10.1.4. The design risks and the management thereof should be included in the Principal Contractors (PC) risk assessments.

10.1.5. Where there are other Contractors appointed to do work, the PC is to ensure that Contractors include such information in their risk assessments.

10.1.6. The summary is to be developed following the completion of the Design risk assessment, and to include the residual risks as they apply to the project.

10.2. Hazard Identification and Risk Assessment (HIRA)

10.2.1. At the Pre-Tender Site Inspection, the Principal Agent will identify any Project Specific hazards or risks that may affect the work.

10.2.2. These hazards or risks are listed under section 18 of this Specification.

10.2.3. Tenderers are also advised to notify the Principal Agent of any other risks or hazards that have not previously been identified.

10.2.4. These risks are to be recorded and a recommended procedure for addressing each item agreed on and recorded.

10.2.5. The Principal Contractor is to conduct inspections of all tools and equipment before the commencement of the works and at least once a week during the works.

10.2.6. The Principal Contractor shall ensure that all Sub-Contractors and workers are informed, instructed and trained by a competent person regarding any hazards, risks and related safe work procedures as part of the Induction process before any work commences and thereafter at regular intervals as the risks change and as new risks develop.

10.2.7. Proof of this training must be kept for inspection by the Client or Client's Representative.

10.2.8. The Principal Contractor shall be responsible for ensuring that all persons who could be negatively affected by the operations are informed and trained according to the hazards and risks and are conversant with the safe working procedures, control measures and other related rules (tool box talk strategy to be implemented).

10.2.9. The format used for the risk assessment must make provision for the following information;

10.2.9.1. Reference Number

10.2.9.2. Project Name

10.2.9.3. Identification of task assessed

10.2.9.4. Date

10.2.9.5. Risk assessment team & designation

10.2.9.6. Approval of risk assessment team.

10.2.9.7. Risk rating with matrix

10.2.9.8. Review date

10.2.9.9. Task steps

10.2.9.10. What can go wrong (Hazard)

10.2.9.11. The result (Risk)

10.2.9.12. Risk rating

10.2.9.13. Preventative Action (Control Measures)

10.2.10. The Principal Contractor is to ensure that all Staff members and Management personnel that will be affected by the works are fully informed of the risks and hazards associated with the works.

10.3. Specified Hazardous Chemical Substances

10.3.1. The following lists of products or substances are those which have been identified as likely to be used on the project. The list is not inclusive and other products may be considered.

10.3.2. Where the PC is likely to supply the product as the product has not been specified, safety data sheets (SDSs) need to be considered prior to all selections.

PRODUCTS/SUBSTANCES/RISKS	POTENTIAL HEALTH OR OTHER RISKS
Cement	• Hand mixing may occur, 50kg bags are an ergonomic risk from handling. • Pumping of concrete may occur exposure to extensive vibration, extended hours of work, and potential eye, skin and respiratory irritant from dust exposure, chromates.
Cement/Silica dust	Caused by cutting, grinding, sanding of any concrete/granite/tiled surface/masonry.
Petrol/diesel/lubricants	Potentially a fuel bowser on site. Fire, spillage, fumes
Wood dusts	Caused by cutting, sanding, drilling wooden products treated
Oxy-acetylene Gas	Use of these gas bottles when using cutting torch and welding in confined spaces may cause lead to lack of oxygen and workers inhale gas fumes. Inhalation of these fumes in a confined space may lead to severe headaches, collapse, and/or fatality

PRODUCTS/SUBSTANCES/RISKS	POTENTIAL HEALTH OR OTHER RISKS
Use of Paints/solvents/epoxy	Hazardous fumes caused by use of these products in confined spaces such as inside water tanks may lead to severe headaches, collapse, and/or fatality.

10.3.3. Hazardous and potential situations

- 10.3.3.1. The Principal Contractor shall immediately notify other Sub Contractors as well as the Client of any hazardous or potentially hazardous situations that may arise during performance of construction activities.

11. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

11.1. Scope

- 11.1.1. The Specification covers the requirements for eliminating and mitigating incidents and injuries at the ECDOH Facility.
- 11.1.2. The scope addresses legal compliance, hazard identification, risk assessment, risk control, and promoting a Health and Safety culture on the project.
- 11.1.3. The Specification also provides for the protection of those persons other than employees.

11.2. Scope of Works

Refer to tender documentation.

11.3. Structure and Organization of H&S Responsibilities

11.3.1. Notification of Construction Work Permit

Depending on the estimated value of the contract, once appointed the Principal Contractor must apply for either Construction work permit or submit Notification of construction as Prescribed in Construction Regulation 3 & 4 to the relevant Regional and/or Provincial Department of Labour Office. Proof of receipt and acknowledgement from DOL should be kept on the Safety File at all times.

11.4. Health and Safety Plan Framework

- 11.4.1. The H&S aspects related to the project outlined in the previous sections are to be considered when drawing up the H&S Plan.
- 11.4.2. The PC is required to demonstrate competence by providing an H&S system that will address the requirements of the project.

11.4.3. The current legislative requirements, SANS codes and any other standards that may guide practice are to be taken into consideration.

11.4.3.1. The following aspects must be addressed in the H&S Plan, as they have been identified in section 2, as playing a role in reducing the overall risk of an activity, or section of the project.

11.4.3.2. The H&S Agent may from time to time request additions or systems as they relate to the works or legislative requirements at the time.

11.4.4. The PC is to prepare a site layout drawing to indicate at least the following:

11.4.4.1. The positions of site offices of all Contractors, toilets, drinking water and Worker rest areas;

11.4.4.2. Indicate the positions of emergency personnel and equipment (fire, first aiders, first aid posts);

11.4.4.3. Protection of plant and pedestrians, indicate parking, and

11.4.4.4. Storage areas (materials and equipment, waste etc.)

11.4.4.5. Access and egress to site for deliveries and intended temporary traffic management

11.4.4.6. Emergency assembly point

11.4.5. Such layouts are to be updated regularly throughout the project.

11.5. Appointment of Competent Site Personnel

11.5.1. The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Site Agent (OHSA 16.2). Knowledge and training in H&S is required, and certificates indicating H&S training as well as experience to be included in CVs.

11.5.2. All other legal appointments are to be made with relevance to the type of work required and kept current with the project programme. The construction team is to ensure the appointed H&S Officer is kept up to date with all planned activities, to ensure all H&S requirements are met.

11.5.3. All construction/technical method statements are to be generated by senior site personnel, and the appropriate risk assessments developed therefrom in conjunction with the H&S Officer.

11.5.4. The Occupational Health and Safety Plan shall include the following, but is not limited to the following key appointments:

11.6. Construction Manager

11.6.1. Competent manager & supervisors will be appointed to manage part or all the works and have training and/or experience in the area of responsibility. All site supervisors must show evidence of appropriate training in H&S, and an understanding or training in areas of responsibility (i.e. risk assessments, method statements etc.).

11.6.2. Construction Manager is to be full time on site, for this single site.

11.6.3. Curriculum Vitae (CVs) are to be submitted for approval the client or its appointed representatives.

11.6.4. The Construction Manager will be held responsible for the safety of working teams and subordinates, housekeeping and stacking and storage of materials.

11.7. Construction Health and Safety Officer

11.7.1. The PC will employ at least one competent, full-time H&S Officer for the duration of the contract.

11.7.2. The H&S Officer's CV is to be submitted for approval to the H&S Agent or the Client.

11.7.3. The PC is to ensure adequate resources are provided to undertake all responsibilities (i.e. mobile phone, computer and internet access, vehicle etc.)

11.7.4. Qualifications shall include at least Grade 12; SAQA approved training in Occupational Health and Safety, with exposure to civil engineering and building that is appropriate, but at least of one year's duration given the level of project complexity preferably in an OHS capacity.

11.7.5. The health and safety officer must provide proof of registration with the SACPCMP.

11.7.6. He should also have undergone training in the Act and Regulations.

11.7.7. In the case of a contract where contractors are employed, the H&S officer must have a competence to evaluate the Contractors Health and Safety plans.

11.7.8. A valid driver's license.

11.7.9. This person may not hold any other position on the site staff.

11.7.10. The site supervisor may not act as the H&S Officer.

11.7.11. The H&S Officer/s will be held responsible for all H&S on the project.

11.7.11.1. All staff members on site are to follow systems, instructions etc. given by the H&S Officer at all times;

11.7.11.2. No new workers or Sub-Contractors may commence work without approval or following the H&S plan as submitted, and

11.7.11.3. No inductions of Contractor staff until the H&S documentation is approved by the H&S Officer.

11.7.11.4. The H&S Officer/s may not be removed or replaced without the approval of the H&S Agent, nor may the site be left unattended for more than 1 day without adequate, competent cover.

11.7.12. A monthly report of all H&S activities and incidents is required by the end of the first week of each month, or at a date agreed to by the H&S Agent/Client and the H&S Officer.

11.7.12.1. An example of the monthly report is attached as an Annexure C.

11.7.13. The H&S Officer will be responsible for collating the H&S documentation at the close out of the project in electronic format.

11.7.13.1. A list of the typical aspects that should be provided is available as Annexure B to this document.

11.7.13.2. The PC is to ensure that all Contractors documentation follows the same requirements and closed out H&S documentation must be completed and be available with the close out of the main contract.

11.7.13.3. Failure to do so will be considered a serious offence and penalties applied.

11.8. Traffic Safety

11.8.1. The PC is to ensure that the route for Emergency Vehicle is always accessible.

11.8.2. The H&S Officer will be responsible for ensuring that daily traffic management is adequately managed.

11.8.3. No worker may be transported in, or on the rear of construction vehicles (bakkies included), or with plant and materials to, on, or from site.

11.8.4. The number of passengers in any vehicle is limited to what is stated on the license disc.

11.8.5. Vehicles used to transport workers to, from, or on site, shall have secure seats and be covered. No canopies may be used.

11.8.6. Tenderers must indicate in their OHS plans what type of transport is envisaged and how this will be managed.

11.8.7. Where there is an interface between the site and public roads typical traffic accommodation, the PC is to draw up a traffic accommodation plan for approval by the Designer.

11.8.7.1. The standards of the SARTSM Ch. 13 Vol. 2 will be used.

11.8.7.2. Any changes suggested, or required are to be discussed and approved by the Designer.

11.8.7.3. Additional care must be taken where workers and public interface.

11.8.8. Penalties will be issued for non-compliances noted.

11.9. Construction Vehicles

11.9.1. Vehicles shall not enter site with:

11.9.1.1. Defective exhaust systems.

11.9.1.2. Serious oil or fuel leaks.

11.9.1.3. Unsafe bodywork or loads.

11.9.1.4. Non-standard equipment fitted.

11.9.1.5. Improperly seated passengers

11.9.1.6. Any obvious mechanical defects.

11.9.2. All earth moving equipment shall be operated in accordance with good safety practice to protect the safety of the operator and other workers or persons in the area.

11.9.3. All earth moving equipment shall be equipped with a reverse siren and shall be inspected by the operator daily.

11.9.4. No person shall be permitted to ride on any construction vehicle or mobile plant otherwise than in a safe place thereon provided for that purpose.

11.10. Health and Safety Representatives and H&S meetings

11.10.1. H&S Representatives are to be full time employees of the Contractor or on the project.

11.10.2. H&S Representatives representing workers and Contractors are to be appointed following the start-up of the project, irrespective of the number of workers on site.

- 11.10.3. The appointed H&S Representatives will have the required competency training as a SHE rep.
- 11.10.4. The appointed H&S Representatives are to be actively involved with H&S and will assist the H&S Officer and site management in meeting legislative duties.
- 11.10.5. The H&S Officer shall further ensure that H&S is discussed at all internal production or progress meetings.
- 11.10.6. Issues arising from the H&S Agent audits are to be discussed, as well as all H&S related issues.
- 11.10.7. Minutes are to be kept for all H&S interventions and meetings. Failure to do so will be deemed to be a moderate offence.

11.11. Appointment of Competent Contractors

- 11.11.1. The Principal Contractor is to ensure compliance with the Client's minimum standards and all legislative requirements.
 - 11.11.1.1. All competent persons shall have the knowledge, experience, training, and qualifications specific to the work they have been appointed to supervise, control, and carry out.
- 11.11.2. The Principal Contractor is responsible to ensure that competent Sub-Contractors are appointed to carry out construction work.
- 11.11.3. The same H&S standards required of the PC are to be applied to all Sub-Contractors.
- 11.11.4. An index of all Sub-Contractors and Suppliers is to be on file and kept updated at all times.
- 11.11.5. Where the ECDoH appoints Direct Contractors, or uses the Maintenance staff to carry out works in the site area, the ECDoH is to ensure that the appropriate competent persons are responsible for supervising & controlling the work being undertaken.
- 11.11.6. The PC is to ensure there is sufficient funding for H&S compliance by each Contractor.
- 11.11.7. The following minimum aspects are applicable to any Contractor appointed:
- 11.11.8. The H&S Officer is to ensure a Contractor's appointment and approval of H&S documentation at least seven (7) working days prior to commencing work.
- 11.11.9. No Contractor may work under the PCs Compensation registration number.
 - 11.11.9.1. If required the PC may assist SMMEs with their registration with the Compensation Commissioner.
 - 11.11.9.2. However, such Contractors will not be able to commence work until proof of registration or Letter of Good Standing has been received.

11.11.9.3. No work may commence without Mandatory agreements between parties in place.

11.11.10. The following aspects are applicable to Suppliers or short-term works (surveying, repairs, servicing, deliveries etc.).

11.11.11. Cognisance is to be taken of the level of risk involved and the H&S Officer is to ensure the level of H&S documentation is appropriate:

11.11.11.1. Mandatory agreements in place

11.11.11.2. Letter of Good Standing

11.11.11.3. Method statements and risk assessments

11.11.11.4. Available information relative to:

11.11.11.4.1. Load testing and registers for cranes or lifting devices

11.11.11.4.2. Medical certificates of fitness

11.11.11.4.3. Safety data sheets (SDSs)

11.11.12. Failure to provide written approval of H&S documentation will be considered a serious offense, and could result in aspects of, or all the activities being stopped, and penalties implemented.

12. GENERAL RISK MANAGEMENT

12.1. Health Risks and Medical Surveillance

12.1.1. The appropriate SDSs are to be obtained for all products and used to develop the H&S documentation as they relate to the works. Many of the processes may be labour intensive and ergonomic risks are to be noted. All workers (including Sub-Contractors) are to be included in the medical surveillance programme.

12.1.2. Workers will be exposed to noise, dust, and physical risks from extended periods of work of a repetitive nature, materials specified and the general nature of the works.

12.1.3. All permanent workers (including those of Sub-Contractors) are required to be in possession of a medical certificate of fitness issued by an OMP (Occupational Medical Practitioner) prior to commencing work.

12.1.4. Medical surveillance will commence at pre-employment.

12.1.4.1. All workers (including Sub-Contractors) are required to be in possession of a medical certificate of fitness issued by an OMP (Occupational Medical Practitioner) prior to commencing work.

12.1.4.2. Annual medical surveillance is required (unless identified as being required more frequently), as well as an exit medical.

12.1.4.3. Arrangements for keeping medical records for the required time are to be noted.

12.1.4.4. It is preferable that the PC has a medical surveillance plan.

12.1.4.5. Full medical records are not to be placed in the H&S file.

12.1.4.6. A procedure for managing the medical records which require safekeeping for prescribed periods are to be addressed.

12.1.5. Given the potential health risks the following aspects are to be included in each medical surveillance intervention:

12.1.5.1. Full medical, surgical and occupational history;

12.1.5.2. Full physical examination of all systems; and

12.1.5.3. Referral if required for the management of identified health issues that may affect the worker.

12.1.6. Specific testing for existing conditions and limitations relative to exposure could include, but are not limited to:

12.1.6.1. Audiometry (hearing tests); and

12.1.6.2. Any other tests identified as relevant from chemical or specifically identified risks of exposure

12.1.7. Failure to do so will be considered a serious offence.

12.2. General Environmental Conditions

12.2.1. Compliance with the Environmental Regulations (as amended), among others is required.

12.2.2. Environmental monitoring of ventilation, lighting and dusts may be deemed to be required by the Approved Inspection Authority used to measure the environment.

12.2.3. Copies of the relevant reports and actions taken in respect of these are to be placed in the H&S file.

12.2.4. Any spillages of substances which could be toxic to persons must be dealt with adequately. The Contractor must include his spillage removal system in the OHS Plan.

12.3. Noise Risks

12.3.1. All plant from plant hire companies (suppliers) or that of the PC is to be compliant with the Noise Induced Hearing Loss Regulations.

12.3.2. Plant identified that has not been tested and marked for noise emissions will result in having to be tested at the Contractors or PCs expense.

12.3.2.1. Failure to do so within a reasonable time will result in such plant being removed from site.

12.3.3. Audiometric testing of all workers is noted as required in the medical surveillance programme for all permanent workers prior to work commencing.

12.3.3.1. Temporary labour working in identified noise areas will require testing if the noise levels are indicated on plant or through processes as greater than 85dB.

12.3.3.2. Audiometry records are to be available in the H&S file.

12.3.4. Suitable SANS approved hearing protective equipment shall be issued and worn where noise levels are identified as equal to or greater than 85 db.

12.3.4.1. Failure to do so will be considered a serious offence.

12.4. Emergency Procedures

12.4.1. The Principal Contractor must prepare a detailed emergency procedure manual for approval by the Client / Principal Agent prior to commencement of work on the site.

12.4.1.1. It is advised that the system should be simple and easy for any worker to follow.

12.4.1.2. The plan may be adapted should new information or risks are identified.

12.4.1.3. The procedures for dealing with the emergency evacuation of staff must be agreed upon with the Depot Management.

12.4.2. The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to) the following key elements:

12.4.2.1. Appointment of a competent emergency response co-ordinator and wardens; Lists of first aiders, and:

12.4.2.1.1. Fire;

12.4.2.1.2. Explosions

12.4.2.1.3. Public injury and motor vehicle accidents;

12.4.2.1.4. Falls from heights;

12.4.2.1.5. Serious injury to workers (medical or work-related); and

12.4.2.1.6. Any other major risks identified during risk assessments

12.4.3. The emergency plan is to ensure the inclusion of local service providers where possible.

12.4.3.1. Such arrangements should be made with these persons prior to the commencement of the project.

12.4.3.2. The general principals of emergency management are to be applied as it applies to the hierarchy of control and management.

12.4.4. The Contractor will provide the Principal Agent with the following information regarding their response plans for dealing with emergencies:

12.4.4.1. Contact person

12.4.4.2. Details of emergency services

12.4.4.3. Action to be taken in event of an emergency:

12.4.4.3.1. Fire

12.4.4.3.2. Accident

12.4.4.3.3. Damage to hospital services

12.4.4.3.4. Hazardous substances

12.4.4.4. Persons to be notified in the event of an accident or emergency:

12.4.4.4.1. Mrs Mcopele- Eastern Cape Department of Health 0833782014

12.4.4.4.2. Facility Management – Contact Details will be made available on awarding of the Tender.

12.5. First Aiders and First Aid Equipment

12.5.1. Competent, trained First Aiders are to be formally appointed for the project.

12.5.2. If the project is in a remote area, at least 2 trained level 3 first aiders are required.

12.5.3. In urban areas and close to medical assistance 1 level 3 first aider is required.

12.5.4. First aiders are to be available at all times and be able to cover each working team.

12.5.4.1. Further first aiders from the community or SMMEs, If not already accredited, are to be sent for accredited first aid training.

12.5.5. Contractors are expected to ensure compliance and manage their own first aiders and equipment.

12.5.6. Contractors are expected to ensure compliance and provide/manage their own first aiders and equipment.

12.5.7. Appropriately stocked first aid kits are to be available at all times and to assure continual availability and access on site.

12.6. Fires and Emergency Management

12.6.1. Attention to emergency planning and procedures is very important.

12.6.2. The full emergency plan must form part of the supporting documentation with the H&S Plan.

12.6.3. The H&S Agents approval of all emergency plans and procedures is required prior to commencement on site.

12.6.3.1. It is advised that the system should be simple and easy for any worker to follow.

12.6.3.2. The plan may be adapted should new information or risks are identified.

12.6.4. First aiders shall be available in each working team, and be able to work as a team when responding to any emergency on the project.

12.6.5. The procedure shall detail the response plan in relation to the works, and include at least (but are not limited to) the following key elements:

12.6.5.1. Appointment of a competent emergency response co-ordinator and wardens;

12.6.5.2. Lists of first aiders, and

12.6.5.3. Requirement in terms of identified risks:

12.6.5.3.1. Fire;

12.6.5.3.2. Explosions;

12.6.5.3.3. Falls from heights, and

12.6.5.3.4. Motor vehicle accidents.

12.6.6. The emergency plan is to ensure the inclusion of local service providers where possible.

12.6.6.1. Such arrangements should be made with these persons prior to the commencement of the project.

12.6.6.2. The emergency plan is to include the risk of fire on site and related to any specific activities where gas, welding, cutting etc. occur.

12.6.7. Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur.

12.6.7.1. All mobile plant is to have fire extinguishers.

12.6.8. Hot work permits are required for any such activities.

12.6.8.1. Their position is to be shown on the sketch plan of the site.

12.7. Incident Management and Compensation Claims

12.7.1. The PC will ensure there is a management system to investigate all incidents.

12.7.1.1. All serious incidents involving any form of disabling injury or fatality are to be reported to the Designer /Client /H&S Agent immediately.

12.7.1.2. This shall be confirmed in writing following the incident.

12.7.1.3. Full details are to be included in each site meeting or when the Client visits site.

12.7.1.4. A summary of incidents is to be included in the monthly report.

12.7.2. Failure to comply with emergency provisions will be considered a serious offence, and the operation or project may be stopped if deemed inadequate for the work at the time of assessment or site inspection.

12.8. Personal Protective Equipment (PPE) and Clothing

12.8.1. The PC is to provide a procedure as an addendum to indicate how PPE is managed within the Company.

12.8.2. The wearing of the identified SANS approved PPE at all times is non-negotiable.

12.8.3. The PC shall ensure that all workers (Including Contractors) are issued with and shall wear as required; the first 3 items are mandatory for all workers:

12.8.3.1. Hard hats;

12.8.3.2. Protective footwear;

12.8.3.3. Reflective jackets (no bibs)

12.8.3.4. Overalls that ensure worker visibility

12.8.3.5. Eye protection;

12.8.3.6. Hearing protection;

12.8.3.7. Respiratory protection (minimum of FF2), and

12.8.3.8. Any other necessary PPE identified from SDSs and/or risk assessments.

12.8.4. Adequate quantities of PPE shall be available. This shall include necessary PPE for visitors. The procedures for managing PPE are to be in a formal procedure submitted with the H&S plan for approval.

12.8.5. The Contractor shall carry adequate stocks of Hi-visibility Jackets and hard hats for visitors

12.8.6. Any person (including Client, Designers etc.) found on site without the necessary PPE will be removed from site until the PPE is supplied and worn.

12.8.7. Failure to comply will result in penalties being applied.

12.9. Occupational Health and Safety Signage

12.9.1. On-site H&S signage is required.

12.9.1.1. Signage shall be posted up at fixed or temporary working areas, or other potential risk areas/operations.

12.9.1.2. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended.

12.9.1.3. Signage is to be noted on the site drawings indicating where fixed/temporary signage is required.

12.9.2. Temporary signage is to include (but not be limited to) the following:

12.9.2.1. 'Report to site Office'

12.9.2.2. 'Warning: Construction Site – Keep out' or similar;

12.9.2.3. 'Site Office' (if relevant);

12.9.2.4. 'Hard hat area' or other PPE requirements noted;

12.9.2.5. First aid box positions (including vehicles); and

12.9.2.6. Fire extinguishers.

12.9.3. Signs shall be posted at areas of work on site indicating that a construction site is being entered and that persons should take note of H&S requirements.

12.9.4. The Contractor shall establish a system for controlling and recording entrance to the Site office and camp area.

12.9.5. Failure to comply will result in penalties being applied.

12.10. Induction of Employees and Visitors, General H&S Training

12.10.1. A formal induction programme is to be submitted as an addendum for approval with the H&S plan.

12.10.1.1. Inductions must be carried out for all workers and visitors (including Client, Professional Team and ECDOH facility staff) to the site.

12.10.2. Pre-task training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done.

12.10.2.1. Such training is to be done at least daily.

12.10.2.2. Records of inductions and pre-task training are to be kept in the H&S file.

12.10.3. Any person found on site without proof of induction will be removed from site until the proof is supplied and, and a penalty issued per non-compliance.

12.11. Public and Site Visitor Health and Safety

12.11.1. The Principal Contractor shall ensure that every person working on or visiting the site, as well as the facility and the Public, shall be made aware of the dangers likely to arise from site activities, including the precautions to be taken to avoid or minimize those dangers.

12.11.2. The Principal Contractor shall ensure that appropriate Health and Safety notices and signs are posted where required.

12.11.3. Both the Principal Agent and the Contractor have a duty in terms of the Occupational Health and Safety Act to do all that is reasonably practical to prevent members of the public and site visitors from being affected by the work activities.

12.11.3.1. Warning notices are to be provided at the main entrance doors to the ECDOH facility notifying that construction work is taking place within the existing buildings.

12.11.3.2. Warning notices are also to be posted at all access areas to the construction area. Public and staff of the facility may not have access to the construction area.

12.11.3.3. Warning notices regarding the movement of workers and materials are to be posted externally between the Contractor's yard area and the service entrance.

12.11.4. The site areas must be suitably hoarded at all times with a limited number of restricted and controlled access points.

12.11.4.1. Adequate notices are to be displayed.

12.11.4.2. Hoardings are to be inspected daily and gates monitored during working hours and locked at the end of each work day.

12.12. Awareness

12.12.1. The Principal Contractor shall ensure that, on site, periodic toolbox talks take place at least once per week.

12.12.1.1. These talks should deal with risks relevant to the construction work at hand.

12.12.1.2. A record of attendance shall be kept in the Health & Safety file.

12.12.1.3. All Contractors must comply with this minimum requirement.

12.12.1.4. At least one of the Toolbox talks shall include an environmental related issue.

- 12.12.2. The Principal Contractor is to ensure that the ECDOH facility Management & Staff are kept informed of any change in the situation regarding the risks and hazards relating to the construction work on the site.

13. MANAGEMENT OF PLANT AND EQUIPMENT

13.1. Construction Plant

- 13.1.1. Construction Plant" includes all types of plant including but not limited to, cranes, piling rigs, excavators, road vehicles, and all lifting equipment.
- 13.1.2. The Principal Contractor shall ensure that all such plant complies with the requirements of the OHS Act 85/1993 and Construction Regulations 2014
- 13.1.3. The Principal Contractor and all relevant Sub Contractors shall inspect and keep records of inspections of the construction plant used on site.
- 13.1.4. Only authorised/competent (certified) persons are to use machinery under proper supervision.
- 13.1.5. Appropriate PPE and clothing must be provided and maintained in good condition at all times.
- 13.1.6. Proof of medical evaluations as required by the Construction regulations is available for inspection by the Client.

13.2. Plant & Equipment

- 13.2.1. Close control of plant and equipment is required, including that of Contractors.
- 13.2.2. Daily monitoring of all plant and equipment is required prior to commencing work.
- 13.2.3. Full lists of hired and own plant are to be available at the H&S Agent's/Client audit.
- 13.2.4. All daily inspection records are to be kept in the H&S file where plant and equipment is brought on to site.
- 13.2.5. Registers are not to be more than 1 week behind.

13.3. Operators

- 13.3.1. Only competent, fit plant operators are to be used.
- 13.3.2. Medical certificates of fitness are required for all operators.
- 13.3.3. Operators are to be adequately trained and certified to operate mobile cranes or crane trucks.
- 13.3.4. Certificates and registers are to be placed in the H&S file.

13.3.5. Failure to do so will be considered a serious offence.

13.4. Machinery and Power Tools

13.4.1. Only authorized competent persons are to operate machinery and power tools.

13.4.2. Appropriate PPE and clothing must be provided, used and maintained.

13.4.3. No unsafe / dangerous equipment or tools may be brought onto, or used, on the site.

13.4.4. The Client / Principal Agent reserve the right to inspect all tools and equipment at any time and to prevent / prohibit their use, if found to be unsafe, without any penalty to the Client and without affecting the terms of the contract in any way.

13.4.5. The Contractor may not use any machinery or power tools belonging to the ECDOH facility.

13.5. Portable Electrical Tools/Equipment and Explosive Powered Tools

13.5.1. The Principal Contractor shall ensure that use and storage of all explosive powered tools and portable electrical tools are in compliance with relevant legislation.

13.5.2. The Principal Contractor shall ensure that all-electrical tools, electrical distribution boards, extension leads, and plugs are kept in safe working order.

13.5.3. The Principal Contractor is to ensure that extension cables and temporary power supplies do not impede access ways or escape routes.

13.5.4. Regular inspections and toolbox talks must be conducted to make workers aware of the dangers and control measures to be implemented e.g. personal protection equipment, guards, etc.

13.5.5. The Principal Contractor shall ensure the following:

13.5.5.1. A competent person undertakes routine inspections and records are kept.

13.5.5.2. Only authorised trained persons use the tools.

13.5.5.3. The safe working procedures apply.

13.5.5.4. Awareness training is carried out and compliance is enforced at all times.

13.5.5.5. PPE and clothing is provided and maintained.

13.5.5.6. Electrical cables must be free from any damage.

13.5.5.7. Electrical tools & equipment may not be exposed to water.

13.5.5.8. A register indicating the issue and return of all explosive round.

13.5.5.9. Ensure that the cartridges and explosive tool is lock up separately.

13.5.5.10. Signs to be posted up in the areas where explosive powered tools are being used.
(WARNING - EXPLOSIVE POWERED TOOL IN USE - KEEP CLEAR).

13.5.5.11. That prior arrangement is made with the ECDOH facility Maintenance Supervisor before any explosive powered tools are used.

13.6. Hired Plant and Machinery

13.6.1. The Principal Contractor shall ensure that any hired plant and machinery used on site is safe for use.

13.6.2. The necessary requirements as stipulated by the OHS Act 85/1993 and Construction Regulations (February 2014) shall apply.

13.6.3. The Principal Contractor shall ensure that operators hired with machinery are competent and that certificates are kept on site in the health & safety file.

13.6.3.1. This includes medical certificates of fitness to operate construction vehicles and appointment of the operator.

13.6.3.2. All relevant Sub Contractors must ensure the same.

13.6.4. Daily inspections must be recorded by each operator.

13.6.4.1. A copy of the machines service log book & planned maintenance schedule must be supplied with the machine.

13.6.5. Operators must be trained on the relevant risk assessments and safe working procedures.

13.6.6. The hired plant company must provide proof of registration with Workman's Compensation or FEM before delivery of plant to site.

13.6.7. The Hire Company must be required to sign a 37(2) Mandatory Agreement with the hire company before commencing with work. (Applicable if an operator is supplied with the machine.

13.7. Vessels under Pressure and Gas Bottles

13.7.1. The Principal Contractor and all relevant Sub Contractors shall comply with the Vessels under Pressure Regulations, including:

13.7.1.1. Stored in a wire mesh, faced, shaded, ventilated, approved surfaces and lockable facility with all the necessary gas, prohibition & warning signs posted and as far as possible positioned away from buildings/establishment.

13.7.1.2. Storage area must be free from combustible material or any other materials.

13.7.1.3. No smoking or naked flame signs posted as well as sufficient firefighting equipment.

13.7.1.4. Cylinders must be stored in rows with aisles in between for easy removal in event of a

fire.

13.7.1.5. Different types of gasses will be stored separately in an upright position, separately secured and the type of gas displayed identified with appropriate signage.

13.7.1.6. Knocking or falling of cylinders must be prevented when moved.

13.7.1.7. Before a cylinder is moved without suitable truck or trolley, the cylinder valve will be closed and the regulator removed.

13.7.1.8. Only approved cylinder crates/cradles will be used.

13.7.1.9. Cylinders may not be transported with magnet cranes.

13.7.1.10. Cylinders may never be used as rollers, even if they are marked empty.

13.7.1.11. Cylinders may never be exposed to electrical circuits, e.g. welding leads. Never strike an arc on a cylinder.

13.7.1.12. Cylinders must be protected from direct sunlight or areas that could cause the cylinder to overheat.

13.7.1.13. Keep cylinders away from cutting work to stop sparks or hot slag from reaching them.

13.7.1.14. As with compressed air only use oxygen for the purpose for which it is approved.

13.7.1.15. May not be used for pneumatic tools or inflation of tires as an explosion could occur.

13.7.1.16. Oxygen cylinders must be stored at least 5m away from other flammable gas cylinders.

13.7.1.17. Flashback arrestors must be fitted to the torch and the cylinder.

13.7.1.18. Empty cylinders must be marked as such and removed daily to a separate approved storage areas.

13.7.1.19. Cylinders may only be allowed on site in an approved trolley, properly secured and with a 1.5kg dry powder fire extinguisher within 2m of the cylinder.

13.7.1.20. Flammable and oxidizing gasses may not be stored together and greases/oils may never be allowed to come in contact with Oxygen.

13.7.1.21. Visual inspections will be done by the appointed HCS Controller to ensure that substandard vessels are not delivered and stored on site.

13.7.1.22. Pressure vessels must have a certificate of manufacture as well as a service inspection test certificate issued at intervals not exceeding 36 months. These certificates will need to be submitted to the Safety Department on site.

13.8. Hand tools

13.8.1. No handmaid or damaged tools may be used on site.

13.8.2. The Principle Contractor needs to exercise control over all contractors on site.

13.8.3. Hand tools may only be used for its intended purpose.

13.8.4. A competent person must be appointed to inspect hand tools monthly.

13.8.5. Inspections need to be recorded on a register and each tool identified with a unique number.

13.9. Inspection of equipment and tools.

13.9.1. The following items of equipment must be regularly inspected and maintained and appropriate records kept.

13.9.1.1. First Aid dressing registers

13.9.1.2. Fire equipment

13.9.1.3. Lifting equipment

13.9.1.4. Lifting Gear

13.9.1.5. Portable electrical equipment

13.9.1.6. Stacking and storage inspections

13.9.1.7. Explosive power tools

13.9.1.8. Hazardous Chemical Substances (HCS)

13.9.1.9. Materials hoists (where applicable)

13.9.1.10. Pressure Vessels

13.9.1.11. Ladders

13.9.1.12. Excavations

13.9.1.13. Safety harnesses

13.9.1.14. Scaffolds - static and mobile.

13.9.1.15. Pneumatic tools

13.9.1.16. Construction vehicles and mobile plant.

13.9.1.17. Health and Safety Representatives checklists.

13.10. Ladders and ladder work

13.10.1. The Principal Contractor shall appoint a competent person in writing to inspect all ladders monthly and record such findings in a register.

13.10.2. Ladders are to extend one meter above a landing and must be secured at the top and have a secure, non-slip base.

13.10.3. All ladders that do not comply with Health and Safety standards are to be removed from the site immediately.

13.11. Cranes and lifting equipment

- 13.11.1. Should any form of lifting device or crane (fixed or mobile) be used during the project for deliveries, moving of supplies or equipment, the appropriate documentation must be made available.
 - 13.11.2. The Principal Contractor and all Contractors shall ensure that lifting machinery and tackle is inspected before use and thereafter in accordance with the Driven Machinery Regulations and the Construction Regulations (section 20).
 - 13.11.3. Method statements, risk assessments, safe work procedures and training are to be available prior to work commencing.
 - 13.11.4. A procedure for managing loads and lifting must be made available as an addendum to the H&S Plan.
 - 13.11.5. There must be competent lifting machinery and tackle inspector who must inspect the equipment daily or before use, considering that:
 - 13.11.6. All lifting machinery has a safe working load clearly indicated.
 - 13.11.7. All lifting equipment is clearly marked with a unique number and safe working load.
 - 13.11.8. Regular inspection and servicing is carried out:
 - 13.11.8.1. Lifting Machinery load test – every 12 months
 - 13.11.8.2. Lifting Machinery Inspection & service – every 6 months
 - 13.11.8.3. Lifting Tackle Load test – every 12 months
 - 13.11.8.4. Lifting Tackle Inspections – every 3 months
 - 13.11.9. Records are kept of inspections and of service certificates.
 - 13.11.10. Any plant or slings used to lift plant or material requires annual load testing by an AIA, and all certificates must have the testers LMI/E number.
 - 13.11.11. There is proper supervision in terms of rigging & guiding the loads that includes a trained banks man to direct lifting operations and check lifting tackle.
 - 13.11.12. The operators are competent as well as physically and psychologically fit to work and in possession of a medical certificate of fitness to be available on site.
- 13.12. Tower Cranes
- 13.12.1. Should one or more tower cranes be required on site a procedure for management must be available as an addendum to the H&S plan.
 - 13.12.2. The following information must be included:
 - 13.12.2.1. planning – including site preparation, crane erection and dismantling;

- 13.12.2.2. selection, provision and use of a suitable crane and work equipment, including safe slinging and signaling arrangements;
 - 13.12.2.3. maintenance and examination of the crane and equipment;
 - 13.12.2.4. provision of properly trained and competent personnel;
 - 13.12.2.5. supervision of operations by personnel having the necessary authority;
 - 13.12.2.6. thorough examinations, reports and registers;
 - 13.12.2.7. preventing unauthorized movement or use of the crane; and
 - 13.12.2.8. Measures to secure safety of persons not involved in the lifting.
- 13.12.3. Personnel or material hoists are to comply to the relevant SANS codes and be accompanied by the relevant designs by competent persons, load testing certificates and registers.
- 13.12.4. Weather conditions are to be considered and work limited where deemed to be a risk, or per the standards for the particular crane.

13.13. Overhead Work & suspended loads

- 13.13.1. All overhead work & suspended loads must be safely executed and controlled under supervision.
- 13.13.2. The area around suspended loads must be barricaded to prevent unauthorized entry of persons whom is not part of the task.
- 13.13.3. Workers may not be positioned under a suspended load at any given time.
- 13.13.4. To control overhead work the Principle contractor must ensure that Workers secure all materials & equipment to prevent articles falling from above onto workers below.

13.14. Temporary Works (Scaffolding, support work, formwork)

- 13.14.1. The Principal Contractor shall ensure that the provisions of section 12 of the Construction Regulations are adhered to.
 - 13.14.1.1. These provisions must include but not be limited to the appointment of a competent supervisor; ensuring that all equipment used is examined for suitability before use; that all formwork and support work is inspected by a competent person immediately before, during and after placement of concrete or any other imposed load and thereafter, daily until the formwork and support work has been removed.
- 13.14.2. Temporary works must be properly designed and signed off by a competent person.

13.14.2.1. In these instances, a competent person is defined as a Professional Engineer or Professional Technologist (registered with ECSA) who has sufficient experience in the design of the type of temporary work in question to be able to assess the design.

13.14.3. The appropriate competent persons are to be appointed to manage and monitor such works to the satisfaction of the Engineer and H&S Agent.

13.14.4. Records and registers are to be properly completed and kept in the H&S file. If temporary works are to be erected by a Contractor, this must be notified to the Designer/H&S Agent.

13.14.5. Failure to do so will be considered a serious offence.

13.15. Batch Plants

13.15.1. Whichever form of batch plant is used, for mixing concrete, guards and protection of nip points, emergency stops etc. are to be appropriately managed by competent supervision.

13.15.2. Edge protection, movement of plant and dust management are required, including disposal of cement bags.

13.15.3. The layout of the batch plant and movement of plant is to be provided on an appropriate drawing.

13.15.4. The added requirement of Chest X rays for workers is to be added to pre-employment and possibly exit medicals, unless the workers are already on a system of medical surveillance.

14. WORKING PROCEDURES

14.1. Demolition work

14.1.1. A competent person is to be appointed in writing to supervise and control all demolition work on site.

14.1.2. A method statement on the procedure to be followed in demolishing the structure is to be developed by a competent person prior to the work being carried out.

14.1.3. Separate method statements will be required for separate walls, roofs and structures being demolished at ECDOH facility to ensure each risk has been thoroughly analysed.

14.1.4. The Construction Regulations section 14 conditions shall apply.

14.1.5. The Contractor is to provide suitable temporary signage to protect the areas under demolition.

14.1.6. The Contractor is to provide suitable dust-proof screens where necessary to contain dust from the demolitions.

14.1.7. The Contractor is to make every effort to limit the noise during demolition work and is to ensure that the work is carried out with the least possible interference to the employees, patients and visitors at ECDOH facility.

14.1.8. Rubber bin or similar approved rubble chutes are to be provided for the disposal of the rubble from the demolition works at ECDOH facility.

14.1.9. All materials arising from the demolitions are to be removed from site immediately and are not allowed to accumulate on site.

14.2. Site Works and Excavations

14.2.1. A competent person is to be appointed in writing to supervise the Site Works and Excavations.

14.2.2. A method statement on the procedures relating to the diversion of existing services and the maintenance of services to the existing facilities is to be agreed between the Contractor and the Principal Agent prior to the commencement of the work.

14.2.3. The Contractor is to ensure Risk Assessments & Safe Working procedures have been communicated to the workers before any work is commenced.

14.3. Excavations

14.3.1. A procedure for managing excavations is to be provided as an addendum to the H&S plan describing how excavations are to be managed.

14.3.2. Excavation method statements are to be approved by the Designer and associated risk assessments are required.

14.3.3. All Excavations are to be properly barricaded and demarcated.

14.3.4. Any excavation shall be adequately shored if people are required to work in the excavation and the depth is more than 1.5 metres or where conditions render this necessary at lesser depths unless battered/sloped at the maximum angle of repose measured relative to the horizontal plane.

14.3.4.1. Undercutting is not allowed.

14.3.5. Excavated material shall be placed at least 2m from the edge of an excavation.

14.3.5.1. A close watch shall be maintained at all times for signs of slipping, (e.g. cracks developing at the edges of the excavation).

14.3.5.2. Any Excavations over one metre in depth are to be properly shored up in accordance with the requirements of the Civil / Structural Engineer.

14.3.5.3. The requirements as per section 13 of the Construction Regulations are adhered to.

14.3.5.4. Designs by competent persons are required where ground conditions are deemed to require shoring.

14.3.6. A competent person is to be appointed for managing all excavations.

14.3.6.1. A permit system is to be available and used for all excavations.

14.3.6.2. All equipment and ground conditions to be checked daily, and prior to work commencing.

14.3.7. The Contractor shall evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.

14.3.8. Every contractor who performs excavation work shall –

14.3.8.1. Take suitable and sufficient steps to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation.

14.3.8.2. Not permit any person to work in an excavation which has not been adequately shored or braced: If shoring and bracing may not be necessary where –

14.3.8.2.1. The sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or

14.3.8.2.2. Such an excavation is in stable material:

14.3.8.2.3. Provided that - Permission being given in writing by the appointed competent person contemplated in sub regulation (1) upon evaluation by him or her of the site conditions; and where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations shall be decisive and such a decision shall be noted in writing and signed by both the competent person contemplated in sub regulation (1) and the professional engineer or technologist, as the case may be.

14.3.8.2.4. Take steps to ensure that the shoring or bracing contemplated is designed and constructed in such a manner rendering it strong enough to support the sides of the excavation in question.

14.3.8.2.5. Ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it is likely to cause its collapse and thereby endangering the safety of, any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing.

14.3.8.2.6. Ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, the steps are taken that may be

necessary to ensure the stability of such building, structure or road and the safety of persons.

- 14.3.8.2.7. Cause convenient and safe means of access to be provided to every excavation in which persons are required to work and such access shall not be further than 6m from the point where any worker within the excavation is working.
- 14.3.8.2.8. Ascertain as far as is reasonably practicable the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and shall before the commencement of excavation work that may affect any such service, take the steps that may be necessary to render the circumstances safe for all persons involved.
- 14.3.8.2.9. Cause every excavation, including all bracing and shoring, to be inspected by the competent person contemplated in the sub regulation:
 - 14.3.8.2.9.1.1. Daily, prior to each shift.
 - 14.3.8.2.9.1.2. After every blasting operation.
 - 14.3.8.2.9.1.3. After an unexpected fall of ground.
 - 14.3.8.2.9.1.4. After substantial damage to supports.
 - 14.3.8.2.9.1.5. After rain.
- 14.3.8.2.10. This is to be done in order to pronounce the safety of the excavation to ensure the safety of persons, and those results are to be recorded in a register kept on site and made available to an inspector, client, client's agent, contractor or employee upon request.
- 14.3.8.2.11. Cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be:
- 14.3.8.2.12. Adequately protected by a barrier or fence of at least one meter in height and as close to the excavation as is practicable.
- 14.3.8.2.13. Provided with warning illuminates or any other clearly visible boundary indicators at night or when visibility is poor.
- 14.3.8.2.14. Ensure that all precautionary measures as stipulated for confined spaces as determined in the General Safety Regulations promulgated by Government Notice No. R.1031 of 30 May 1986, as amended, are complied with when entering any excavation.
- 14.3.8.2.15. Ensure that, where the excavation work involves the use of explosives, a method statement is developed in accordance with the applicable explosives

legislation, by an appointed person who is competent in the use of explosives for excavation work and that the procedures therein are followed.

14.3.8.2.16. Cause warning signs to be positioned next to an excavation within which persons are working or carrying out inspections or tests.

14.3.9. Excavations should preferably not be open beyond what can be closed daily.

14.3.9.1. Where excavations need to remain open, all excavations are to be properly protected.

14.3.9.1.1. Adequate stakes with 1m high demarcation and berms/spoil are required to be a safe distance from the edge of the angle of repose. Candy tape may not be used to demarcate excavations.

14.3.9.1.2. Cognisance is required of the surrounding area and increased levels of protection are required where work is in communities, near schools' clinics and / or Hospitals.

14.3.10. Work will be stopped and penalties applied to any work in excavations that are not compliant.

14.4. Working at Heights

14.4.1. A fall protection plan is to be available and supplied as an addendum to the H&S plan.

14.4.1.1. The fall protection plan must be appropriate for the project.

14.4.1.2. Method statements, appropriate risk assessments, safe work procedures and training are to be available prior to work commencing.

14.4.2. Construction drawings shall be required for all temporary structures as they relate to the project.

14.4.2.1. The drawings shall be accompanied by full calculations, design loads and any relevant test results as required by the SANS code, and ensure adequate allowance for the development of appropriate documentation and training.

14.4.2.2. All drawings are to be checked and signed by a competent structural engineer (registered with ECSA).

14.4.3. The focus for working at height shall include fall restraint systems where possible except during assembling or dismantling top components or where it is not deemed safe.

14.4.3.1. The relevant SANS codes are to be applied as they apply to the works and the project, such as:

14.4.3.1.1. SANS 10085

14.4.3.1.2. SANS 10333 (parts 1-3)

14.4.4. Should part of the works be contracted out, competent Contractors are to be appointed and submit documentation according to the project requirements.

14.4.4.1. The PC is to note if such work is to be contracted to specialists in the H&S Plan.

14.4.4.2. The plan is to be developed and work managed by a competent person for the duration of the project.

14.4.4.3. The following aspects must be included:

14.4.4.3.1. The public or users of buildings are to be protected at all times by way of hoarding, barricading or fencing

14.4.4.3.2. Notices to be posted

14.4.4.3.3. Restrictions or stoppage when weather conditions are deemed hazardous

14.4.4.3.4. Permit system for working at heights

14.4.4.3.5. Prevention of falling tools or equipment

14.4.4.3.6. Link to emergency plan regarding rescue

14.4.4.3.7. All workers are to be in possession of valid certificates of fitness that extend for the duration of the works.

14.4.4.4. Note the requirements in the section relating to medical surveillance.

14.4.4.5. Registers and all relevant documentation are to be placed in the H&S file.

14.4.4.6. Work will be stopped and penalties applied to any work at heights that is not compliant.

14.5. Edge protection

14.5.1. The Principal Contractor must ensure that all edges and openings are guarded and demarcated at all times until permanent protection is erected.

14.5.2. The protection must be visibly marked and sign posted.

14.6. Roof work

14.6.1. All roof work must be conducted in accordance with Construction Regulation 10, with a fall protection plan in place before any work commences.

14.7. Piling

14.7.1. Method statements, risk assessments and safe work procedures are to be available for the type of piling chosen for the project.

14.7.2. Focus on dust limitation during the piling and mixing of grout.

14.7.3. Load testing of rigs will be required as per the current legislation. Use of Compressors will be managed as per SANS and legislative requirements, and is applicable to any plant hired for site.

14.7.4. Failure to do so will be considered a serious offence.

14.8. Asbestos removal/replacement of roof / sheeting

14.8.1. The removal of asbestos must be by an asbestos approved Contractor.

14.8.2. The H&S specification provided by the PC is to include as much information as possible relative to the requirements relating to asbestos.

14.8.3. An asbestos removal plan must be approved by the Department of Labour as well as approval of all general information required of Contractors.

14.8.4. Failure to do so will be considered a serious offence.

14.9. Mechanical installations

14.9.1. All mechanical installations are to be carried out in conformity with the manufacturer's instructions.

14.9.2. Method statements and risk analyses must be compiled for each type of installation.

14.9.3. A competent person must be designated to supervise the work.

14.10. Electrical work

14.10.1. In addition to the requirements of the Electrical Machinery Regulations and the General Machinery Regulations any electrical distribution board used for construction work shall be fitted with suitable earth leakage protection.

14.10.2. Leads must be properly and firmly connected.

14.10.3. Plugs and sockets shall be in good and safe condition.

14.10.4. All electrical apparatus, other than electrical hand tools, shall have a physical "lock out" system which will prevent any operation other than that authorized by a supervisor.

14.10.4.1. A "lock out" sign shall be displayed when the apparatus is not in use.

14.10.5. Method statements and safe work procedures will be required for all work involving electrical apparatus.

15. Auditing

15.1.1. Frequency of external auditing by the H&S Agent or Client will be as agreed with the Client and Designer but will at least conform to the requirements of the Construction Regulations.

15.1.1.1. The site will be inspected and the documentation audited relative to the activities and H&S plan.

15.1.1.2. The H&S Officer of the PC must accompany the Client, or the H&S Agent, on all audits and inspections.

15.1.1.3. Not all audits will be, or need be announced.

15.1.2. The PC will ensure that all their Contractors are audited at a frequency determined by the H&S Agent.

15.1.2.1. Audit frequency may be increased if Contractors are not performing adequately.

15.1.2.2. Audit results will be acted upon and non-conformances and penalties issued where deemed appropriate.

15.1.2.3. The Client, Designer or H&S Agent may act or require further outcomes if non-compliances are noted or unsafe acts are noted on site.

15.1.3. Internal audits are to include site conditions as well as ensuring H&S files are appropriate, and compliant.

15.1.3.1. Comprehensive audit reports are to be made available, the format of the audit reports is to be acceptable by the H&S Agent.

15.1.4. The PC will be audited using a template as supplied in the tender document.

15.1.4.1. The audit template will be adjusted from time to time relative to the activities on site.

15.1.4.2. A similar process is to be used by the PC when auditing their Contractors on site.

15.1.4.3. Compliance with legislative requirements and the systems provided by the PC to manage the H&S on site will be measured.

15.1.4.4. Full compliance is required. Time limits for corrective actions will be set and must be adhered to.

15.1.5. Failure to address findings or non-conformances will be considered a serious offence.

16. OCCUPATIONAL HEALTH

16.1. Communication on Site

16.1.1. All H&S communication during the project between the H&S Agent and the PC will be done through the PA/Clerk of Works/Client and be in writing, including the issue and responses to non-conformances and H&S audit results.

16.1.2. Failure to address issues timeously will be considered a serious offence.

16.2. Care of Workers on Site (Welfare)

16.2.1. Adequate toilets, clean, safe drinking water and decent shelter will be provided for workers at all times.

16.2.1.1. Toilets will be within reasonable distance of workers, or placed with each working team in safe, with reasonable privacy.

16.2.1.2. Hand washing facilities will be provided.

16.2.1.3. Arrangements made where existing facilities are shared with existing users must be made in writing and placed in the H&S file.

16.2.2. Failure to ensure compliance will be considered a serious offence.

16.2.3. High levels of humidity and temperatures during the summer months may be experienced.

16.2.3.1. Workers are at greater risk of heat exhaustion where the discomfort index rises above 100.

16.2.3.2. A weather station has been allowed for to monitor temperature and humidity specifically.

16.2.3.3. Should the discomfort index rise above 105, work may be partially or totally stopped.

16.2.4. During winter in areas known for cold weather notice must be taken of the wind-chill factor.

16.2.4.1. Workers must be supplied with adequate protective clothing and shelters provided as necessary.

16.2.5. Flooding may occur during the rainy season.

16.2.6. High winds may be experienced and to limit dust or danger when working at heights, a wind speed should be set at which work may be stopped or the workers in an affected area moved.

16.2.7. The emergency plan is to include how these and other weather extremes identified are to be managed.

16.2.7.1. The general aspects as detailed in the Environmental Regulations will be applied.

16.2.8. All decisions regarding work stoppage will be decided between the PC, the H&S Officer and the Engineer or Principal Agent.

16.2.9. Failure to manage specific conditions or address issues timeously will be considered a serious offence.

16.3. Discipline, Alcohol and Substance Abuse

16.3.1. All employees (management included) are to follow instructions given in the interest of H&S.

16.3.1.1. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

16.3.2. No person can work or access site if under the influence of alcohol or other substances that could impact on their own or others safety.

16.3.2.1. The PC is to have a drug and alcohol policy available to manage such instances.

16.3.3. These requirements are applicable to any employee of any organization providing services on site.

16.3.3.1. Penalties may also be applied by the Client, OHS Agent, Engineer or Principal Agent.

16.4. Rules of Conduct.

16.4.1. Workers MAY NOT partake, possess or sell drugs or alcoholic beverages on site.

16.4.2. Any employee or visitor whose action and demeanour show symptoms of possible narcosis or drunkenness shall be removed from site.

16.4.3. Workers MAY NOT indulge in practical jokes, horseplay, fighting or gambling.

16.4.4. Workers MAY NOT destroy or tamper with safety devices, symbolic signs or wilfully and unnecessarily discharge fire extinguishers.

16.4.5. Workers MAY NOT bring onto site or have in their possession a firearm or lethal weapon.

16.4.6. Workers MAY NOT assault, intimidate or abuse any other person.

16.4.7. Workers MAY NOT operate construction equipment (vehicles or plant) without the necessary training and authorisation.

16.4.8. Workers MAY NOT display insubordination toward any Supervisor, Foreman or Manager in respect to carrying out of properly issued instructions or orders for Health and Safety reasons.

16.4.9. Workers MAY NOT enter any area where they have no business unless authorised to do so by the person in charge.

16.4.10. Workers MAY NOT negligently, carelessly or wilfully cause damage to property of others.

16.4.11. Workers MAY NOT refuse to give evidence or deliberately make false statements during investigations.

16.4.12. Workers MAY NOT work on site without appropriate induction training & proof thereof.

16.4.13. The Contractor MAY NOT start any task without performing a risk assessment & training of the employees who will be involved in the work.

16.4.14. All workers are to display their identification tags at all times.

16.4.15. NO SMOKING will be permitted within the ECDOH facility.

16.4.16. Workers are NOT to interfere with the duties of the ECDOH facility.

16.4.17. The Principal Contractor shall keep and maintain Health and Safety records to demonstrate compliance with this Specification, with the Occupational Health and Safety Act, and with the Construction Regulations.

16.4.18. The Principal Contractor shall ensure that all records of incidents/accidents, emergency procedures, training, inspections, audits, etc., are kept in the Health and Safety file.

16.4.19. The Principal Contractor shall ensure that all Sub-contractors maintain the Health and Safety file.

16.5. Compliance with the Rules of Conduct.

16.5.1. The Principal Contractor, Subcontractors and all employees under their control, including any visitor brought onto site must adhere to the Rules of conduct on site, as listed under Section 12.28.

16.5.2. These Rules of Conduct must also be adhered to by any of the following who visit the Site:

16.5.2.1. Professional Team

16.5.2.2. Hospital Management and Staff

16.5.2.3. ECDoH Employees

16.5.2.4. Direct Contractors

16.5.2.5. Trade Representatives

16.5.2.6. Any other visitors to the Site.

16.6. Electrical Equipment

16.6.1. In addition to the requirements of the Electrical Machinery Regulations and the General Machinery Regulations any electrical distribution board used for construction work shall be fitted with suitable earth leakage protection.

16.6.2. Leads must be properly and firmly connected.

16.6.3. Plugs and sockets shall be in good and safe condition.

16.6.4. All electrical apparatus, other than electrical hand tools, shall have a physical "lock out" system which will prevent any operation other than that authorized by a supervisor.

16.6.4.1. A "lock out" sign shall be displayed when the apparatus is not in use.

16.6.5. Method statements and safe work procedures will be required for all work involving electrical apparatus.

17. SAFETY RULES WITH RESPECT TO WORK TO HEALTHCARE FACILITIES

- 17.1. All persons on the premises shall obey the ECDoH and facility Health and Safety rules, procedures and practices.
- 17.2. No smoking will be permitted within the buildings or within the buildings under construction.
- 17.3. All work shall be carried out within normal working hours except certain essential works which may need to be carried out after hours or over weekends – arrangements for such work to be agreed in advance between the Contractor and Principal Agent.
 - 17.3.1. Note: That on this contract it is assumed that work will take place 7 days a week including after hours and at night as required.
 - 17.3.2. The Contractor is to agree the weekly work schedule in advance with the Principal Agent.
- 17.4. All workers are to be instructed in and familiarise themselves with the existing emergency and safety procedures and to co-operate in any drills or exercises which might be held by the Hospital.
- 17.5. Emergency / Firefighting equipment belonging to the premises is not to be interfered with.
- 17.6. Emergency Exits and Escape Routes, including Temporary Escapes Routes are not to be obstructed.
- 17.7. No persons shall carry out or initiate an unsafe / unhygienic act or operation whilst on the premises.
- 17.8. Workers are not to interfere with the duties of the ECDOH facility staff.
- 17.9. The Contractor shall maintain good housekeeping standards in the areas being worked on throughout the duration of the contract.
- 17.10. All waste / scrap materials are to be removed from the work areas on an on-going basis and should not be allowed to accumulate.
- 17.11. The ECDOH facility and the Eastern Cape Department of Health Management reserve the right to act in any way necessary to ensure the safety and / or security of any persons or equipment on its premises and will not be liable for any costs incurred or loss evoked by such actions.
- 17.12. The ECDOH facility and Eastern Cape Department of Health Management reserve the right to search all vehicles entering, leaving or parked on the premises and to inspect any parcel, package, handbag, tog-bag or suitcase.
- 17.13. The CHC staff reserve the right to search any person entering or leaving the CHC premises.
- 17.14. Persons who are not willing to permit such searches may not bring any such items or vehicles onto the premises.

- 17.15. All workers must wear proper identification labels at all times – The Contractor will be asked to remove persons without identification from the premises.
- 17.16. The Contractor will not be permitted to use any tools or equipment belonging to the CHC.
- 17.17. The Contractor is to ensure that noise is kept to a minimum so as not to unduly interfere with the functioning of the adjacent facilities.
- 17.18. The Contractor is to ensure that dust from the works is properly contained so as not to cause problems with the normal functioning of the adjacent facilities.

18. PROJECT SPECIFIC RISKS

18.1. Risks applicable to the planned construction work at ECDOH facility

- 18.1.1. Working on the existing ECDOH facility site in a building that contains essential medical supplies and will remain in operation throughout the contract period.
- 18.1.2. The existing ECDOH facility is a high-risk security area and the Contractor must ensure that the security of the areas not being worked on is not compromised.
- 18.1.3. The Contractor will have to coordinate with the ECDOH facility Management and Staff regarding the transfer of stock from one area to another to clear the work areas where necessary.
- 18.1.4. Where necessary the Contractor is to provide temporary security screens to ensure the security of areas not being worked on.
- 18.1.5. Existing services will have to be altered whilst maintaining continuity and supply to the existing facilities.
- 18.1.6. The Contractor having to access the work areas through the existing ECDOH facility areas that are functional.
- 18.1.7. The transporting of materials in and out of the work areas without compromising the security of the remaining occupied areas.
- 18.1.8. Works above 5 meters in height.
- 18.1.9. Working at height in restricted spaces along the perimeter of the building.
- 18.1.10. Working in/near busy delivery and dispatch areas.
- 18.1.11. The limiting of noise & vibration from construction activities.
- 18.1.12. Keeping the escape routes clear and unobstructed.
- 18.1.13. Restricted access for materials and workers.
- 18.1.14. Restricted Contractor's yard area.
- 18.1.15. Restricted access for construction vehicles and deliveries of materials.
- 18.1.16. Tight construction programme.
- 18.1.17. The maintenance of the existing ablutions, windows, roof work and barge boards.

19. PROCEDURES TO MANAGE PROJECT RISKS

19.1. Public and Staff Safety.

- 19.1.1. The scheduling of work activities and order of work to reduce the interference with the normal facilities activities.

19.1.2. The provision of temporary, dust proof, hoardings to isolate the work areas.

19.1.3. The use of closed bin trolleys for the transport of materials and rubble.

19.1.4. Ensuring that the Principal Contractor has proper site management, site security and control measures in place at all times.

19.1.5. Ensuring that there is ongoing liaison between the Principal Contractor and ECDOH facility Management.

19.2. Public Safety

19.2.1. The provision of temporary, hoardings to isolate the work area.

19.2.2. The use of closed rubble chutes and suitable skips for removal and disposal of rubble.

19.2.3. Ensuring that the Principal Contractor has proper site management, site security and control measures in place at all times.

All task specific risks have been analysed and are detailed in the baseline risk assessment.

20. HEALTH AND SAFETY FILE

20.1. The documentation submitted and approved following the awarding of the contract will be used to form the H&S file.

20.2. The H&S file is required to be laid out in a logical manner, and documentation filed within the file is to be easily accessible.

20.3. The following completed information shall be included (but not be limited to) as part of the index:

20.3.1. The PSHSS;

20.3.2. The H&S Plan and the approval by Client;

20.3.3. Appointment by Client;

20.3.4. Mandatory agreement with Client;

20.3.5. Notification of construction work;

20.3.6. A record of all working drawings, calculations and design where applicable;

20.3.7. Detailed list of Contractors with contact details, appointments, Mandatories etc., H&S specifications issued;

20.3.8. Record of Competencies (CVs) and appointments;

20.3.9. Training Records;

20.3.10. Permits / Notification of Construction;

20.3.11. Method statements;

- 20.3.12. Risk assessments;
- 20.3.13. Safe work procedures;
- 20.3.14. Emergency and injury management;
- 20.3.15. Safety data sheets
- 20.3.16. Medical surveillance records;
- 20.3.17. Registers;
- 20.3.18. Records of audits, minutes etc.
- 20.3.19. Plant lists
- 20.3.20. Temporary electrical installations
- 20.3.21. Employee records (who is on site)

21. NON-CONFORMANCES

21.1. Should, at any time, the works, or part of the works, be stopped due to unsafe acts or non-compliance with the Clients or PCs H&S Plan; neither the PC nor any other Contractor shall have a claim for extension of time or any other compensation.

21.2. The following constitute examples of the types of non-conformances that will attract penalties:

Minor: Penalty: R50/count	Medium: Penalty: R500/count and a non-conformance	Severe Penalty: R5000/count, a non- conformance and/or activity stoppage
Non-use of PPE supplied	Toilets not supplied or regularly serviced; lack of drinking water	Contractors working without Health and Safety Plan approval
Non-completion of registers for plant and equipment on site	Contractors not audited	Workers transported in contravention of the OHS plan or legal requirements
Lack of H&S signage at work areas	Working without training or the appropriate, approved H&S method statements	Invalid Letters of Good Standing
Tools and equipment identified in poor condition during inspections	Legal non-conformances identified during the previous audit and not addressed within the agreed time frame	Non-compliance with traffic accommodation requirements: layout or physical conditions
	No monthly OHS report at site meeting to report on	Any serious breach of legal requirements
	No certificates of fitness for workers as required	Working at heights without the required control measures e.g. safety harnesses attached to a life line.
	Working without approved method statements	

21.3. Failure to Comply with Provisions

21.3.1. Failure or refusal on the part of the PC or their Contractors to take the necessary steps to ensure the safety of workers and the general public in accordance with these specifications or as required by statutory authorities or ordered by the engineer, shall be sufficient cause for the engineer to apply penalties as follows:

21.3.1.1. A penalty as shown in the Table above shall be deducted for each occurrence of non-compliance with any of the requirements of the PSHSS.

21.3.1.2. In addition, a time-related penalty of R500,00 per hour over and above the fixed penalty may be deducted for non-compliance to rectify any non-conformance within the allowable time after a site instruction to this effect has been given by the Designer.

21.3.1.3. The site instruction shall state the agreed time, which shall be the time in hours for reinstatement of the defects.

21.3.1.4. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

22. MEASUREMENT AND PAYMENT

22.1. The payment items for Occupational Health & Safety are contained in the Bills of Quantities.

22.2. The same rules are applicable in respect of the pricing of these items as for every other payment item.

22.3. Attention is drawn to the Pricing Instructions in this document.

22.4. **Item and Unit**

22.4.1. **C.01 - Preparation of Contractor's Project Specific Health and Safety Plan. (Lump Sum (L.S))**

22.4.1.1. The rate for this item must cover all expenses incurred in preparing the Contractor's project specific Health and Safety Plan as required by the Client's project specific Health and Safety Specification in this document

22.4.2. **C.02 - Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations. (Lump Sum (L.S))**

22.4.2.1. The full amount will be paid in one instalment only when the Client's Agent has verified and approved the following:

22.4.2.1.1. The Principal Contractor has notified the Provincial Director of the Department of Labour in writing of the project, Annexure A to the Regulations.

22.4.2.1.2. The Principal Contractor has made the required initial Appointments of Employees and Contractors.

22.4.2.1.3. The Client has approved the Principal Contractor's project Health and Safety Plan.

22.4.2.1.4. The Principal Contractor has set up his Health and Safety File.

22.4.3. C.03 - Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations. (Month (Mth))

22.4.3.1. The amount shall represent full compensation for that part of the Principal Contractor's general obligations in terms of the Occupational Health and Safety Act and Regulations which are mainly a function of time.

22.4.3.2. Payment will be made when the Client's Agent has verified the Principle Contractor's compliance as part of the audit.

22.4.3.3. This will include the updating and administration of the Health and Safety file.

22.4.4. C.04 - Provision of Personal Protective Equipment (PPE) as listed in the Bill of Quantities. (Number (No))

22.4.4.1. The rates for these items shall include for the procurement, delivery, storage, distribution and all other actions required for the supply of PPE to the employees of the Principle Contractor, full or part time, requiring them.

22.4.4.2. Subcontractors are responsible for their own costs in this regard.

22.4.4.3. Any items of PPE not included on the list will be paid for only after the Engineer has agreed to their acquisition.

22.4.4.3.1. Items listed will include, among others which may be noted, are: hard hats, reflective vests, reflective bibs, high visibility overalls, protective foot wear, fall arrestor harness and tethers, gloves, ear muffs, earplugs and dust masks of appropriate type.

22.4.4.3.2. Normal items such as standard overalls, waterproof clothing, gum boots and standard workshop safety equipment such as welding masks and goggles will not be paid for.

22.4.4.4. Payment will be based on the issues register for PPE as kept by the Construction Health and Safety Officer, backed up by paid invoices if requested.

22.4.4.5. Contractor to make provision for fall arrest / fall protection equipment when height work / roof work is being done. Boards to be layed on the area where employees will be working. The provision of a life line and safety harnesses. Safety access to the specific height for employees.

22.4.5. C.05 - Provision of Part Time Construction Health and Safety Officer (Month)

22.4.5.1. The Tender sum shall include for the cost of a Construction Health and Safety Officer on a fulltime if the Client should allow a part-time CHSO the amount tendered will be prorated according to the amount of time spent on the project.

22.4.6. C.06 - Costs of Medical Surveillance (Unit (No))

22.4.6.1. This item shall cover all costs in involved in the obtaining of baseline medical examinations of temporary labour, including operators for mobile plant as contemplated in CR 21(d) (ii); for temporary workers and workers exposed to noises at or above the limits given in the Noise-induced Hearing Loss regulations, as stipulated.

22.4.6.2. Workers in the permanent employ of the Contractor will only be paid for if their certificates require updating.

22.4.6.3. **C.06 a)** Initial (baseline) medical examinations, including audiometric and lung function testing.

22.4.6.4. C.07 - Induction Training (Unit (No))

22.4.6.4.1. This item shall cover all costs incurred for the health and safety inductions as set out on Regulation 7 of the Construction regulations and the proof of induction required.

22.4.6.4.2. Payment will be made on the figures contained in the induction section of the Health and Safety File.

22.4.6.5. C.08 - Provision of First Aid Boxes. (Unit (No))

22.4.6.5.1. The rate for this item shall cover all costs incurred in the provision and maintaining of first aid boxes as outlined in Paragraph 7 above.

22.4.6.6. C.09) Establishment of noise levels (Unit (No))

22.4.6.6.1. This item shall cover all costs involved in the establishment of noise zones, including any workshops, in terms of Regulation 9 of the Noise-induced Hearing Loss Regulations.

22.4.6.6.2. Where a zone has previously been established for a particular item of plant within the last two years, the test need not be repeated but must be kept valid for the duration of the Contract.

22.4.6.7. C.10 - Submission of the Health and Safety File. (Lump Sum)

22.4.6.7.1. Expenditure under this item shall be made in accordance with the general conditions of contract.

22.4.6.7.2. This amount will be paid only once the Principal Contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client's satisfaction.

22.4.6.7.3. This must be done prior to the issue of a Certificate of Completion

RESPONSIBILITY	SIGNATURE	DATE
H&S AGENT SIGNATURE:		
CLIENT SIGNATURE:		

ANNEXURE A

CLOSE OUT REQUIREMENTS

The H&S files for the Principal Contractors and all Contractors require closure and handover to the Client at the completion of the project. The following list is an example of what should be included, but is not exhaustive. The OHS Agent or the Client may require further information at the time of completion and the Principal Contractor is to ensure that all instructions are met. Documentation would include all records from the start of the project. Daily or monthly plant inspection records are not required unless they are related to an accident. All records to be in electronic format and submitted to the OHS agent for approval in adequately formatted lists and folders. Layout should be logical and in the same order as in the site files.

Health and Safety close out file requirements include:

- a) Client H&S Specification
- b) Principal Contractor's OHS Plan(s)
- c) Organograms
- d) Legal Appointments
- e) List of all employees employed on a permanent or contractual basis over the duration of the contract
- f) Notification to Department of Labour of commencement of work
- g) Letters of Good Standing for the Project
- h) Full files for all Contractors as well as their close out reports
 - List of Contractors
 - All employees employed on a permanent or contractual basis over the duration of the contract
 - Letters of Approval of Contractors
 - Mandatary Agreements
 - Letters of Good Standing
 - Appointments
- i) Incident Records
- j) Non- Conformance records
- k) Agent's Audits
- l) Method Statements
- m) Risk assessments
- n) Safe work procedures
- o) Medical surveillance certificates of fitness. Medical records are to be kept according to the OH&S Act as amended
- p) All drawings for temporary structures (suspended beams/scaffolds etc.)

- q) All operating manuals for any systems that require on-going maintenance
- r) Copies of test results, policies and procedures for environmental monitoring (silica, noise, dusts etc.)

Defect and Liability Period

The H&S files are to be kept 'live' for the defect and liability period by the Principal Contractor, including those of their Sub-Contractors. Any work required during the defect and liability period will require an assessment of the H&S file by the OH&S Agent prior to any work commencing.

A copy of drawing records for the as-built drawings are to be placed on file by the Designers once complete.

ANNEXURE B

NON-CONFORMANCES

HEALTH AND SAFETY SITE INSPECTION		
NON-CONFORMANCE NO		
AGENT:	PROJECT:	
Consultant:	Date and time:	
Client	Area:	
Contractor:		
ASPECTS NOTED:	COMMENTS:	COMPLETION REQUIRED BY (DATE):
	•	
	•	
	•	
	•	
	•	
PHOTOGRAPHIC EVIDENCE (if available):		
OTHER:		
The following penalties are to be applied:		
Signature of H&S Officer/		
Signature: of H&S Agent		

ANNEXURE C:

CONTRACTORS MONTHLY HEALTH AND SAFETY REPORT

(To be submitted by the end of the first week of each month and be available with each audit)

CONTRACT NUMBER:		PROJECT NAME:	CONTRACT DETAILS:
1	GENERAL ACTIVITIES FOR THE MONTH (detail each area of work)		
2	NUMBER OF WORKERS (permanent and local, contractors)		
3	TRAINING DONE (supplier, no of people, type)		
4	INCIDENTS / ACCIDENT (list number and details, attach reports)		
6	NON-CONFORMANCES (closed out or active)		
7	CONTRACTORS (list, approval status)		
8	AUDITS COMPLETED (internal and external)		
9	CRITICAL ISSUES		

10	GENERAL	

Health and Safety Officer: _____ Signature: _____

Date: _____

Construction Manager: _____ Signature: _____

Date: _____

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH

HIV/AIDS SPECIFICATION & REQUIREMENTS



PROVINCE OF THE EASTERN CAPE

DEPARTMENT OF HEALTH

Project title:	BHISHO HOSPITAL PHASE 1: URGENT REPAIRS AND MAINTENANCE
Bid No:	SCMU3-17/18-0332-HO

HIV/AIDS SPECIFICATION & REQUIREMENTS

September 2016

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH

HIV/AIDS SPECIFICATION & REQUIREMENTS



SECTION

HIV/AIDS SPECIFICATION

HIV/AIDS REQUIREMENTS

1 SCOPE

This specification contains all requirements applicable to the Contractor for creating HIV/AIDS awareness amongst all of the Workers involved in this project for the duration of the construction period, through the following strategies:

- Raising awareness about HIV/AIDS through education and information on the nature of the disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary testing and counselling, the diagnosis and treatment of Sexually Transmitted Infections and the closest health Service Providers;
- Informing Workers of their rights with regard to HIV/AIDS in the workplace;
- Providing Workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices.

2 DEFINITIONS AND ABBREVIATIONS

2.1 Definitions

Service Provider: The natural or juristic person recognised and approved by the Department of Public Works as a specialist in conducting HIV/AIDS awareness programmes.

Service Provider Workshop Plan: A plan outlining the content, process and schedule of the training and education workshops, presented by a Service Provider which has been approved by the Representative/Agent.

Worker: Person in the employ of the Contractor or under the direction or supervision of the Contractor or any of his Sub-contractors, who is on site for a minimum period of 30 days in all.

2.2 Abbreviations

- HIV : Human Immunodeficiency Virus.
- AIDS : Acquired Immune Deficiency Syndrome.
- STI : Sexually Transmitted Infection.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH



HIV/AIDS SPECIFICATION & REQUIREMENTS

3 BASIC METHOD REQUIREMENT

3.1 The Contractor shall, through a Service Provider, conduct onsite workshops with the Workers.

The Service Provider shall develop and compile a Service Provider Workshop Plan to be presented at the workshops and which will be best suited for this project to achieve the specified objectives with regard to HIV/AIDS awareness.

The Service Provider Workshop Plan shall be based on the following information provided by the Contractor:

- Number of Workers and Sub-contractors on site;
- When new Workers or Sub-contractors will join the construction project;
- Duration of Workers and Sub-contractors on site;
- How the maximum number of Workers can be targeted with workshops;
- How the Contractor prefers workshops to be scheduled, e.g. three hourly sessions per Worker, or one 2.5 hour workshop per Worker;
- Profile of Workers, including educational level, age and gender (if available);
- Preferred time of day or month to conduct workshops;
- A Gantt chart reflecting the construction programme, for scheduling of workshops;
- Suitable venues for workshops.

The Contractor shall submit the Service Provider Workshop Plan for approval within 21 days after the tender acceptance date. After approval by the Representative/Agent, the Contractor shall make available a suitable venue that will be conducive to education and training.

3.2 The Service Provider Workshop Plan shall address, but will not be limited to the following:

- 3.2.1 The nature of the disease;
- 3.2.2 How it is transmitted;
- 3.2.3 Safe sexual behaviour;
- 3.2.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.2.5 Attitudes towards other people with HIV/AIDS;
- 3.2.6 Rights of the Worker in the workplace;
- 3.2.7 How the Awareness Champion will be equipped prior to commencement of the HIV/AIDS awareness programme with basic HIV/AIDS information and the necessary skills to handle questions regarding the HIV/AIDS awareness programme on site sensitively and confidentially;
- 3.2.8 How the Service Provider will support the Awareness Champion;
- 3.2.9 Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.2.10 How the workshops will be presented, including frequency and duration;
- 3.2.11 How the workshops will fit in with the construction programme;
- 3.2.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly;
- 3.2.13 How the video will be used;
- 3.2.14 How the Service Provider will elicit maximum participation from the Workers;
- 3.2.15 A questions and answers slot (interactive session).

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH

HIV/AIDS SPECIFICATION & REQUIREMENTS



The Service Provider Workshop Plan shall encompass the Specific Learning Outcomes (SLO) as stipulated.

4 HIV/ AIDS AWARENESS EDUCATION AND TRAINING

4.1 Workshops

The Contractor shall ensure that all Workers attend the workshops.

The workshops shall adequately deal with all the aspects contained in the Service Provider Workshop Plan. A video of HIV/AIDS in the construction industry, which can be obtained from all Regional Offices of the Department of Public Works, is to be screened to Workers at workshops. In order to enhance the learning experience, groups of not exceeding 25 people shall attend the interactive sessions of the workshops.

4.2 Recommended practice

4.2.1 Workshop Schedule

Presenting information contained in the Service Provider Workshop Plan can be divided in as many workshop sessions as deemed practicable by the Contractor, provided that all Workers are exposed to all aspects of the workshops as outlined in the Service Provider Workshop Plan.

Breaking down the content of information to be presented to Workers into more than one workshop session however, has the added advantage that messages are reinforced over time while providing opportunity between workshop sessions for Workers to reflect and test information. Workers will also have an opportunity to ask questions at a following session.

4.2.2 Service Providers

A database of recommended Service Providers is available from all Regional Offices of the Department of Public Works.

4.2.3 HIV/AIDS Specific Learning Outcomes and Assessment Criteria

Workers shall be exposed to workshops for a minimum duration of two-and-a-half hours. In order to set a minimum standard requirement, the following specific learning outcomes and assessment criteria shall be met.

4.2.3.1 UNIT 1: The nature of HIV/AIDS

After studying and understanding this unit, the Worker will be able to differentiate between HIV and AIDS and comprehend whether or not it is curable. The Worker will also be able to explain how the HI virus operates once a person is infected and identify the symptoms associated with the progression of HIV/AIDS.

Assessment Criteria:

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH

HIV/AIDS SPECIFICATION & REQUIREMENTS



1. Define and describe HIV and AIDS;
2. List and describe the progression of HIV/AIDS.

4.2.3.2 UNIT 2: Transmission of the HI virus

After studying and understanding this unit, the Worker will be able to identify bodily fluids that carry the HI virus. The Worker will be able to recognise how HIV/AIDS is transmitted and how it is not transmitted.

Assessment Criteria:

1. Record in what bodily fluids the HI virus can be found;
2. Describe how HIV/AIDS can be transmitted;
3. Demonstrate the ability to distinguish between how HIV/AIDS is transmitted and misconceptions around transmittance of HIV/AIDS.

4.2.3.3 UNIT 3: HIV/AIDS preventative measures

After studying and understanding this unit, the Worker will comprehend how to act in a way that would minimise the risk of HIV/AIDS infection and to use measures to prevent the HI virus from entering the bloodstream.

Assessment Criteria:

1. Report on how to minimise the risk of HIV/AIDS infection;
2. Report on precautions that can be taken to prevent HIV/AIDS infection;
3. Explain or demonstrate how to use a male and female condom;
4. List the factors that could jeopardize the safety of condoms provided against HIV/AIDS Transmission.

4.2.3.4 UNIT 4: Voluntary HIV/AIDS counselling and testing

After studying and understanding this unit, the Worker will be able to recognise methods of testing for HIV/AIDS infection. The Worker will be able to understand the purpose of voluntary HIV/AIDS testing and pre- and post-test counselling.

Assessment Criteria:

1. Describe methods of testing for HIV/AIDS infection;
2. Report on why voluntary testing is important;
3. Report on why pre- and post-test counselling is important.

4.2.3.5 UNIT 5: Living with HIV/AIDS

After studying and understanding this unit, the Worker will be able to recognise the importance of caring for people living with HIV/AIDS and be able to manage HIV/AIDS.

Assessment Criteria:

1. List and describe ways to manage HIV/AIDS;
2. Describe nutritional needs of people living with HIV/AIDS;
3. Describe ways to embrace a healthy lifestyle as a person living with HIV/AIDS;
4. Explain the need for counselling and support to people living with HIV/AIDS.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH

HIV/AIDS SPECIFICATION & REQUIREMENTS



4.2.3.6 UNIT 6: Treatment options for people with HIV/AIDS

After studying and understanding this unit, the Worker will be familiar with the various treatments available to HIV/AIDS infected or potentially HIV/AIDS infected people.

Assessment Criteria:

1. Discuss anti-retroviral therapy;
2. List methods of treatment to prevent HIV/AIDS transmission from mother-to-child;
3. Describe the need for treatment of opportunistic diseases for people living with HIV/AIDS;
4. Describe post exposure prophylactics.

4.2.3.7 UNIT 7: The rights and responsibilities of Workers in the workplace with regard to HIV/AIDS

After studying and understanding this unit, the Worker will be able to identify the rights and responsibilities of the Worker living with HIV/AIDS in the workplace. The Worker will recognise the importance of accepting colleagues living with HIV/AIDS and treating them in a non-discriminative way.

Assessment Criteria:

1. Discuss the rights of a person living with HIV/AIDS in the workplace;
2. Discuss the responsibilities of a person living with HIV/AIDS in the workplace;
3. Report on why acceptance and non-discrimination of colleagues living with HIV/AIDS is important.

4.3 Displaying of plastic laminated posters and distribution of information booklets

The Contractor shall obtain a set of four laminated posters conveying different key messages and information booklets. The contractor should include the costs of posters and information booklets in his/her tender price.

The above-mentioned posters and information booklets have been prepared to raise awareness and to share information about HIV/AIDS and STI's.

Posters or display stands shall be displayed on site as soon as possible, but not later than 14 days after the date of site handover.

Posters shall be displayed in areas highly trafficked by Workers, including toilets, rest areas, the site office and compounds.

The posters on display must always be intact, clear and readable.

Information booklets must be distributed to all Workers as soon as possible, but not later than 14 days after site handover, or as soon as the Worker joins the site.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH

HIV/AIDS SPECIFICATION & REQUIREMENTS



5 PROVIDING WORKERS WITH ACCESS TO CONDOMS

The Contractor shall provide and maintain condom dispensers and make both male and female condoms, complying with the requirements of SABS ISO 4074, available at all times to all Workers at readily accessible points on site, for the duration of the contract. The Contractor may obtain condom dispensers from the Department of Health and condoms may be obtained from the Local Clinic or the Department of Health.

At least one male and one female condom dispenser and a sufficient supply of condoms, all to the approval of the Representative/Agent, shall be made available on site within 14 days of site hand over. Contractors should note that arrangements to obtain condoms from the Department of Health Clinics prior to site hand over may be necessary, to ensure that condoms are available within 14 days of site handover.

Condoms shall be made available in areas highly trafficked by Workers, including toilets, the site office and compounds.

6 ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)

The Contractor shall provide Workers with the names of the closest Service Providers that provide HIV/AIDS testing and counselling and Clinics providing Sexually Transmitted Infection (STI) diagnosis and treatment. Information on these Service Providers and Clinics must be displayed on a poster of a size not smaller than A1 in an area highly trafficked by Workers.

7 APPOINTMENT OF AN HIV/AIDS AWARENESS CHAMPION

7.1 Within 14 days of site handover the Contractor shall appoint an Awareness Champion from amongst the Workers, who speaks, reads and writes English, who speaks and understands all the local languages spoken by the Workers and who shall be on site during all stages of the construction period. The Contractor shall ensure that the Awareness Champion has been trained by the Service Provider on basic HIV/AIDS information, the support services available and the necessary skills to handle questions regarding the HIV/AIDS programme in a sensitive and confidential manner.

7.2 The Awareness Champion shall be responsible for:

- 7.2.1 Liaising with the Service Provider on organising awareness workshops;
- 7.2.2 Filling condom dispensers and monitoring condom distribution;
- 7.2.3 Handing out information booklets;
- 7.2.4 Placing and maintaining posters.

8 MONITORING

The Contractor shall grant to the Representative/Agent reasonable access to the construction site, in order to establish that the Contractor complies with his obligations regarding HIV/AIDS awareness under this contract.

PROVINCE OF THE EASTERN CAPE: DEPARTMENT OF HEALTH**HIV/AIDS SPECIFICATION & REQUIREMENTS**

The Contractor must report problems experienced in implementing the HIV/AIDS requirements to the Representative/Agent.

The attached SITE CHECKLIST (SCHEDULE A) shall be completed and submitted at every construction progress inspection to the Representative/Agent.

The attached SERVICE PROVIDER REPORT (SCHEDULE B) shall be completed and submitted on a monthly basis to the Department's Project Manager, through the Representative/Agent.

The attached CONTRACTOR HIV/AIDS PROGRAMME REPORT (SCHEDULE C), a close out programme report, shall be completed by the Contractor at the end of the contract.

SCHEDULE A: HIV/AIDS PROGRAMME: SITE CHECKLIST

Date of commencement of construction: _____ Name of Departmental Project Manager: _____

Please refer to HIV/AIDS Programme activities during the reporting period

DATE		PI			PI			PI			PI			PI			PI		
		D	D	M	D	D	M	D	D	M	D	D	M	D	D	M	D	D	M
Programme implemented within 14 days of site handover																			
Awareness champion on site																			
HIV/AIDS awareness service provider report																			
Male condom dispenser																			
Sufficient male condoms available																			
Male condom dispenser in a highly trafficked area																			
Female condom dispenser																			
Sufficient female condoms available																			
Female condom dispenser in a highly trafficked area																			
All four types of posters displayed																			
Posters in a good condition																			
Posters in a highly trafficked area																			
Posters displayed on local support services: clinic & VCT centre																			
Support service poster/s in highly trafficked area																			
Support service poster/s in a good condition																			

SCHEDULE A

Please indicate the applicable number for the reporting period									
Workers on payroll (at PI)									
Sub-Contractors who will be on site for longer than 30 days (at PI)									
Workshop attendees									
Number of workshops held									
Scheduled workshops according to approved workshop plan									
Booklets distributed									
Male condoms distributed									
Female condoms distributed									

Representative/Agent

Date

Contractor

Date

SCHEDULE A

SCHEDULE A

Date of progress inspection: (ccyy/mm/dd)

Reporting period: (ccyy/mm/dd) _____ to (ccyy/mm/dd) _____

Deviations from HIV/AIDS awareness programme plan:

Corrective actions:

Representative/Agent

Departmental Project Manager

Date

Date

SCHEDULE A

SCHEDULE B

HIV/AIDS AWARENESS PROGRAMME: SERVICE PROVIDER REPORT

Reporting period: (ccyy/mm/dd) _____ to (ccyy/mm/dd) _____

Number of workshops conducted in reporting period: _____

Number of scheduled workshops according to approved workshop plan: _____

Deviations from workshop plan:

State reasons for deviating from workshop plan:

Corrective actions:

Service Provider _____

Date _____

HIV/AIDS AWARENESS PROGRAMME : WORKSHOP CONTENT ADDRESSED

DATE		W/S			W/S			W/S			W/S			W/S			W/S		
		D	D	M	D	D	M	D	D	M	D	D	M	D	D	M	D	D	M
Content of workshop: (Mark the content included)																			
SLO1																			
SLO2																			
SLO3																			
SLO4																			
SLO5																			
SLO6																			
SLO7																			
HIV/AIDS in construction video																			
Indicate the duration of the workshop in hours																			
Total number of Workers																			
Indicate workshop venue																			

HIV/AIDS AWARENESS PROGRAMME: ATTENDANCE REGISTER

Fill in your name and indicate attendance by ticking the appropriate date

[illegible]

SCHEDULE C

CONTRACTOR HIV/AIDS PROGRAMME REPORT

Project name: _____

Project Location: _____

Contract value of project: R_____

Department of Public Works Project Manager: _____

HIV/AIDS Programme duration: (ccyy/mm/dd) _____ to (ccyy/mm/dd) _____

AWARENESS MATERIAL

Describe location of posters displayed during the programme: _____

Comments on posters: _____

Indicate total number of booklets distributed: _____

Comments on booklets: _____

CONDOMS

Indicate total number of male condoms distributed: _____

Indicate total number of female condoms distributed: _____

Describe where male condom dispenser was placed: _____

Describe where female condom dispenser was placed: _____

HIV/AIDS WORKSHOPS

Indicate the total number of HIV/AIDS workshops conducted: _____

Indicate the duration of workshops: _____

Indicate the total number of Workers that participated in the HIV/AIDS workshops: _____

Indicate the total number of Workers that were exposed to the video on HIV/AIDS in the Construction Industry:

Comments on HIV/AIDS workshops on site: _____

GENERAL

Briefly describe programme activities and satisfaction with outcome: _____

Additional comments, suggestions or needs with regard to the HIV/AIDS awareness programmes on site:

Please indicate if your company has a formal HIV/AIDS policy focussing on HIV/AIDS awareness raising and care and support of HIV/AIDS Workers:

Yes	No	Currently developing one
-----	----	--------------------------

Please indicate if, to your knowledge, you have lost any workers during the duration of the project to HIV/AIDS related sicknesses. One or more of the following might indicate an HIV/AIDS related death:

Excessive weight loss
Reactive TB
Hair loss
Severe tiredness

Coughing or chest pain
Pain when swallowing
Persistent fever
Diarrhoea

Vomiting
Meningitis
Memory loss
Pneumonia

Contractor

Date

Departmental Project Manager

Date

CONTRACTOR MONTHLY REPORT**PART 1**

Project No.

Project Name:

Contract No.

Contractor Name:

Claim No.

For Period Ending:

Date of Report:

The Contractors Monthly Report comprises an integral part of the Contractors Payment Claim and processing of the payment claim is not permitted without this report also being submitted i.e. "NO REPORT - NO PAYMENT".

Attachments:

Part 2 Overall Project Worker Schedule: Schedule of all local labourers employed since

Part 3 Weekly Task Wage Register

Part 4 Local Labour Schedule

- When contractors recruit local labourers, they must procure a 13 digit identity document and a certified copy
- At least one disabled person must be recruited and employed on the project.
- A daily attendance register should be kept
- Each beneficiary must sign the payment sheet. as proof that they have been
- Employment of local labour should include the following:
 - 55% women
 - 55% young people

PART 2

Contract No.

Project No.

Month of Report:

Project Name:

Sheet Of

Names of all **Local Workers** employed at any time on the project are to be entered in the table below irrespective of how long they worked on the project.

[illegible]

Completed by: Name: Signature: Capacity Date:

PART 3

Project Name:

Sheet Of

(A) (B)

Date:

LOCAL LABOUR AND MATERIAL SCHEDULE

PART 4

Contract No. Date of Report:
 Project No. Project Name:
 Claim No. For Period Ending:
 Contractor Name:

1. Summary of Day Tasks worked and Amount Spent on Local Labour this month

Week No.	Week Ending	Total Day Tasks / Person Days Worked	Total Amount Paid
		(Total of (A) from Form 4 for each week)	(Total of (B) from Form 4 for each week)
1			R
2			R
3			R
4			R
5			R
6			R
7			R
8			R
9			R
Total			R

Transfer to 2 in table below

2. Summary of Amount Spent on Local Labour to date

1. Previous Amount Spent on Local Labour (From previous claim)	R
2. Amount Spent on Local Labour this Month (From Total above)	R
3. Total Amount Spent on Local Labour to date (3) = (1+2)	R

3. Local Labour Schedule

Summary of Local Labour Employed	No. of local workers who worked on the project to date (Form Part 2)	% of Total
Columns refer to Columns in Part 2		
1. Total No. of individual local workers who have worked on the Project (Column N)		100%
2. How many of the Total No. are local youth (25 yrs and under) (Column B & D)		
3. How many of the Total No. are local women (Column A & B)		

4. Summary of Amount Spent on Material to Date (Cumulative)

Item	This Month	Total to date
1. Material from Local Municipality		
2. Material from District Municipality		
3. Material from Outside the Eastern Cape		
4. Material from other areas within the Eastern Cape		
Total Material		
Total material as percentage of contractor expenditure		
Total as percentage of contractor budget		

5. Training of Local Workers

Catogory of training	Name of course	No. trained	Days trained	Comments on progress
(a) Technical training for implementation	Bricklaying Caprpentry			
	Plumbing			
	Fencing			
	Plastering			
	Painting			
	House Building			
	Handyman			
	Electrical			
(b) Institutional training for local management beyond construction				
(c) Technical training for OMM				
(d) Institutional training for implementation				
(e) HIV /Aids etc.				
Other - Please specify				
Total				

Completed by:
Name Signature Capacity Date

C3.6 SOCIO ECONOMIC DEVELOPMENT & TRANSFORMATION



**Eastern Cape Provincial Government:
Department of Health**

**FACILITY MANAGEMENT AND MAINTENANCE
MANAGEMENT**

**BID SPECIFICATION:
FOR
ENTERPRISE & SOCIO-ECONOMIC DEVELOPMENT
PROGRAMME
(BS-ESED-P)**

**[FOR CIDB GRADE 6 – 9 CONTRACTS]
REFERRED TO AS LARGE CONTRACTS (LCs)**

FACILITY MANAGEMENT AND MAINTENANCE MANAGEMENT

**BID SPECIFICATION FOR ENTERPRISE & SOCIO-ECONOMIC DEVELOPMENT
PROGRAMME
(BS-ESED-P)
[FOR CIDB GRADE 6 - 9 CONTRACTS]
JUNE 2017**



Status: FINAL

Approved by (name):	Position	Signature	Date
Mr S. Kubashe	SFMC – ESED Specialists		
Mr H. Schwenk	SFMC – Programme Director		
Mr M. Tuswa	EC DoH – General Manager		

Status: Final

Revision 01 Date: 03rd October 2017

1. BACKGROUND

C3.6 ADVANCEMENT OF SOCIO ECONOMIC DEVELOPMENT & TRANSFORMATION THROUGH EC DoH INFRASTRUCTURE PROJECTS

The Eastern Cape Department of Health (EC DoH), referred to hereinafter as the Client, is embarking on a programme to develop its infrastructure supplier capacity whilst advancing socio economic development and transformation in the health sector across the Eastern Cape Province, informed by:

1.1 EC DoH Infrastructure Procurement Policy

Chapter 9 of this policy deals with Usage of Procurement Procedures of which item 9.2 deals with Secondary Objectives (Development) procurement policy on:

- Emerging Contractor
- Skills Development through Construction Contracts for Individuals
- Previously Disadvantaged Professional Service Providers (PSPs)
- Empowerment of Local Industries

1.2 EC Treasury Instruction Note No. 007 of 2016/17

- In the main, it deals with 50% of Provincial procurement spend should be on goods and services which are manufactured and supplied by SMMEs and Co-operatives from within the Province, including the utilisation of raw materials.
- It also propose LED Strategies from,
 - Supplier Development and Capacitation Interventions
 - Procurement Specific Support Strategies
 - Procuring from National Contracts
 - Goods and Services sourced from suppliers outside the Province
 - Use of Cooperatives
 - Local Labour Contracting
 - Break-out Procurement
 - Collaborations with National Departments and State Owned Entities (SOEs)
- Its framework gives guidance to number of intervention including Geographical Procurement Hierarchy Flow from, Ward, Local Municipality, District Municipality, Province then National.

1.3 New Preferential Procurement Framework of January 2017

In the main, the regulation and framework deals with the following changes:

- Preference procurement points of 80/20 up to goods and services estimated to R50m.
- Pre-qualification criteria for preferential procurement.
- 30% Sub-contracting to EMEs and QSEs as a condition to tenders above R30m

1.4 CIDB Practice Note 10

This practice note, version 1 of February 2008, deals with Attaining Social and Economic Deliverables which are more on Local Labour and Business Training and Development.

1.5 CIDB Practice Note 29

This CIDB Practice Note give guidance on Allocating Sustainable Work Opportunities to Contractor Development Programmes

1.6 CIDB National Contractor Development Framework

In the main, NCDF objective is to promote equity ownership across the different contracting categories and grades, as well as improving skills and performance in the delivery and maintenance of capital works across the public sector. To achieve this objective, it is envisage that participants within the National Contractor Development Programme will:

- Increase the number of black, women, disabled and youth owned companies across sectors and grades.
- Improve the grading status of previously disadvantaged contractors in targeted categories and grades.
- Improve the performance of previously disadvantaged contractors in terms of quality, employment practices, skills development, safety, health and the environment.
- Improve the business management and technical skills of these contractors.

2. INTRODUCTION

The client has therefore placed a number of contractual obligations on Sakhiwo Facilities Management Consortium and Contractors in fulfilling the above objectives.

It is the desire of the Client that, development practices, procedures and processes that are implemented within the project are uniform and of the highest possible standard. The objective of this approach is to promote an environment that is healthy, safe, efficient, productive, harmonious, is free of disruption and localises opportunities for communities in close proximity to the project. Such an environment will assist Contractors in implementing their projects successfully. All contractors, sub-contractors (including SMMEs) and site service providers within the project have a role and responsibility in achieving this objective, and accordingly, the Main Contractor is wholly responsible for ensuring the provision, implementation and maintenance of the required socio-economic deliverables.

To this end, the client has appointed a Facilities Management Consortium to make sure necessary mechanisms and structures are put in place, to ensure all role-players in the project are aware of the socio-economic including local labour and business requirements and obligations that are contractually binding and that these are properly implemented and complied with.

A key component of the socio-economic requirements and obligations is the proper and timely completion of Standard Labour and Business Documentation and the provision of opportunities to local community members. The formats of the Standard Labour Documentation and the support services will be made available in the contract commencement meeting.

The documentation included in specifications outlined below will provide detail to the prospective contractor in order to ensure a comprehensive understanding of the socio-economic specifications including Management protocols in effect, and allows for the prospective Contractor to tender accordingly.

The services of the procured Facility Management Services Provider is inclusive of Socio Economic Development and Transformation Specialist who will have to establish both Labour and Business Desk to manage this aspect. The following steps are key to the success of this socio economic development and transformation programme and is to be followed according.

- 2.1 EPP : ESED Programme Planning
- 2.2 PES : Programme Environmental Scan
- 2.3 EPM : ESED Programme Mobilisation
- 2.4 TDS : Training, Development & Support
- 2.5 PME : Programme Monitoring & Evaluation
- 2.6 PCR : Programme Close-out Report

3. DEVELOPMENT FRAMEWORK

Informed by Construction Industry Development Board (CIDB) Practice Note #10, the following areas will be maximised for Eastern Cape Health Infrastructure Delivery Capacity Development while advancing socio economic development and transformation in the health infrastructure sector.

- | | |
|---|--|
| A Employment of Local Resources | A1 Provide Employment Opportunities to targeted local labour.
A2 Investigate and Utilise Local Resources. |
| B Employment Opportunities in Labour Intensive Works | B1 Provide Employment and Skills Development Opportunities to targeted labour. |
| C Business Opportunities | C1 Provide Business Opportunities for Targeted Local Enterprises
C2 Encourage procurement of Sub-Contractors for defined portions of the contracts in terms of specified procedures. |
| D Enterprise Support and Development Programmes | D1 Provide third party management support services to targeted local contractors. (BUSINESS DEVELOPMENT DESK RESPONSIBILITY)
D2 Procure or manage (or both) mentoring services for targeted local contractors. Technical by Contractor whilst business mentorship is by BDD.
D3 Where possible, Execute the contract in joint venture with targeted local partner.
(LC will prepare development and resources plan for approval by BD Desk) |
| E Skills Development | E1 Provide Experiential work opportunities towards a specified professional registration for designated persons.
E2 Provide Work Learning Opportunities towards a specified degree, diploma or certificate for designated persons.
E3 Provide Experiential Work Opportunities towards a SAQA registered qualification or certificate for designated persons.
E4 Procure and manage a Training Service Provider to provide specific training for designated persons. |
| F HIV/AIDS Awareness | F1 Promote HIV/Aids Awareness to project and surrounding communities. |

4. ROLES AND RESPONSIBILITIES DEFINITION

In mobilising, the client managed to secure the services of specialist maintenance engineers for the purpose of effective and efficient management for the general infrastructure maintenance including plant and machinery of the department of health. Included to the above, is services of Enterprise & Socio-Economic Development Specialists (ESED-S).

It therefore deems it necessary to define roles and responsibilities in accordance to the present institutional arrangement. In the main,

ESED-S will be responsible for supply management including:

- Establishment of Labour Desk for recruitment, training, development and support of Local Labour.
- Establishment of Business Desk for recruitment, training, development and support of Local Businesses.
- Social Facilitation Services which will assist the client to establish the Project Support Committee (PSC).

CONTRACTOR will be responsible for demand management including:

- As it will be the first time for most local in this working environment, the Contractor is required to on a full time basis employ services of the Labour Relation Coordinator or Practitioner depending to the size of project.
- The Contractor to appreciate that, all the development will need a conducive environment of which the site under its management, will have to accommodate and support the development programmes.
- Community Liaising Office Services to assure solid communication between project and community.

The table 1 below therefore illustrate the deliverables including roles and responsibilities for each party in relation with each deliverable. The Bill of Quantities (BoQ) will make provision for each and every deliverable for either be tendered for or allowing a provisional sums.

TABLE 1: SOCIO ECONOMIC DELIVERABLE INCLUDING RELATED ROLES & RESPONSIBLES

CODE	DELIVERABLE	ESED-S	CONTRACTOR	TARGETS
A	Employment of Local Resources	Establish and manage Labour Desk. Liaise with Community through the Labour Desk and supply Contractor's demands. ESED-S to employ services of Social Facilitator	Prepare labour demand schedule and submit to Labour Desk within 21 days from the award. Ensure at least 80% of General Labour is local. Contractor to include CLO & Employment Relations Coordinator on its site resources.	• 80% of General Labour to come from Local. • Maximise use of Local Semi and Skilled Labour
B	Employment Opportunities in Labour Intensive Works	Through Value Engineering, advocate for more labour intensive work.	Through methodology, maximise labour intensive work.	N/A
C	Business Opportunities	Establish and manage the Business Desk. Liaise with Community through Business Desk and supply the Contract's demands.	Prepare demand schedule and submit to Business Desk within 21 days from the award. Ensure at least 30% of Work is executed by Local Businesses.	• At least 30% of Works for Emerging Local Businesses. • At least 50% of work to be executed EC Businesses.
D	Enterprise Support and Development Programmes	Establish and manage the Enterprise Development and Support Programme. Business Desk be responsible of Off Site Training and Support.	Create a conducive environment for Local Business Development. Contractor be responsible of On site development and support.	• Develop Practice Note • Est. Local Database • Compliance Workshop • Mobilisation Support • On Site Mentor & Support • Off Site Mentor & Support incl. up-grading.
E	Skills Development (to include Graduates and Interns)	Through Labour and Business Desks, ESED-S to facilitate both Labour and Business Training.	Contractor to create a conducive environment for Labour and Business Training.	• Pre-Assessment of both Labour & Business • Skills Training • Post Assessment
F	HIV/AIDS Awareness	ESED-S to facilitate the HIV/Aids Awareness sessions for both communities and projects.	To avail workforce for the awareness sessions.	• Project Awareness Sessions • Community Awareness Sessions

5. IMPLEMENTATION

CIDB GRADE 6 – 9 LARGE CONTRACTORS (LCs)

It is acknowledged that these contracts will be awarded to contractors already declared as Large Contractors (LCs).

5.1.1 The Large Contractor (LC):

- The Large Contractor is to make sure the employment of Local General Labour from the Labour Development Desk to minimum of 80%.
- The Large Contractor informed by EC Treasury Instruction No. 7 of 2016/17, to also make sure that, at least 50% of its procurement spend should be on goods and services which are manufactured and supplied by SMMEs and Co-operatives from within the province, including utilisation of raw materials and plant/equipment.
- The LC Contract, **to make provision for employment of Community Liaison Officer (CLO) for the duration of the Contract**. The monthly remuneration for the CLO will be cap at R6000.00. Such recruitment of CLO will be facilitated by the Social Facilitator from the Labour Development Desk.
- The LC Contract, **to make a provision for health and safety awareness** to be facilitated by LC Contractor on site.
- Contractor on site.
- The QSE Contractor **to make a provision per month per site for the duration of the contract for the Business Development Desk Services attending 1 to 5 SMEs** which includes Management, Administration, Business Mentorship and Support in two (3hr day) site visit a week including attending progress meetings in support of the EME Contractor. This allowance is directly claimable and payable to NEMA – SA every month after producing an invoice with related log-sheet. The claimable scale is as follows:

○ 1 to 5 SME Sub-Contractors	R 15 000.00
○ 6 to 10 SME Sub-Contractors	R 24 600.00
○ 11 to 15 SME Sub-Contractors	R 36 000.00
○ 16 to 20 SME Sub-Contractors	R 47 400.00 and prorate for any number of SMEs above 20.
- The Large Contractor is to create an environment including **making a provision for 1, 2, 3 and 4 Graduate(s) for grade 6, 7, 8 and 9** respectively at monthly total cost to company allowance of R7000.00
- The LC Contractor is to create environment including **making a provision for 1, 2, 3 and 4 Intern (s) for grade 6, 7, 8 and 9** respectively at monthly total cost to company allowance of R4000.00.
- The Large Contractor to have as part of its site organogram, an Employment Relations Co-ordinator to support employment of Local Labour on site.
- The Large Contractor to make sure a minimum of 30% of the contract is sub-contracted to Local Businesses available from Business Development Desk Database.
- The 50% of its procurement spend should be on goods and services which are manufactured and supplied by SMMEs and Co-operatives from within the province, including utilisation of raw materials and plant/equipment.
- The Large Contract **to make a provision for the recruitment and employment of the technical mentor**, an experienced technical person not less than General Foreman/Supervisor with at least fifteen years' experience to technically mentor and support the employed local sub-contractors.
- The Large Contractor will be a member of the Project Support Committee (PSC) and will appoint a relevant representatives to attend the monthly and ad hoc meetings with necessary report on Labour and Business Development.

5.1.2 Labour Development Desk (LDD):

- The ESED-S through Labour Development Desk to:
 - To facilitate the Skills Training for 3, 4 and 5 Local Labour per project in this category for Grade 6, 7, 8 and 9 Large Contractors respectively.
 - To supply interns and graduates requested by the LC.
 - To avail the shared Social Facilitation services for all LC Contracts in the District Area.

5.1.3 Business Development Desk (BDD):

- The ESED-S through Business Development Desk to:
 - To facilitate and provide a Business Mentorship and Support to LC Sub-Contractors.
 - To facilitate the skills Training to LC Sub-Contractors.

ESED-S will facilitate and manage the Project Development Meetings.

ESED-S will prepare a monthly report for submission and presentation to Joint Sub-Committee.

PART C2: PRICING DATA

PRICING INSTRUCTIONS – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (March 2005 Edition)

Project title:	BHISHO HOSPITAL PHASE 1: URGENT REPAIRS AND MAINTENANCE
Tender No:	SCMU3-17/18-0332-HO

C2.1 Pricing Instructions

- 1 The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable the:
 - a) civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Civil Engineering Works.
 - b) mechanical work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Mechanical Engineering Works.
 - c) electrical work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardised Specifications for Electrical Engineering Works.
- 2 The agreement is based on the JBCC Series 2000 Minor Works Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, May 2005. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 3 Preliminary and general requirements are based on the preliminaries for the use of JBCC Series 2000 – Third Addition – January. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 4 It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 5 The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the Principal Agent or Engineer and can be viewed at any time during office hours up until the completion of the works.
- 6 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 7 The bills of quantities forms part of and must be read and priced in conjunction with all the other documents forming part of the contract document, The Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings, "Department of Public Works: Specifications of Materials and Methods to be used – PW371" and all other relevant documentation.
- 8 Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
- 9 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities

- 10 The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
- 11 The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.
- 12 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 10 but taking into account the revised period for completing the works.
- 13 The amount or items of the Preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:
 - a) an amount which is not to be varied, namely Fixed (F)
 - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
 - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period excluding revisions to the construction period for which no adjustment to the contractor is not entitled to in terms of the contract, namely Time Related (T).
- 14 Where no provision is made in the Bills of Quantities to indicate which of the three categories in 12 apply or where no selection is made, the adjustments shall be based on the following breakdown:
 - a) 10 percent is Fixed;
 - b) 15 percent is Value Related
 - c) 75 percent is Time Related.
- 15 The adjustment of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.
- 16 The tender price must include Value Added Tax (VAT). All rates, provisional sums, etc. in the bills of quantities must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.



C4.1: SITE INFORMATION – JBCC 2000 PRINCIPAL BUILDING AGREEMENT (edition 4.1 of March 2005)

Tender no:

Project title:	BHISHO HOSPITAL PHASE 1: URGENT REPAIRS AND MAINTENANCE
Tender No:	SCMU3-17/18-0332-HO

C4 Site Information

Location

The existing BHISHO HOSPITAL IN BHISHO

SITE INFORMATION

Site Information

a. IMPROVEMENTS ON SITE

Refer to scope of works

b. RESULTS OF SOIL INVESTIGATIONS

N/A

c. UNDERGROUND SERVICES

Underground services are unknown.

d. ADJACENT BUILDINGS

Prospective bidders must acquaint themselves with the positions and areas of buildings being renovated or newly constructed on site and must take cognisance of the functional buildings adjacent to these areas

e. ENVIRONMENTAL ISSUES

None



Health and Safety

The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No.85 of 1993).

The Health and Safety Specifications as required has been annexed to this document.

This can be priced by the bidder under item C11 of the Preliminaries & General.

HIV / AIDS Awareness

These Bills of Quantities contain items relating to HIV/Aids awareness. Tenderers must take note that compliance with the HIV/Aids awareness programme is compulsory. See item C10 in Preliminaries & General.

Local Labour

It is an expressed condition of this contract **that All general labour shall be local labour (At least 80% of total number of workers shall be local)**

Labour forms shall be submitted to the Principal Agent prior to monthly payment certificates.

The Contractor shall adhere to the statutory minimum wage rates as prescribed by law in The Department of Labour, Basic Conditions of Employment Act, No. 75 of 1997, Sectoral Determination 2 for the Civil Engineering Industry in terms of Section 56(1) of the Basic Conditions of Employment Act, 1997. The Contractor is however at liberty to negotiate additional incentive payments based on performance.

Prospective bidders are to familiarize themselves with the accepted labour cost for the various regions and price accordingly (especially Nelson Mandela Metro Area) as no claims regarding wages disputes shall be entertained in the contract.

Materials to be used for projects

It is an expressed condition of the contract **that 50 % of All materials shall be purchased and procured in the Eastern Cape province**. Proof shall be provided to the Principal Agent on a monthly basis prior to monthly payment certificates.

C5 - DRAWINGS

**CONTENTS****C5 – DRAWINGS****NUMBER OF PAGES**

- ALUMINIUM DOORS	2
- FINISHING SCHEDULES	31

Aluminium Door Preambles (External Doors):

Government Institutions - A3, E1, E2, E3

Manufacturer:

Purpose made Aluminium doors and panels shall be the Explorer system as supplied by HBS Aluminium Systems (021 534 7420). All to suit required site specific wind load. All to AAAMSA Standards and Architects approval.

Frame description:

Purpose Made Aluminium door and frame (Explorer System as per HBS Aluminium Systems, 42 mm outer frame, 100 mm doors sash with mitred corners including mechanical corner connectors, compensating frame, bottom threshold to doors including EPDM centre seal all round frame. Latch type handle, latch lock with 32 mm back set cylinder, flush bolt and strike plate to suit and 2 part hinges to suit Explorer System, pending detail design by Specialist) in configuration as shown, complete with wool piles all-round to ensure a dust proof seal, to suite hinge or over head transom closer as specified elsewhere. With or without opening sections as shown. Complete with heavy-duty hinges (to accommodate restrictors), latches and restrictors (Securistyle SDR4 or equally approved). All opening sections of windows to be restricted to Max. 150 mm opening (provide service key to override restriction to 90° opening for maintenance/ cleaning). Waterproof frame surround and joints with an approved soft seal. All to AAAMSA Standards and Architects approval.

Glazing specifications:

9.14mm thick VISTALAM HV Secure Laminated safety glass in all panels below 900mm, and 7.14mm VISTALAM HV Secure Laminated safety glass in panels above 900mm for all panels of window/ shopfronts/ doors etc. Glazing type (obscure/ clear/ one-way) refer to room data schedule. Obscured glazing to be -Type: Pacific or equal approved. One-way glazing to client's approval. Tinted glazing - if required colour and type to Architects approval. All to comply with National Building Regulations/ SAGGA minimum specifications.

Formica panel specifications:

Product: PG Bison 6 mm thick Formica Solid Core Exterior garde Luna DFL, a self-supporting, water resistant, pre-finished decorative product with high resistance to mechanical, chemical, heat and environmental damage laminated on both sides and constructed in accordance with the drawings. Colour to ARCHITECTS approval. Installation: Installed with standard glazing method to suit window/ shop front etc.

Frame finish:

Polyester powder coated (50 - 100µ thick)

General notes:

1. Please ensure that frames/ glazing are not installed premature during wet trade. Further it is the Contractor full responsibility to ensure that all frames and glazing is well protected during construction phase to avoid any permanent damage.
2. All dimensions to be controlled on site prior to any manufacturing.
3. Shop drawings and sample to be approved by Architect prior to any manufacturing.
4. All door members to be min 90 mm Sections or as shown on Elevations.
5. Door swing as shown on Plan - Elevation is only a Schematic drawing.
6. Solid aluminium panels in all windows to be Sheerline - Type: T-29 panels.
7. All Door drawings must be read in conjunction with Detail drawing.
8. All openings to be constructed with a template frame. Note the frame to be 10 mm larger all-round to allow for in- and external plaster, furthermore frame to be sealed watertight with an approved UV sterilized soft sealant all-round.
9. Manufacturer to ensure that opening section furniture is suitable design size.
10. Use anti-magnetic stainless steel screws and pop rivets.

DRAWING DESCRIPTION:

SCALE:

ALUMINIUM DOOR PREAMBLES - EXISTING

NTS

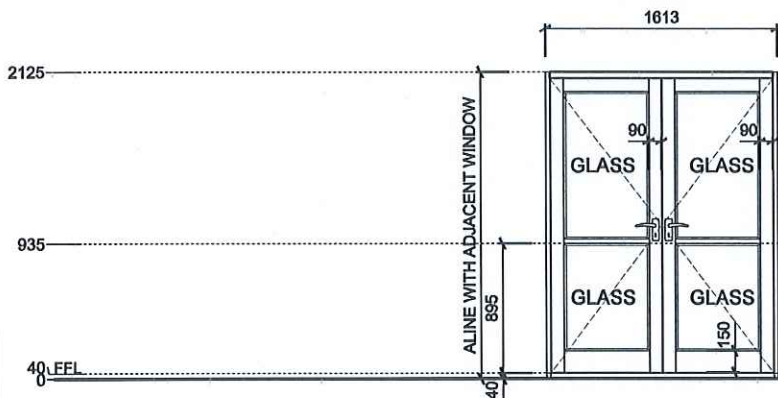
COPYRIGHT

PROJECT TITLE			
"ECDOH FACILITY MAINTENANCE BUFFALO CITY/ CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFRUBISHMENT, UPGRADING & NEW WORKS"			
PROJECT:	20080-3-BC010	REV. NO	DET. NO
DRAWN:	/	R00 19-Oct-17	20080-3-BC010 -070-001
DATE:			
ISSUED:	30-Oct-17		

HOSPITAL DESIGN GROUP

P.O.Box 762, HARRISMITH, 9880
Tel:(058) 6223942, Fax:(058) 6230844,
E-mail: hdg@hdg.co.za





- NOTE: 1. This drawing must be read in conjunction with Preambles drawing 070-001, SAGGA Glass Installation Information 060-951 to 060-956
 2. Shop drawings and sample to be approved by Architect prior to manufacturing
 3. All dimensions to be controlled on site and where applicable to match existing structure

DRAWING DESCRIPTION:

SCALE:

DOOR TYPE - 070 ALETD001

1:50

COPYRIGHT

PROJECT TITLE

"ECDOH FACILITY MAINTENANCE
 BUFFALO CITYI - CLUSTER 3
 BISHO HOSPITAL

GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS"

PROJECT:	20080-3-BC010	REV. NO	DET. NO
DRAWN:	MVD /	R01 31-Oct-17	20080-3-BC010- 070ALETD001
DATE:			
ISSUED:	31-Oct-17		

HOSPITAL DESIGN GROUP

P.O.Box 762, HARRISMITH, 9880
 Tel:(058) 6223942, Fax:(058) 6230844,
 E-mail: hdg@hdg.co.za



HDG

REVISIONS			
0			

100-A-Floor finishes

STATUS	PROJECT DATE	28a Stuart Street P.O. Box 782 HARRISMITH, 9080 Tel: +27 59 622 3942 Fax: +27 59 623 0844 Mobile: 083 272 2503 E-mail: hdg@hdg.co.za  HDG		
PROJECT TITLE	ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			PROJECT NO: 20080-3-BC010
	REV NO: R00			Date 6-Oct-17

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-A-Floor finishes	R00	20080-3-BC010	3	

Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.

P1

Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.

P2

Floor Screeds - all screeds for different floor finishes to be adjusted to ensure a continuous finished floor level throughout.

P3

Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

P4

TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

P5

Monolithic screed: Prepare test and inspect surface bed to be min 20mps and crack free and install an Class AR2 40mpa -abrasion resistance and Class1 - Deviations Monolithic screed minimum 25mm and max 50mm thick - all material to comply with SABS1083. Screed thickness exclude floor finish, and it is the contractors responsibility to vary surface bed levels to ensure an uniform Finished floor level irrespective of floor finish type.

P6

A100. REMOVE EXISTING VINYL AND INSTALL NEW VINYL SHEETING (POLYSAFE VERONA - STANDARD)(WET AREA)

R00
2017/10/06

SURFACE PREPARATION & SEQUENCE:

Remove damaged vinyl sheets in area to be replaced. Remove any remaining adhesive to ensure floor is smooth to take new vinyl sheeting. If bitumen is present this must also be removed as acrylic adhesives are not compatible. Check strength and condition of topping, remove any crumbling and powdery areas of the screed. Fill these areas in with a suitable concrete mixture. Perform a moisture test (with a Protimeter or other approved moisture readers) to ensure your RH% is below 70% (Protimeter reading must be below 18) If moisture readings are above 70% RH a recommended moisture barrier will be required. Install a 5mm self-levelling compound as per manufacturer's instructions to ensure a smooth and level surface. It is best practice to use the same manufacturer for moisture barrier, primer and self-levelling compound to ensure compatibility and one manufacturer guarantee. Cut vinyl drops as required, spread recommended adhesives in area to be fitted and allow to flash off as per manufactures recommendation. Use the overlap and scribe method to join sheets. Groove with a p-shaped groover and weld new vinyl into place.

FINISH APPLICATION:

(Polyflor 011-609 3500) (www.polyflor.co.za)

POLYSAFE VERONA Safety Flooring 2mm thick x 2m wide and containing silicone carbide and aluminium oxide granules, with a Stabilising crinette interlayer. The product should contain Dupont Supratec to facilitate easy cleaning and general maintenance of the surface. laid in acrylic adhesive spread with a notched trowel on suitably prepared cement screed floors with a hygrometer reading showing a moisture content of less than 70% (if moisture is prevalent a moisture barrier such as QualichemQAR 280c should be applied as per the manufacturer's instruction in at least 2 coats at 90 degrees to each other), joints welded with a fully flexible coloured Polyflor Welding Rod to provide a smooth, hygienic sealed finish, complete with skirting as indicated elsewhere, on Poly Levelmaster / TAL Screedmaster or similar approved self leveling screed to ensure a level installation, on well prepared cement screed to match required level.

all installations in wet areas : The back of the sheet MUST be primed with a specific Pu primer [QAN 439A applied by Smooth trowel or Short haired roller] prior to installation with approved contact adhesive. – all installed strictly to manufacturers specifications – Sheet and welding rod colours to Architects approval.



ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
06-Oct-17	100-A-Floor finishes	R00	20080-3-BC010	3

PERFORMANCE PROPERTIES

GENERAL PERFORMANCE: EN 13845 ASTM F1303

REACTION TO FIRE: EN 13501-1 Class Bfl-S1 ASTM E648 Class 1

SLIP RESISTANCE: Sustainable wet slip resistance* AS/NZS 4586R10 EN 13845 Esf / RRL Pendulum Test ≥ 36 (wet test - 4S Rubber/Slider 96) / Surface roughness Rz $\geq 20\mu\text{m}$

ABRASION RESISTANCE: EN 13845 50,000 cy EN 649 Group T

ELECTRICAL BEHAVIOUR: EN 1815 $\leq 2\text{kV}$ Classified as 'antistatic'

All strictly to Polyflor specifications and performance properties.

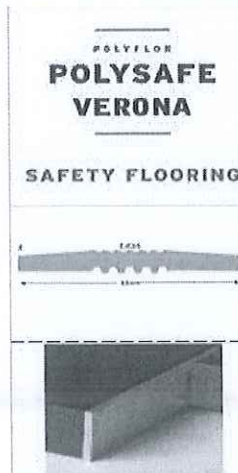
NOTE :

(Polyflor 011-609 3500) <http://www.polyflor.co.za/>

a) Where applicable, all expansion joints in screed to be according to vinyl sheet expansion joint detail. Complete with EJC65 Polyspan joint cover - Strip and welding rod colours to Architects approval.

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).



A103. REMOVE EXISTING VINYL AND INSTALL NEW VINYL SHEETING (POLYSAFE HYDRO EVOLVE - STANDARD)(SHOWERS AND BATHS ONLY)

SURFACE PREPARATION & SEQUENCE:

Remove damaged vinyl sheets in area to be replaced. Remove any remaining adhesive to ensure floor is smooth to take new vinyl sheeting. If bitumen is present this must also be removed as acrylic adhesives are not compatible. Check strength and condition of topping, remove any crumbling and powdery areas of the screed. Fill these areas in with a suitable concrete mixture. Perform a moisture test (with a Protimeter or other approved moisture readers) to ensure your RH% is below 70% (Protimeter reading must be below 18) If moisture readings are above 70% RH a recommended moisture barrier will be required. Smooth any rough surface as best possible with a smoothing compound / feather finish in order to ensure a smooth and level surface as possible. Cut vinyl drops as required, spread recommended adhesives in area to be fitted and allow to flash off as per manufactures recommendation. Use the overlap and scribe method to join sheets. Groove with a p-shaped groover and weld new vinyl into place.

(Polyflor 011-609 3500) <http://www.polyflor.co.za/>

2mm Thick heavy duty safety vinyl floor sheeting, HYDRO EVOLVE, as manufactured by Polyflor containing silicone carbide, aluminium oxide granules and coloured quartz through its entire thickness, to provide a non-skid surface, sustainable for the life of the product, fixed with an approved contact adhesive (The back of the sheet MUST be primed with a specific Pu primer [QAN 439A applied by Smooth trowel or Short haired roller] prior to any installation where contact adhesive will be used), on Poly Feathermaster / TAL Feathermaster or similar approved trowel leveling screed to ensure a level installation, on well prepared cement screed to match required level - all installed strictly to manufacturers specifications. Joints hot welded & glazed/ water tight surface, with matching welding rod to provide a continuous finished surface including rolling with a 68kg three part metal roller on completion.

Fresh plaster should be primed prior to installation of wall sheeting (usually with basic white PVA paint to seal the surface is satisfactory)

PERFORMANCE PROPERTIES

GENERAL PERFORMANCE: EN 13845 ASTM F1303 EN 685/ISO 10874

REACTION TO FIRE: EN 13501-1 Class Bfl-S1 ASTM E648 Class 1

SLIP RESISTANCE: EN 13845 Esb & Esf / AS 4586 Part C Class B / DIN 51130 R10 / DIN 51097 Class B / RRL Pendulum Test ≥ 36 (wet test - Slider 55/96) / Surface Roughness Rz $\geq 20\mu\text{m}$

ABRASION RESISTANCE: EN 13845 50,000 cycles / EN 649 Group P

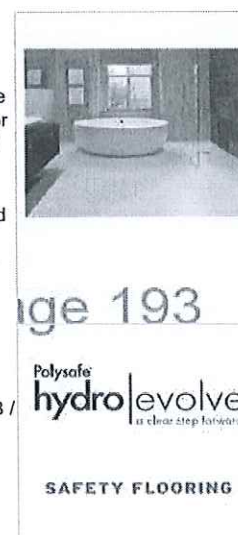
ELECTRICAL BEHAVIOUR: EN 1815 $\leq 2\text{kV}$ Classified as 'antistatic'

All strictly to Polyflor specifications and performance properties.

NOTE :

(Polyflor 011-609 3500) <http://www.polyflor.co.za/>

Showers should be finished with a "Polyflor Showerdrain + stainless outlet which clamps the sheeting securely, and incorporates an integral foul air trap and the easy Top Kleen system (Specified in Sanitary fittings schedule)



ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
06-Oct-17	100-A-Floor finishes	R00	20080-3-BC010	3

(Polyflor 011-609 3500) <http://www.polyflor.co.za/>

a) Coves should be installed with Polycove PC 20 20mm cove former, using the 150mm Taper ends at doorways and on vertical corners.



(Polyflor 011-609 3500) <http://www.polyflor.co.za/>

b) PolycapCS 48 should be used to finish off the wall sheet at 200mm high, and all corners should be done using the butterfly system to avoid mitres joins on corners



c) Installation should be strictly according to manufacturers instructions with correctly welded joints, scribed & tight butt finished prior to grooving & welding, weld should be double cut using a cutting slide and finally glazed to give a sustainable and maintainable finish. See also Detail Drawings .

(StonCor - 011 2545500).

d) Brush on Pro-Struct 526 waterproofing on shower/bath floor, 200mm high on skirting and all tiled walls. Shower floor Prepare surface and apply - Five Star Waterproofing (Pro-Struct 526) applied in a two coats brush application, onto floor screed/wall plaster - all strictly to manufacturers detail specifications to ensure a waterproof surface See also detail drawing.



REVISIONS

0

100-B-Skirting finishes (2)

STATUS	ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS	PROJECT DATE			
PROJECT TITLE		PROJECT NO:			
		20080-3-BC010			
		REV NO:	R00	Date	6-Oct-17

280 Stuart Street
 P.O. Box 752
 HARRISMITH, 9000
 Tel: +27 59 622 3942
 Fax: +27 59 620 0844
 Mobile: 083 272 2503
 E mail:
 hdy@hdy.co.za



HDG

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-B-Skirting finishes	R00	20080-3-BC010	2	

P1 Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.

P2 Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.

P3 Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

P4 TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

B10 SEAMLESS VINYL SKIRTING / BORDER (SAFETY FLOORING)

(Polyflor 011-609 3500) (www.polyflor.co.za)

Type Ditto floor sheets - polyurethane reinforced fully flexible vinyl floor sheeting covered skirting (200mm border with 200mm high covered skirting), fixed with approved adhesive, joints welded with a fully flexible coloured Polyflor Welding Rod to provide a smooth, hygienic sealed finish, complete with PC 20 cove, include a taper end piece inserted 150 mm prior to the doorway, as illustrated in Technical, complete with CTC30 and CB30 Ejecta Clip, on levelling screed (ditto floor) to ensure a level installation, on well prepared cement screed/wall plaster to match required level – all installed strictly to manufacturers specifications – Sheet and welding rod colours to Architects approval.

NOTE :

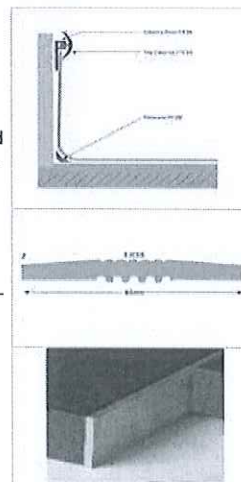
(Polyflor 011-609 3500) (www.polyflor.co.za)

a) Where applicable, all expansion joints in screed and wall to be according to vinyl sheet expansion joint detail. Complete with EJC65 Polyspan joint cover - Strip and welding rod colours to Architects approval. – all to manufacturers specifications.

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).

R00
2017/10/06



B14 SEAMLESS VINYL SKIRTING / BORDER (WET AREAS)

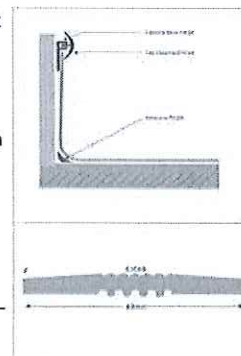
Ditto floor finish - Continues reinforced fully flexible vinyl floor sheeting covered skirting 200mm high (without floor joints), fixed with approved adhesive, joints welded with a fully flexible coloured Polyflor Welding Rod to provide a smooth, hygienic sealed finish, complete with PC 20 cove, include a taper end piece inserted 150 mms prior to the doorway, as illustrated in our Technical, complete with CTC30 and CD30 Ejecta Clip for plaster and painted areas and TC48 tile capping strip in tiled areas, on waterproofing and leveling screed (see floorfinish) to ensure a level instalation, on well prepared cement screed/wall plaster to match required level – all installed strictly to manufacturers specifications – Sheet and welding rod colours to Architects approval.

NOTE :

(Polyflor 011-609 3500) (www.polyflor.co.za)

a) Where applicable, all expansion joints in screed and wall to be according to vinyl sheet expansion joint detail. Complete with EJC65 Polyspan joint cover - Strip and welding rod colours to Architects approval. – all to manufacturers specifications.

R00
2017/10/06



ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-B-Skirting finishes	R00	20080-3-BC010	2	

(KIRK MARKETING + 27 (0)11 444 1441)(<http://www.kirk.co.za>)

b) Where floor covering change from one floor finish to another, the finishes should be divided with a 25mm x 3mm brass dividing strip (Code BFB253) cast into screed at position as indicated on detail drawing (flush with floor finish).



REVISIONS

0

100-C-Walls finishes (2)

STATUS	PROJECT TITLE ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS	PROJECT DATE			
		PROJECT NO: 20080-3-BC010			
		REV NO:	R00	Date	6-Oct-17

28a Stuart Street
 P.O. Box 792
 HAFRUSMITH, 9850
 Tel: +27 59 622 3942
 Fax: +27 59 623 0044
 Mobile: 083 272 2593
 E mail:
 hdg@hdg.co.za



HDG

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0644 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-C-Walls finishes	R00	20080-3-BC010	2	

P1 Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.

P2 Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.

P3 Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

P4 TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

C62. REPAIR EXISTING PLASTER AND RE-PAINT WITH PLASCON WALL & ALL (STANDARD)

R00
2017/10/06

Remove loose plaster and scrape in the crack with your putty knife to open it up a little and give the plaster a bit more surface to stick to. Then sand around the crack to roughen up the paintwork. Now dust the surface down with a rag and cover the crack with a piece of jointing tape. Scrape the plaster compound into the crack and flatten it on to the wall with your paint scraper. Once the compound is dry, lightly sand it until it is smooth. Dust the wall off and apply a second, slightly wider coat of plaster compound to the wall. Again, let the compound dry, sand it smooth and dust it down.

SURFACE PREPARATION & SEQUENCE

- Moisture content measured with a Doser Hygrometer (or equivalent) must not exceed the following limits before painting:

- concrete, off-shutter, pre-cast : BD 4 scale - 5%
- cement plaster, brickwork, fibre-cement : BD 2 scale – 8%

- Ensure that surfaces are dry, sound and clean.
- Concrete must cure for minimum 28 days and cement plaster 14 days before painting.
- Remove any hollow and soft/underbond plaster and re-plaster.
- Remove dirt and loose particles.
- Remove any oil, grease and other contaminants with Plascon Metalcare Aquasolv Degreaser (GR 1) working it well into affected areas with bristle broom or brush. Leave for 20 minutes to react, then rinse thoroughly with fresh water to remove all traces of Plascon Metalcare Aquasolv Degreaser (GR1), using high pressure water jet or scrubbing with brush or broom. Allow to dry completely.
- Remove fungi and algae by scrubbing with a solution of household bleach (3,5% sodium hypochlorite) - 1 part bleach to 2 parts water by volume. Leave for 1 hour, then brush off with a bristle brush. Rinse thoroughly with tap water to remove all traces of bleach and allow to dry.
- Fill cracks and other surface defects with the appropriate Polycell filler - refer Surface Preparation, SP4 Crack Repair.

PAINT APPLICATION:

- Apply one coat of Professional Gypsum and Plaster Primer (PP700) to achieve a continuous film. Allow 16 hours to dry.

Please note: When YELLOW top coats are selected for New Work Application it is imperative to use Plascon Professional Plaster Primer - PP950 (Alkali Burn Resistance Primer) in place of (PP700) plaster primers as pH levels may be exceptionally high on new or hairline cracked plaster.

- Apply TERRACO EZ Skim (TER 1200) to achieve a continuous film. Allow 2 hours to dry.
- Apply two full coats of Plascon Wall & All (WAA) to achieve complete obliteration, allowing 2 hours drying between coats.

All strictly to manufacturers detail specification . Colours to Architect's approval.

C64. NEW WHITE GLAZED WALL TILES (SPLASH BACK)(STANDARD)

R00
2017/10/06



ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 822 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-C-Walls finishes	R00	20080-3-BC010	2	

Ditto C1 – Prepare wall and install glazed ceramic 200 x 200 x 8mm Johnson matt wall tiles with 3mm joints (800mm wide x 1200mm High at wash hand basin and 400mm high for length of top and adjacent side walls) installed rectangular or diagonal with a diagonal or rectangular dado tile pattern lengit. Install with tile adhesive as recommended by tile manufacturer. Finish all joints with an approved grout on well-prepared plaster. Install all strictly to manufacturer's specifications. Colour, pattern and type to Architect's approval.

NOTE :

- a) All wall tiles to be in panels not larger than 2 x 2m without a 2 mm silicone joint. Colour, pattern and type to Architect's approval.
- b) Where applicable, all structural expansion joints in wall to be formed with a 8 mm silicone filled joint. Colour to match grout.
- c) Where applicable, all external corners to be provided with external aluminium straight edge trimming as by KIRK (catalogue Product code 686) (032-525 4507) or equal approved. Colour and type to Architect's approval.



In the event of drywall wall tiling:

For improved vapour resistance, seal the surface using Gyproc Gypseal
All walls must be primed with 2 parts weber.prim Plaskey WB 250 mixed with 1 part weber.ad Key it WB 117
Apply to a thickness of 1.5 - 2mm using a builders block brush. Allow 24 hours to dry before tiling commence.
Maximum tile weight shall be 20kg/SQM. For heavier tile consult Saint-Gobain.
Use weber.set tile Adhesive mixed with only clean cold water. Apply to suface to a maximum 3mm bed thickness, or maximum 6mm weber.grout mixed with weber.ad bond it WB 183

For showers use Weber shower kit

C66. NEW WHITE GLAZED WALL TILES (SKIRTING TO 2125mm HEIGHT)(STANDARD)

R00
2017/10/06

Ditto C1 – Prepare wall and install 200 x 200 x 8mm Johnson matt glazed ceramic wall tiles with 3mm joints installed rectangular or diagonal with a diagonal or rectangular dado tile pattern. Install with tile adhesive as recommended by tile manufacturer. Finish all joints with an approved grout on well-prepared plaster. Install all strictly to manufacturer's specifications. Colour, pattern and type to Architect's approval.

NOTE :

- a) All wall tiles to be in panels not larger than 2 x 2m without a 2 mm silicone joint. Colour, pattern and type to Architect's approval.
- b) Where applicable, all structural expansion joints in wall to be formed with a 8 mm silicone filled joint. Colour to match grout.
- c) Where applicable, all external corners to be provided with external PVC trimming as by KIRK (catalogue number PRE) (032-525 4507) or equal approved. Colour and type to Architect's approval.

In the event of drywall wall tiling:

For improved vapour resistance, seal the surface using Gyproc Gypseal
All walls must be primed with 2 parts weber.prim Plaskey WB 250 mixed with 1 part weber.ad Key it WB 117
Apply to a thickness of 1.5 - 2mm using a builders block brush. Allow 24 hours to dry before tiling commence.
Maximum tile weight shall be 20kg/SQM. For heavier tile consult Saint-Gobain.
Use weber.set tile Adhesive mixed with only clean cold water. Apply to suface to a maximum 3mm bed thickness, or maximum 6mm weber.grout mixed with weber.ad bond it WB 183

For showers use Weber shower kit

REVISIONS

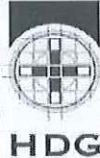
0

100-D-Ceiling finishes (2)

STATUS				PROJECT DATE		
PROJECT TITLE	ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			PROJECT NO:		
				20080-3-BC010		
				REV NO:	R00	Date

28a Skoot Street
 P.O. Box 752
 HARRISMITH, 9890
 Tel: +27 58 622 3942
 Fax: +27 58 623 0044
 Mobile: 083 272 2503
 E-mail: hdg@hdg.co.za


HDG

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		39a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-D-Ceiling finishes	R00	20080-3-BC010	2	

P1 Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract

P2 Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.

P3 Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

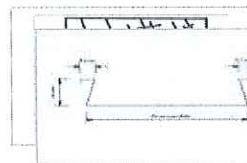
P4 TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

D25. STEEL CEILING (1mm)

Global Roofing Solutions (011 - 898-2900) <http://www.globalroofs.co.za/>
BOND-LOK 1 mm sheet metal ceiling panels with CHROMADEK finish. Install with concealed screws at max 400 mm c/c to 75 mm mild steel lip-channel purlins to SE design.

Cornice :
Finish with 50mm x 50mm x 3mm painted angle iron cornice riveted to ceiling. See also detail drawing 44-199. Colours and type to Architect's approval.

R00
2017/10/06



D48 CEILING INSULATION (135mm)

ISOVER (011 360 8200)
Isover 135mm thick Aerolite non-combustible light weight fibreglass Glasswool thermal ceiling insulation 12kg/m³ closely fitted with ends butted firmly between tie beams and laid loose on top of brandering between roof timbers, all in accordance with manufacturer's recommendations.
All to comply minimum required total r-value for climatic zones according to sans10400-xa:2011.

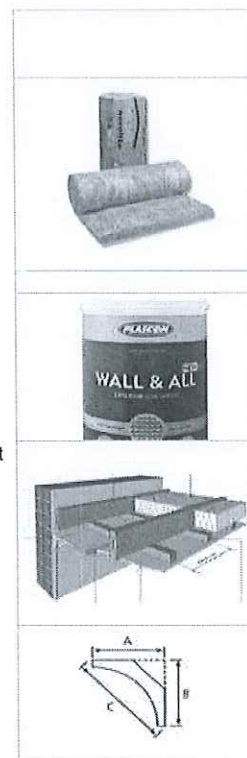
- R-value: 3,38m² K/W
- Thermal conductivity: 0,04 W/m²/K.

D60. REMOVE OLD CEILINGS AND REPLACE WITH PLASTERBOARD M-STRIP TIMBER BRANDERED CEILINGS WITH COVED CORNICE AND PLASCON WALL & ALL PAINT.

Remove existing, ceiling and battern. Install new battens to suit ceiling complete with ceiling insulation specified elsewhere.

GYPROC 6,4mm RhinoCeil Standard M-Strip ceiling with square edged Rhinoboard fixed print side up, at right angles to brandering using 32mm galvanised semi-clout nails or 32mm grabber screws at 150mm centers to 38 x 50mm (with 50mm dimension vertical) SA Pine brandering at 400mm centres in one direction only with plastic M-Strip cover strips over joints with all nail or screw heads stopped and sanded level when dry all fixed to trusses at centres exceeding 1000mm, not exceeding 1200mm. All as per manufacturers instructions complete with SABISA certificate.

Cornice:
GYPROC RhinoArt Standard 75mm GYPROC plaster coved cornice, code 1295 fixed to wall with 38mm galvanised clout or steel nails at 300mm centres into wall, and to the brandering at 450mm centres.



ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
06-Oct-17	100-D-Ceiling finishes	R00	20080-3-BC010	2

SURFACE PREPARATION:

Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely.

APPLICATION:

Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, one coat PLASCON Wall & All Pure Acrylic paint to new plaster board ceilings to cover surface sufficiently. Colours to Architect's approval.



D62. REPAIR AND PAINT CEILING (PLASCON WALL & ALL PAINT) AND REPLACE OLD CORNICE WITH NEW CORNICE (STANDARD)

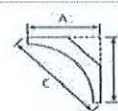
R00
2017/10/06

Replace all ceiling cornice of ceiling. Remove loose and peeling paint carefully with scraper and/feather edges, taking care not to damage the substrate. Fill defects. Allow to dry. Sand smooth with 220 grit sandpaper and feather the edges.

Ensure surfaces are clean, dry and sound. Moisture content not more than 8% measured on a Doser Hygrometer BD2 scale (or equivalent) before painting.

Cornice:

GYPROC RhinoArt Standard 75mm GYPROC plaster coved cornice, code 1295 fixed to wall with 38mm galvanised clout or steel nails at 300mm centres into wall, and to the bandering at 450mm centres.

**SURFACE PREPARATION:**

Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely.

APPLICATION:

Apply one coat PLASCON Wall & All Pure Acrylic paint, thinned 20%, one coat PLASCON Wall & All Pure Acrylic paint to new plaster board ceilings to cover surface sufficiently. Colours to Architect's approval.



REVISIONS

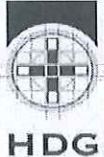
0

100-F-Sanitary schedule (10)

STATUS	ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS	PROJECT DATE			
PROJECT TITLE					
		PROJECT NO:			
		20080-3-BC010			
		REV NO:	R00	Date	6-Oct-17

390 Stuart Street
 P.O. Box 782
 HARRISMITH, 9090
 Tel: +27 59 622 3942
 Fax: +27 59 623 0844
 Mobile: 083 272 2593
 E mail:
 hdg@hdg.co.za


HDG

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

P1 Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.

Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.

P2

ALL stainless steel fittings to be fitted with stainless steel bolts/screws etc. Not mild steel

P3

Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

P4

TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

P5

Existing buildings – IF Required - Remove existing sanitary and plumbing fitting and fit new sanitary ware and plumbing (hot & coldwater, waist and soil waterpipes – all to connect to main connections) as specified.

P6

(SAN001) WASH DOWN SUITE (WITH CISTERN)

Vaal Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
Daisy White vitreous china semi close coupled washdown suite comprising 90° outlet open rim pan (product code 751400) and matching 9 litre front single flush cistern (product code 710532) including lid, fittings and flushpipe elbow, including lid and fittings with heavy duty seat.

0
2017/10/06



(SAN003/003A) BOWL URINAL (CONCEALED TOILET FLUSHMASTER)

Vaal Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
600 x 385 x 380mm Lavatera back inlet white vitreous china wall mounted urinal (Code: 705427) including 38mm chromium plated domical grating (Code:8787Z0) and chromium plated back inlet spreader (Code: 7054Z2), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (Code: 8127Z0).

0
2017/10/06



(SAN003) Recommended installation height to top of unit front rim (650mm FFL)
(SAN003A) Recommended Juvenile installation height to top of unit front rim (450mm FFL)

Plumbing: (Cobra 011 951-5000)
Cobra Watertech exposed urinal chrome plated Junior Econo Flushmaster flushvalve (code: KF8.112) with non-hold open feature, galvanised steel undertile box with stainless steel faceplate and chasis, palm press button, 22mm diameter copper urinal tailpipe and 20mm "Ball-o-Stop" control inlet .
Cobra Watertech 40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC (365/50).

(SAN003) Recommended installation height to centre of unit Button (1450mm FFL)
(SAN003A) Recommended Juvenile installation height to centre of unit Button (1350mm FFL)

0
2017/10/06



(SAN004) WASH HAND BASIN

ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

VAAL Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
510mm x 405mm Hibiscus vitreous china lavatory basin (product code 7023) with two tap holes, including integrated overflow, bolted to wall with two 10mm bolts (product code 8448ZO).

(SAN004) Recommended installation height to top of unit Basin (820mm FFL)
(SAN004A) Recommended Juvenile installation height to top of unit Basin (620mm FFL)

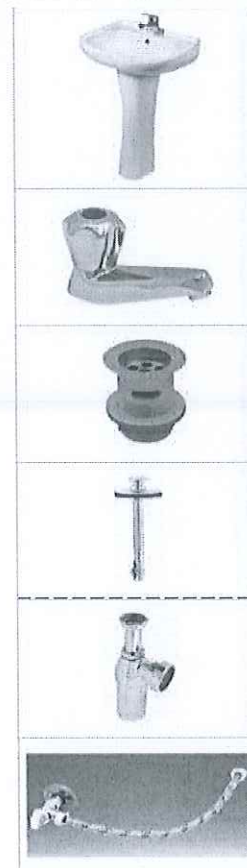
Plumbing: (Cobra 011 951-5000)
Cobra Watertech Stella 15mm chrome plated basin pillar tap, with tapered flow-straightened (3314ST-15).

Plumbing: (Cobra 011 951-5000)
Cobra Watertech 32mm Machine chrome plated slotted basin waste union (303).

Plumbing: (Cobra 011 951-5000)
COBRA 309-32 "anti-theft" plug

Plumbing: (Cobra 011 951-5000)
COBRA 345/50 bottle trap, 50mm pvc outlet.

Plumbing: (Cobra 011 951-5000)
COBRA angle regulating valves – COBRA 832/350F.



(SAN006/006A) TOWEL DISPENSER - ECONOMY

Franke (0861 372 653)
Franke Rodan RODX600 0,8mm thick satin finished stainless steel paper towel dispenser (Product Code: 2120099), size 275 x 112 x 355mm high with a capacity of 500-800 towels, inspection windows on the side and Franke standard key, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications.

(SAN006) Recommended installation height to top of unit (1800mm FFL)
(SAN006A) Recommended Paraplegic installation height to top of unit (1438mm FFL)

0
2017/10/06



(SAN007) WASTE DISPOSAL BIN - ECONOMY SPECIFICATION

Franke (0861 372 653)
Franke Rodan RODX605 0,8mm thick satin finished stainless steel waste bin (Product Code: 2120097), size 355 x 168 x 460mm high with capacity of 23 litres and cylinder lock and standard Franke key, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications.

Recommended installation height to top of unit (820mm FFL)

0
2017/10/06



(SAN009) PARAPLEGIC WC (WITH CISTERN)

0
2017/10/06

ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10

Vaal Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
Protea Paraplegic white vitreous china floor mounted paraplegic washdown suite (product code 750200) comprising 90° outlet pan (product code 7502) and matching 9 litre cistern (product code 710631), including lid, fitments and purpose-made chromium plated side flush lever.



(SAN010/010B) PARAPLEGIC WASH HAND BASIN AND MIRROR
(SAN010A/010C) PARAPLEGIC WASH HAND BASIN WITHOUT MIRROR

Vaal Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>
510 x 405mm Hibiscus White vitreous china lavatory basin (product code 7050) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts (product code 8448ZO).

Recommended installation height to top of unit Basin (820mm FFL)

0
2017/10/06



Plumbing (Cobra 011 951-5000)

Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21B/p-WS/6-nolime) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).

Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21R/p-WS/6-nolime) with red indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).

Plumbing (Cobra 011 951-5000)

Cobra Watertech 32mm Machine chrome plated slotted basin waste union (303).



Plumbing (Cobra 011 951-5000)

COBRA 309-32 "anti-theft" plug



Plumbing (Cobra 011 951-5000)

COBRA 345/50 bottle trap, 50mm, pvc outlet.



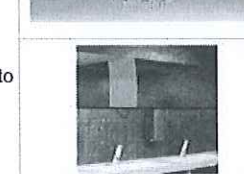
Plumbing (Cobra 011 951-5000)

COBRA angle regulating valves – COBRA 832/350F.



MIRROR (SAN010M)

450mm x 900mm high quality mirror complete with beveled edges installed on wall tiles. Plug and screw to wall with X4 chromed mirror screw with dome caps. One per basin.



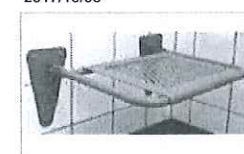
(SAN011/011A) FOLD-UP SEAT

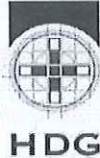
Locker Logictic (082) 558 5153

Standard PPA 200 MICRON coated fold-up perforated shower seat 500mm long as by Locker Logictic, installed to wall before tiling wall with patented Rawl bolts. Installed strictly to manufacturers specifications.

Recommended installation height to top of unit seat (480mm FFL)

0
2017/10/06



ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10

(SAN018/018A) LOCKABLE TOILET PAPER DISPENSER - ECONOMY

0
2017/10/06

Franke (0861 372 653)

Franke Rodan RODX672 0,8mm thick satin finished stainless steel double toilet roll holder with spindle system (Product Code: 2120101), size 144 x 138 x 301mm high for 2 rolls maximum 120mm diameter with cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications. One per WC cubicle.

(SAN018) Recommended installation height to top of unit (820mm FFL)

(SAN018A) Recommended Juvenile installation height to top of unit (620mm FFL)



(SAN019) DISABLED STRAIGHT RAIL

0
2017/10/06

Stainless Steel Design (012 – 6667764)

<http://www.stainlesssteeldesigns.co.za/>

STANDARD 800 long X 150 mm projecting straight disabled rail (KB18) as by Stainless Steel Design. Installed strictly to manufacturers specifications.

(SAN019) Recommended installation height to bottom of unit (740mm FFL)

(SAN019A) Recommended Juvenile installation height to top of unit (620mm FFL)



(SAN021/021A/021B/021C) DISABLED DOG LEG SIDE RAIL

0
2017/10/06

Stainless Steel Design (012 – 6667764)

<http://www.stainlesssteeldesigns.co.za/>

STANDARD 300 x 300 x 300 x 80mm projecting dog leg side rail (KB26) as by Stainless Steel Design. Installed strictly to manufacturers specifications.

SAN021/021A Recommended installation height to bottom of unit (740mm FFL)

SAN021B/021C Recommended installation height to bottom of unit (540mm FFL)



(SAN029) STANDARD SHOWER PLUMBING

0
2017/10/06

Plumbing: (Cobra 011 951-5000)

Cobra Watertech Stella chrome Chrome plated shower under wall stop taps (3338ST-15)

Recommended installation height to centre of unit (1000mm FFL)

Plumbing: (Cobra 011 951-5000)

Cobra Watertech shower arm (026)

Cobra Watertech shower ROSE (KP2.51)

Recommended installation height to top of unit (2000mm FFL)



(SAN030) MIRROR - ECONOMY

0
2017/10/06

450mm x 600mm Mirror installed on wall with high quality double sided tape and silicone. One per basin.

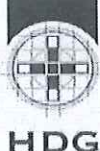
(SAN030) Recommended installation height to top of unit (1800mm FFL)

(SAN030A) Recommended Juvenile installation height to top of unit (1600mm FFL)

(SAN030B) Recommended installation height to top of unit (1850mm FFL)

(SAN038/38A) STAINLESS STEEL SOAP TRAY (KMH)

0
2017/10/06

ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		39a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

Franke (0861 372 653)

Standard stainless steel wall mounted soap tray as by FRANKE Washroom Accessories - BS646 - (Product Code: 2120073), Installed strictly to manufacturers specifications. One per basin.

(SAN038) Recommended installation height to top of unit (1260mm FFL)

(SAN038A) Recommended Paraplegic installation height to top of unit (820mm FFL)



(SAN040/040A) STAINLESS STEEL SOAP DISPENSER - ECONOMY

Franke (0861 372 653)

Franke Rodan RODX619 0,8mm thick satin finished stainless steel soap dispenser (Code: 2120095), size 200 x 85 x 140mm high with 1 litre capacity, front push button, cylinder lock and Franke standard key, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications.

(SAN040) Recommended installation height to top of unit (1225mm FFL)

(SAN040A) Recommended Paraplegic & Juvenile installation height to top of unit (1125mm FFL)

(SAN040B) Recommended Shower Installation height to top of unit (1580mm FFL)

0
2017/10/06



(SAN042/042A) DISABLED WC RAIL

Stainless Steel Design (012 – 6667764)

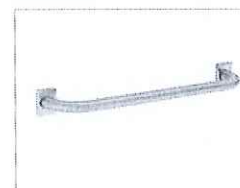
<http://www.stainlesssteeldesigns.co.za/>

STANDARD 800 long X 150 mm projecting straight disabled rail (KB18) as by Stainless Steel Design. Installed strictly to manufacturers specifications.

(SAN042) Recommended installation height to centre of unit (740mm FFL)

(SAN042A) Recommended Juvenile installation height to top of unit (540mm FFL)

0
2017/10/06



(SAN048) VINYL SHOWER FLOOR

Safety vinyl sheet flooring specify elsewhere on screed (screed sloped towards shower drain), joints welded with a fully flexible coloured Welding Rod to provide a smooth, hygienic sealed finish, all in accordance with manufacturer's specifications.

Nota: (SD1v) or (SD2v) to suit application bedded in screed.

0
2017/10/06

Plumbing: (Polyflor 011-609 3500)

(SD1v) Polydrain ACO shower drain with 50mm Side outlet ABS drain body with removable foul air trap and nylon vinyl clamps (Code: 405819) including grade 304 stainless steel perforated grating (Code: 403234), connected to 50mm waste pipe and bezel extension (Code: SDP-TE), – all to manufacturers specifications.

Plumbing: (Polyflor 011-609 3500)

(SD2v) Polydrain ACO shower drain with 110mm vertical outlet ABS drain body with removable foul air trap and nylon vinyl clamps (Code: 405815) including grade 304 stainless steel perforated grating (Code: 97212), connected to 110mm waste pipe and bezel extension (Code: SDP-TE), – all to manufacturers specifications.



(SAN051) WASH HAND BASIN (VANDAL RESISTANT)

0
2017/10/06

ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

Whyte house (021- 799 4400)

Vandal Resistant Sanitaryware MK 11 Basin (030337) with two tap holes, bolted and epoxy grout to wall - all strictly to manufacturers specifications.

Recommended installation height to top of unit Basin (820mm FFL)

Plumbing: (Cobra 011 951-5000)

2X Cobra Watertech Carina 15mm chrome pillar tap (Code: 114CA-15) with aerator outlet and flanged backnut, manufactured in accordance with SANS 226:2004 Type 1 (BS 5412).

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 32mm chrome plated basin waste (Code: 308) with 62mm diameter flange, 80mm long shank and plug.

Plumbing: (Plumlink 011 951-5000)

Wirquin extendable flexible trap Plumblink code, 017742



(SAN069) BANTAM WASH HAND BASIN

Vaal Sanitaryware (016 - 360 6000) <http://www.vaalsan.co.za/>

Bantam vitreous china cloakroom basin (code: 7030), size 455 x 290mm with two tapholes, including integrated overflow and chainstay hole bolted to wall with two 10mm bolts (code: 8448Z0) and sealed with silicone sealant where basin meets wall.

(SAN069) Recommended installation height to top of unit Basin (820mm FFL)

(SAN069A) Recommended Juvenile installation height to top of unit Basin (620mm FFL)

Plumbing: (Cobra 011 951-5000)

Cobra Watertech Stella 15mm chrome plated basin pillar tap, with tapered flow-straightened (3314ST-15).

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 32mm Machine chrome plated slotted basin waste union (303).

Plumbing: (Cobra 011 951-5000)

COBRA 309-32 "anti-theft" plug

Plumbing: (Cobra 011 951-5000)

COBRA 345/50 bottle trap, 50mm pvc outlet.

0
2017/10/06



ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 68 622 3942 Fax: +27 68 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

Plumbing: (Cobra 011 951-5000)
 COBRA angle regulating valves – COBRA 832/350F.



(SS001) COMBINATION BEDPAN AND WASH-UP SINK

Franke (0861 372 653)

Franke 1,6mm Grade 304 18/10 stainless steel EC6 combination bedpan and wash-up sink (Code: 350050 left handed) (Code: 350052 right handed), size 1830 x 685mm with one pressed seamless sluice bowl with integral flushing rim and one 610 x 460 x 230mm deep pressed seamless rinse bowl, 150mm high integral splashback, 15mm deep hospital bead, 100mm apron, 110mm waste outlet connected to S or P trap (elsewhere specified) on sluice bowl and fixing on pair of stainless steel gallows brackets and legs with adjustable feet, each bracket twice bolted to wall with M8 expansion bolts and each foot twice plugged and screwed to floor. Unit supplied complete with the following Cobra Plumbing.

0
 2017/10/06



Plumbing: (Cobra 011 951-5000)

Cobra Watertech exposed WC chrome plated 35mm Standard Flushmaster flushvalve (code: FM1-000) with non-hold open feature, vacuum breaker, wall flange, adjustable telescopic connection and 32mm control stop with integral non-return valve inlet.



Plumbing: (Cobra 011 951-5000)

Cobra Watertech 15mm chrome plated Star sink mixer (Code: 171/041CP) with aerated swivel spout, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412), installed to manufacturer's recommendations.



Plumbing: (Cobra 011 951-5000)

Cobra 297CA pillar mixer with retractable hand spray and flexible inlet connections and bottle spray nozzles



Plumbing: (Cobra 011 951-5000)

(X1) 15mm round bedpan spray nozzle & (X1) 15mm round bottle spray nozzle activated by



Plumbing: (Cobra 011 951-5000)

Cobra 514-21B 15mm elbow action valve for each pillar mixer (2 units)



ALTERNATIVE Plumbing (Adami & Spano -0832625798):

Adami & Spano over head pre-rinse spray includes mixer tap- Type -PRS0001. Installed in position as shown on detail drawing, strictly to manufacturers specifications. See drawing 43-19

ALTERNATIVE Restrainer:

Purpose made 8mm diameter stainless steel dome restrainer to detail drawing 43-19



(SS006) STAINLESS STEEL WASH HAND BASIN (MEDICAL)

0
 2017/10/06

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 68 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

Franke (0861 372 653)

Grade 304 (18/10) 1,2mm thick stainless steel model Oval A wash hand basin size 420 x 340mm with pressed bowl, with two tapholes, with 100mm radius apron and 50mm high splashback, (Code 357456) excluding waste four times bolted to wall with M6 expansion bolts.

Recommended installation height to top of unit basin (820mm FFL)

Plumbing: (Cobra 011 951-5000)

15mm Chrome plated square pattern elbow action pillar tap with aerator (505-21).

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 32mm Chrome plated unslotted basin waste union (no chain or stay) (317-40).

Plumbing: (Cobra 011 951-5000)

COBRA 365/50 bottle trap, 50mm, pvc outlet

Plumbing: (Cobra 011 951-5000)

COBRA angle regulating valves – COBRA 232/350.



(SS007) BEDPAN AND BOTTLE RACK (BBR6)

Franke (0861 372 653)

Purpose made Franke Kitchen Systems Grade 304 18/10 stainless steel bedpan and bottle rack BBR6 (Code:350604 New style with Bottle rods on front of unit) for 6No. pans and 7No. bottles, size 915 x 560 x 260mm with rubber grommets fitted to ends of 8mm diameter bottle rods, removable drip tray with 19mm spigot outlet, fixed to wall with 4No. Anchor bolts and flat bar mounting brackets.

Recommended installation height to bottom of unit (1500mm FFL)

0
2017/10/06



(SS008) SLOP HOPPER

Kwikot (011 897 4600)

Slop Hopper with cowling size 535x685x510mm high manufactured from 304(18/10) stainless steel 1,2mm thick with a 100mm high integral splash back to rear and both sides, Model HDGX -SLOP 1 for floor and HDGX -SLOP 2 for wall connection. The cone has a integral flushing rim and 100mm Ø stainless steel "S" or "P" trap .Unit fitted with a back entry flush pipe for a standard flush valve. Unit fitted with a hinged bucket grid manufactured from 10mm diameter 304 (18/10) complete with two 40x40mm square stainless steel wall mounting gallow brackets fixed to wall with 4 of anchor bolts. Slop hopper supplied complete with floor mounting bracket as per manufacturers specification,

Note : For position of connection pipe refer to detail sewer design drawings.

Recommended installation height to top of unit front rim (600mm FFL)

ALTERNATIVE Restrainer:

Purpose made 8mm diameter stainless steel dome restrainer to Detail drawing 43-19

0
2017/10/06

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

Plumbing: (Cobra 011 951-5000)

Cobra Watertech exposed WC chrome plated Junior Flushmaster flushvalve (code: FJ2.210) with non-hold open feature, vacuum breaker, back entry flushpipe, galvanised steel undertile box with stainless steel faceplate, palm press button, rubber pan connector and 32mm "Ball-o-Stop" control inlet.

Recommended installation height to centre of unit Button (1050mm FFL)
Detail drawing 43-04

Plumbing: (Cobra 011 951-5000)

Cobra Watertech (x2) Stella 15mm chrome Chrome plated extended bibtap (3306ST/EXT-15).

Recommended installation height to centre of units (1050mm FFL)
Detail drawing 43-04

Franke (0861 372 653)

Franke CP Brass adaptor (Code 403195).



1

(SS009/SS009A) PLASTER OF PARIS PREPARATION SINK

Franke (0861 372 653)

Grade 304 (18/10) stainless steel model PPGL plaster of paris preparation sink and work table size 1500 x 550mm with 150mm high integral splashback at rear, 50mm turndown with beaded edge to front and sides, 410 x 340 end bowl discharging to 250mm diameter x 535mm deep waste cylinder with perforation for 40mm waste, removable perforated strainer and lid, the underside of the unit sprayed with vermin proof bitumastic sound deadening and supported on galvanized mild steel backing sheet and two 40 x 40mm stainless steel tube gallews brackets with 900mm long front legs with adjustable feet, each bracket twice bolted to wall with M8 expansion bolts and each foot twice plugged and screwed to floor.

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 15mm Chrome plated wall-type medical sink mixer (510-21).

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 40mm Chrome plated unslotted sink waste union (no chain or stay) (317-40).

Plumbing: (Cobra 011 951-5000)

COBRA 309-40 "anti-theft" plug

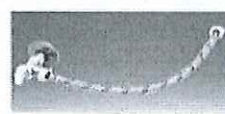
Plumbing: (Cobra 011 951-5000)

COBRA 365-50 bottle trap, 50mm, pvc outlet

Plumbing: (Cobra 011 951-5000)

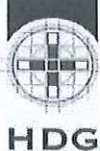
COBRA angle regulating valves – COBRA 832/350F

0
2017/10/06



(SS078/078A) STAINLESS STEEL OVERLAY SINK (Urine test)

0
2017/10/06

ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-F-Sanitary schedule	0	20080-3-BC010	10	

Kwikot (011 897 4600)

Kwikot Model UTU1000X single end (please specify end-Left or Right hand bowl) post formed urine test unit size 1000x595mm manufactured in 1,2mm grade 304 stainless steel with a 12mm splash back to back, flat top -no fluting- hospital bead only, bowl size 410x350x150mm deep with a 12mm splashback at rear complete with 1 no:- PVC combination overflow fitting with anti theft plug.

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 15mm Chrome plated one Hole sink mixer with overarm swivel spout, Mounting kit and Flexible Connection Tubes (3396/ST).

Plumbing: (Cobra 011 951-5000)

Cobra Watertech 40mm Chrome plated unslotted basin waste union (no chain or stay) (317-40).

Plumbing: (Cobra 011 951-5000)

COBRA 309-40 "anti-theft" plug

Plumbing: (Cobra 011 951-5000)

COBRA 365/50 bottle trap, 50mm, pvc outlet

Plumbing: (Cobra 011 951-5000)

COBRA angle regulating valves – COBRA 832/350F.

NO IMAGE
AVAILABLE



REVISIONS				

100-G-fittings & fixtures (4)

STATUS		PROJECT DATE			
PROJECT TITLE	ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS				
		PROJECT NO:			
		20080-3-BC010			
		REV NO:	R00	Date	6-Oct-17

38a Stuart Street
P.O. Box 792
HARRISMITH, 0050
Tel: +27 58 622 3942
Fax: +27 58 623 0844
Mobile: 083 272 2503
E-mail:
hdg@hdg.co.za


HDG

ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-G-fittings & fixtures	R00	20080-3-BC010	4	

P1

1. Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.

P2

2. Mock up rooms – all wall and floor finishes must be prepared in advance as part of a mock up room/rooms and at least a 100 square meter of vinyl flooring will serve as a sample floor.

P3

Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

P4

TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

PSY001: FLOOR MOUNT VANDAL RESISTANT BED

Floor mounted Attenda bed ATN101B (Bed with bottom enclosure) as by (STIEGELMEYER +27 21 555 1415, www.stiegelmeier.com) . Engineered for intensive use environments and institutional durability. Raised lip around bed deck pools fluid for easy clean-up. Proven suitable for continuous daily use in a healthcare or correctional environment. Impact resistant. Rotationally moulded, specially formulated, fire-retardant, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading.) Chemically resistant to blood, vinegar, urine, faeces, salt solution and chlorine solution. Unit is filled with rigid polyurethane foam for increased durability and sound absorption.

Wedge anchors and 10MM bolts required for permanently attaching to floor. Anchors and bolts not supplied by Norix. Groove along underside edge for caulk application (caulk not supplied by Norix).5 year limited replacement warranty.

Installed strictly to manufacturers specifications – Colour to Architects approval.

R00
2017/10/06

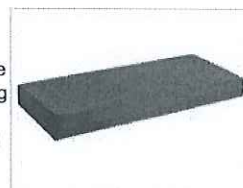


PSY004: VANDAL RESISTANT COMFORT SHIELD MATTRESS

Foam dormitory mattress (MNF6-3680) suitable for institutional environments features conventional grade foam core, antimicrobial nylon cover and inverted seam to deter bed bugs as by (STIEGELMEYER +27 21 555 1415, www.stiegelmeier.com). Conventional grade foam provides balanced comfort and firmness. The 210 Denier Oxford Nylon mattress cover with laminated fire retardant (FR) barrier and polyurethane coating is fluid repellent, anti-bacterial, anti-fungal, crack resistant, stain resistant, anti-static and breathable. An anti-crease inverted seam uses FR Kevlar® thread and limits bed bug habitat while providing strength and durability.

Installed strictly to manufacturers specifications – Colour to Architects approval.

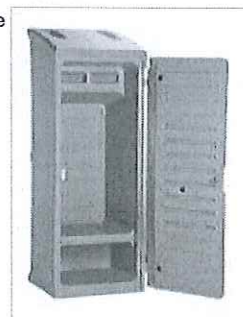
R00
2017/10/06



PSY010/010A: VANDAL RESISTANT WARDROBE

Attenda Wardrobe with door for personal storage ATN801-RL (Right Hinge - Latch) ATN801-LL (Left Hinge - Latch) as by (STIEGELMEYER +27 21 555 1415, www.stiegelmeier.com). Engineered for intensive use durability and proven suitable for continuous daily use in challenging environments. Includes integrated bottom shelf and shoe compartment. Moulded-in J-channel accommodates clothes hangers with no tie-off opportunity. 270° continuous piano hinge allows door to fold flat to side when open. Rounded corners and sloped top for added safety and security. Bolts securely to wall with 6 connection points. Slightly textured maintenance free surface allows for easy cleaning. Rotationally moulded, specially formulated, fire-retardant, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading). Chemically resistant to blood, vinegar, urine, faeces, salt solution and chlorine solution. Premium material is fully compounded for superior colour, fire-retardant and quality assurance. Unit is filled with rigid, structural polyurethane foam for increased durability and sound absorption. Latch is a wing knob cam latch.

R00
2017/10/06



ECDOH FACILITY MAINTENANCE BUFFALO CITY - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za 		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-G-fittings & fixtures	R00	20080-3-BC010	4	

Anchors required for permanently attaching to solid wall. Anchors not supplied by Norix. Bottom and back surfaces have a channel to accommodate security caulk. (Caulk not supplied by Norix). 5 year limited replacement warranty.

Installed strictly to manufacturers specifications – Colour to Architects approval.

PSY011: VANDAL RESISTANT DESK

Attenda Floor mounted desk (ATN600) as by (STIEGELMEYER +27 21 555 1415, www.stiegmeyer.com). Engineered for intensive use environments and institutional durability. Proven suitable for continuous daily use in a healthcare or correctional environment. Impact resistant. Base: Rotationally moulded, specially formulated, fire-retardant, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading.) Chemically resistant to blood, vinegar, urine, faeces, salt solution and chlorine solution. Unit is filled with rigid polyurethane foam for increased durability and sound absorption. Top: Decorative high-pressure laminate sealed with a specially formulated, highly durable moulded edge. Edge is radiused for safety and pressure fused to the top, rendering it permanently non-removable and highly sanitary.

Anchors required for permanently attaching to floor. Anchors not supplied by Norix. 5 year limited replacement warranty.

Installed strictly to manufacturers specifications – Colour to Architects approval.

R00
2017/10/06



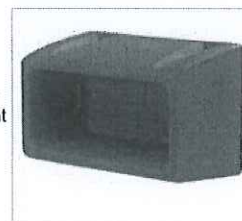
PSY012: VANDAL RESISTANT 1 SHELF STORAGE

Attenda Wall-mounted, compartment storage shelf (ATN310) as by (STIEGELMEYER +27 21 555 1415, www.stiegmeyer.com). Engineered for intensive use durability and proven suitable for continuous daily use in challenging environments. Impact resistant. Rounded corners and tapered top for safety and security. Designed to be mounted to solid concrete walls. Rotationally moulded, specially formulated, fire-retardant, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading). Chemically resistant to blood, vinegar, urine, faeces, salt solution and chlorine solution. Premium material is fully compounded for superior colour fire-retardant and quality assurance. Unit is filled with rigid polyurethane foam for increased durability and sound absorption.

Anchors required for permanently attaching to solid wall. Anchors not supplied by Norix. Groove along mounting surface for caulk application (caulk not supplied by Norix). 5 year limited replacement warranty.

Installed strictly to manufacturers specifications – Colour to Architects approval.

R00
2017/10/06



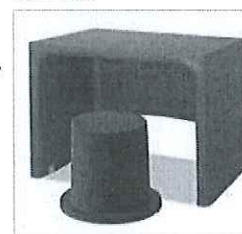
PSY013: VANDAL RESISTANT STOOL

Attenda Floor mounted stool (ATN500) as by (STIEGELMEYER +27 21 555 1415, www.stiegmeyer.com). Engineered for intensive use environments and institutional durability. Proven suitable for continuous daily use in a healthcare or correctional environment. Impact resistant. Rotationally moulded, specially formulated, fire-retardant, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading.) Unit is filled with rigid polyurethane foam for increased durability and sound absorption.

Anchors required for permanently attaching to floor. Anchors not supplied by Norix. 5 year limited replacement warranty.

Installed strictly to manufacturers specifications – Colour to Architects approval.

R00
2017/10/06



ECDOH FACILITY MAINTENANCE BUFFALO CITY1 - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS			38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za		
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-G-fittings & fixtures	R00	20080-3-BC010	4	

(PSY015) VANDAL RESISTANT MAX-MASTER TABLE

R00
2017/10/06

Max-Master Table Model #: MX4200-4 as by (STIEGELMEYER +27 21 555 1415, , www.stiegmeyer.com). Engineered for intensive use environments and institutional durability. Proven suitable for continuous daily use in a healthcare or correctional environment. Base: The curved member that supports the top has a 10" radius bend to facilitate easy cleaning beneath the table. This curved piece is fully welded to a vertical steel tube that supports the seat. The top of the curved tubes and top of the seat tubes have fully welded 6" x 6" x 1/4" thick steel mounting plates for installing top and seats. Bottom of seat tube has a fully welded mounting plate inset. For free standing applications, the inset is threaded to accommodate a non-removable, skid resistant, adjustable glide with a 1/2" diameter stem. For bolt-down application, the inset has a hole for the fully enclosed tamper-resistant bolt-down system. Top: 45 lb. density particle board, with permanently embedded T-nuts for securing the top to the base.



Base: 3" diameter, 14 gauge steel tubing.

Laminate Top: Decorative high pressure laminate sealed with a specially formulated highly durable Slammer Stone edge. Edges are radiused for safety and pressure fused to the top rendering it permanently non-removable and highly sanitary. 1 1/2" thick edge profile.

NorStone Top: Specially formulated composite, compression moulded to create a seamless, one-piece top and edge surface for superior impact resistance and durability. 22% of the material is soy based resin, a renewable raw material with 35% less harmful CO2 contribution and 3,800 BTUs p/pound of resin less energy than standard petro chemical based equivalents. NorStone table tops can be used toward LEEDs Material & Resources' Rapidly Renewable Materials category, Bio-Preferred and Greenguard. (Available on 42" diameter only).

Stainless Steel Inlay Top: Durable type 304 stainless steel surface sealed with a specially formulated highly durable Slammer Stone edge. Edges are radiused for safety and pressure fused to the top rendering it permanently non-removable and highly sanitary. 1 1/4" thick edge profile.

Super Slammer Stone Seats: 13" diameter high density colour impregnated compression moulded composite that is highly scratch and stain resistant. Four moulded-in threaded inserts for superior metal-to-metal connection.

(TRA001-004/006-020/023-024/031-033, 050-051) BED CURTAIN - CEILING MOUNTED

R00
2017/10/06

Medi-silverline bedscreen cubicle rails. Code SLCM001 (0826106162)

Natural anodised extruded T4 grade aluminium formed to accommodate bed closure as shown on plan. Complete with 12 double wheeled runners per metre of track, aluminium end caps and wall fixing brackets. Fitted directly to the ceiling grid system and supported by 50x50mm timber supports or by pre-stressed wire attached to the soffit.

Bedscreen Curtains: Medi-Tex PCD20N SABS approved curtains inherent with natural silver nano antimicrobial treatment with a composition of 50% polyester and 50% cotton and a mass of 170grams/m². Finished with a 50mm two string header and R6 Acetyl hooks. Non-iron, non-stain, shrink free, flame retardant, nylon free, fully washable up to 65°C. Mosquito Gauze netting composition to be aluminium thread inserted 2040mm AFFL to underside of ceiling. The height above floor to underside of curtain will be 200mm and the curtain will be 1840mm from underside to mosquito Gauze netting. Curtains standard with a ratio of 1:25 to length of cubicle rail. (NOTA: It is the contractor's responsibility to install additional suspenders to accommodate additional curtain weight)



ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 9880. Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za  HDG			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-G-fittings & fixtures	R00	20080-3-BC010	4	

Track no.- length x breadth x length (see also plan view)

Tra001 – 2650 x 2500 x 2650
 Tra002 – 2650 x 2500
 Tra003 – 1500 x 1550
 Tra004 – 2650 x 2400
 Tra004A– 2440 x 2350
 Tra006 – 2650 x 2500 x 2650
 Tra007 – 2500 X 2650
 Tra008 – 1500 x 1550
 Tra009 – 2650 x 2400
 Tra009A– 2440 x 2350
 Tra009B– 2650 x 2200
 Tra010 – 2650 x 2500 x 2650
 Tra010A– 2440 x 2350
 Tra010B– 2650 x 2200
 Tra010C– 2350 x 2440
 Tra010D– 2350 x 2440
 Tra010E– 2350 x 2440
 Tra010F– 2350 x 2440
 Tra011 – 1500 x 1250
 Tra012 – 1500 x 1250
 Tra013 – 2290 X 1690
 Tra014 – 2290 X 1690

Tra015 – 2850 X 3500
 Tra016 – 2850 X 3500
 Tra017 – 2950 X 3500 X 2950
 Tra018 – 2635 X 1900
 Tra019 – 2635 X 1900
 Tra020 – 2635 X 2000 X 2635
 TRA036 - 3050X2850
 TRA037 - 3050X2850
 TRA050 - 3150X2750
 TRA051 - 3150 X 2750

REVISIONS

0

100-H-External finishes

STATUS	ECDOH FACILITY MAINTENANCE BUFFALO CITYI - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS	PROJECT DATE			
PROJECT TITLE					
		PROJECT NO:			
		20080-3-BC010			
		REV NO:	R00	Date	6-Oct-17

38a Stuart Street
 P.O. Box 782
 HARRISMITH, 9600
 Tel: +27 59 622 3942
 Fax: +27 59 623 0844
 Mobile: 083 272 2503
 E-mail:
 hdg@hdg.co.za



HDG

ECDOH FACILITY MAINTENANCE BUFFALO CITY1 - CLUSTER 3 BISHO HOSPITAL GENERAL BUILDING REFURBISHMENT, UPGRADING & NEW WORKS		38a Stuart Street P.O. Box 762 HARRISMITH, 6800 Tel: +27 58 622 3942 Fax: +27 58 623 0844 Mobile: 083 272 2593 E-mail: hdg@hdg.co.za			
Print Date :	Drawing Description:	Rev. nr. :	Job nr. :	Pages :	
06-Oct-17	100-H-External finishes	R00	20080-3-BC010	1	

P1 Samples - With reference to all items and colour schemes: Samples off all items is to be presented for approval prior to any bulk orders. Please take note that most items will have at least six week delivery period, these approvals will only take place at dates off site meetings, the samples need to be approved well in advance to avoid any delays with lead time on orders. All samples must remain in the sample room for the duration of the contract.

NOTE: As this is a existing building all finishes as indicated is only a guide line, therefore all finishes must be controlled on site to match existing buildings. Any deviations should be approved by the Architect.

P2

Samples - All samples submitted for approval, must be accompanied with the relevant Architects specifications for approval. (extract from specifications)

P3

TRADE NAMES: All materials, fittings and finishes specified may be replaced by equal and approved alternatives.

P4

ROOF INSTALLATION: Sheetting type, sheet fixing, all flashings, valley gutters etc. complete with installation of all must be certified and signed off for functionality and water tightness by sheet manufacture. No construction may commence if any part of installation is in doubt .

P5

H30. GRANO (WOOD FLOAT)

32mm Thick Untinted granolithic finished cement screed with or without falls on concrete surface bed with a wood float finish - all according to Structural Engineer's detail drawings.