



TENDER DOCUMENT

FOR

BID NO: SCMU3-23/24-0790-HO SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)

THREE VOLUME APPROACH:

VOLUME 1 – TENDERING PROCEDURES

VOLUME 2 – RETURNABLE DOCUMENTS

VOLUME 3 – DRAFT CONTRACT

PREPARED FOR:

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BHISHO
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NAME OF SUPPLIER: _____

CRS NUMBER: _____

MARCH 2024

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VOLUME 1: TENDERING PROCEDURES

T1.1: TENDER NOTICE AND INVITATION TO SUPPLIER

**T1.1: TENDER NOTICE AND INVITATION TO SUPPLIER
THE EASTERN CAPE DEPARTMENT OF HEALTH INVITES SUPPLIERS
FOR:**

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Any reference to words “Bid” or Bidder” herein and/or in any other documentation shall be construed to have the same meaning as the words “Supplier” or “Tender”.

The attention of Suppliers is drawn to the eligibility criteria in the table below. Suppliers are required to familiarize themselves thoroughly with the conditions of Supplier as contained in the Supplier Data (T1.2) and the Standard Conditions of Supplier (T1.3) which form part of the Supplier document. Only Suppliers that are responsive to responsiveness criteria contained in the table below are eligible to have their Suppliers evaluated:

<input checked="" type="checkbox"/>	<p><u>Joint ventures are eligible to submit tenders provided that:</u></p> <p>They have a signed joint venture agreement</p>
<input checked="" type="checkbox"/>	<p>Only Suppliers who have access to a suitably qualified and experienced contract manager who will be the single-point of accountability and responsibility for the management of the contract works as described in clause F.2.1.2 shall be eligible to have their Tenders evaluated. <i>Experience must be on Boiler & Calorifier Maintenance or installation.</i></p>
<input checked="" type="checkbox"/>	<p>Only Suppliers who have access to a suitably qualified and experienced contract supervisor as described in clause F.2.1.3 shall be eligible to have their Tenders evaluated. <i>Experience must be on Boiler & Calorifier Maintenance or installation.</i></p>
<input checked="" type="checkbox"/>	<p>Suppliers that are responsive to the criteria stated above shall be evaluated further in accordance with the conditions of Supplier as stipulated in the Tender Data (T1.2) and the Standard Conditions of Tender (as amended), which form part of this Tender document.</p>

Preferences are offered to Suppliers in accordance with the points systems as below:

<input checked="" type="checkbox"/> 80/20 Preference point scoring system

Preference:		Price:	
SPECIFIC GOALS Status Level:	20 Points	Price:	80 Points
Total must equal:	20 Points	Total must equal:	80 Points

a. **AVAILABILITY OF SUPPLIER DOCUMENTS:**

Tender documents may be freely downloaded from Tender portal www.ehealth.gov.za/tenders OR www.etenders.gov.za

A compulsory clarification meeting with the representatives of the Employer will take place as follows:

Date: 5 April 2024
Venue: Johan Tremble Hall
Frere Hospital
East London
Time: 09:00 – 10:00

b. **ENQUIRIES RELATED TO TENDER DOCUMENTS MAY BE ADDRESSED TO:**

Procurement Contact:	Ms. Thabisa Notshe	E-mail	thabisa.notshe@ehealth.gov.za
Tel. No.	040 608 9641		

Prospective bidders are required to seek additional information through inquiries no later than 7 days before the closing date

c. DEPOSIT / RETURN OF TENDER DOCUMENTS:

The closing time and date for submission of Tender is **11:00am** on the **26 April 2024** where Tenders will be opened to the public. The following must be noted by all Suppliers;

- (a) Telegraphic, telephonic, telex, facsimile (faxed), email and late Tenders will not be accepted.
- (b) The requirements for sealing, addressing, delivery, opening and assessment of Tenders are stated in the Tender Data (T1.2)
- (c) All Suppliers must be submitted on the official, hardcopy documents issued with the bid including any addenda issued to prospective Suppliers by the Department.
- (d) Tender documents must be deposited in the Tender box at the address indicated below:

DEPOSITED IN THE TENDER BOX AT:

Department of Health
 Global Life Centre,
 SCM Unit
 c/o Phalo Avenue and R63 (opposite Engen Garage)
 BHISHO

COMPILED BY:

Section	Department	Date
Engineering and Technical Services	Zutari (Pty) Ltd	February 2024

T1.2: TENDER DATA

T1.2: TENDER DATA

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Clause number	
	<p>The conditions of Supplier are the Standard Conditions of Supplier as contained in Annex F of Board Notice 136 of 2015 in Government Gazette No. 38960 of 10 July 2015, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of Suppliers as an Annex to this Tender Data.</p> <p>The Standard Conditions of Supplier make several references to the tender Data for details that apply specifically to this Tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of Supplier. Each item of data given below is cross-referenced to the clause in the Standard Conditions of Supplier to which it mainly applies.</p> <p>The following variations, amendments and additions to the Standard Conditions of Supplier as set out in the Tender Data below shall apply to this Supplier:</p>
F.1.1	<p><i>Add the following:</i></p> <p>The employer is the Eastern Cape Department of Health Global Life Center c/o R63 and Phalo Avenue Bhisho</p>
F.1.2	<p><i>Add the following:</i></p> <p>Tender documents issued by the Employer comprise of:</p> <p><u>Volume 1: Tendering Procedures</u></p> <p>T1.1 Tender Notice and Invitation to Supplier T1.2 Tender Data T1.3 Annex F: CIDB Standard Conditions of Tender</p> <p><u>Volume 2: Returnable Documents</u></p> <p>SBD1 Invitation Bid: Part A and B SBD4 Declaration of Interest SBD6.1 Preference Points Claim Form in Terms of the Preference Regulations 2022 T2.2r Compulsory Enterprise Questionnaire T2.1 List of Returnable Schedules/Documents</p> <p>C1.1a Final Summary Page</p> <p>C2.2: Preliminaries and General & Bills of Quantities T2.2a Resolution of Signatory T2.2b Resolution of Board of Directors to Enter into Consortium or Joint Venture (JV) Agreements T2.2c-1 Schedule of Proposed Subcontractors T2.2c-2 Schedule of Proposed Particulars of Mechanical and Electrical Subcontractors T2.2e Schedule of Proposed Imported Material and Equipment T2.2f Bank Rating T2.2g Specific goals claimed (CIPRO certificate) T2.2n Record of Addenda to Supplier Documents T2.2y Proof of Registration with Centralized Supplier Database T2.2u CIDB grading certificate – Proof of registration T2.2v CIPC – company registration certificate T2.2x References T2.2z Valid Letter of Good Standing</p>

T2.3 Returnable schedules or documents: Annexures related to evaluation.

Annexure A1: Method Statement (Generic)

Annexure A2: Method Statement (Summary Task)

Annexure A3: Method Statement (Programme with Timelines and Resources)

Annexure B1: Key personnel qualifications (Maintenance Manager)

Annexure B2: Key personnel qualifications (Maintenance Supervisor)

Annexure B3: Key personnel qualifications (OHS Safety officer)

Annexure B4: Key personnel qualifications (Skilled installation/maintenance staff)

Annexure B5: Proof of business address

Annexure C1: Key personnel experience (Maintenance Manager)

Annexure C2: Key personnel experience (Maintenance Supervisor)

Annexure C3: Key personnel experience (OHS Safety officer)

Annexure C4: Key personnel experience (Skilled installation/maintenance staff)

Volume 3: The Draft Contract

Part C1: Agreement and Contract data

C1.1: Form of offer and Acceptance

C1.2: Contract Data

C1.3: Fixed Performance Guarantee

C1.4: Agreement in terms of section 37(2) of the OH&S Act (Act no 85 of 1990)

Part C2: Pricing Data

C2.1: Pricing Instructions

C2.2: Bills of Quantities

Part C3: Scope of Works

C3.1: Scope of Works

Part C4: Site Information

C4.1: Site Information as per Scope of Works

F.1.4	<p><i>Add the following:</i></p> <p>The employer's agent:</p> <p>Zutari (Pty) Ltd</p>
F1.6.1	<p><i>Add the following to the clause:</i></p> <p>The Department reserves the right to not accept the tender from the tenderer with the highest number of points, or award any contract.</p>
F1.6.3	<p><i>Add the following:</i></p> <p>A two-stage system will not be followed.</p>
F.2.1	<p><i>Add the following:</i></p> <p>1. Only those Tenderers who satisfy the following eligibility criteria are eligible to submit tenders:</p> <p>a) 1 Tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in ac Contractor grading designation equal to or higher thana Contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations, for Class ME, Grade 5ME PE or 6 ME or higher construction work, are eligible to have their tenders evaluated.</p> <p>b) Joint ventures are eligible to submit tenders provided that:</p> <ul style="list-style-type: none"> ▪ Every member of the joint venture is registered with the CIDB; ▪ The lead partner has a Contractor grading designation in Class ME, Grade 4 ME PE or Grade 5 ME construction work; ▪ The combined Contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal or higher than the a Contractor grading designation determined in accordance with the sum tendered for Class ME, Grade 4 ME PE or Grade 5 ME or higher construction work or a value determined in accordance with Regulations 25 (1B) or 25 (7A) of the Construction Industry Development Regulations; and ▪ The joint venture is registered on Central Supplier Database or proof of application ▪ All members of the joint venture must submit copies of the returnable documentationsor original where it is so stipulated for all members. ▪ In the case of a Partnership/Joint Venture/Consortium the tax clearance must be the Partnership/Joint Venture/Consortium or individual valid tax clearance certificates forall the members of the Partnership/Joint Venture/Consortium. ▪ In the case of a Partnership/Joint Venture/Consortium the CIPRO certificates must besubmitted indicating percentage of ownership for specific goals points scoring, failing which the tenderer will score zero points. ▪ The partner of the JV must be registered with CIDB with a grading that is not lowerthan one level of the required grading.

F2.2	<p>Add the following to the clause:</p> <p>Accept that the Employer will not compensate the Tenderer for any costs incurred in attending briefing session, negotiation meetings or any meeting or interviews in the office of the Employer or Employer's agent (if required).</p>
F.2.7	<p>For particulars regarding a pre-Tender site inspection meeting, see Tender Notice and Invitation to Supplier T1.1</p> <p>“ A compulsory briefing session will be held and no compensation will be paid for attendance at this meeting. Tenderers must be represented by a person who is suitably qualified and experience to comprehend the extent of the work involved and who is at the employ of the prospective tenderer.</p> <p>The tenderer's representative must sign the attendance register in the name of the tendering entity. Addenda will be issue to and tenders will be received only from those tendering entities appearing in the attendance register of the briefing session.”</p>
F.2.12	<p>No alternative tenders are allowed.</p>

F.2.13.2	<p><i>Replace sub-clause F.2.13.2 with the following:</i> Return all returnable documents to the employer after completing them in their entirety by writing in non-erasable ink</p>
F.2.13.3	<p><i>Add the following:</i> Parts of each Supplier offer communicated on paper shall be submitted as an original, plus 0 (nought) copies.</p>
F.2.13.4	<p><i>Add the following:</i> The Supplier shall be signed by a person duly authorized to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation of the joint venture, in the form of a joint venture agreement, in which it is defined precisely the conditions under which the joint venture will function, its period of duration, the persons authorized to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. Failure to provide the joint venture agreement, bound with the Supplier submission, on the date and time of the closing of the bid, shall render the Supplier non-responsive.</p>
F.2.13.5	<p><i>Add the following:</i> The employer's address for delivery of Supplier offers and identification details to be shown on each Supplier offer package are:</p> <p>Location of Supplier box: Department of Health Physical address: Eastern Cape Department of Health Global Life Center, SCM Unit c/o Phalo Avenue and R63 Bhisho</p> <p>Identification details: Tender No. SCMU3-23/24-0790-HO Title of Supplier: SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)</p> <p>Sealed Tender with the identification details on the envelope must be placed in the appropriate official Tender box at the abovementioned address</p>
F.2.13.6	<p><i>Add the following:</i> A two-envelope procedure will not be followed.</p>
F2.13.9	Telephonic, telegraphic, telefax, facsimile or e-mailed tender offers will not be accepted.
F.2.13.10	<p><i>Add the following:</i> By signing the offer part of C1.1 Form of Offer and Acceptance the Supplier declares that all information provided in the Supplier submission is correct and free of misrepresentation.</p>
F.2.15.1	<p><i>Add the following to F.2.15.1:</i> The closing time for submission of Supplier offers is as stated in the Tender Notice and Invitation to Supplier. Telephonic, telegraphic, telex, facsimile or e-mailed Supplier offers will not be accepted.</p>
F.2.16.1	<p><i>Add the following to F.2.16.1:</i> The Supplier offer validity period is 12 weeks.</p>
F.2.17	<p><i>Insert the following at the end of the last sentence of the note:</i> “.....elect to do so, provided that the competitive position of the preferred Supplier is not affected”</p>

	<p>A Supplier may be rejected as non-responsive if the Supplier fails to provide any clarification requested by the employer within the time for submission stated in the employer's written request for such clarification. The clarification of a Supplier offer includes the provision of the priced bills of quantities (Part C2.2: Bills of Quantities).</p>
F.2.18	<p><i>Add the following:</i></p> <p>The tenderer will be required to submit his fully priced Bills of Quantities (complete document inclusive of all parts) together with this tender.</p>
F.3.4	<p><i>Add the following:</i></p> <p>The opening of the tender offers will take place immediately after the closing time of tenders.</p>

F.3.8	<p><i>Add the following:</i></p> <p>Suppliers will be considered non-responsive if, inter alia:</p> <ul style="list-style-type: none"> c) the Supplier has failed to attend the compulsory briefing meeting. d) the Supplier is submitted by Telegraphic, telephonic, telex, facsimile (faxed) or email media or if the Supplier is submitted late. e) the Supplier does not comply with the eligibility criteria listed in F2.1 above; f) The resolution for signatory is not attached to the Supplier submission on a company letterhead. g) the Supplier has failed to fully complete and sign SBD1, SBD4 & the Compulsory Enterprise Questionnaire. Failure to submit the required information shall be subjected to a request from SCM to the bidder to submit the required information within 7 days of the request. Failure to comply with such request will result in the bid being deemed non-responsive
F.3.11.1	<p><i>Add the following:</i></p> <p>This is a two-stage evaluation process:</p> <ul style="list-style-type: none"> Stage 1: Administrative compliance and mandatory requirements Stage 2: Evaluation for price and preference <p>The following procedure will be used to evaluate tender offers received:</p> <ul style="list-style-type: none"> a) Open and record tender offers received b) Determine whether or not tender offers are complete. c) Determine whether or not tender offers received are responsive, and reject non-responsive tenders. d) Score tender evaluation points for each price e) Confirm that tenderers are eligible for the preferences claimed and, if so, score tender evaluation points for preferencing. f) Calculate total tender evaluation points g) Rank tender offers from the highest number of tender evaluation points to the lowest. h) Perform a risk analysis on the tenderer having the highest ranking/number of points to ascertain if the submission presents an acceptable risk to the employer. i) Recommend the tenderer with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so. j) In the event where the recommended Bidder has failed to comply with the conditions as set out in the letter of award, the client shall notify the recommended Bidder of his/her failure to comply and recommend for award the next bidder that scored the highest points. The Conditions as set out in the letter of award are as follow: <ul style="list-style-type: none"> 1. Proof of having All risk, public liability and support insurances as stipulated in the contract. 2. Submission of a Construction Safety, Health and Environmental Plan. 3. Contract Guarantee (as selected in the tender document) k) An appointment letter/acceptance letter does not constitute a contract or commencement date of a contract. The recommended Bidder is required to sign an official contract with the Department. <p>The Employer shall in the evaluation of tender offers take due account of the Tenderer's past performance in the execution of similar engineering works of comparable magnitude, and the degree to which possesses the necessary technical, financial and other resources to enable him to complete the Works successfully with the contract period. The tenderer shall be required to satisfy the Employer and the Engineer as to his ability to perform and complete the Works timeously, safely and with satisfactory quality, and furnish details in section T2.2z of contracts of a similar nature and magnitude which they have successfully executed in the past.</p>

The Employer is restricted in accordance with clause 7.(c)(iii) of the Construction Regulations, 2014, to only appoint a contractor to whom he is satisfied has the necessary competencies and resource to carry out the work safely.

Submitting inferior and inadequate information relating to health and safety shall be regarded as justifiable and compelling reasons not to accept the tender offer of the tenderer scoring the highest number of tender evaluation points.

F.3.11.3	<p>The procedure for the evaluation of responsive tenders is Method 3: Administrative compliance, Price and Specific Goals</p> <p><u>Equipment Functionality – Technical Compliance Verification</u></p> <p>The bidder is required to provide details pertaining to boiler and calorifier equipment maintenance experience as detailed in the specifications. The compliance of the equipment with the scope of work and specification will be evaluated.</p>
F.3.11.7	<p><i>Add the following:</i></p> <p>The financial offer will be scored using Formula 2 (Option 1):</p> $N_{FO} = (1 - (P - P_M) / P_M) \times W_1$ <p>Where.</p> <p>N_{FO} = number of Supplier evaluation points awarded for financial offer W_1 = the maximum possible number of Supplier evaluation points Tender P_M = the comparative offer of the most favorable Supplier offer P = the comparative offer of the Supplier offer under consideration</p>
F.3.11.8	<p>Up to 100 minus W_1 (refer F.3.11.7 above) Supplier evaluation points will be awarded to Suppliers according to their SPECIFIC GOALS status level, determined in accordance with section 9(1) of the Broad-Based Black Economic Empowerment Act (No 53 of 2003), and who have submitted original valid or valid, certified copies of SPECIFIC GOALS status verification certificates issued by either a verification agency accredited by the South African Accreditation System (SANAS) or a sworn affidavit in terms of the amended SPECIFIC GOALS codes. The points will be awarded as follows, based on the SPECIFIC GOALS status level of the Supplier:</p>

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Historically Disadvantaged Individuals Ownership	20% (4)	
Women Ownership	20% (4)	
Youth Ownership	20% (4)	
Disability Ownership	20% (4)	
Military Veterans Ownership	10% (2)	
Locality Ownership (Eastern Cape)	10% (2)	
TOTAL	100% (20)	
<p>A trust, consortium or joint venture will qualify for points for their SPECIFIC GOALS status level as a legal entity, provided that the entity submits their SPECIFIC GOALS status level certificate. A trust, consortium or joint venture will qualify for points for their SPECIFIC GOALS status level as an unincorporated entity, provided that the entity submits their consolidated SPECIFIC GOALS scorecard as if they were a group</p>		

<p>Bank Rating Certificate</p> <p>Annexure F as per returnable list</p>	<p>Bank rating of A: Undoubted for the amount of enquiry – Good to do business with</p>	<p>Annexure F as per returnable list Bank rating certificate issued by the bank.</p>
	<p>Bank rating of B: Good for the amount of the enquiry – Amount is well within the capacity of ordinary business commitments</p>	<p>Annexure F as per returnable list Bank rating certificate issued by the bank.</p>
	<p>Bank rating of C: Good for amount quoted if strictly in the way of business – Unlikely to commit themselves beyond their means</p>	<p>Annexure F as per returnable list Bank rating certificate issued by the bank.</p>

F.3.11.10	<p><i>Add the following new sub-clause:</i></p> <p>The Employer will perform a risk analysis in respect of the following:</p> <ul style="list-style-type: none"> a) reasonableness of the financial offer b) reasonableness of unit rates and prices c) the Suppliers ability to fulfil its obligations in terms of the tender document, that is, that the Supplier can demonstrate that he/she possesses the necessary professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience, reputation, personnel to perform the contract, etc.
F.3.13.1	<p>Supplier offers will only be accepted if:</p> <ul style="list-style-type: none"> a) the Supplier is registered and in good standing with the South African Revenue Service (SARS) or proof that he or she has made arrangement with SARS to meet his or her outstanding tax obligations. This will be verified by the Employer on the Centralized Supplier Database. Where the recommended bidder is not tax compliant, the bidder will be notified of the non-compliant status and be granted seven (7) working days to rectify their compliance status with the SARS. The bidder must thereafter provide the Department with proof of its tax compliance which must be verified via the CSD or eFiling. b) the Supplier or any of its directors is not listed on the Register of Supplier Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; c) the Supplier or any of its directors is not listed on the Database of Restricted Suppliers kept by the National Treasury and updated from time to time; <ul style="list-style-type: none"> a) the Supplier has not: <ul style="list-style-type: none"> abused the Employer's Supply Chain Management System; b) The Supplier has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the Supplier's ability to perform the contract in the best interests of the employer or potentially compromise the Supplier process.
F.3.17	<p><i>Add the following:</i></p> <p>The number of paper copies of the signed contract to be provided by the Employer is one.</p>

F.4	<p>ADDITIONAL CONDITIONS OF TENDER</p> <p>The additional conditions of Tender are:</p>
F.4.1	<p>Invalid Tender</p> <p>Suppliers shall be considered invalid and shall be endorsed and recorded as such in the Supplier opening record, by the responsible official who opened the Tender, in the following circumstances:</p> <ol style="list-style-type: none"> 1) if the Supplier offer is not submitted on the Form of Offer and Acceptance bound into this Tender document (form C1.1, Part C1: Agreements and Contract Data); 2) if the Form of Offer and Acceptance has not been completed or has not been signed by the authorized representative of the Supplier 3) if the Form of Offer and Acceptance is signed, but the name of the Supplier is not stated or is indecipherable. 4) if the Supplier offer is not completed in non-erasable ink;
F.4.2	<p>Negotiations with preferred Suppliers</p> <p>The Employer may negotiate the final terms of a contract with Suppliers identified through a competitive Supplying process as preferred Suppliers provided that such negotiation:</p> <ol style="list-style-type: none"> (b) does not allow any preferred Supplier a second or unfair opportunity; (c) is not to the detriment of any other Supplier; and (d) does not lead to a higher price than the Supplier as submitted. <p>Minutes of any such negotiations shall be kept for record purposes</p>
F.4.3	<p>General supply chain management conditions applicable to Supplier</p> <p>In terms of its Supply Chain Management Policy the Employer may not consider a Supplier unless the provider who submitted the Supplier:</p> <ol style="list-style-type: none"> 1. has furnished the Employer with that provider's: <ul style="list-style-type: none"> • full name; • identification number or company or other registration number; and • tax reference number and VAT registration number, if any; 2. has indicated whether: <ul style="list-style-type: none"> • the provider is in the service of the state, or has been in the service of the state in the previous twelve months; • the provider is not a natural person, whether any of the directors, managers, principal shareholders or stakeholders is in the service of the state, or has been in the service of the state in the previous twelve months; or • whether a spouse, child or parent of the provider or of a director, manager, shareholder or stakeholder referred to above is in the service of the state, or has been in the service of the state in the previous twelve months. <p>Irrespective of the procurement process followed, the Employer is prohibited from making an award to:</p> <ul style="list-style-type: none"> • a person who is in the service of the state; • a juristic entity of which any director, manager, principal shareholder or stakeholder is in the service of the state; • an advisor or consultant contracted with the Employer; or • a person, advisor or corporate entity involved with the tender specification committee, or a director of such corporate entity. <p>In this regard, Suppliers shall complete Returnable Schedules: Compulsory Enterprise Questionnaire. Failure to complete this schedule will result in the Supplier not being considered further.</p>

F.4.4	<p>Combating abuse of the Supply Chain Management Policy</p> <p>In terms of the its Supply Chain Management Policy, the Employer may reject the Supplier of any Supplier if that Supplier or any of its directors has:</p> <ol style="list-style-type: none"> 1. failed, during the last five years, to perform satisfactorily on a previous contract with the Employer or any other organ of state after written notice was given to that Supplier that performance was unsatisfactory; 2. abused the supply chain management system of the Employer or has committed any improper conduct in relation to this system; 3. been convicted of fraud or corruption during the past five years; 4. will fully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or 5. been listed with the Register of Supplier Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or has been listed on National Treasury’s database as a person or juristic entity prohibited from doing business with the public sector. <p>In this regard, Suppliers shall complete Part T2.2: Returnable Schedules: Certificate of Independent Supplier Determination and Declaration of Supplier’s Past Supply Chain Management Practices. Failure to complete these schedules will result in the Supplier not being considered further.</p>
F.4.6	<p>Claims arising after submission of Supplier</p> <p>No claim for any extras arising out of any doubt or obscurity as to the true intent and meaning of anything contained in the Conditions of Contract, Scope of Work and Pricing Data, will be admitted by the Employer after the submission of any Tender and the Supplier shall be deemed to have:</p> <ul style="list-style-type: none"> • read and fully understood the whole text of the Contract Data, Scope of Work and Pricing Data and thoroughly acquainted himself with the nature of the works proposed and generally of all matters which may influence the Contract. • visited the site of any proposed works. • requested the Employer or his duly authorized agent to make clear the actual requirements of anything contained in the Scope of Work and Pricing Data, the exact meaning or interpretation of which is not clearly intelligible to the Supplier. • received any Addenda to the Supplier documents which have been issued in accordance with the Employer’s Supply Chain Management Policy. <p>Before submission of any Supplier, the Supplier should check the number of pages, and if any are found to be missing or duplicated, or the figures or writing indistinct, or if the Pricing Data contain any obvious errors, the Supplier must apply to the Employer’s Agent at once to have the same rectified, as no liability will be admitted by the Employer in respect of errors in any Supplier due to the foregoing.</p>
F.4.7	<p>Imbalance in Supplier rates</p> <p>In the event of Supplier rates or lump sums being declared by the Employer to be unacceptable to it because they are either excessively low or high or not in proper balance with other rates or lump sums, the Supplier may be required to produce evidence and advance arguments in support of the Supplier rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the supplied rates or lump sums objected to, it may request the Supplier to amend these rates and lump sums along the lines indicated by it.</p>

	<p>The Supplier will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the Employer, but this shall be done without altering the Supplier offer as Supplied or, if applicable, the corrected total of prices in accordance with F.3.9.3. Should the Supplier fail to amend his tender in a manner acceptable to the Employer, the Employer may reject the Tender.</p>
F.4.8	<p>The Employer shall not formally issue Tender documents in electronic format as contemplated in F.2.13.2 and F.2.13.3 and shall only issue Supplier documents in hardcopy. An electronic version of the issued Tender documents may be made available to the Supplier, upon written request in terms of this clause, subject to the following:</p> <p>(a) Electronic copies of the contract document, or parts thereof, will only be provided to Suppliers who have been issued with the Tender documents as contemplated in F.1.2 in hardcopy.</p> <ul style="list-style-type: none"> • The electronic version shall not be regarded as a substitute for the issued Tender documents. • The Employer shall not accept tender submitted in electronic format. Suppliers may not complete and submit a printed copy of the electronic version of the Tender document or part thereof. Only those Suppliers that have been completed on the issued hard copy Tender document shall be considered. • The Employer accepts no responsibility or liability arising from any reliance on or use of the electronic version provided in terms of this clause. The Employer further does not guarantee that the electronic version corresponds with the issued Tender documents in all respects. Suppliers are alerted to the fact that electronic versions of the Tender documents may not reflect any notices or addenda that amend the Tender document. • Any non-compliance with these provisions, including effecting any unauthorized alterations to the Supplier document as contemplated in F.2.11, shall render the Tender invalid. The Employer reserves the right to take any action against such Supplier allowed in law including, in circumstances where the Supplier had already been awarded, the right to cancel the contract. • In requesting the electronic version of the Tender document or parts thereof, the Supplier is deemed to have read, understood and accepted all of the above conditions.

VOLUME 2: RETURNABLE DOCUMENTS

T2.1 LIST OF RETURNABLE DOCUMENTS

T2.1: LIST OF RETURNABLE SCHEDULES/DOCUMENTS

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

T2.2: RETURNABLE SCHEDULES REQUIRED FOR SUPPLIER EVALUATION PURPOSES

	Returnable Documents	Number of pages issued	Returnable Document
SBD 1	Invitation to Bid: Part A and B	2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SBD 4	Declaration of Interest	2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SBD 6.1	Preference Points Claim Form In Terms Of The Preferential Procurement Regulations 2022	4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2r	Compulsory Enterprise Questionnaire	3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.1	List of Returnable Schedules/Documents	2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C1.1a	Final Summary Page	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C2.2	Fixed Charge and Value related Items Applicable to All Work & Bill of Quantities	42	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2a	Resolution for Signatory	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2b	Resolution of Board of Directors to Enter into Consortium or Joint Venture (JV) Agreements	2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2c-1	Schedule of Proposed Subcontractors	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2e	Schedule of Imported Material and Equipment	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2f	Rank Rating	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2v	Specific goals claimed (CIPRO certificate)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2n	Record of Addenda to Supplier Documents	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2z	Valid Letter of Good Standing	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

T2.2: OTHER DOCUMENTS REQUIRED FOR SUPPLIER EVALUATION PURPOSES

No.	Returnable Documents	Number of pages issued	Returnable Document
Annexure A1	Method Statement (Generic)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure A2	Method Statement (Summary Tasks)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure A3	Method Statement (Programme with Timelines and planned Resources)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure B1	Key Personnel qualification (Maintenance manager)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure B2	Key Personnel qualification (Maintenance supervisor)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure B3	Key Personnel qualification (OHS Safety officer)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure B4	Key Personnel qualification (Skilled installation/maintenance staff)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure B5	Proof of Business address	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annexure B6	Company Experience	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2g	Specific Goals claimed (Cipro Certificate)	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2y	Proof of Registration with Centralized Supplier Database	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2v	CIPC – company registration certificate	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2x	References	4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.3	Returnable schedules or documents		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

(The following list of returnable schedules/documents is duplicated from the tables above however these will not appear in duplicate within the Tender document. The purpose is to bring to the Suppliers' attention the list of returnable documents/schedules that shall be incorporated into the contract)

T2.2: OTHER DOCUMENTS REQUIRED TENDER EVALUATION PURPOSES

No.	Returnable Documents	Number of pages issued	Returnable Document
T2.2n	Record of Addenda to Supplier Documents	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
T2.2ee	Schedule of Key Personnel: Contract Supervisor	1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
SBD 6.1	Preference Points Claim Form In Terms Of The Preferential Procurement Regulations 2022	4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

T2.2: OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

No.	Returnable Documents	Number of pages issued	Returnable Document
C1.1	Form of Offer and Acceptance	2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C1.2	Contract Data	7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C2.2	Fixed Charge and Value related Items Applicable to All Work & Bill of Quantities & Final Summary		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**T2.2: RETURNABLE SCHEDULES
REQUIRED FOR SUPPLIER
EVALUATION PURPOSES**

T2.2a: RESOLUTION FOR SIGNATORY

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

MUST BE ON COMPANY LETTERHEAD**A: CERTIFICATE OF AUTHORITY FOR SIGNATORY**

Signatory for companies shall confirm their authority hereto by attaching a duly signed and dated copy of the relevant resolution of the board of directors to this form. This must be on a company letterhead.

An example is given below:

“By resolution of the board of directors passed at a meeting held on _____

Mr/Ms _____, whose signature appears below, has been duly authorized to

sign all documents in connection with the Supplier for Contract No. _____

and any Contract which may arise there from on behalf of (Block Capitals) _____

SIGNED ON BEHALF OF THE COMPANY: _____

IN HIS/HER CAPACITY AS: _____

DATE: _____

SIGNATURE OF SIGNATORY: _____

WITNESSES: _____ SIGNATURE: _____ SIGNATURE: _

T2.2b: RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER 1 – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS))
TENDER No.	SCMU3-23/24-0790-HO

RESOLUTION of a meeting of the Board of *Directors / Members / Partners of:

(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at _____ (place)

On _____ (date)

RESOLVED that:

i) The Enterprise submit a Bid /Supplier, in consortium/Joint Venture with the following Enterprises:

(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

to the Eastern Cape Department of Health in respect of the following project:

(Project description as per Bid /Supplier Document)

Bid Number: _____ (Bid Number as per Document)

ii) *Mr./Mrs./Ms:

in *his/her Capacity as: _____ (Position in the Enterprise)

and who will sign as follows: _____

be, and is hereby, authorized to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

iii) The Enterprise accepts joint and several liability with the parties listed under item 1 for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.

iv) The Enterprise chooses as its domicilium citandi et executandi for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address: _____

 _____ Postal Code _____

Postal Address: _____

 _____ Postal Code _____

Telephone number: _____

Fax number: _____

	NAME	CAPACITY	SIGNATURE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

<p>Note:</p> <ol style="list-style-type: none"> 1. * Delete which is not applicable 2. NB. This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise 3. Should the number of Directors / Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page 	<p>ENTERPRISE STAMP</p>
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T2.2c-1: SCHEDULE OF PROPOSED SUBCONTRACTORS

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

<p>We notify you that it is our intention to employ the following subcontractors for work in this contract.</p> <p>If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.</p>				
	Name and address of proposed Subcontractor	Nature and extent of work	Value of Work	Subcontractor CIDB grading
1.				
2.				
3.				

Signed Date

Name Position

Supplier

T2.2ee: SCHEDULE OF KEY PERSONNEL

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

The Supplier is referred to clause F.2.1.3 of the Tender Data and shall insert in the spaces provided below details of the key personnel required to be in the employment of the Supplier or a specialist consultant/firm, in order for the Supplier to be eligible to submit a Tender for this project. The Curriculum Vitae of the individual must be appended to this schedule.

Notwithstanding having appended the Curriculum Vitae of the key personnel to this schedule, the Supplier must **also** append to this schedule in terms of clause F.2.1.3, a statement for the individual identified, which indicates any field(s) of specialization and any recent experience that is relevant to this particular project (which may or may not have formed part of the individual’s CV). Suppliers should indicate what particular aspect of the project the specialization or experience is relevant to.

Name	Qualifications	No. of Years Specified Experience

Signed _____ Date _____

Name _____ Position _____

Supplier _____

T2.2f: BANK RATING

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers must submit a bank rating from a recognized financial institution as required in clause F.2.1.4 of the Tender Data. The bank rating must be attached to this schedule. Failure to comply with the requirements of F.2.1.4 shall result in the Tender not being evaluated further.

Minimum of Grade C bank required - Good for amount quoted if strictly in the way of business – Unlikely to commit themselves beyond their means.

Signed _____ Date _____

Name _____ Position _____

Supplier _____

T2.2n: RECORD OF ADDENDA TO SUPPLIER DOCUMENTS

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

We confirm that the following communications received from the Employer before the submission of this Supplier offer, amending the Tender documents, have been taken into account in this Supplier offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed..... Date

Name..... Position

Supplier

*This document must form part of the returnable schedules as it is referenced in the offer portion of the Form of Offer and Acceptance.

T2.2r: COMPULSORY ENTERPRISE QUESTIONNAIRE

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number:

Section 3: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

Section 5: Particulars of companies and close corporations

Company registration number

Close corporation number

Tax reference number

Section 6: Record of service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months in the service of any of the following:

1 a member of any municipal council	Y an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999)
2 a member of any provincial legislature	Y a member of an accounting authority of any national or provincial public entity
Y a member of the National Assembly or the National Council of Province	Y an employee of Parliament or a provincial legislature
3 a member of the board of directors of any municipal entity	
4 an official of any municipality or municipal entity	

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, manager, shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*insert separate page if necessary

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

- | | |
|---|--|
| <ul style="list-style-type: none"> 2 a member of any municipal council 3 a member of any provincial legislature 4 a member of the National Assembly or the National Council of Province 5 a member of the board of directors of any municipal entity 6 an official of any municipality or municipal entity | <ul style="list-style-type: none"> 3 an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) 4 a member of an accounting authority of any national or provincial public entity 5 an employee of Parliament or a provincial legislature |
|---|--|

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		current	Within last 12 months

*insert separate page if necessary

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the enterprise:

1. authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
 2. confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Supplier Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;
 3. confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
 4. confirms that I / we are not associated, linked or involved with any other Tendering entities submitting Supplier offers and have no other relationship with any of the Suppliers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest;
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed..... Date

Name..... Position

Enterprise
name

* The schedule should be used where Suppliers are subject to the Local Government: Municipal Finance Management Act

T2.2v: CIPC – Company registration certificate

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Tenderer to submit necessary company registration certificate.

T2.2z: Valid Letter of Good Standing

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Tenderer to submit valid and up to date Letter of Good Standing certificate relevant to their services (COIDA)

SBD 1: INVITATION TO BID – PART A

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE EC DEPARTMENT OF HEALTH			
BID NUMBER:	SCMU3-23/24-0790-HO	CLOSING DATE:	26 April 2024
		CLOSING TIME:	11:00
DESCRIPTION	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)		
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).			
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)			
Tender Box Department of Health Global Life Centre SCM Unit c/o Phalo Avenue and R63 (opposite Engen Garage) Bhisho			
SUPPLIER INFORMATION			
NAME OF BIDDER			
POSTAL ADDRESS			
STREET ADDRESS			
TELEPHONE NUMBER	CODE		NUMBER
CELLPHONE NUMBER			
FACSIMILE NUMBER	CODE		NUMBER
E-MAIL ADDRESS			
VAT REGISTRATION NUMBER			
	TCS PIN:		OR CSD No:
SPECIFIC GOALS STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes <input type="checkbox"/> No		SPECIFIC GOALS STATUS LEVEL SWORN AFFIDAVIT <input type="checkbox"/> Yes <input type="checkbox"/> No
IF YES, WHO WAS THE CERTIFICATE ISSUED BY?			
AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA) AND NAME THE APPLICABLE IN THE TICK BOX	<input type="checkbox"/>	AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA)	
	<input type="checkbox"/>	A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS)	
	<input type="checkbox"/>	A REGISTERED AUDITOR	
		NAME:	
[A SPECIFIC GOALS STATUS LEVEL VERIFICATION CERTIFICATE/SWORN AFFIDAVIT(FOR EMEs& QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR SPECIFIC GOALS]			
I. ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	II. ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ANSWER PART B:3 BELOW]
III. SIGNATURE OF BIDDER	.....	IV. DATE	
V. CAPACITY UNDER WHICH THIS BID IS SIGNED (Attach proof of authority to sign this bid; e.g. resolution of directors, etc.)			
VI. TOTAL NUMBER OF ITEMS OFFERED		VII. TOTAL BID PRICE (ALL INCLUSIVE)	
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT	ECDOH	CONTACT PERSON	Thabisa Notshe
CONTACT PERSON	Ms Thabisa Notshe	TELEPHONE NUMBER	040 608 9641
TELEPHONE NUMBER	040-608 9641	FACSIMILE NUMBER	
FACSIMILE NUMBER		E-MAIL ADDRESS	thabisa.notshe@ehealth.gov.za
E-MAIL ADDRESS	thabisa.notshe@ehealth.gov.za		

PART B
TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:	
3.1	BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
3.2	ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED—(NOT TO BE RE-TYPED) OR ONLINE
3.3	SUPPLIERS MUST REGISTER ON THE CENTRAL SUPPLIER DATABASE (CSD) TO UPLOAD MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS; AND BANKING INFORMATION FOR VERIFICATION PURPOSES). SPECIFIC GOALS CERTIFICATE OR SWORN AFFIDAVIT FOR SPECIFIC GOALS MUST BE SUBMITTED TO BIDDING INSTITUTION.
3.4	WHERE A BIDDER IS NOT REGISTERED ON THE CSD, MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS) MAY NOT BE SUBMITTED WITH THE BID DOCUMENTATION. SPECIFIC GOALS CERTIFICATE OR SWORN AFFIDAVIT FOR SPECIFIC GOALS MUST BE SUBMITTED TO BIDDING INSTITUTION.
3.5	THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER LEGISLATION OR SPECIAL CONDITIONS OF CONTRACT.
2. TAX COMPLIANCE REQUIREMENTS	
	<ul style="list-style-type: none"> • SUPPLIERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS. • SUPPLIERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS. • APPLICATION FOR TAX COMPLIANCE STATUS (TCS) OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA. • SUPPLIERS MAY ALSO SUBMIT A PRINTED TCS TOGETHER WITH THE BID. • IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-SUPPLIERS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE PROOF OF TCS / PIN / CSD NUMBER. • WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS	
3.4	IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.5	DOES THE BIDDER HAVE A BRANCH IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.6	DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.7	DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
<p>IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN, IT IS NOT A REQUIREMENT TO OBTAIN A TAX COMPLIANCE STATUS / TAX COMPLIANCE SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.</p>	

SBD 4: DECLARATION OF INTEREST

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

BIDDER’S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder’s declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise?

Employed by the state?

YES/NO

- If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of soleproprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest inthe enterprise, in table below.

Full Name	Identity Number	Name of institution	State

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

- If so, furnish particulars:

(a) DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- I have read and I understand the contents of this disclosure;
- I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture orconsortium will not be construed as collusive bidding.
- In addition, there have been no consultations, communications, agreements or arrangements with any competitor

(a) the power, by one person or a group of persons holding the majority of the equity of anenterprise, alternatively, the person/s having the deciding vote or power to influence orto direct the course and decisions of the enterprise.

(b) Joint venture or Consortium means an association of persons for the purpose of combiningtheir expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

- 3.1. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.2. There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.3. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.
 I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

4 GENERAL CONDITIONS

4.1. The following preference point systems are applicable to invitations to tender:

- (a) the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- (b) the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

4.2. **To be completed by the organ of state**

(delete whichever is not applicable for this tender).

The applicable preference point system for this tender is the **80/20** preference point system.

The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

4.3. Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- a) Price; and
- b) Specific Goals.

4.4. **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

4.5. Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

4.6. The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

5 DEFINITIONS

4 “**tender**” means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;

5 “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;

6 “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation,

and includes all applicable taxes;

- 7 “tender for income-generating contracts” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- 8 “the Act” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

6 **FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES**

• **POINTS AWARDED FOR PRICE**

• **THE 80/20 PREFERENCE POINT SYSTEMS**

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

$$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where

- P_s = Points scored for price of tender under consideration
- P_t = Price of tender under consideration
- P_{min} = Price of lowest acceptable tender

• **FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOMEGENERATING PROCUREMENT**

3.2.1. **POINTS AWARDED FOR PRICE**

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20

$$P_s = 80 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right)$$

Where

- P_s = Points scored for price of tender under consideration
- P_t = Price of tender under consideration
- P_{max} = Price of highest acceptable tender

7 **POINTS AWARDED FOR SPECIFIC GOALS**

- In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
 - an invitation for tender for income-generating contracts, that either the 80/20 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - any other invitation for tender, that either the 80/20 preference point system will apply and that the

lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Historically Disadvantaged Individuals Ownership	20% (4)	
Women Ownership	20% (4)	
Youth Ownership	20% (4)	
Disability Ownership	20% (4)	
Military Veterans Ownership	10% (2)	
Locality Ownership (Eastern Cape)	10% (2)	
TOTAL	100% (20)	

1. Service providers must submit proof of its Specific Goals points claimed / status of contributor.

2. The Specific Goals supporting documents required to verify claimed points may inline with the specified requirements include:

- Historically Disadvantaged Individuals Ownership: Proof of ownership (CIPRO certificate) with id no.
- Women Ownership: Ownership: Proof of ownership (CIPRO certificate) with id no.
- Youth Ownership: Ownership: Proof of ownership (CIPRO certificate) with id no.
- Disability Ownership: Proof of ownership (CIPRO certificate) with valid medical documentary proof.
- Military Veterans Ownership: Proof of ownership (CIPRO certificate) with valid proof of veteran status.
- Ownership: Proof of business address (municipal account or valid lease agreement)
 - Updated CSD report

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

• TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety
- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company
- State Owned Company

[TICK APPLICABLE BOX]

- I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed,

based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- The information furnished is true and correct;
- The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have -
 - disqualify the person from the tendering process;
 - recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF BIDDER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

**T2.2: OTHER DOCUMENTS REQUIRED
FOR TENDER EVALUATION PURPOSES**

T2.2g: SPECIFIC GOALS CLAIMED (CIPRO CERTIFICATE)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers must attach CIPRO CERTIFICATE.

T2.2y: Proof of Registration with Centralized Supplier Database

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers must attach Full CSD report.

Annexure A1: Method Statement (Generic)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit a method statement.

Annexure A2: Method Statement (Summary Task)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit a summary task. The summary task must indicate the major tasks and subtasks of the works. Contractor must indicate how they would approach the works to achieve the required outcomes from start to end of the project.

Annexure A3: Method Statement (Programme with Timelines and Resources)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit Programme with timelines such as a Gantt Chart (quarterly and biannual inspections) and planned resources (human resources and tools).

Annexure B1: Key Personnel Qualification (Maintenance manager)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit proof of maintenance manager's experience (CV) and qualifications. All certified documents must not be older than three (3) months.

Maintenance Manager Mechanical/Electrical Engineering, Construction Project Management	Electrical / Mechanical Engineering Degree with Registration as per Act 43 of 2000 (Candidate Registration will not be accepted)	Attached certified copies of qualification
	OR	
	Electrical / Mechanical Engineering Diploma with Registration as per Act 43 of 2000 (Candidate Registration will not be accepted)	Attached certified copies of qualification
	OR	
	Trade certificate (Issued by the Department of Labour)	Attach certified copies

Annexure B2: Key Personnel Qualification (Maintenance supervisor)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit proof of maintenance supervisor's experience (CV) and qualifications.

All certified documents must not be older than three (3) months.

Maintenance Supervisor Mech./Elect. Engineering, Construction Project Management	Electrical or Mechanical Engineering Diploma WITH minimum one year post qualification experience on boiler maintenance or installation.	Attached certified copies of qualification
	OR Trade certificate (Issued by the Department of Labour), or higher qualification WITH minimum one year post qualification experience on boiler maintenance or installation.	Attached certified copies of qualification

Annexure B3: Key Personnel Qualification (OHS Safety officer)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit proof of OHS safety officer's experience (CV) and qualifications. All certified documents must not be older than three (3) months.

Annexure B4: Key Personnel Qualification (Skilled installation/maintenance Staff)

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit proof of Skilled installation/maintenance staff experience (CV) and qualifications. All certified documents must not be older than three (3) months.

Annexure B5: Proof of Business Address

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit proof of business address (municipal account or valid lease agreement not later than 3 months). All certified documents must not be older than three (3) months

Annexure B6: Company Experience

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Suppliers are required to submit proof of company experience in the field of boiler maintenance or installation.

T2.2x References

Bidders must provide references demonstrating their ability to undertake projects similar in scale and complexity to those outlined in this tender document, meeting or surpassing the CIDB grading specified.

Reference No. 1

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Sir/Madam,

We are in the process of evaluating _____ for the above project.

They have listed you as a reference. Please evaluate the Suppliers performance on the criteria listed below by ticking the appropriate boxes. Please return upon completion as soon as possible. If you have any questions, please do not hesitate to contact us.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK

1. QUALITY

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

2. TIME PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

3. FINANCIAL PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

4. COMMENTS:

Project Manager/Principal Agent: _____

Tel. No: _____

E-mail Address: _____

Signature: _____ Date: _____

Place Company Stamp Here

Reference No. 2

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Sir/Madam,

We are in the process of evaluating _____ for the above project.

They have listed you as a reference. Please evaluate the Suppliers performance on the criteria listed below by ticking the appropriate boxes. Please return upon completion as soon as possible. If you have any questions please do not hesitate to contact us.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK

1. QUALITY

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

2. TIME PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

3. FINANCIAL PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

4. COMMENTS:

Project Manager/Principal Agent: _____

Tel. No: _____

E-mail Address: _____

Signature: _____ Date: _____

<p>Place Company Stamp Here</p>
--

Reference No. 3

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Sir/Madam,

We are in the process of evaluating _____ for the above project.

They have listed you as a reference. Please evaluate the Suppliers performance on the criteria listed below by ticking the appropriate boxes. Please return upon completion as soon as possible. If you have any questions please do not hesitate to contact us.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK

1. QUALITY

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

2. TIME PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

3. FINANCIAL PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

4. COMMENTS:

Project Manager/Principal Agent: _____

Tel. No: _____

E-mail Address: _____

Signature: _____ Date: _____

<p>Place Company Stamp Here</p>
--

Reference No. 4

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Sir/Madam,

We are in the process of evaluating _____ for the above project.

They have listed you as a reference. Please evaluate the Suppliers performance on the criteria listed below by ticking the appropriate boxes. Please return upon completion as soon as possible. If you have any questions please do not hesitate to contact us.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK

- QUALITY

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

- TIME PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

- FINANCIAL PERFORMANCE

EXCELLENT	VERY GOOD	GOOD	FAIR	POOR
5	4	3	2	1

- COMMENTS:

Project Manager/Principal Agent: _____

Tel. No: _____

E-mail Address: _____

Signature: _____ Date: _____

<p>Place Company Stamp Here</p>
--

VOLUME 3: CONTRACT

PART C1: AGREEMENT AND CONTRACT DATA

C1.1 FORM OF OFFER AND ACCEPTANCE

OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a Contract for the procurement of:

CONTRACT NUMBER: **SCMU3-23/24-0790-HO**

CONTRACT NAME: SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)

The Tenderer, identified in the offer signature block below, has examined the documents listed in the Tender Data and addenda thereto as listed in the tender schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

The offered total of the prices inclusive of Value-Added Tax is:

.....
.....
..... Rand (in words)
R (in figures)

This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in terms of the Conditions of Contract identified in the Contract data.

For and on behalf of the Tenderer:

Name
Capacity
Signature Date:

Name and address of tenderer:
.....
.....
.....

Witness Name
Witness Signature Date:

ACCEPTANCE

By signing this part of this form of offer and acceptance, the Employer identified below accepts the Tenderer’s offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the Conditions of Contract identified in the Contract data. Acceptance of the Tenderer’s offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this agreement and in the Contract that is the subject of this agreement.

The terms of the Contract are contained in:

- Part C1: Agreements and Contract data (which includes this agreement)
- Part C2: Pricing data
- Part C3: Scope of work
- Part C4: Site Information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto, as listed in the returnable schedules as well as any changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule, which must be duly signed by the authorised representative(s) of both parties.

The Tenderer shall, within two weeks after receiving a completed copy of this agreement including the schedule of deviation (if any), contact the Employer’s Agent (whose details are given in the Contract data) to arrange the delivery of any securities, bonds, guarantees, proof insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract data at or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the Tenderer (now Contractor), within five (5) working days of the date of such receipt, notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding Contract between the parties.

For and on behalf of the Employer:

Name
 Capacity
 Signature Date:

Name and address of employer:

Witness Name
 Witness Signature Date:

SCHEDULE OF DEVIATIONS

Notes:

- The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the conditions of tender.
- A Tenderer’s covering letter shall not be included in the final Contract document. Should any matter in such letter, which constitutes a deviation as aforesaid become be the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
- Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents, and which it is agreed by the parties becomes an obligation of the Contract, shall also be recorded here.
- Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

A Tenderer’s covering letter shall not be included in the final Contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, be the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Subject	.....
Details	.....
.....	
Subject	.....
Details	.....
.....	
Subject	.....
Details	.....
.....	
Subject	.....
Details	.....
.....	

..... By the duly authorized representatives signing this schedule of deviations, the Employer and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or change to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the Contract between the parties arising from this agreement.

Part 1– Data provided by the Employer

Clause	Statement	Data
1. General		
	<p>The conditions of contract are the core clauses and the clauses for main Option:</p> <p>dispute resolution Option and secondary Options</p> <p>of the NEC3 Term Service Contract (April 2013)</p>	<p>A Priced contract with price list</p> <p>W1 Dispute resolution procedure</p> <p>X1 Price adjustment for inflation</p> <p>X13 Performance Bond</p> <p>X17 Low service damages</p> <p>X18 Limitation of liability</p> <p>X19 Task Order</p> <p>X20 Key Performance Indicators</p>
10.1	<p>The Employer is (name):</p> <p>Address</p> <p>Represented By:</p> <p>Tel No.</p> <p>Fax No.</p>	<p>Eastern Cape Department of Health</p> <p>Department of Health Global Life Centre Corner Phalo Avenue and R63 (opposite Engen garage) Bhisho 5605</p> <p>Mr Lamkelo Mdingi</p>
10.1	<p>The Service Manager is (name):</p> <p>Tel</p> <p>e-mail</p>	<p>Zutari (Pty) Ltd</p>
	<p>The Service Manager is (name):</p>	<p>Zutari (Pty) Ltd</p>
11.2(2)	<p>The Affected Property is</p>	<p>OR Tambo and Alfred Nzo District Health Facilities in the Eastern Cape Province as per Service Information</p>

11.2(13)	The service is	Scheduled and Re-Active Maintenance works
11.2(14)	The following matters will be included in Risk register	N/A
11.2(15)	The Service Information is in	The Contract Part 1: Service Information - Scope of Works. Works Information and all documents and drawings to which it makes reference.
12.2	The law of the contract is the law of	the Republic of South Africa
•	The language of this contract is	English
•	The period for reply is	7 days

2. The Contractor's responsibility (If the optional statement for this section is not used, no data will be required for this section)

21.1 The Contractor submits a first Plan for 2 weeks of the Contract Date acceptance within

3. Time

- The starting date is at the Site Handover Meeting Date.
- The service period is 36 Months.

4. Testing and defects

Special testing may be requested by the Service Manager.

5. Payment

50.1	The assessment interval is	Monthly
51.1	The currency of this contract is the	South African Rand
51.2	The period with which payments are made is	30 Days after submission of a valid TAX Invoice to the Employer
51.4	The interest rate is	(i) zero percent above the publicly quoted prime rate of interest (calculated on a 365-day year) charged by from time to time by the South African Reserve Bank (as certified, in the event of any dispute, by any manager of such bank, whose appointment it shall not be necessary to prove) for amounts due in Rands

6. Compensation Events

(If the optional statement for this section is not used, no data will be required for this section)

These are additional compensation N/A events

7. Use of Equipment Plant and Materials		No data is required for this section of the conditions of contract.
8. Risks and Insurance		
80.1	These are additional Employer's risks	N/A
83.1	The Employer provides these insurances from the Insurance Table	N/A
83.1	The Employer provides these additional insurances	N/A
83.1	The minimum amount of cover for insurance against loss and damage caused by the Contractor to the Employer's property is	R 5 000 000.00
83.1	The insurance against loss of or damage to the works, Plant and Materials is to include cover for Plant and Materials provided by the Employer to an amount of	R 5 000 000.00
83.1	The minimum amount of cover for insurance in respect of loss of or damage to property (except the Employer's property, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the Contractor) arising from or in connection with the Contractor's Providing the Service for any one event is:	R 5 000 000.00
83.1	The Minimum limit of indemnity for insurance in respect of death of or bodily injury to employees of the Contractor arising out of and in course of their employment in connection with this contract for any one event is:	As prescribed by the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 and the Contractor's common law liability for people falling outside the scope of the Act with a limit of Indemnity of not less than R 5 000 000.00
9. Termination		No data is required for this section of the conditions of contract.
10. Data for main Option Clauses		
A	Priced Contract with Price List	Option A
20.5	The Contractor prepares forecasts of the final total of the Prices for the whole of the service at intervals of no longer than	4 Weeks
11. Data for Option W1		
W1.1	The Adjudicator is (Name)	The person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the party intending to refer a dispute to him. (See www.icesa.org.za)
	Address	
	Tel. No,	
	Fax No.	
	Email	

W1.2(3)	The Adjudicator nominating body is:	The Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering
W1.4(2)	The Tribunal is:	Arbitration
W1.4(5)	The Arbitration Procedure is	The latest edition of Rules for the Conduct of Arbitrations published by the Association of Arbitrators (South Africa) or its successor body.
	The place where arbitration is to be held is	South Africa
	The person or organization who will choose an arbitrator	The Chairman for the time being or his nominee of the Association of Arbitrators (South Africa) or its successor
1	If the Parties cannot agree a choice body.or	
2	If the procedure does not state who selects an arbitrator, is	

12. Data for Secondary Option Clauses

X1	Price Adjustment for Inflation																
X1.1	The base date for indices is March 2025	Tender Closing Date 26 April 2024															
	The proportions used to calculate the Price Adjustment Factor are:																
	Note: Requirements for CPA/Price inflation is that Prices must be Fixed and Firm for the First 12 months of the contract and only subject to escalation thereafter. A minimum of 10% of the contract price / prices is not adjustable throughout the life of the contract																
		<table border="1"> <thead> <tr> <th>Proportion</th> <th>Linked to Index for</th> <th>Index prepared by (Source)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Non-Adjustable**</td> <td></td> </tr> <tr> <td>100%</td> <td></td> <td></td> </tr> </tbody> </table>	Proportion	Linked to Index for	Index prepared by (Source)								Non-Adjustable**		100%		
Proportion	Linked to Index for	Index prepared by (Source)															
	Non-Adjustable**																
100%																	

X13	Performance Bond	
X13.1	The Contractor gives the Employer a performance bond	The Tenderer must provide a Performance Bond in the form of a Fixed Performance Guarantee by means of a Bank Guarantee, or from an Insurer approved by the Service Manager, in the amount of 2.5% of the Awarded Contract Value, once the Contract has been awarded to him. This Bond must be given to the Employer with in four (4) weeks of the Contract Date.

X17	Low Service Damages	
X17.1	The service level table is in	As per Demerit Table in Contact Data – Annexure CD1

X18	Limitation of Liability	
X18.1	The Contractor’s liability to the Employer for indirect or consequential loss is limited to	R0.0 (zero Rand)
X18.2	For any one event, the Contractor’s liability to the Employer for loss of or damage to the Employer’s property is limited to	R2 500 000.00

X18.3	The Contractor's liability for Defects due to his design of an item of Equipment is limited to	The greater of (a) the total of the Prices at the Contract Date and 1 R2 500 000
X18.4	The Contractor's liability to the Employer for all matters arising under or in connection with this contract, other than the excluded matters, is limited to	N/A
X18.5	The end of liability date is	3 Months after the end of the Service Period.
X19	Task Order The Contractor submits a Task Order programme to the Service Manager within	Authorization to commence with any Task will be done by Task Order. This Task Order will be issued to the Contractor by the Service Manager. Maintenance Turn- around times are stated in the Works Instructions under specification clause GM7.
X20	Key Performance Indicators	Key performance Indicators will be used to monitor Contractor performance on a monthly basis

- Part Two – Data provided by the Contractor

Clause	Statement	Data
10.1	The Contractor is (Name): Address: Tel No. Fax No.	
11.2(8)	The Direct Fee Percentage is _____% The Subcontracted Fee Percentage Is _____%	
11.2(14)	The following matters will be included in the Risk Register	
11.2(15)	The Service Information for the Contractor's plan is in:	
21.1	The plan identified in the Contract Data is contained in:	
24.1	The Key Persons are: Name : Job : Responsibilities : Qualifications : Experience	
	Name : Job : Responsibilities : Qualifications : Experience	
CV's and further key person's data are in		
A	Priced Contract with Price List	
11.2(12)	The price list is in	
11.2(19)	The tendered total of the Prices is	
X1	Price adjustment for inflation	

X1.1

Proportion	Linked to Index for	Index prepared by (Source)
	Non-Adjustable**	
100%		

Annexure CD1 – Demerit Table and Penalty Calculation System

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

Attach document here

ANNEXURE CD1: DEMERIT TABLE AND PENALTY CALCULATION SYSTEM

If the Contractor fails to remedy any sub-standard work within the time frame stipulated by the Service Manager, the conditions as per GM 3.1 will apply.

The contractor will incur demerit points for specific measurable poor performance incidents which can lead to the early termination of the Contract as described below.

DESCRIPTION	DEMERIT POINT
Failure to submit the Functional Condition Assessment Report by the due date	1 point/ week that the report is late
Exceeding the maximum allowable response and resolve time for a P1 Breakdown	3 points/ incident
Exceeding the maximum allowable response and resolve time for a P2 Breakdown	2 points/ incident
Exceeding the maximum allowable response and resolve time for a P3 or P4 Breakdown	1 point/ incident
Not meeting the Planned Maintenance Performance KPI	1 point/ incident
Not meeting the Rework Rate KPI	1 point/ incident
Not meeting the Contractor Contactability KPI	1 point/ incident

The demerit points will accumulate and trigger the following actions:

ACCUMULATED DEMERIT POINTS	ACTION
6	Service Manager to discuss Contractor's performance deviation and agree on improvement measures. If improvement measures are successful and the Contractor has been consistently meeting the required KPI targets for the following two months, the demerit points can be cancelled by the Service Manager.

12	Service Manager to issue notice that Contractor is in Breach of Contract and that Contract Can be terminated if the Contractor does not improve his performance in line with the agreed improvement measures.
----	---

15	Service Manager to Terminate Contract as per Clause 9 of the NEC3 Term Service Contract.
----	--

Poor performance by the Contractor due to late payments by the Employer will not incur demerit points.

Financial penalties, as per the requirements of Secondary Options Clause X17, will be applied on the effected payments at 1% penalty per demerit point by the Service Manager, in the month that the demerit points are allocated to the Contractor

Annexure CD2 – Key Performance Indicator Listing

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

ANNEXURE CD2: KEY PERFORMANCE INDICATOR LISTING

The following Key Performance Indicators (KPI's) will be applicable to this Contract and must be monthly updated and reported on by the Service Manager:

KPI Name	KPI Equation		Frequency	Target
Emergency Job Rate	=	$\frac{\text{Total Number of Emergency Jobs Done}}{\text{Total Number of Jobs Done}} \times 100\%$	Monthly	<10%
Planned Maintenance Performance	=	$\frac{\text{Total Number of Scheduled Planned Maintenance Jobs Completed}}{\text{Total Number of Planned Maintenance Jobs Scheduled}} \times 100\%$	Monthly	100%
Cost Estimation Accuracy	=	$\frac{\text{Total Actual Cost of Work}}{\text{Total Estimated Cost Of Work}} \times 100\%$	Monthly	100%
Response Performance	=	$\frac{\text{Number of Service Calls Completed within Targeted Response Time}}{\text{Total Number of Service Calls}} \times 100\%$	Monthly	100%
Rework Rate	=	$\frac{\text{Number of Jobs Requiring Rework}}{\text{Total Number of Jobs Done}} \times 100\%$	Monthly	0%
SHEQ	=	Number of SHEQ Incidents Involving the Contractor	Monthly	0
Contractor Contactability	=	Number of Times that Contractor was not Contactable by the Call Centre	Monthly	0

The Service Manager must also ensure that the following items are routinely inspected and reported on by the Site Representative for each Health Facility:

- Compliance with general maintenance requirements as specified in the ServiceInformation.

- Manner in which preventative and corrective maintenance is carried out.
- Manner in which the Maintenance Control Plan is implemented and updated.
- Manner in which Task Orders received from the Service Manager is dealt with.
- Manner in which records are kept as required by the Service Information as well as the Occupational Health and Safety Act, Act No 85 of 1993 as amended.
- Quality of services carried out for the month prior to the inspection.

Note: The aim of the above inspection is to determine that all the requirements of the specification have been complied with. Should the Service Manager believe that one or more maintenance items referred to above, have been neglected or totally ignored by the Contractor he may decide to implement demerit points as penalty as per X17 for each type of non-compliance found during the inspection.

C1.3 CIDB ADJUDICATOR'S AGREEMENT

This agreement is made on the day of between:.....
 (name of company / organisation) of

 (address) and.....
 (name of company / organisation) of

 (address) (the Parties) and.....
 (name) of

 (address)
 (the Adjudicator).

Disputes or differences may arise/have arisen* between the Parties under a Contract dated and known as.....

and these disputes or differences shall be/have been* referred to adjudication in accordance with the CIDB Adjudication Procedure, (hereinafter called "the Procedure") and the Adjudicator may be or has been requested to act.

* Delete as necessary

IT IS NOW AGREED as follows:

- i The rights and obligations of the Adjudicator and the Parties shall be as set out in the Procedure.
- ii The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the Procedure.
- iii The Parties bind themselves jointly and severally to pay the Adjudicator's fees and expenses in accordance with the Procedure as set out in the Contract Data.
- iv The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavor to ensure that anyone acting on their behalf or through them will do likewise, save with the consent of the other Parties which consent shall not be unreasonably refused.
- v The Adjudicator shall inform the Parties if he intends to destroy the documents which have been sent to him in relation to the adjudication and he shall retain documents for a further period at the request of either Party.

<p>SIGNED</p> <p>by:</p> <p>Name: _____</p> <p>Witness</p> <p>Name: _____</p> <p>Address: _____</p>	<p>SIGNED by:</p> <p>Name: _____</p> <p>Witness:</p> <p>Name _____</p> <p>Address: _____</p>	<p>SIGNED by:</p> <p>Name: _____</p> <p>Witness:</p> <p>Name: _____</p> <p>Address: _____</p>
--	---	--

Date: _____ Date: _____ Date: _____

Contract Data

1	The Adjudicator shall be paid at the hourly rate of R..... in respect of all time spent upon, or in connection with, the adjudication including time spent travelling.
2	The Adjudicator shall be reimbursed in respect of all disbursements properly made including, but not restricted to: <ul style="list-style-type: none"> i Printing, reproduction and purchase of documents, drawings, maps, records and photographs. ii Telegrams, telex, faxes, and telephone calls. iii Postage and similar delivery charges. iv Travelling, hotel expenses and other similar disbursements. v Room charges. vi Charges for legal or technical advice obtained in accordance with the Procedure.
3	The Adjudicator shall be paid an appointment fee of R..... This fee shall become payable in equal amounts by each Party within days of the appointment of the Adjudicator, subject to an Invoice being provided. This fee will be deducted from the final statement of any sums which shall become payable under item 1 and/or item 2 of the Contract Data. If the final statement is less than the appointment fee the balance shall be refunded to the Parties.
4	The Adjudicator is/is not* currently registered for VAT.
5	Where the Adjudicator is registered for VAT it shall be charged additionally in accordance with the rates current at the date of invoice.
6	All payments, other than the appointment fee (item 3) shall become due 7 days after receipt of invoice, thereafter interest shall be payable at 5% per annum above the Reserve Bank base rate for every day the amount remains outstanding.

* Delete as necessary

PART C2-1: PRICING DATA

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

C2.1 Pricing Data

GENERAL NOTES

1. Documents

The Schedule of Quantities form part of the Document and must be read in conjunction with the other parts forming the Document in order to gain the full meanings of the descriptions of the work to be done and materials and equipment to be used.

2. Alterations

No alterations, erasure or addition is to be made in the text of the Schedule of Quantities. Should any alteration, erasure or addition be made, it will not be recognised and the original wording of the Schedule of Quantities will be adhered to.

3. Issue of Schedule of Quantities in Electronic Format

The Engineers will make the Schedule of Quantities available to Tenderers in electronic (Microsoft Excel Workbook) format, upon request.

If utilised for tender submission, the Tenderer will be responsible for ensuring the correctness of all calculations. The Consulting Electrical Engineers cannot be held responsible for any arithmetic inaccuracies in the electronic Schedule of Quantities.

4. Pages

Before submitting his Tender, the Tenderer must check to ensure all pages have been included and are distinct. Should any obvious errors be found the Engineer is to be notified immediately to have them corrected as no liability whatsoever will be admitted by the Engineer in respect of errors in the Tender due to the foregoing.

5. Responsibility

The responsibility for the accuracy of the quantities written into the Schedule of Quantities remains with the person who prepared the Schedule of Quantities. The Tenderer shall be relieved of the responsibility of measuring quantities at the Tender stage, and the Tender Price submitted shall be in respect of the quantities set out in the Schedule of Quantities.

The Tenderer will be required to make his assessment of items such as brackets, fixings, etc., from details stated in the Schedule of Quantities and shall make allowances therefore within the rates tendered.

Tenderers shall make due allowance in their rates for any item of incidental or contingent work, labour and materials not contained in the Schedule of Quantities, but deemed necessary for the successful completion of the Works.

6. Offered rates in the Schedule of Quantities

The rates in the Schedule of Quantities shall be final and no further adjustment will be made.

7. Currency

All the offered rates in the Schedule of Quantities shall be in South African Rands (R). Any items purchased overseas must be converted to local currency with all exchange rates and export charges.

8. Unit Rates

Unless a separate rate for the supply and the installation of any item is specifically called for, the supply and installation costs of any items shall be fully included in the unit price.

The description of each item shall, unless otherwise stated herein, be held to include making, conveying and delivering, unloading, storing, unpacking, hoisting, setting, fitting and fixing in position, cutting and

waste, patterns, models and templates plant, temporary works, return of water establishment charges, profit and all other obligations arising out of the Conditions of Contract.

9. Variations

Variations in the scope and extent of the work included in the Schedule of Quantities shall be allowed in order to meet the Employer's requirements and shall be measured and costed at the rates entered in the Schedule of Quantities, where appropriate, forming an addition to or deduction from the total of the Schedule of Quantities. Any items or variations for which rates have not been added in the Schedule of Quantities shall be agreed and priced as non-scheduled items in accordance with the provisions of the contract.

The rules governing the extent and costing of the variations shall be those provided for in the Conditions of Contract and Variations to Sub-contract.

Variations to the planning before the work has been executed shall be priced as above. Alterations to work already executed cannot necessarily be priced as above and must be reviewed on its merits.

The appropriate portions of the Preliminary & General Costs are to be adjusted proportionately to the nett additions or omissions of the variations to the contract

10. Preliminary and General

Tenderers are to note that no allowances have been made in the Schedules of Quantities for the pricing of "Preliminary & General" items.

Tenderers shall therefore, include the "Preliminary & General" component of their Tender Price in their tendered rates for the respective items of equipment / Work.

11. Provisional Sums

All Provisional Sums shall be expended only as directed by the Client and Engineer and any balance remaining shall be deducted from the amount of the Sub-contract sum. No work for which Provisional Sums are provided shall be commenced without written instructions from the Engineer.

All Provisional Sums may be utilised in full or in part. These Provisional Sums may be deleted in full or in part if not required.

12. Contingency Sums

All Contingency Sums shall be expended only as directed by the Client and Engineer. No work for which Contingency Sums are provided shall be commenced without written instructions from the Engineer.

All Contingency Sums may be utilised in full or in part. These Contingency Sums may be deleted in full or in part if not required.

13. Dayworks

The rates included for daywork shall not form part of the Tender Price, but Tenderers shall note that this item must be regarded as provisional and will only be payable to the Sub-contractor if and when a written order to this effect has been issued.

14. Value Added Tax

This Schedule of Quantities shall be priced nett, excluding VAT.

VAT shall only be added at the Summary at the end of the Schedule of Quantities for the Principal Contract.

15. Adjustment

The Employer reserves the right to adjust arithmetical errors in the extension of rates and totals in the Tender, and the Tenderer will be informed of the effect of any corrections on his Tender Sum prior to the award of the Contract. In no case will tendered rates be adjusted when correcting such errors.

In the event of there being tendered rates or prices which are declared by the Employer to be unacceptable to him, because they are either excessively low or high or not in proper balance with other rates, the Tenderer may be required to produce evidence and advance arguments in support of the tendered rates or prices objected to. If after submission of such evidence and any further evidence requested, the Employer is still not satisfied with the tendered rates or prices objected to, he may request the Tenderer to amend these rates and prices along the lines indicated by him.

The Tenderer may or may not thereupon alter and amend the rates and prices objected to and such other related prices as are agreed to by the Employer. Should the Tenderer fail to amend his Tender in a manner acceptable to the Employer, or at all, it may prejudice his Tender.

In the case of Tenders with Schedule of Quantities, the total corrected Tender Price in the Tender Form shall constitute the Sub-contract Sum. Tenderers are advised to check their extensions and additions. In the case of a Lump Sum Tender, the original uncorrected Tender Price shall be considered. The Engineer shall negotiate adjustments to the rates tendered in order to correct the arithmetical extension or addition, whilst the Tender Price as submitted, remains unaltered.

In either case, the Tenderer shall be notified of any arithmetical error in his Tender, and shall be given the opportunity to withdraw the Tender at this stage.

16. Quantification

The successful Tenderer and the Employer or his Agent may agree that the total of any Schedule, including any variations by way of additions thereto or deductions there from, represents a fair and accurate quantification of the items set out in the Schedule of Quantities and the parties may agree final payment on that basis. In the event of any dispute as to the quantities, the disputed item or items shall be adjusted where necessary.

17. Ordering

The quantities in this Schedule of Quantities shall not be used for ordering materials. The onus is on the successful Tenderer to order the correct quantities of materials as per the drawings.

18. Payment

The measurement and payment of Work done shall be made in accordance with the unit price rates, and rates of pay listed in the Schedule of Quantities. No payment will be made for any item of associated work not specifically detailed in the Schedule of Quantities.

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

C2.2 Schedules of Quantities

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PAGES

BILL OF QUANTITIES
SCHEDULE 1B - 1

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 1B-1 : FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.5	VERIFICATION OF ASSETS ON SITE : Verify assets on site vs Asset Register (C4.1), and compile plant layout line drawings as per GM 2.5 (1) and (2).				
1.1		Holy Cross Hospital	Item	1		
1.2		St Elizabeths' Hospital	Item	1		
1.3		Bambisana Hospital	Item	1		
1.4		Nessie Knight Hospital	Item	1		
1.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
1.6		Isilimela Hospital	Item	1		
1.7		Port St Johns CHC	Item	1		
1.8		St Patrick's Hospital	Item	1		
1.9		Greenville Hospital	Item	1		
1.10		Mount Ayliff Hospital	Item	1		
1.11		Afsondering Clinic	Item	1		
1.12		Umtumase Clinic	Item	1		
1.13		Queen's Mercy Clinic	Item	1		
1.14		Khotsong TB Hospital	Item	1		
1.15		Tayler Bequest Hospital	Item	1		
1.16		Nelson Mandela Academic Hospital	Item	1		
1.17		Zitulele Hospital	Item	1		
1.18		Canzibe Hospital	Item	1		
1.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES
SCHEDULE 1B - 2

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 1B-2: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK (continued)

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2	GM 2.5 & 3.2	VERIFICATION OF SPARE PART INVENTORY ON SITE : Find and verify all spares for the asset type that is currently available on site				
2.1		Holy Cross Hospital	Item	1		
2.2		St Elizabeths' Hospital	Item	1		
2.3		Bambisana Hospital	Item	1		
2.4		Nessie Knight Hospital	Item	1		
2.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
2.6		Isilimela Hospital	Item	1		
2.7		Port St Johns CHC	Item	1		
2.8		St Patrick's Hospital	Item	1		
2.9		Greenville Hospital	Item	1		
2.10		Mount Ayliff Hospital	Item	1		
2.11		Afsondering Clinic	Item	1		
2.12		Umtumase Clinic	Item	1		
2.13		Queen's Mercy Clinic	Item	1		
2.14		Khotsong TB Hospital	Item	1		
2.15		Tayler Bequest Hospital	Item	1		
2.16		Nelson Mandela Academic Hospital	Item	1		
2.17		Zitulele Hospital	Item	1		
2.18		Canzibe Hospital	Item	1		
2.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES
SCHEDULE 1B - 3

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 1B-3: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK (continued)

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	GM 2.7	COMPILING OF CONDITIONAL AND PERFORMANCE INSPECTION REPORT: Compile a inspection report on the current status and operation of the existing generating sets on site. The report shall be in line with the inspection report template included in this tender.				
3.1		Holy Cross Hospital	Item	1		
3.2		St Elizabeths' Hospital	Item	1		
3.3		Bambisana Hospital	Item	1		
3.4		Nessie Knight Hospital	Item	1		
3.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
3.6		Isilimela Hospital	Item	1		
3.7		Port St Johns CHC	Item	1		
3.8		St Patrick's Hospital	Item	1		
3.9		Greenville Hospital	Item	1		
3.10		Mount Ayliff Hospital	Item	1		
3.11		Afsondering Clinic	Item	1		
3.12		Umtumase Clinic	Item	1		
3.13		Queen's Mercy Clinic	Item	1		
3.14		Khotsong TB Hospital	Item	1		
3.15		Tayler Bequest Hospital	Item	1		
3.16		Nelson Mandela Academic Hospital	Item	1		
3.17		Zitulele Hospital	Item	1		
3.18		Canzibe Hospital	Item	1		
3.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES
SCHEDULE 1B - 4

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 1B-4: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK (continued)

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4	GM 2.7	COMPILING OF OPERATING AND MAINTENANCE MANUALS : Compile three sets of O&M Manuals per site per asset type and asset model as per information from the Asset Register C4.1				
4.1		Holy Cross Hospital	Item	1		
4.2		St Elizabeths' Hospital	Item	1		
4.3		Bambisana Hospital	Item	1		
4.4		Nessie Knight Hospital	Item	1		
4.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
4.6		Isilimela Hospital	Item	1		
4.7		Port St Johns CHC	Item	1		
4.8		St Patrick's Hospital	Item	1		
4.9		Greenville Hospital	Item	1		
4.10		Mount Ayliff Hospital	Item	1		
4.11		Afsondering Clinic	Item	1		
4.12		Umtumase Clinic	Item	1		
4.13		Queen's Mercy Clinic	Item	1		
4.14		Khotsong TB Hospital	Item	1		
4.15		Tayler Bequest Hospital	Item	1		
4.16		Nelson Mandela Academic Hospital	Item	1		
4.17		Zitulele Hospital	Item	1		
4.18		Canzibe Hospital	Item	1		
4.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES
SCHEDULE 1B – 5

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 1B-5: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK (continued)

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5	SS 8 & 9	OPERATOR AND MAINTAINER TRAINING : Provide Operator and Maintainer training as per SS8 and SS9				
5.1		Holy Cross Hospital	Hr	40		
5.2		St Elizabeths' Hospital	Hr	40		
5.3		Bambisana Hospital	Hr	40		
5.4		Nessie Knight Hospital	Hr	40		
5.5		Dr Malizo Mpehle Memorial Hospital	Hr	40		
5.6		Isilimela Hospital	Hr	40		
5.7		Port St Johns CHC	Hr	40		
5.8		St Patrick's Hospital	Hr	40		
5.9		Greenville Hospital	Hr	40		
5.10		Mount Ayliff Hospital	Hr	40		
5.11		Afsondering Clinic	Hr	40		
5.12		Umtumase Clinic	Hr	40		
5.13		Queen's Mercy Clinic	Hr	40		
5.14		Khotsong TB Hospital	Hr	40		
5.15		Tayler Bequest Hospital	Hr	40		
5.16		Nelson Mandela Academic Hospital	Hr	40		
5.17		Zitulele Hospital	Item	1		
5.18		Canzibe Hospital	Item	1		
5.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

**BILL OF QUANTITIES
SCHEDULE 1B-6**

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 1B-6: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
6	GM 3	MAINTENANCE CONTROL PLAN : Compiling of a detailed Maintenance Control Plan for each Health Facility included in this Tender (See SS 3 for facility listing)				
6.1		Holy Cross Hospital	Item	1		
6.2		St Elizabeths' Hospital	Item	1		
6.3		Bambisana Hospital	Item	1		
6.4		Nessie Knight Hospital	Item	1		
6.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
6.6		Isilimela Hospital	Item	1		
6.7		Port St Johns CHC	Item	1		
6.8		St Patrick's Hospital	Item	1		
6.9		Greenville Hospital	Item	1		
6.10		Mount Ayliff Hospital	Item	1		
6.11		Afsondering Clinic	Item	1		
6.12		Umtumase Clinic	Item	1		
6.13		Queen's Mercy Clinic	Item	1		
6.14		Khotsong TB Hospital	Item	1		
6.15		Tayler Bequest Hospital	Item	1		
6.16		Nelson Mandela Academic Hospital	Item	1		
6.17		Zitulele Hospital	Item	1		
6.18		Canzibe Hospital	Item	1		
6.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES
SCHEDULE 2B - 1

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 2B-1: FUNCTIONAL REPAIR SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.5	FUNCTIONAL CONDITION ASSESSMENT : Perform Functional Condition Assessment (Inspection and Testing) on all listed assets at all Health Facilities included in the Tender				
1.1		Holy Cross Hospital	Item	1		
1.2		St Elizabeths' Hospital	Item	1		
1.3		Bambisana Hospital	Item	1		
1.4		Nessie Knight Hospital	Item	1		
1.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
1.6		Isilimela Hospital	Item	1		
1.7		Port St Johns CHC	Item	1		
1.8		St Patrick's Hospital	Item	1		
1.9		Greenville Hospital	Item	1		
1.10		Mount Ayliff Hospital	Item	1		
1.11		Afsondering Clinic	Item	1		
1.12		Umtumase Clinic	Item	1		
1.13		Queen's Mercy Clinic	Item	1		
1.14		Khotsong TB Hospital	Item	1		
1.15		Tayler Bequest Hospital	Item	1		
1.16		Nelson Mandela Academic Hospital	Item	1		
1.17		Zitulele Hospital	Item	1		
1.18		Canzibe Hospital	Item	1		
1.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

**BILL OF QUANTITIES
SCHEDULE 2B – 2**

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 2B-2: FUNCTIONAL REPAIR SCHEDULE (continued)

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2	GM 2.5.(5)	COMPILING OF PRICED SPARE PART LISTS : Compile detailed, comprehensive priced spare parts lists for each site and asset type (based on Contractor's cost price). NOTE: The Employer retains the right to negotiate the offered spare part prices, if they are not in line with national price norms.				
2.1		Holy Cross Hospital	Item	1		
2.2		St Elizabeths' Hospital	Item	1		
2.3		Bambisana Hospital	Item	1		
2.4		Nessie Knight Hospital	Item	1		
2.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
2.6		Isilimela Hospital	Item	1		
2.7		Port St Johns CHC	Item	1		
2.8		St Patrick's Hospital	Item	1		
2.9		Greenville Hospital	Item	1		
2.10		Mount Ayliff Hospital	Item	1		
2.11		Afsondering Clinic	Item	1		
2.12		Umtumase Clinic	Item	1		
2.13		Queen's Mercy Clinic	Item	1		
2.14		Khotsong TB Hospital	Item	1		
2.15		Tayler Bequest Hospital	Item	1		
2.16		Nelson Mandela Academic Hospital	Item	1		
2.17		Zitulele Hospital	Item	1		
2.18		Canzibe Hospital	Item	1		
2.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

**BILL OF QUANTITIES
SCHEDULE 2B - 3**

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 2B-3: FUNCTIONAL REPAIR SCHEDULE (continued)

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	GM 2.5	COMPILING OF DETAILED REPAIR SCHEDULE : Compile detailed, comprehensive repair schedule including defect description, recommended repair method, detailed quote including priced spare parts, outsourced work, and provisional work program, for each Health Facility and asset type.				
3.1		Holy Cross Hospital	Item	1		
3.2		St Elizabeths' Hospital	Item	1		
3.3		Bambisana Hosital	Item	1		
3.4		Nessie Knight Hospital	Item	1		
3.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
3.6		Isilimela Hospital	Item	1		
3.7		Port St Johns CHC	Item	1		
3.8		St Patrick's Hospital	Item	1		
3.9		Greenville Hospital	Item	1		
3.10		Mount Ayliff Hospital	Item	1		
3.11		Afsondering Clinic	Item	1		
3.12		Umtumase Clinic	Item	1		
3.13		Queen's Mercy Clinic	Item	1		
3.14		Khotsong TB Hospital	Item	1		
3.15		Tayler Bequest Hospital	Item	1		
3.16		Nelson Mandela Academic Hospital	Item	1		
3.17		Zitulele Hospital	Item	1		
3.18		Canzibe Hospital	Item	1		
3.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

BILL OF QUANTITIES
SCHEDULE 2B - 4

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 2B-4: FUNCTIONAL REPAIR SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4	GM 2.6	COMPILE FUNCTIONAL CONDITION ASSESSMENT REPORT: Compile Functional Condition Assessment Report for all asset types at all Health Facilities included in the Tender				
4.1		Holy Cross Hospital	Item	1		
4.2		St Elizabeths' Hospital	Item	1		
4.3		Bambisana Hosital	Item	1		
4.4		Nessie Knight Hospital	Item	1		
4.5		Dr Malizo Mpehle Memorial Hospital	Item	1		
4.6		Isilimela Hospital	Item	1		
4.7		Port St Johns CHC	Item	1		
4.8		St Patrick's Hospital	Item	1		
4.9		Greenville Hospital	Item	1		
4.10		Mount Ayliff Hospital	Item	1		
4.11		Afsondering Clinic	Item	1		
4.12		Umtumase Clinic	Item	1		
4.13		Queen's Mercy Clinic	Item	1		
4.14		Khotsong TB Hospital	Item	1		
4.15		Tayler Bequest Hospital	Item	1		
4.16		Nelson Mandela Academic Hospital	Item	1		
4.17		Zitulele Hospital	Item	1		
4.18		Canzibe Hospital	Item	1		
4.19		St Lucy hospital	Item	1		
TOTAL CARRIED FORWARD TO SUMMARY						

**BILL OF QUANTITIES
SCHEDULE 3B**

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR TAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO
 ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster/District: OR TAMBO & ALFRED NZO
 Cluster 1

SCHEDULE 3B : MAINTENANCE SERVICE SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	MACHINE QTY	QTY OF SERVICE PER MACHINE	RATE	AMOUNT
1	GM 3.2	MAINTENANCE WORKS : Standard servicing and planned Maintenance Costs including all parts, consumables and lubricants, labour, travelling, accommodation and subsistence allowances (Price per machine)					Note: Amount = Machine QTY x QTY of service per machine x Rate
1.1		HOLY CROSS HOSPITAL					
		Electric calorifiers					
1.1.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	3	9		
1.1.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	3	6		
1.1.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.2		ST ELIZABETHS' HOSPITAL					
		Electric calorifiers					
1.2.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.2.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.2.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.3		BAMBISANA HOSPITAL					
		Electric calorifiers					
1.3.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.3.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.3.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.4		NESSIE KNIGHT HOSPITAL					
		Electric calorifiers					
1.4.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.4.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.4.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.5		DR MALIZO MPEHLE MEMORIAL HOSPITAL					

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR TAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO
 ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster/District: OR TAMBO & ALFRED NZO
 Cluster 1

SCHEDULE 3B : MAINTENANCE SERVICE SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	MACHINE QTY	QTY OF SERVICE PER MACHINE	RATE	AMOUNT
		Electric calorifiers					
1.5,1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	2	9		
1.5,2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	2	6		
1.5,3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.6		ISILIMELA HOSPITAL					
		Electric calorifiers					
1.6.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.6.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.6.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.7		PORT ST JOHNS COMMUNITY HEALTH CENTRE					
		Electric calorifiers					
1.7.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	2	9		
1.7.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	2	6		
1.7.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.8		ST PATRICK'S HOSPITAL					
		Electric calorifiers					
1.8.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	5	9		
1.8.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	5	6		
1.8.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.9		GREENVILLE HOSPITAL					
		Electric calorifiers					

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR TAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO
 ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster/District: OR TAMBO & ALFRED NZO
 Cluster 1

SCHEDULE 3B : MAINTENANCE SERVICE SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	MACHINE QTY	QTY OF SERVICE PER MACHINE	RATE	AMOUNT
1.9.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	2	9		
1.9.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	2	6		
1.9.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1,10		MOUNT AYLIF HOSPITAL					
		Electric calorifiers					
1.10.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	3	9		
1.10.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	3	6		
1.10.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.11		AFSONDERING CLINIC					
		Electric calorifiers					
1.11.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.11.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.11.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.12		UMTUMASE CLINIC					
		Electric calorifiers					
1.12.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.12.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.12.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.13		QUEEN'S MERCY CLINIC					
		Electric calorifiers					
1.13.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	2	9		

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR TAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO
 ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster/District: OR TAMBO & ALFRED NZO
 Cluster 1

SCHEDULE 3B : MAINTENANCE SERVICE SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	MACHINE QTY	QTY OF SERVICE PER MACHINE	RATE	AMOUNT
1.13.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	2	6		
1.13.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.14		KHOTSONG TB HOSPITAL					
		Electric calorifiers					
1.14.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.14.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.14.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.15		ZITULELE HOSPITAL					
		Electric calorifiers					
1.15.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	2	9		
1.15.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	2	6		
1.15.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.16		TAYLER BEQUEST HOSPITAL					
		Electric calorifiers					
1.16.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	6	9		
1.16.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	6	6		
1.16.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.17		CANZIBE HOSPITAL					
		Electric calorifiers					
1.17.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.17.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR TAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

115

CONTRACT REF. NO: SCMU3-23/24-0790-HO
 ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster/District: OR TAMBO & ALFRED NZO
 Cluster 1

SCHEDULE 3B : MAINTENANCE SERVICE SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	MACHINE QTY	QTY OF SERVICE PER MACHINE	RATE	AMOUNT
1.17.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.18		ST LUCY HOSPITAL					
		Electric calorifiers					
1.18.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	1	9		
1.18.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	1	6		
1.18.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.19		BEDFORD HOSPITAL					
		Electric calorifiers					
1.19.1	GM 3.2	Minor Service Cost : Price per Three Monthly Service / Inspection per machine, as per tasks from the Three Monthly Service Inspection Guideline in C6.	No	2	9		
1.19.2	GM 3.3	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	2	6		
1.19.3		Pressure Testing Cost: Pressure test equipment Six Monthly with certificate laminated and installed near tested equipment	No	1	1		
1.20		MHTATA HOSPITAL					
		Steam and condensate lines					
1.20.1	GM 3.2	Minor Service Cost : Price per Monthly inspection per machine, as per tasks from the Monthly Service Inspection Guideline in C6.	No	3	36		
		Steam and calorifiers					
1.20.1	GM 3.2	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	5	6		

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR TAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

116

CONTRACT REF. NO: SCMU3-23/24-0790-HO
 ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster/District: OR TAMBO & ALFRED NZO
 Cluster 1

SCHEDULE 3B : MAINTENANCE SERVICE SCHEDULE

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	MACHINE QTY	QTY OF SERVICE PER MACHINE	RATE	AMOUNT
1.21		NELSON MANDELA ACADEMIC HOSPITAL					
		Boilers					
1.21.1	GM 3.2	Minor Service Cost : Price per Monthly Inspection per machine, as per tasks from the Monthly Service Inspection Guideline in C6	No	3	30		
1.21.2	GM 3.2	Major Service Cost : Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6	No	3	6		
1.21.3	GM 3.2	Statutory Inspection : (3 yearly) If no records are found on site a statutory inspection must be done ASAP after site hand over.	No	3	2		
1.21.4		Basic burner service : Price per service as per manufacturers guideline	No	6	1		
1.21.5		Metallurgical examination : Price per service inspection as per manufacturers guideline	No	3	1		
1.21.6	SS1	Supply Boiler Operator (1 per shift) for 24/7 operation of the Boiler Plant (All-inclusive Rate/month)	No	3	36 months		
1.21.7	SS1	Supply boiler water treatment plant chemicals for duration of the Contract (monthly cost)	No	3	36 months		
		Steam and condensate lines					
1.21.8	GM 3.2	Minor Service Cost : Price per Monthly inspection per machine, as per tasks from the Monthly Service Inspection Guideline in C6.	No	3	36		
		Steam and calorifiers					
1.21.9	GM 3.2	Major Service Cost: Price per Annual Service / Inspection per machine, as per tasks from the Annual Service Inspection Guideline in C6.	No	5	6		
1.22	GM 3.2	Fire Fighting Training					
1.22.1		Fire Fighting Training per site for boiler operators and maintainers (once off)	Item		1		
TOTAL CARRIED FORWARD TO SUMMARY							

BILL OF QUANTITIES SUMMARY

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF NO

SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE

BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE NUMBER	DESCRIPTION	TENDER AMOUNT
1B-1	OR & AN DISTRICT - FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK	
1B-2	OR & AN DISTRICT - FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK (continued)	
1B-3	OR & AN DISTRICT - FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK (continued)	
1B-4	OR & AN DISTRICT - FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK (continued)	
1B-5	OR & AN DISTRICT - FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK	
1B-6	OR & AN DISTRICT - FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK	
2B-1	OR & AN DISTRICT - FUNCTIONAL REPAIR SCHEDULE	
2B-2	OR & AN DISTRICT - FUNCTIONAL REPAIR SCHEDULE (continued)	
2B-3	OR & AN DISTRICT - FUNCTIONAL REPAIR SCHEDULE (continued)	
2B-4	OR & AN DISTRICT - FUNCTIONAL REPAIR SCHEDULE	
3B	OR & AN DISTRICT - MAINTENANCE SERVICE SCHEDULE	
TOTAL AMOUNT OF WORKS (EXCL VAT) - CARRIED TO FINAL SUMMARY		

**BILL OF QUANTITIES
SCHEDULE 4**

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 4 : TERM REPAIRS SUBJECT TO APPROVAL OF QUOTATION OF THE WORKS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK (DAY RATES): Labour rates that Contractor will charge for additional adhoc work that is not contained in Schedules 1 to 3.				
1.1		Technician	R/Hr	300		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/Hr	600		
1.3		Artisan (Trade Tested)	R/Hr	430		
1.4		Utility Man (Non-Trade Tested)	R/Hr	850		
1.5		Artisan Aid	R/Hr	500		
1.6		General Worker	R/Hr	990		
	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK (NIGHT RATES): Labour rates that Contractor will charge for additional adhoc work that is not contained in Schedules 1 to 3.				
1.1		Technician	R/Hr	300		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/Hr	600		
1.3		Artisan (Trade Tested)	R/Hr	430		
1.4		Utility Man (Non-Trade Tested)	R/Hr	850		
1.5		Artisan Aid	R/Hr	500		
1.6		General Worker	R/Hr	990		
2	GM 2.8.3	TRAVELLING : Travelling cost will be as per the rates for reimbursable expenses published monthly by the National Department of Public Works at the time of rendering the service/repair.				
2.1		Vehicle Travelling Estimate	Km	80,000		
3	GM 2.8.3	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for approved trips lasting more than one day at a time.				
3.1		Accommodation	Per/night	60		
3.2		Subsistence	Per/day	60		
4	GM 2.5 (10), GM 2.8.1 & GM 2.10.3	PROVISION TO COVER REPAIRS DURING THE TERM OF THE CONTRACT : Lump Sum Provision to cover repairs and breakdowns during the course of the Contract in addition to the agreed routine servicing of the Assets.	PSum	1	R 6,000,000.00	R 6,000,000.00
5	GM 2.8.1 & Clause 11.2(8)	DIRECT FEE PERCENTAGE (MARK-UP) ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or Outsourced Services based on the Provisional sum listed in Item 4. above. (Apply % to provisional sum in Item 4 above when pricing the tender)	%			

6	GM 2.15	ENVIRONMENTAL MANAGEMENT PLAN : The Contractor must compile a basic Environmental plan specific to the type of work that he will be performing at the Health Facilities as per C3.2	Item	1		
7	GM 2.15	OCCUPATIONAL HEALTH AND SAFETY ACT COMPLIANCE COST : The Contractor must comply to the project Health and Safety Specification specific to the type of work that he will be performing on site as per C3.2	Month	36		
8	Clause 83.1	INSURANCE : LIMITATION OF LIABILITY (Amounts applicable for whole Contract)				
8.1		Provision for General Contractor's Insurance (Minimum liability limit must be equal to R5,000 000) to cover requirements of Clause 83.1 in Contract Data	Month	36		
9	X13	PERFORMANCE BOND (Amounts applicable for whole Contract)				
9.1		Provision for a Performance bond of not less than 2,5% of the Tender Value	Month	36		
10	SS15	IN-SERVICE TRAINING OF GRADUATES AND INTERNS : Provisional Sum to pay the costs associated with employing nominated Interns and Graduates for the duration of the Contract				
10.1		Interns(1 Interns @R5000 per month)	Months	36	R 5,000.00	R 180,000.00
10.2		Graduates(1 Graduates @R7000 per month)	Months	36	R 7,000.00	R 252,000.00
10.3		Direct Fee Percentage (Mark-up) to be charged by Contractor on amounts above	%			
11	GM 6	PROVISION FOR SPECIAL TESTING BY SERVICE MANAGER : Lump sum provision for doing special tests at the Health Facilities as per the prerogative of the Service Manager	PSum	1		
11.1	Clause 11.2(8)	Direct Fee Percentage (Mark-up) to be charged by Contractor on amounts above	%	1		
12	GM 2.6	MAINTENANCE DOCUMENTATION SITE STORAGE CONSOLE : Provisional sum to supply and install O&M Manual, Log Books, and site Maintenance Records at each equipment type location as directed by the Service Manager	PSum	1		
12.1	Clause 11.2(8)	Direct Fee Percentage (Mark-up) to be charged by Contractor on amounts above	%	1		
13	GM 2.6	MAINTENANCE DOCUMENTATION SITE STORAGE CONSOLE : Provisional sum to supply and install O&M Manual, Log Books, and site Maintenance Records at each equipment type location as directed by the Service Manager	PSum	1		
13.1	Clause 11.2(8)	Direct Fee Percentage (Mark-up) to be charged by Contractor on amounts above	%	1		
14	SS16	PROVISION OF ASSET APPLICABLE ACCREDITED TRAINING : Arranging of Accredited Asset Applicable Training for Operating and Maintenance Staff as per SS16	PSum	1		
14.1	Clause 11.2(8)	Direct Fee Percentage (Mark-up) to be charged by Contractor on amounts above	%	1		
TOTAL CARRIED FORWARD TO SUMMARY						

**BILL OF QUANTITIES
SCHEDULE 5**

SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) - OR THAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES (36 MONTHS)

CONTRACT REF. NO: SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO & ALFRED NZO

ASSET TYPE: BOILER & CALORIFIER SYSTEM

Cluster 1

SCHEDULE 6 : BOILER PARTS AND CONSUMABLES

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1		BOILER PARTS AND CONSUMABLES: Costs shall including all parts, fittings, fixtures, associated equipment, consumables and lubricants, supply, labour, travelling, accommodation and subsistence allowances (Price per machine)				
		Parts and consumables based on the TE800 Thompson Enviropac packaged steam boiler - 8000kg/hr x 11 bar				
1.1		Access ladder and platform	Item	2		
1.2		Automatic TDS controls and water sample cooler	Item	2		
1.3		Manual blowdown valve	Item	2		
1.4		RAY HFO firing rotary cup burner	Item	2		
1.5		Oil flow meter	Item	2		
1.6		Control panel	Item	2		
1.7		Oxygen monitoring and combustion optimization	Item	2		
1.8		Feed pump	Item	2		
1.9		Feed pump isolation valve and strainer	Item	2		
1.10		Additional feed pump package, incl suction isolation valve and strainer, variable speed drives and panel electrics	Item	2		
1.11		Boiler mounted guyed chimney stack, including lagging and cladding	Item	2		
1.12		Duplex water softner model CSD200 on a skid	Item	1		
1.13		1x100litre and 2 x 250litre chemical dosing units and commissioning chemicals	Item	1		
1.14		Blowdown vessel	Item	1		
1.15		Feedwater storage tank and clad with steam heating	Item	1		
1.16		Lamtec GKI300 HMI touch screen	Item	2		
1.17		NEMS fault indicator	Item	2		
1.18		Boiler capacity test	Item	2		

TOTAL CARRIED TO NEXT PAGE					
TOTAL CARRIED FROM PREVIOUS PAGE					
ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	
2		REPAIR SCHEDULE / BOILERS : Cost to compile a detailed repair proposal with costing and options, for all the equipment that need to be restored to a fully functional condition.			
2.1		Chamber	Item	3	
2.2		Shelves and racks	Item	3	
2.3		Door and door seals	Item	3	
2.4		Recorder	Item	3	
2.5		Steam piping and shut-off valve	Item	6	
2.6		Safety valve	Item	6	
2.7		Steam pressure reducing valve	Item	6	
2.8		Exhaust line	Item	6	
2.9		Indicator lights	Item	3	
2.10		Alarms	Item	3	
2.11		Temperature and pressure gauges	Item	3	
2.12		Solenoid valves	Item	3	
2.13		PLC (where fitted)	Item	3	
2.14		Touch pad	Item	3	
2.15		Electrical panels, wiring and connections	Item	3	
2.16		Isolators	Item	3	
2.17		Door interlocks	Item	3	
2.18		Integrated boiler (where fitted)	Item	3	
2.19		Indicator lights	Item	3	
2.20		Control levers, cams and valves	Item	3	

2.21		Timer	Item	3		
2.22		Manual door locking mechanisms (where fitted)	Item	3		
2.23		Log book	Item	3		
2.24		Housekeeping	Item	3		
ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY		
3		CALORIFIER PARTS AND CONSUMABLES: Costs shall including all parts, fittings, fixtures, associated equipment, consumables and lubricants, supply, labour, travelling, accommodation and subsistence allowances (Price per machine)				
3.1		Heating Element	Item	50		
3.2		Thermometer	Item	50		
3.3		Control Panel	Item	50		
3.4		Pressure Gauge	Item	50		
3.5		Safety Valve / Pressure Temperature	Item	50		
3.6		Anti-Vacuum Valve	Item	50		
TOTAL CARRIED TO SUMMARY						

**BILL OF QUANTITIES
FINAL SUMMARY**

**SCHEDULE MAINTENANCE OF BOILERS & CALROIFIERS AT CLUSER ONE (1) - OR TAMBO AND ALFRED NZO DISTRICT - HEALTH FACILITIES
(36 MONTHS)**

CONTRACT REF NO

SCMU3-23/24-0790-HO

Cluster/District: OR TAMBO DISTRICT & ALFRED NZO

ASSET TYPE

BOILER & CALORIFIER SYSTEM

	DESCRIPTION	TOTAL AMOUNT OF WORKS (EXCL VAT)
1	OR TAMBO & ALFRED NZO DISTRICTS	
2	SCHEDULE 4: TERM REPAIRS SUBJECT TO APPROVAL OF QUOTATION OF THE WORKS	
3	SCHEDULE 5: BOILER & CALORIFIER PARTS AND CONSUMABLES	
4	Add contingencies (10%)	
SUBTOTAL AMOUNT OF WORKS (EXCL VAT)		
ALLOWANCE FOR VAT AT 15%		
TOTAL AMOUNT OF WORKS (INCL VAT) - ENTER THIS AMOUNT TO FORM OF OFFER		

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

DECLARATION (In respect of completeness of Tender)

Department of Health
Eastern Cape Department of Health
Global Life Centre
c/o R63 and Phalo Avenue
Bhisho

I/We, the undersigned, do hereby declare that these are the properly priced Schedules of Quantities forming Part C2.2 of this Contract Document which contains 28 pages numbered 1 to 28 and in consecutive order in Volume 2 and the number of pages in consecutive order in Volume 2A as stated on page 1 thereof, upon which my/our tender for **TENDER NO. SCMU3-23/24-0790-HO: SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)**

has been based.

SIGNED ON BEHALF OF TENDERER:

DATE:

PART C3: SCOPE OF WORKS

C3.1: SCOPE OF WORKS

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

This specification is for the repair, maintenance and proper functioning of the listed boilers and calorifiers for the duration of the Contract period.

OR Tambo District

Item No.	Facility Name
1	Holy Cross Hospital
2	St Elizabeths' Hospital
3	Bambisana Hospital
4	Nessie Knight Hospital
5	Dr Malizo Mpehle Memorial Hospital
6	Isilimela Hospital
7	Port St Johns CHC
8	Nelson Mandela Academic Hospital

Alfred Nzo District

Item No.	Facility Name
1	St Patrick's Hospital
2	Greenville Hospital
3	Mount Ayliff Hospital
4	Afsondering Clinic
5	Umtumase Clinic
6	Queen's Mercy Clinic
7	Khotsong TB Hospital
8	Tayler Bequest Hospital

Details of the work required shall be as listed in the Price Lists which have been sub-divided into the following categories:

SCHEDULE 1: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK

SCHEDULE 2: FUNCTIONAL REPAIR SCHEDULE

SCHEDULE 3: MAINTENANCE SERVICE SCHEDULE

SCHEDULE 4: TERM REPAIRS SUBJECT TO APPROVAL OF QUOTATION FOR THE WORK

Boilers

Item No.	Facility Name	Type of Equipment	Make	Model	Serial Number	Capacity (kg)	Energy Source
1	Nelson Mandela Academic Hospital	Steam Boiler	John Thompson	TM800S	73535	8tons	Oil fired
2	Nelson Mandela Academic Hospital	Steam Boiler	John Thompson	TM800S	73534	8tons	Oil fired
3	Nelson Mandela Academic Hospital	Steam Boiler	John Thompson	TM800S	73536	8tons	Oil fired

ASSET REGISTER CALORIFIERS: CLUSTER 1

OR TAMBO DISTRICT

KING SABATO DALINDYEBO						
Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	Nelson Mandela Academic Hospital	Various wards	MT4000V	1814\1	4000L	Steam
2	Nelson Mandela Academic Hospital	Various wards	No tag	No tag	4000L	Steam
3	Nelson Mandela Academic Hospital	Various wards	No tag	No tag	4000L	Steam
4	Nelson Mandela Academic Hospital	Various wards	No tag	No tag	4000L	Steam
5	Nelson Mandela Academic Hospital	Various wards	No tag	No tag	4000L	Steam
6	Mthatha General Hospital	Various wards	No tag	No tag	1000L	Steam
7	Mthatha General Hospital	Various wards	No tag	No tag	8000L	Steam
8	Mthatha General Hospital	Various wards	No tag	No tag	8000L	Steam
9	Mthatha General Hospital	Various wards	No tag	No tag	3500L	Steam
10	Mthatha General Hospital	Various wards	No tag	No tag	3500L	Steam
11	Mthatha General Hospital	Various wards	No tag	No tag	1500L	Electricity
12	Mthatha General Hospital	Various wards	No tag	No tag	1000L	Steam
13	Mthatha General Hospital	Various wards	No tag	No tag	8000L	Steam
14	Mthatha General Hospital	Various wards	No tag	No tag	8000L	Steam
15	Mthatha General Hospital	Various wards	No tag	No tag	3500L	Steam
16	Mthatha General Hospital	Various wards	No tag	No tag	3500L	Steam
17	Mthatha General Hospital	Various wards	No tag	No tag	1500L	Electricity
18	Mthatha General Hospital	Various wards	No tag	No tag	800L	Steam
19	Mthatha General Hospital	Various wards	No tag	No tag	3500L	Steam
20	Mthatha General Hospital	Various wards	No tag	No tag	1500L	Steam
21	Mthatha General Hospital	Various wards	No tag	2094	1500L	Steam
22	Zitulele Hospital	General ward	No tag	103582071	4000L	Electricity

NYANDENI LOCAL MUNICIPALITY

Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	Canzibe Hospital	Laundry		28863-5	2000L	Electricity

MHLONTLO LOCAL MUNICIPALITY

Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	Nessie Knight Hospital	No tag	No tag	No tag	2000L	Electricity
2	Nessie Knight Hospital	Laundry	B4450V1	312361	450L	Electricity
3	Dr Malizo Mpehle Memorial Hospital	Kitchen	No tag	No tag	3000L	Electricity
4	Dr Malizo Mpehle Memorial Hospital	Laundry	No tag	No tag	2000L	Electricity
5	St Lucy hospital	Laundry	No tag	No tag	3500L	Electricity

PORT ST JOHN'S LOCAL MUNICIPALITY

Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	Isilimela Hospital	Nurses home	No tag	No tag	3500L	Electricity
2	Isilimela Hospital	Kitchen	No tag	No tag	3500L	Electricity
3	Isilimela Hospital	Maternity	MF 450-V	X277272	450L	Electricity
4	Port St Johns CHC		No tag	No tag	600L	Electricity
5	Port St Johns CHC		No tag	No tag	1500L	Electricity
6	Bambisana Hospital	Kitchen	No tag	No tag	2000L	Electricity
7	Bambisana Hospital	Peds & Maternity	No tag	No tag	2500L (QTY=X4)	Electricity
8	Bambisana Hospital	Male & Female wards	No tag	No tag	2500L (QTY=X2)	Electricity
9	Bambisana Hospital	OPD	No tag	No tag	2500L	Electricity

INGQUZA HILL LOCAL MUNICIPALITY

Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	Holy Cross Hospital	Peads and Maternity	No tag	No tag	2x 3500L	Electricity
2	Holy Cross Hospital	General ward	No tag	No tag	2x 3500L	Electricity
3	Holy Cross Hospital	Various locations	No tag	No tag	2x 3500L	Electricity
4	Holy Cross Hospital	Various locations	No tag	No tag	3500L	Electricity
5	St Elizabeth's Hospital	Various locations	No tag	No tag	2000L	Electricity
6	St Elizabeth's Hospital	Various locations	No tag	2100b	1500L	Electricity
7	St Elizabeth's Hospital	Various locations	No tag	2100A	1500L	Electricity
8	St Elizabeth's Hospital	Various locations	No tag	24750	1500L	Electricity
9	St Elizabeth's Hospital	Various locations	No tag	F9649	500L	Electricity
10	St Elizabeth's Hospital	Various locations	J809	No tag	500L	Electricity
11	St Elizabeth's Hospital	Various locations	J609	No tag	500L	Electricity
12	St Elizabeth's Hospital	Various locations	MF 450-V	No tag	450L	Electricity
13	St Elizabeth's Hospital	Various locations	J958V	No tag	1200L	Electricity

MBIZANA LOCAL MUNICIPALITY

Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	St Patrick's Hospital	General Male Ward	No Tag	No Tag	3500L	Electricity
2	St Patrick's Hospital	Peads	No tag	No tag	3500L	Electricity
3	St Patrick's Hospital	Kitchen	No tag	No tag	3500L	Electricity
4	St Patrick's Hospital	Laundry	No tag	No tag	3500L	Electricity
5	St Patrick's Hospital	Various Wards	No tag	No tag	3500L	Electricity
6	Greenville Hospital	Kitchen	No tag	No tag	450L	Electricity
7	Greenville Hospital	Various Wards	No tag	No tag	3500L	Electricity

UMZIMVUBU LOCAL MUNICIPALITY

Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	Mount Ayliff Hospital	Various Wards	No tag	No tag	800L	Electricity
2	Mount Ayliff Hospital	Various Wards	No tag	No tag	1500L	Electricity
3	Mount Ayliff Hospital	Various Wards	No tag	No tag	1000L	Electricity

MATATIELE LOCAL MUNICIPALITY

Item No.	Facility Name	Location	Model	Serial Number	Capacity (kg)	Energy Source
1	Afsondering Clinic	Nurses Home	No tag	No tag	1000L	Electricity
2	Umtumase Clinic	Various Wards	No tag	312361	150L	Electricity
3	Queen's Mercy Clinic	Various Wards	No tag	No tag	1000L	Electricity
4	Queen's Mercy Clinic	Various Wards	No tag	No tag	1000L	Electricity
5	Khotsong TB Hospital	Various Wards	No tag	No tag	1000L	Electricity
6	Tayler Bequest Hospital	Nurses home	No tag	No tag	1000L	Electricity
7	Tayler Bequest Hospital	Male change room and Caroline hall	No tag	No tag	1000L	Electricity
8	Tayler Bequest Hospital	Female ward and dental	No tag	No tag	1000L	Electricity
9	Tayler Bequest Hospital	Peads	No tag	No tag	1000L	Electricity
10	Tayler Bequest Hospital	Kitchen	No tag	No tag	1500L	Electricity
11	Tayler Bequest Hospital	Various Wards	No tag	No tag	1500L	Electricity



PART C3.1a

EASTERN CAPE DEPARTMENT OF HEALTH

STANDARD SPECIFICATION

FOR THE

GENERAL MAINTENANCE AND REPAIRS

OF

BOILERS AND CALORIFIERS AT

VARIOUS HOSPITALS AND HEALTH FACILITIES IN

CLUSTER 1 (OR TAMBO AND ALFRED NZO DISTRICT)

OF THE EASTERN CAPE PROVINCE

MARCH 2024

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STANDARD SPECIFICATION FOR THE GENERAL MAINTENANCE AND REPAIRS OF ELECTRICAL AND MECHANICAL INSTALLATIONS

GM 1 GENERAL

The successful Contractor will be responsible for, and is expected to, maintain all the plant and installations detailed in the Price List and the Inventory of Equipment attached to this Contract.

The intention of this comprehensive maintenance Contract is to assess the current boilers and calorifiers condition of each asset, repair what is needed, and maintain all equipment included as part of the Contract, in such a manner that, except for normal wear and tear, their condition don't deteriorate during the initial Service Period of 36 (thirty six) months. Instruction to proceed with any work related to this Contract shall be authorized by means of a Task Order from the Service Manager.

As skills transfer are an integral part of this Contract the Employer's Operating and Maintenance staff will be responsible for all operating and daily inspections on the equipment, unless otherwise specified in the relevant asset specific Supplementary Specification and/or Relevant Price List.

The Contractor is required to provide pricing for the following items in the Contract as expanded on in this specification for each asset type and equipment quantity as covered by this Tender:

1. Verify the Assets and update the Asset Inventory List that is provided with this Contract;
2. Compile a Preliminary Maintenance Control Plan (Annexure I) to determine what routine servicing should take place on each type of equipment covered by the Contract, and at what frequency the services should take place during the Contract Period if this does not correlate to the Price List service frequency proposed by the Service Manager. With reference to the Price List and C3.1b Supplementary Specification requirements, the Contractor must submit an all-inclusive price and quantity of, for each Service Activity required. Service Activities may include Operations, Minor Services, Major Services or Statutory Inspections as detailed in the Supplementary Specification related to this bid as well as the Price List.
3. Cost to do a full functionality test and condition assessment of all equipment and installations included in the Contract (after Contract award), and provide a priced key spare part pricelist for this equipment;
4. Cost to provide a detailed Functional Condition Assessment Report based on the findings from the functionality test and condition assessment process.

It is to be noted that the aim of the maintenance Contract is NOT to replace random components at the beginning of the Contract in anticipation of a possible breakdown during the Service Period. Only known defects shall be repaired once approved by the Service Manager. It is the Contractor's responsibility to decide if he/she wants to visit each site and familiarize themselves with the actual condition of each installation before submitting a Tender, or to rely on the information as contained in the Inventory of Equipment that is attached to this Contract

Maintenance of an installation shall be performed in accordance with the boiler and calorifier **Service Information** which will include:

- This Standard Specification for the General Maintenance and Repairs of Electrical and Mechanical Installations,
- The Technical Specifications that may be applicable,
- The Supplementary Specification for this Asset Type,
- The Operating and Maintenance Manuals (where applicable) for this Asset Type,
- Relevant Inspection Check sheets for this Asset Type,
- The Maintenance Control Plan per Health Facility,
- All relevant SANS Standards and Legislation that is referred to in the abovelisted documents, and
- All relevant drawings forming part of this Contract.

The main mechanical and electrical sections of a facility with their subsections as set out in the Service Information and in the Price List will each be deemed "an installation". Maintenance, as specified, will be applicable to all these installations.

All Contractors are to undergo an approximately three-hour long Contractor's induction process before being allowed to work at any of the sites. This induction shall cover the General Rules for Contractors on Site, the penalty system applicable to this Contract, as well as the minimum work quality standards for the work to be done on site.

Major equipment replacement, major upgrades and/or redesigned functionality will be handled outside of this Contract via a separate projects program, and are therefore not part of this Contract. The maintenance and repair work phase will run parallel to each other at the same time.

GM 2 MAINTENANCE REQUIREMENTS

- i The Contractor will adhere to the Task Order and when completed, contact the Service Manager for formal approval and signing off, of the Task Order. The Engineering Representative will assist the Service Manager in verifying completed work.
- ii The Contractor is expected to be fully aware of his obligations in so far as this Contract is concerned and he shall attend to the maintenance procedure within the time limits specified for each class of maintenance procedure.
- iii The completed Task Order will be returned to the Service Manager, who will forward it to the Call Centre to log the completed Task Order into the system. When the completed Task Order is logged into the system the job will be closed.
- iv When a maintenance procedure cannot be completed within the specified downtime the Contractor should apply in writing to the Service Manager for an extension of time with reasons for the delay. This application should be submitted as soon as the details of the maintenance procedure and availability of spare parts are known.

- v The Call Centre Manager will submit a weekly response performance report to the Service Manager, who will make a decision on the implementation of penalties which will depend on the nature of each breakdown, as well as valid claims on delays received from the Contractor. The recorded report date and time as well as the recorded completion date and time will be regarded as sufficient and final proof for the proper administration of this aspect of the Contract.

GM 2.2 SERVICE MANAGER

Eastern Cape Department of Health's agent will be appointed as **Service Manager** (Project Manager) to manage and administrate all work and financial aspects related to this particular bid. He/she will be supported on the ground by an Engineering Representative to verify workmanship and compliance of completed activities to Contract requirements. The Service Manager will be responsible for the following:

- i Perform duties as per the NEC3 Term Services Contract Standard Clauses;
 1. Ensure that either he/she, or the Facility Specific Site Representative, visit the Facility and compile reports on the status of the Facility infrastructure that forms part of this bid;
 2. Liaise with the Call Centre and check on call outs;
 3. Determine routine maintenance work to be done, and issue Task Orders for routine maintenance and repairs/refurbishment/upgrades (that was accepted by the Employer), to the relevant Contractor;
 4. Consult and co-ordinate with the Program Lead Consulting Engineer as needed on specific maintenance aspects, designs and specifications to be done;
 5. Assess the completed work for the assessment period, consider the payment applications lodged by the Contractor during this period, Certify the payment due, and issue a Payment Certificate for the accepted work as per the Standard Contract clauses;
 6. Monitor the logging of regular maintenance work done;
 7. Prepare reports on maintenance and repair work done;
 8. Liaise with the hospital Site Representative regarding all work to be done on this asset type at the facility;
 9. Liaise with management of the facility;
 10. Obtain approvals from the Employer where required for

GM 2.3 CONTRACTOR'S RESPONSIBILITIES

The Contractor shall maintain the complete installation as specified in the **Service Information** for the full Contract period subject to the agreed repairs and performance criteria.

Maintenance implies and shall include routine preventative maintenance on a schedule as approved by the Service Manager, corrective maintenance, as well as breakdown maintenance of all components of the specified installation.

The Contractor shall be responsible to perform all tasks as specified in this specification, subject to the requirements of the NEC3 Term Service Contract Standard Clauses. In addition, the Contractor must:

- (i) Record work done, performance indicators, defects identified and/or corrected, and spares used;
- (ii) Obtain work done sign-off on site as well as from the Engineering Representative;
- (iii) Submit completed Task Orders and invoices to the Service Manager;
- (iv) Attend scheduled project meetings with the Service Manager.

The Contractor shall, as part of his maintenance responsibilities repair or replace faulty equipment upon logging of a breakdown, within the down-time as defined in Paragraph GM 7, and against the Tendered rates as provided for in the Price List, and within the down-time as specified in the applicable Task Order. In the event of any repair item for which a rate is not available in the Price List, the rate as specified in the Task Order will apply.

GM 2.4 TASK ORDERS

All works required to be done by the Contractor will be instructed by issuing of a **Task Order** by the **Service Manager**. No Works shall be conducted without a Task Order.

The Call Centre may issue breakdown and defects correction/repair Task Orders to the Contractor at any time during the Service Period, but they must all be copied to the Service Manager. The time for the completion of the Breakdown Task Order will be as per the allowable response times in Table 1 in Section GM 7.

If the exact nature and possible cost of rectifying a breakdown is not known when the Breakdown Task Order is issued to the Contractor, the task order will be issued with provisional information and costs estimates. The Contractor shall respond to such a Breakdown Task Order by traveling to the site to evaluate the breakdown (scope of repair work), estimate the realistic cost as well as downtime and provide feedback to the Service Manager to form the basis of the revised Task Order.

Should the Contractor not be able to complete the Breakdown Task Order within the agreed and approved time for completion, it shall be the Contractor's responsibility to obtain an extension of time from the Call Centre Manager. The written report shall clearly state the reasons for requiring the extension, as well as the actual extension period required.

Should the actual time for completion of the Breakdown Task Order exceed the agreed time allowed, including any extension of time, the Contractor shall be liable for damages at the rate stated in the Task Order.

The Service Manager will issue Task Orders for the routine maintenance services, and approved repair/upgrade work once the Maintenance Control Plan has been approved and updated with the relevant information from the Repair Schedule as per GM 3.

Routine maintenance, approved repairs and breakdown repairs will all be done parallel to each other on the equipment as per the Maintenance Control Plan and Call Centre priorities.

GM 2.5 FUNCTIONAL CONDITION ASSESSMENT

Immediately after handing over of the site, and having attended the Contractor's Induction Training Session, the Contractor shall start with a **detailed functional test and condition assessment process** of the specified installation/equipment at each Health Facility and **submit a detailed report** to the Service Manager regarding the functionality, performance and condition of the equipment. It is this Contract's intention that this task be completed within **two weeks** of each site handover to the Contractor, but the Service Manager will arrange and agree specific deliverable dates for each Health Facility with the Contractor in this regard as part of the Contractor's Maintenance Control Plan.

The following work shall be carried out during the time allowed for the execution of the Functional Condition Assessment:

- **Verify the Asset Data** from the Asset Inventory List in C4.1, obtain the additional asset information that might be required for a specific piece of equipment, and update the Inventory of Mechanical and Electrical Equipment for each Health Facility with make and model numbers, capacities and general condition, year of manufacture (age), additional equipment to be added to the list, and equipment to be deleted from the list (i.e. equipment not on site anymore), etc., as per the fields provided in the format provided by the Service Manager after Contract award.
- **Prepare a clear A4 size line drawing** of the building/ward/room in which the plant is installed, typically as per one of the two examples below, and show positions of the equipment schematically on this drawing. Please provide basic information regarding the general condition of the room/facility/building where the asset is located (this will assist to provide information to the facility repair teams), next to, or below the line drawing; One line drawing per location per Health Facility must be provided and can be hand drawn, provided that the drawing is clear, neat and all info is readable. Where applicable the position of the equipment on the walls must be shown
- Record the number/name of each piece of equipment on the line drawing. If no name/number exists on the equipment itself, allocate a descriptive number (i.e. Washer) and mark this on the equipment with a black permanent marker pen. Reference shall be made to this ID number in the defects listed in the Repair Schedules for each item of equipment to identify the equipment accurately.
- **Verify what spare parts (if any) are available** on site for the equipment covered by the Contract, as well as the condition there-off;
- **Compile a Priced Spare Part List**, (based on the Contractor's cost price for the spares) for the relevant spare parts required for a repair of all the types of equipment listed in the Asset Inventory, and indicate on this list what spares should be kept in stock on site for use by the site maintenance staff. The Employer however retains the right to negotiate the offered spare part prices with like type spares prices solicited through the Tender process, if they are not in line with national price norms.
- **Inspect the condition and test the functionality** of all components of the installation to confirm the extent of the repair work required (if any). If the equipment is not in an

operable state record this and proceed with item 7 below;

- **Verify if the equipment meets current standard technical specifications** for the specific application (**for example: a split system air conditioner maybe functionally good and serviceable, but does not meet the criteria to operate inside an operating theatre or infection control area**). Advise on an alternative if applicable. Please consult the Facility Manager when doing the assessment to get information regarding any issues that they are experiencing with the equipment.
- **Verify the estimated remaining service life** for the equipment based on the equipment's age and current condition. If the equipment is old and in a bad state it might be more cost effective to replace the unit rather than rebuilding it. Please advise in this regard;
- Should it be impossible to determine the details of the defect without dismantling the machine/equipment item, the Contractor shall nevertheless prepare an estimate with a cost breakdown for repairs he/she anticipates will be needed. After a written instruction has been received to repair the machine/equipment item, the final cost will be determined after the machine/equipment item has been dismantled for repairs. **Equipment shall not be dismantled for inspections during the equipment functional condition assessment period.**
- **Compile a detailed Repair Schedule for each separate equipment unit (machine).** This Repair Schedule will consist out of a clear identification of the equipment unit, a detailed description of what is wrong with the equipment unit, a detailed repair or replacement method statement (and explanation on why it is recommended that the unit be replaced if applicable), and an accurate detailed quote, with estimated lead times and a high-level project plan to enable the work to proceed if the approval to do so is granted by the Service Manager via a Task Order. (See GM 2.8 for the rates requirements)
- The Employer does not guarantee that any, or all, of the repairs/replacements recommended via the repair schedules, will be accepted for implementation by the Contractor. Accepted Repair Schedules will however become part of the Final Maintenance Control Plan once approved by the Employer, and will then be included in the work scheduled for this Contract. Depending on the cost and complexity, equipment replacement recommendations might be transferred to the Repair Project Work Stream of the Employer's Mechanical and Electrical Equipment Repair Programme
- **Compare the identified defects of each item of equipment with the components already included under the standard minor and major services scopes** in the Contract Price List, and remove costing for these from the repair requirements. Include all identified defects into the Functional Condition Assessment Report, but only price the defects not covered by the standard servicing scope of works. (See GM 3.2 (3) for costing of the standard services)
- Where applicable, **obtain copies of Statutory Inspection and Test Reports** from the Health Facility (if available) and attach these to the Defects Inspection Report.
- **Submit the detailed Functional Condition Assessment Report** to the Services Manager who shall thereafter demarcate any areas to be repaired and forward this information to the Contractor. Once approval is granted, the Service Manager will instruct the Contractor about the repair work to be done.

GM 2.6 FUNCTIONAL CONDITION ASSESSMENT REPORT

A Functional Condition Assessment Report must be compiled for each Health Facility, and shall contain the following:

1. The updated Asset Inventory List (both hard and electronic copies) completed in the Excel Format provided by the Service Manager after Contract Award;
2. Clear location identifiable layout line drawings of the equipment, with ID numbers and brief room/facility/building condition description as per GM 2.5 (2)
3. A list of spare parts, and their condition, that is currently available on site;
4. A priced spare part list of the typical spare parts that might be needed to do repairs on the equipment if it should breakdown or fail. The Contractor must also indicate on this spare part price list which consumable spare parts (i.e. fanbelts, filters, oil, fuses, light globes, etc.) that can be replaced by the site maintenance staff, should be kept in stock at the Health Facility;
5. A summary of the equipment per Health Facility indicating:
 - i Condition;
 - ii If the equipment meets current technical specifications;
 - iii Estimated remaining Service life before replacement will be due; and
 - iv Recommended work to be done (i.e. service only, minor repairs required, major repairs required, replacement or upgrade recommended).
6. A Repair Schedule for each repair that is required. This information will be used to populate the Task Orders for accepted repairs, or feed the Tender document information in case it is moved to the Project Work Stream;
7. A description of the defect for which repair work is not easily identifiable with an estimate of the final cost for repairs. This item will typically apply to breakdowns or defects where the machine or equipment must be de-commissioned and at least partially dismantled before the extent of the work can be fully established;
8. Compile a list of equipment for which a Statutory Inspection and Test is, or will become due during the Contract period. Copies of previous Inspection and Test Certificates to be attached to the report (if available).

Should the Contractor not be able to complete the Functional Condition Assessment Report within the period as specified GM 2.5, it shall be his responsibility to obtain extension of the Functional Condition Assessment period from the Service Manager. The written report shall clearly state the reasons for the extension, as well as the actual extension required. An extension of time shall only be considered by the Service Manager if the Engineering Representative believes the Contractor has carried out the already completed portion of the report with the due diligence and attention to detail.

Should the actual time for the completion of the report exceed the specified time for completion, including any extension granted, the Contractor shall be liable to a payment reduction for the difference between actual and approved completion periods. The value of the payment reduction for each health facility shall be as specified in Section X18 of the Secondary Options Clauses of the Contract.

After the repair phase work and costs have been accepted, the Contractor shall commence with the known and approved repair work only after site access for repair work has been approved and the Task Order issued. The Contractor shall complete the work within the period allowed for the repair work as specified in the applicable Task Order.

GM 2.7. OPERATING AND MAINTENANCE MANUALS

The Contractor shall, where specified, and as part of the repairs to each installation, compile and submit a comprehensive Operating and Maintenance Manual based on the Original Equipment Manufacturer's requirements. The Contractor shall ensure through training that the operating and maintenance personnel of the Health Facility are conversant with the instructions as presented in the Operating and Maintenance Manual, as per SS 8 and SS 9.

The Operating and Maintenance Manual, as accepted by the Service Manager, shall be used as a basis for preventative maintenance. The Contractor shall perform all preventative and corrective maintenance as described in the Operating and Maintenance Manual. This shall be in accordance with the Standard and Supplementary Specifications.

The Operating and Maintenance manuals must be based on the updated Inventory of Equipment (C4.1) data after completion of the Functional Condition Assessment, and shall be updated with respect to Make, Model Number, Capacity and any other relevant data.

The Contractor must provide three (3) sets of each required Operating and Maintenance Manual as follows:

1. One set to be installed at a suitable position on a short chain, against a wall in the room/area where the equipment is located, or as otherwise instructed by the Service Manager for outside and spread out equipment;
2. Two sets to the Services Manager.

The Operating and Maintenance Manuals must be delivered as soon as possible after the Functional Condition Assessment Report has been completed. Also see Section GM 3.3 (15).

Where several of the same equipment is in the same room/area, only one set of three Operating and Maintenance Manuals is required. If the same equipment is spread out throughout the health facility the Contractor must install one Operating and Maintenance Manual near each one, or group of the equipment unless otherwise instructed by the Service Manager. This does not apply to equipment like split air conditioners, etc. for which only one set of three Operating and Maintenance Manuals per make and model will be required. The Service manager will instruct the Contractor where to install the chained Operating and Maintenance Manual for equipment like air conditioners.

The Contractor will be required to install several Document Consoles (storage and writing platform units) with sleeve anchors or bolts, into the walls at different locations of each Health Facility, to secure and store the chained manuals and maintenance logs. A Provisional sum will be included for this in the Price List.

GM 2.8. RATES

Scheduled work is all planned routine servicing of the equipment at the all-inclusive Contracted Rates contained in Schedule 3 of the Contract. Unscheduled work is all repairs, breakdowns, special maintenance activities, special tests and/or replacement tasks, that is ordered via a Task Order by the Service Manager, in addition to the scheduled work. Payment for this work will be based on the Contracted Rates from Schedule 4.

Where no rates exist in the Contract, the itemized breakdown shall be accompanied by documentary proof from the Supplier, Manufacturer, Engineering Works, etc., where materials were bought or services out-sourced from. The Employer however retains the right to verify and test these rates against the market.

The Contractor shall submit quotes for all Unscheduled work with an itemized breakdown of the total cost involved for acceptance by the Service Manager, in a quotation as detailed below:

GM 2.8.1 MATERIALS AND OUTSOURCED SERVICES

Unscheduled: List all items with quantities and rates as per quotations or price lists obtained from suppliers or service providers (proven reasonable cost), and attach a copy of the quotation/price list to the quotation. Apply the Direct Fee Percentage (Mark-up %) to all proven reasonable material costs and outsourced services.

Direct Fee % (Mark-up %): Mark up percentage on proven cost to cover P's & G's, overheads, profit, etc. as per Schedule 4 based on NEC3 TSC Contract Data.

Scheduled: All materials required for Scheduled Servicing are included into the pricing for the Service as per Schedule 3.

GM 2.8.2 LABOUR

Unscheduled: List time required for travelling to and back from site (subject to conditions contained in GM 2.8.3 below), actual repair and/or replacement, testing and commissioning time of all unscheduled items at the applicable labour rates as stated in Schedule 4. No Direct Fee % will be applicable to Contracted labour rates.

Scheduled: Cost is included in Service costs as per Schedule 3.

GM 2.8.3 TRANSPORT AND ACCOMMODATION

Unscheduled:

Traveling and Accommodation claims will be subject to the condition contained in GM 2.8.4 below. Travelling cost will be as per the rates for reimbursable expenses published monthly by the National Department of Public Works applicable at the time of rendering the service/repair. Allow for the actual distance travelled (and specify the reason for the traveling). All travel time and disbursements need to be supported by a Google Maps route planner printout for proof of travelling distance and time. Kilometre claims can be claimed from point of departure to destination and back, but must be linked to the indicated kilometres as per the Google Map attached and referenced to. The Contractor must submit proof of registration to verify the engine cubic capacity of the vehicle, in respect of any vehicle to be claimed for. Allow for the actual accommodation and disbursements (and specify the reason for the accommodation requirement) at the rates as per Schedule 4. **Trips must be combined with Scheduled Servicing trips where possible, to minimize additional expenditure. Trips will be in accordance with the approved Maintenance Control Plan.**

GM 2.8.4 The Employer requires that the Contractor be based in a location inside the Cluster or District Area that the Contract is awarded for. The home base (departure point) must therefore be located inside the Cluster Area. If the Contractor does not have a home base in the Cluster Area, the traveling rates (for both distance and labour) will be calculated based on a location inside the Cluster which will typically be the largest Town or City located inside the Cluster or District, as may be applicable as instructed by the Service Manager.

GM 2.8.5 PROVISIONAL SUMS

It is the Employer's sole discretion to decide on spending any, all or none of the Provisional Amounts listed in the different Price List Schedules of this Contract.

GM 2.9 REPAIR WORK

GM 2.9.1 Definitions

1. Defect

For this maintenance Contract, a defect shall mean a deficiency in any component of an installation which impairs the functionality of that component or equipment. Worn parts of a component which do not impair the functionality and/or performance of the component will not be regarded as a defect.

Defects may be classified in the following three groups:

1. Type A defect

Those deficiencies which can be rectified by proper maintenance only, i.e. set parameters of a control system, proper lubrication, balancing, alignment, set pressures on safety valves, cleaning and de-staining, etc.

2. Type B defect

Those deficiencies which can only be rectified by replacing parts of, or the complete component as in the case of a breakdown or where a certain amount of upgrading is necessary such as the provision of anti-vibration mountings, removal of rust and re-painting, etc.

3. Type C defect

Those deficiencies which are visible but which do not impair on the functionality of the installation or system yet, such as structural cracks in parts of a component, rust, bad workmanship during a previous Contract, etc.

Components in which abnormal noise and/or vibration is present shall be serviced in accordance with the Manufacturer's recommendations and if the noise and/or vibration persists, the deficiency will be classified as a defect.

2. Repairs

Repairs of an installation shall mean the elimination of the deficiencies classified as types B and C defects in Paragraph (1.) above.

The specific repair phase commences as indicated on the Task Order issued by the Service Manager for each approved repair. The repairs must be completed within the period as determined by the Task Completion Date as stated in the Task Order. Delay damages for late completion will be applicable as indicated on the Task Order.

Depending on the nature of the work and availability of funds access may be given at any time during the Service Period and not necessarily directly after site hand-over.

A representative of the user department or person in charge of the plant, system or building shall endorse the schedule after completion of the maintenance or servicing procedure to the effect that the maintenance or service is, to his opinion, completed satisfactorily and shall countersign the service schedule. Where necessary the Site Representative will inspect the work done and report his findings to the Service Manager.

GM 2.9.2 Scope of Repair Work

The repair work shall be completed within the time allowed for repairs for each installation as defined in the applicable Task Order. If the work is to be carried over two or more financial year's the work will be segmented and prioritized according to the Final Maintenance Plan. The Contractor will be informed of the work to be completed within each financial year. **The starting date for repair work for the current financial year will be the date of acceptance**

of the measured Price List from the Functional Condition Assessment Report. The starting dates for subsequent years will be on 1 April of that particular year.

All repair work shall be executed using resources (labour, equipment materials and spare parts) that comply with the requirements of GM 2.11.

The said repair work shall be executed in accordance with the relevant codes of practice, standards, regulations, municipal laws and by-laws, manufacturers' specifications and codes of practice included in this specification.

GM 2.10 MAINTENANCE WORK

Maintenance work commences with the acceptance of the Tender bid and expires at the end of the Service Period. As compensation, the Contractor is paid the **remeasured** Contracted quantities, distributed in agreed intervals and amounts over the Service Period as per the Final Maintenance Control Plan, at the rate Contracted for the applicable maintenance work, subject to the requirements of GM 8.

GM 2.10.1 ROUTINE PREVENTATIVE MAINTENANCE

This entails the rendering of services and servicing of equipment according to a predetermined Maintenance Control Plan to:

- Repair, lubricate, clean and service components of equipment, units or parts thereof for each installation at pre-scheduled intervals regardless of condition;
- Re-adjust, reset, clean, balance, corrosion protect all components of equipment, units or parts thereof for each installation, and
- Carry out all necessary and implied actions to maintain installations in a functional condition (i.e. replace or clean filters, replace or top up fluids, etc.)

Preventative maintenance shall be aimed at prevention or at least minimization of breakdowns.

GM 2.10.2 CORRECTIVE MAINTENANCE

This entails regular observation of the equipment, identifying impending breakdowns, maladjustment or anomalies of equipment, units or parts of installations and subsequent action to restore installations to a fully functional condition before a breakdown occurs.

The Maintenance Procedures for Corrective Maintenance shall be compiled by the Contractor and is included in the Maintenance Control Plan for each system or plant. Inspection items shall include, inter alia, the following:

Checking for:

- Unusual noise and vibration;
- Abnormal surface temperature of machines such as electric motors;
- High temperatures of equipment and wiring inside switchboards;
- Incorrect settings or operation of safety devices;
- Alarm conditions of any instrument or control panel;
- Gas or fluid leaks from the equipment or associated piping systems.

The frequency of corrective maintenance shall be determined by the Contractor himself in line with the recommendations from the Operating and Maintenance Manuals, and actual operational environment where the equipment is operating. This may vary from once every day for high-risk, sensitive installations to once a

month for low-risk installations such as exhaust fans and office air conditioners. The frequency of corrective maintenance must be accepted by the Service Manager in the Maintenance Control Plan.

GM 2.10.3 BREAKDOWN MAINTENANCE

This entails repair and/or replacement of defective equipment, units or parts of installations following a breakdown that leaves the installation inoperable or unsafe, and subsequent action to restore the installation to their normal functional condition, within the maximum down-time allowed.

Breakdown repairs will be controlled via the Call Centre and approved Breakdown Repair Task Order process as per GM 2.1. A provisional amount will be included in the Contract Price List Schedules to cover Break Down Task Order expenditure.

GM 2.10.4 COMMENCEMENT OF SERVICE PERIOD

The Contractor shall accept full maintenance responsibilities for each installation from the date on which the site has been handed over to the Contractor. **An annual maintenance service shall be carried out on all installations during the period in which the Defects Inspection Report is compiled, or as soon as possible thereafter.** If the current statutory compliance of a qualifying asset cannot be verified with the correct documentation of proof, a statutory inspection must be performed immediately after the first annual service has been completed.

For equipment or installations where the complete installation is shut down for the repair phase, no maintenance services will be required during the repair period.

GM 2.11 SUPPLY OF LABOUR, EQUIPMENT AND MATERIAL

1. Labour

Only competent, qualified personnel shall be allowed to execute all maintenance work.

2. Equipment

All tools, equipment and consumables required for performing maintenance work shall be supplied by the Contractor at his own cost (except where otherwise agreed to in writing and provided by the Employer). The Contractor may use already installed Employer equipment such as crawl beams and crawls, etc. provided that they obtain written approval from the site Maintenance/Technical Manager to do so. Such site approval will be based on the serviceability of the equipment, and upon confirmation of the Contractor's competency compliance in being able to use and operate this equipment during maintenance.

3. Materials and Parts

All materials, spare parts, components, equipment and appurtenances necessary for the complete maintenance of each installation shall be supplied and installed by the Contractor **at the rates and quantities as instructed by the Service Manager**, after the Functional Condition Assessment Report as specified in GM 2.5 has been accepted.

Only original parts as specified by the Original Equipment Manufacturer may be used for replacement purposes. Generic or alternative parts will only be allowed if they comply fully with all the specifications of the original parts, but may only be used upon written acceptance by the Service Manager.

Substitute electronic components will be acceptable, **PROVIDED** that they are equal to, and

of the same quality as, or superior to, the original components and are accepted, in writing, by the Service Manager.

All parts, spares and materials which are used, shall conform to the applicable SANS Specifications and shall, where possible, carry the SANS mark of approval.

Substitute parts, as well as the serial numbers (where available) of the original and new components, shall be entered on the service sheets and in the maintenance/repair log-book.

The Contractor shall obtain, and cede any supplier's or factory guarantee of repaired or replaced components to the Employer. All workmanship, new equipment, materials, components, systems, etc. used for servicing and repairs shall be guaranteed for 12 months unless otherwise agreed to in writing with the Service Manager. The guarantee cards for repaired or replaced components or equipment shall also be attached to service sheets and the maintenance/repair log-book. New equipment and system installations will in addition to the above requirements also have a twelve (12) month defects liability period, valid from the date of successful commissioning and hand over to the Employer as acceptance by the Service Manager.

All scrapped and/or removed parts and equipment that might be installed elsewhere, or that will not be returned to service again, must remain on site after removal or disassembly of the equipment as they remain the property of the Employer. The Maintenance/Technical Manager of the facility will indicate to the Contractor where to place these items after removal. Removal of any parts and/or equipment for whatever reason from site, may only occur with the written approval to do so by the Maintenance/Technical Manager subject to the rules and regulations that the Employer has in this regard.

GM 2.12 SITE MAINTENANCE RECORD KEEPING

The Contractor shall provide and maintain hard-cover A4 size maintenance files for each installation for the duration of the Service Period. Copies of all schedules, checklists, breakdown reports, preventative maintenance records, component replacement records, service sheets, etc. shall be filed in these.

An A4 size register book shall be kept for all work performed on the equipment, to state the service technician's name, surname, date of work performed, and a short description of the work performed. This book must be installed on a short chain next to the relevant Operating and Maintenance Manual as per GM 2.7.

Copies of the site maintenance records and all service sheets, shall be submitted to the Service Manager at each monthly meeting, while copies of the service sheets must also accompany all claims and invoices.

Statutory Logbooks must be supplied and maintained on site for all statutory equipment such as pressure vessels, boilers and lifts.

GM 2.13 SERVICE SHEETS

Every service, repair, test, inspection, etc. related to the maintenance portion of the Contract, shall be fully described on a service sheet which must be completed and signed by the Contractor and attached to the Task Order when it is returned to the Service Manager. The following minimum information shall appear on service sheets:

- The company name and address;

- A unique work sheet serial number;
- The corresponding Task Order unique number;
- The district and health facility names;
- The building/area name or alternatively the building/area code;
- The plant identity code and description;
- The nature of the call, i.e. P1, P2, P3 or P4 (see GM 7);
- A general description of the problem or purpose of the work to be done, alternatively the complaint as received by the Call Centre;
- A statement as to whether the individual system is operational or not in terms of the specification;
- Should the system not be operational (in case of a breakdown) the response time and repair time shall be recorded individually and details of a preliminary service sheet shall be forwarded to the Call Centre Manager;
- The description of the repairs/replacements carried out on each machine/equipment item on that specific system;
- A list of materials used for each machine/component. Where scheduled items are used, only the description can be listed. For non-scheduled items, a copy of the quotation must be attached to the service sheet;
- A detailed report on the extent of the work done together with the total cost involved;
- Suggestions to avoid similar future problems;
- A list of the Contractor's personnel responsible for the work with the date, starting time, completion time, distance travelled, and any accommodation and S&T costs;
- Signature and name of the responsible Employer site technician/artisan/engineer and the Site Representative, confirming the work was completed to the required quality and performance standards, and that the equipment is operational again;
- Signature and telephone number of the User of the equipment or the person who initiated a call or Task Order (if it was a defect, or breakdown).

Service sheets shall also be used for normal routine maintenance services and other non-maintenance activities such as training of the health facility's operating and maintenance personnel and administration duties of heads of firms when managing the Contract.

The Service sheets shall be completed in three categories as follows:

1. **For repairs on machines:** The same data as above must be captured with one service sheet to be completed for each repair (See below for grouping of like type equipment for servicing).
2. **For normal maintenance on an installation:** The same data as above must be captured with one service sheet to be completed for each service (See below for grouping of like type equipment for servicing).
3. **For Administration and Training:** In this case only the name of the Head of the Company is required on the service sheet with no other reference to Building- or Plant codes or machine ID numbers. A full description of the service provided must be included.

Copies of the completed Service Sheet and Task Orders must be attached to all invoices and shall be submitted to the Service Manager for discussions and acceptance.

An example of the Service Sheet is attached to the Contract Documentation as C7.

The standard requirement for normal services carried out on a specific plant is to complete one service sheet for all the equipment within any one building. This standard requirement applies to installations where all such machines can be serviced within a period of approximately five working days, but all equipment serviced must be listed on the service sheet.

For larger installations where the time required for a maintenance service is more than five working days, the machines may be grouped together to form several groups within the building with the provision that each group can be serviced within a period of approximately five working days. One service sheet shall be completed for each group in a building, but all equipment included in the group must be listed on the service sheet.

For smaller installations where the complete installation inside a building can be serviced in less than one working day, the installations in more than one building may be grouped together, but all the equipment covered by the service sheet must be listed.

The definition of the groups must be determined by the Contractor and clearly specified in the Maintenance Control Plan for acceptance by the Service Manager.

GM 2.14 VOLTAGE SURGES DUE TO LIGHTING AND OTHER CAUSES

The area in which most of the sites are situated is known for heavy lightning storms. Damage caused by voltage surges due to lightning, phase imbalance, low and high voltages, power failures, etc. will be dealt with in the same manner as any other breakdown. Contractors are advised to investigate available surge protection systems, if any, on each plant during the Functional Condition Assessment stage, and to decide for themselves whether additional protection will be required or not.

The provision of additional surge protection systems shall form part of the repair activities, if accepted by the Service Manager, and the cost thereof must be allowed for in the Functional Condition Assessment Report.

Contractors may as an alternative provide and install one or more Universal Disturbance

Analysers to record any voltage surges at their own cost. Breakdowns caused by voltage surges which can be proved beyond any doubt will be dealt with in the same manner as operational damage and other normal breakdowns.

GM 2.15 SHEQ: SAFETY, HEALTH, ENVIRONMENTAL AND QUALITY

The Contractor must comply with all the Safety, Health, Environmental and Quality requirements as per C3.2 and GM 3.1, and must provide pricing to cover all the applicable requirements under this specification. The Contractor must take note of any specific Safety, Health and/or Environmental risks that might be highlighted in section SS 13.

GM 3 MAINTENANCE CONTROL PLAN

The Contractor is responsible to compile a detailed Preliminary Maintenance Control Plan (Annexure I) as per GM 3.2 which he need to submit with his Tender Bid. This plan must contain the details of what maintenance will be done (itemized), how often, what resources will be involved, what spares and consumables will be used, how long it will take to perform the work, and the cost breakdown per service for a specific Asset Type. The Service Manager gave service interval recommendations in Schedule 3, but the Contractor can recommend alternative intervals for consideration and approval by the Service Manager.

After Contract Award the Contractor will be required to expand the Preliminary Maintenance Control Plan to a Health Facility specific plan for each asset type with the assistance of the Service Manager.

GM 3.1 WORK QUALITY

Maintenance quality control shall be the responsibility of the Contractor who shall introduce a Maintenance Control Plan to assist him in ensuring that all preventative, corrective and breakdown maintenance is performed as described in the Service Information. The Contractor will be responsible to correct any sub-standard work that is discovered after the Contractor has done his work. The rework will be for the Contractor's own account and must be signed off by the Site Representative after completion.

If the Contractor fails to remedy any sub-standard work within the time frame stipulated by the Service Manager, the Service Manager may at his/her discretion appoint another Contractor to execute the repair work. In this case, the replacement Contractor will be paid with the funds that were earmarked for the first Contractor to do the work, and the first Contractor will not be paid for that specific work.

GM 3.2 PRELIMINARY MAINTENANCE CONTROL PLAN

A preliminary version of the Maintenance Control Plan, based on the Asset Inventory Data, must be submitted with the Contractor's Tender bid. This plan is a high-level plan on what maintenance tasks the Contractor will be performing on all the equipment across all Health Facilities covered by the Contract and must be completed on the forms of Annexure I. The information from the Preliminary Maintenance Control Plan will be expanded into that of the final Maintenance Control Plan as specified in Section GM 3.3 below. Details contained in this preliminary Maintenance Control Plan shall include:

1. A Maintenance Schedule containing all the different tasks that will be performed on all the equipment covered by this Contract, and captured on the **Preliminary Annual Equipment Maintenance Schedule** Form contained in Annexure I.
2. A brief Capacity Statement where the Contractor describes his company's capacity and experience that will be applicable to this Contract. This must include a description and location of his home base (workshop/home/bakkie based, number of staff with

qualifications and experience, what staff and/or Sub-Contractors will be used to support on the Contract, available tools and/or specialized equipment, transport capacity and where staff will be based, as well as capacity/ability to repair defective equipment (i.e. overhauling a pump or compressor);

3. A detailed **Maintenance Task Planning Sheet** (See Annexure I) for each of the Minor, Major, and other, service activities priced in the Price List. This Maintenance Task Planning Sheet will describe the pricing and details of scheduled maintenance activities to be performed during services conducted as per the recommendations of the **Preliminary Annual Equipment Maintenance Schedule**, and will also be used to populate the respective Task Order. These prices must be all inclusive and must include all labour, service parts, lubricants and consumables, special equipment (if required), accommodation (if applicable) and any travelling and subsistence costs, etc. that might be applicable to do the service. The service price must indicate clearly if more than one piece of equipment will be combined for servicing during a single trip to avoid double payment for Travel and Subsistence related payments by the Employer.
4. The service methodology;
5. Preliminary grouping of equipment for maintenance purposes as per GM 2.13 (if applicable);
6. A breakdown of which sub-Contractors will be used (as per T2.2c), and for what activities, by the Contractor in rendering the services required by this Contract **Sub-Contractors must also be registered on the Treasury Central Supplier Database;**

GM 3.3 MAINTENANCE CONTROL PLAN

One Maintenance Control Plan must be compiled for each Health Facility covered by the Contract. The Maintenance Control Plan shall be based on the Contractor's Preliminary Maintenance Control Plan information, and updated with the findings and data from the Functional Condition Assessment process. The Maintenance Control Plan shall be bound in a neat, A4 sized, ring bound document with a cover page and back cover and an original copy

The Maintenance Control Plan will become the main plan for all work to be done under this Contract, as per the Main Contract Clauses, after the Contract has been awarded.

When the documents are compiled, the Contractor may reproduce relevant paragraphs from any of the specifications forming part of the Contract documents, or Operating and Maintenance Manuals, but should there be any discrepancies between such paragraphs and paragraphs in the Maintenance Control Plan and those in the Contract documents, those in the Contract documents shall be regarded as being correct and shall apply.

The Maintenance Control Plan shall also contain the following in addition to the items listed in Section GM 3.2:

1. Detailed Maintenance Schedule per equipment type, per Health Facility on the **Annual Equipment Maintenance Schedule Asset Specific Form**;
2. Remeasured service quantities for the routine services of Schedule 3 in the Price List, based on actual equipment condition and the ability to perform a service on them or not in their current condition. **The Contractual payments will be based on these remeasured quantities, accepted by the Service Manager, and not on the original Tendered quantities which might have been based on incorrect information at the time;**
3. A risk register containing all the foreseen risks that can have an impact on the cost and/or deliverables of this Contract as per the NEC3 Term Service Contract Standard Contract Clauses numbers 11.2(14), 16.1, and 16.4;
4. A summary of the repair and maintenance work to be carried out in terms of the Contract giving details of the conditions of the various installations at the facility affected by the activities under the Contract.

5. Details of how the Contractor intends to carry out the various types of maintenance work especially breakdown maintenance should breakdowns occur.
6. Details of the procedures agreed upon between the Service Manager and the Contractor on how breakdown calls will be handled (Call Centre process).
7. A list of organisations and persons directly involved with the Contract or whose requirements must be considered during the entire Service Period. Each person's position within his organisation as well as the applicable phone numbers shall be given. (See T2.2c)
8. Details of monthly meetings (dates, times and venues) to be held between the Contractor, Employer Representative and Site Representative.
9. Service Sheets and Reports to be submitted after every routine inspection (a copy of all reports, checklists, breakdown records, etc. for each system of an installation shall be kept on the site in a hardcover file);
10. A priced spare parts list for relevant spares that might be required for repairs and/or breakdowns for each equipment type. The Employer retains the right to negotiate the listed prices based on price comparisons with like type spares prices solicited through the Tender process;
11. A recommended spares list for items that should be held in stock at the facility;
12. Copies of the Repair Schedules from the Functional Condition Assessment process that has been approved to proceed;
13. An updated Cost Forecast of the estimated final total of the Prices for the whole of the services in consultation with the Service Manager at intervals as stated in the Contract Data Clause 20.5;
14. Procedures to address complaints and logged breakdowns.
15. Details of reports in electronic format, summarizing all inspections, together with inspection data such as nature of test, names of persons carrying out tests and inspection results. Detail of repairs and replacements, together with testing of repaired equipment shall also be reflected in this report, and shall be obtained from the service sheets.
16. Assistance to be given to the Service Manager and Engineering Representative with decisions regarding material, equipment and other recommendations.
17. An updated list of the inventory of equipment complete with the ID number (if available), make and model number, serial number, year of manufacture/age and capacity.
18. The Maintenance Control Plan shall be upgraded when its contents are no longer representative of actual conditions.
19. The Contractor shall check the contents of existing Operating and Maintenance Manuals (if available) and shall update or modify them and then incorporate applicable data into his own manuals. Where no manuals exist, the Contractor shall draw up his own Operating and Maintenance Manuals based on the OEM Operating and Maintenance manuals as per the requirements of GM 2.7.
20. The way maintenance data as recorded on service sheets will be captured and processed for submission to the Services Manager, for invoicing, and as part of the maintenance report.

Pertinent data contained in the Operating and Maintenance Manuals may be transferred to

the Maintenance Control Plan to make it a document which can be used as an independent handbook for maintenance work in future.

GM4 COMMUNICATION

The Maintenance Control Plan (Paragraph GM 3.3) will provide, after agreement between the Contractor and the Service Manager, with the assistance of the Site Representative, for the following communication procedure to be implemented:

1. The Contractor shall establish a telephone and fax line and a cellular telephone connection to ensure that he can be reached at any time.
2. Should the Service Manager determine or suspect that preventative, corrective or breakdown maintenance is required, a call shall be logged through any communication channel available to reach the Contractor as soon as possible. This will be followed up with a Task Order.
3. Maximum down times will be as described in Paragraph GM 7.
4. All breakdown calls from the Health Facility will be reported to the Call Centre who will follow the procedure as detailed in Section GM 2.1.

GM 5 PERFORMANCE MEASUREMENT

The Contractor's performance shall be measured against the criteria specified in Section X20 of the Secondary Options Clauses of the Contract and C1.2b Annexure CD.

Poor performance by the Contractor will lead to penalties being imposed by the Service Manager as per X17 and C1.2b Annexure CD, and can lead to early termination of the Contract.

GM 6 SPECIAL TESTING OF AN INSTALLATION

An amount has been allowed in the Price List to cover the cost of additional tests that the Service Manager may request at his own discretion from time to time on the equipment and installations covered by this Contract. The Service Manager will have the sole authority to spend the amount or part thereof under sub-paragraph.

The Service Manager reserves the right to select, at random, component equipment and trade practices to be tested by the Contractor or independent authorities for compliance with specifications as specified in this Contract document.

The Contractor shall provide all equipment, tools and instruments required for such testing.

The Service Manager shall upon completion of the tests or inspections issue an inspection report including any corrective actions (if any) to be taken by the Contractor.

The Contracted markup percentage will be paid to the Contractor on the value of each payment made to the approved testing authority if any special testing is ordered by the Service Manager.

GM 7 MAXIMUM MAINTENANCE DOWN-TIME

After a breakdown, defect or complaint has been logged the Contractor will be expected to remedy the defect in the system/component with as little delay as possible, notwithstanding the maximum down-time allowed and listed in the following paragraphs or as stipulated in the Task Order. **Should the Contractor not respond within the maximum down-time, the Service Manager may arrange, at the cost of the Contractor, for the necessary repair work to be done by others.**

The Contractor shall respond to a breakdown registration by traveling to the site to evaluate the breakdown (scope of repair work), estimate the realistic cost as well as downtime and provide feedback to the Service Manager and Site Representative to form the basis of a Task Order.

Should the Contractor not be able to complete the required repair work within the maximum down-time period allowed, it shall be his responsibility to obtain extension of down-time from the Service Manager. The written report shall clearly state the reasons for the extension, as well as the actual extension required.

Extension of down-time will only be granted by the Service Manager if:

1. The maximum down-time is unreasonable in relation to the scope of the repair work required.
2. The delivery time of a new component/subassembly/machine or spares required for the repair of the defective component/subassembly does not enable the Contractor to successfully complete the repair work within the maximum breakdown down-time allowed.

Should the actual down-time exceed the maximum down-time, the Contractor shall be penalized as per X17 and C1.2b Annexure CD.

PRIORITY	DESCRIPTION	RESPONSE
P1	Emergency (Life Threatening)	Immediate response from the time of logging a call and the emergency to be resolved (at least temporarily) within 8 hours
P2	Urgent	Immediate response from the time of logging a call and to be resolved within 12 hours
P3	Planned Maintenance Repairs	Scheduled Maintenance is to be scheduled and performed within 3 business days of the scheduled date
P4	Emergency Facility Repairs	7 Days planning and execution subject to supply chain regulations

Table 1: Maximum allowable response times

"Maximum down-time" shall mean the period of time allowed to repair a breakdown, and "actual down-time" shall mean the measured period from the instant when the breakdown was reported or located until the installation has been repaired to its functional specification.

A guideline classification for typical P1, P2, P3 and P4 breakdowns for each installation are specified in the Supplementary Specification for each asset type.

The job card (Task Order) issued for the repair will state whether the repair is regarded as P1, P2, P3 or P4 and it will be required of the Contractor to react accordingly.

GM 8 MEASUREMENT AND PAYMENT

Measurement and payment will be done as per the Secondary Options Clauses of the Contract. See X1, X13, X17, X18, X19 and X20, supplemented by C1.2b Annexure CD.

C3.6: HEALTH AND SAFETY SPECIFICATION

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

SEPTEMBER 2023

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SEPTEMBER 2023
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1. INTRODUCTION AND BACKGROUND

- 1.1 The Construction Regulations No. 37305 of 7th February 2014 requires the Client to prepare a 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 cognizance of the above statement.
- 1.6 The ECDoH, as the Client shall provide a project specific Health & Safety Specification (PSHSS) for the project and provide the Principal Contractor/s making a bid or appointed to perform maintenance work for the project, or parts thereof such documentation.
- 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 and its Regulations.

2. KEY ROLE PLAYERS

2.1 CLIENT

- a) Electrical Engineer
- b) Mechanical Engineer
- c) ECDOH

2.2 PRINCIPAL CONTRACTOR

- 2.2.1 Contracts Manager
- 2.2.2 Maintenance Supervisor
- 2.2.3 Health & Safety Officer
- 2.2.4 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

The definitions used will be those set out in the Regulation Gazette NO 37305 of 7th February 2014 with the following additions:

4.1 **Client:**

The Superintendent General, Department of Health of the Province of the Eastern Cape.

4.2 **Hazard:**

Source of exposure to danger.

4.3 **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.

4.4 **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.

4.5 **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.

4.6 **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.

4.7 **Risk:**

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

4.8 **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.

4.9 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.

4.10 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 The Preferential Procurement Policy Framework Act 2000 and the Preferential Procurement Regulations 2017, the General Conditions of Contract (GCC)

5.4 Construction Regulations No. 37305 of 7th February 2014

5.5 SANS Code 10400 and others that are applicable.

6. PURPOSE OF THE PROJECT SPECIFIC HEALTH AND SAFETY SPECIFICATION (PSHSS)

6.1 The PSHSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client Viz. Professional Service Provider and the Principal 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 its applicable legislation to, as far as is practical, reduce or eliminate incidents or injuries.

6.3 No advice, approval of any document required by the PSHSS, 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 PSHSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

6.5 A Mandatary Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing.

6.6 The PSHSS 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 Management Act.

6.9 The Contractor shall use this Specification as a basis for the drafting of his and any Subcontractors' 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 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 project specific H&S specification (PSHSS) forms an integral part of the Contract, and PC is required to make it an integral part of their Contracts with Contractors and Suppliers.

7.2. A PSHSS 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 PSHSS.

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 client of client's Agent.

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

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

b) 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 changes.

7.9. The Client will visit the project as deemed necessary to ensure compliance and limit risk.

a) All activities on the site and all appropriate documentation will be monitored.

- 7.10. Non-conformances will be issued and penalties or work stoppage will be issued where appropriate.
- 7.11. The 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.

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 Client.
- 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, are also required to comply with the conditions of this Health and Safety Specification.
- 8.4. All staff and representatives of, Eastern Cape Department of Health, who visit the site are required to comply with the conditions of this Health and Safety Specification.
- 8.5. Facility is also required to comply with the conditions of this Health and Safety Specification.
- 8.6. Facilities staff and everyone who visit the site is 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.**

- a) 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.**

- a) At the onset the Professional Service Provider will identify any Project Specific hazards or risks that may affect the work.
- b) These hazards or risks are listed under section 18 of this Specification.
- c) Tenderers are also advised to notify the client of any other risks or hazards that have not previously been identified.
- d) These risks are to be recorded and a recommended procedure for addressing each item agreed on and recorded.
- e) The 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.
- f) The Contractor shall ensure that all 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.
- g) Proof of this training must be kept for inspection by the Client or Client's Representative.
-

- h) The 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 (toolbox talk strategy to be implemented).
- i) The format used for the risk assessment must make provision for the following information;
- Reference Number
 - Project Name
 - Identification of task assessed.
 - Date
 - Risk assessment team & designation.
 - Approval of risk assessment team.
 - Risk rating with matrix
 - Review date
 - Task steps
 - What can go wrong (Hazard)
 - The result (Risk)
 - Risk rating
 - Preventative Action (Control Measures)
 - The format The Principal Contractor is to ensure that all Hospital Staff and Management personnel that will be affected by the works are fully informed of the risks and hazards associated with the works.

10.2 Specified Hazardous Chemical Substances

- a) 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.
- b) Hazardous and potential situations

The Principal Contractor shall immediately notify other Subcontractors 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

The Specification covers the requirements for eliminating and mitigating incidents and injuries for the **SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS AT CLUSTER ONE (1) – OR TAMBO AND ALFRED NZO DISTRICT – HEALTH FACILITIES (36 MONTHS)**

- a) The scope addresses legal compliance, hazard identification, risk assessment, risk control, and promoting a Health and Safety culture on the project.
- b) The Specification also provides for the protection of those persons other than employees.

11.2. Scope of Works

This specification is for schedule maintenance of boilers & calorifiers at cluster one (1) – or Tambo and Alfred Nzo district – health facilities (36 months) District - Health Facilities (**Please See the Tender Document for a detailed scope of works**).

Details of the work required shall be as listed in the Price Lists which have been sub-divided into the following categories:

SCHEDULE 1: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK

SCHEDULE 2: FUNCTIONAL REPAIR SCHEDULE

SCHEDULE 3: MAINTENANCE SERVICE SCHEDULE

SCHEDULE 4: TERM REPAIRS SUBJECT TO APPROVAL OF QUOTATION FOR THE WORKS

SCHEDULE 5: EQUIPMENT REPLACEMENT COST SCHEDULE

11.3. **Structure and Organization of H&S Responsibilities**

Principal Contractor to provide a proper OHS organogram.

11.4. **Notification of Construction Work**

- a. There is no need for notification of construction since this is a maintenance project.

11.5. **Health and Safety Plan Framework**

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

11.6. **Appointment of Competent Personnel**

- a) The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent 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.
- b) All other legal appointments are to be made with relevance to the type of work required and kept current with the project programme.

11.7. **Contracts Supervision**

- a) Competent Contracts manager 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.).
- b) Curriculum Vitae (CVs) are to be submitted for approval by the Client or client's Agent.
- c) The Manager will be held responsible for the safety of working teams and subordinates, housekeeping and any other health and safety risks on site.

11.8. **Health and Safety Management**

- a) The PC will employ at least one competent, H&S Officer the duration of the contract.
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- b) The H&S Officer CVs and competency certificates must be submitted for approval to the H&S Agent or the Client.
- c) The officer will be required to compile a monthly report, see **Annexure A**.
- d) In the case the contract becomes subcontracted, the H&S Officer must have a competence to evaluate the Contractors Health and Safety plans.
- e) The maintenance supervisor may not act as the H&S Officer.
- f) The H&S Officer will be held.
 - 11.8.f.1. Senior site staff and supervision, Contractors are to follow systems, instructions etc, given by the H&S Officer at all times;
 - 11.8.f.2. No new workers or Contractors may commence work without approval or following the H&S plan as submitted, and
 - 11.8.f.3. No inductions of Contractor staff until the H&S documentation is approved by the H&S Officer.
- g) 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 client and the contractor.
 - 11.8.g.1. A list of the typical aspects that should be provided is available as Annexure B to this document.
 - 11.8.g.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.
 - 11.8.g.3. Failure to do so will be considered a serious offence and penalties applied.

11.9. Health and Safety Representatives and H&S meetings

- a) 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.
 - b) 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.
 - c) The H&S Officer shall further ensure that H&S is discussed at all internal production or progress meetings.
 - d) Issues arising from the clients audits are to be discussed, as well as all H&S related issues.
 - e) Minutes are to be kept for all H&S interventions and meetings. Failure to do so will be deemed to be a moderate offence.
 - f) Every team that is allocated to a site should have someone competent to manage safety (Incident investigation/ daily risk assessment/ and feedback on other risk associated found)
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11.10. Appointment of Competent Contractors

- a) The Principal Contractor is to ensure compliance with the Client's minimum standards and all legislative requirements.

11.10.a.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.

- b) The Principal Contractor is responsible to ensure that competent Contractors are appointed to carry out maintenance work.
- c) The same H&S standards required of the PC are to be applied to all Contractors.
- d) An index of all Contractors and Suppliers is to be on file and kept updated at all times.
- e) 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.
- f) The PC is to ensure there is sufficient funding for H&S compliance by each Contractor.
- g) The following minimum aspects are applicable to any Contractor appointed:

11.10.g.1. Mandatory agreements in place

11.10.g.2. Letter of Good Standing

11.10.g.3. Method statements and risk assessments

11.10.g.4. Available information relative to:

11.10.g.4.1. Load testing and registers for cranes or lifting devices where there's new installation.

11.10.g.4.2. Medical certificates of fitness

11.10.g.4.3. Safety data sheets (SDSs)

- h) 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

12.5. Health Risks and Medical Surveillance

12.1 All permanent workers (including those of Contractors) are required to be in possession of a medical certificate of fitness issued by a registered Occupational Medical Practitioner prior to commencing work. Medical surveillance will commence at pre-employment.

12.2 All workers (including Contractors) are required to be in possession of a medical certificate of fitness

prior to commencing work.

- a) Employees required to perform work at heights or from fall risk position must be medically fit to perform such work, such employee's medicals must specify "Fall Risk" or "Working at heights" in the exposure section of the annexure 3 template. Where applicable,
 - b) Annual medical surveillance is required (unless identified as being required more frequently), as well as an exit medical.
 - c) Arrangements for keeping medical records for the required time are to be noted.
 - d) It is preferable that the PC has a medical surveillance plan.
 1. Where work is performed at a TB Hospital we need:
 - a. Proper ventilation when working in confined areas.
 - b. FFP2 Mask to be worn when working near patients' areas.
 - c. Medicals must be done for all with Lung function test as a must.
 2. Where working in Forensic facilities:
 - a. All employees working in areas where they might be exposed to body fluids must be vaccinated against Hepatitis B.
- ii. Failure to do so will be considered a serious offence.

12.5. General Environmental Conditions

- a) Compliance with the Environmental Regulations (as amended) as well as the Environmental Management Act, among others is required.
- b) Environmental monitoring of ventilation, lighting and dusts may be deemed to be required by the Approved Inspection Authority used to measure the environment.
- c) Copies of the relevant reports and actions taken in respect of these are to be placed in the H&S file.
- d) Any spillages of substances which could be toxic to persons and the environment must be dealt with adequately. The Contractor must include his spillage removal system in the OHS Plan. (spill kit to be carried with every bakkie)

12.6. Noise Risks

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

12.6.b.1. Failure to do so within a reasonable time will result in such plant/vehicle being removed from site.

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

12.6.c.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.

12.6.c.2. Audiometry records are to be available in the H&S file.

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

12.6.d.1. Failure to do so will be considered a serious offence.

12.7. **Emergency Procedures**

- a) The Principal Contractor must prepare a detailed emergency procedure manual for approval by the Client prior to commencement of work on the site.
- b) It is advised that the system should be simple and easy for any worker to follow.
- c) The plan may be adapted should new information or risks are identified.
- d) The procedures for dealing with the emergency evacuation of staff must be agreed upon with the Facility Management.
- e) All teams should have knowledge and skills for emergency (Per Bakkie Designation).

12.8. **First Aiders and First Aid Equipment**

- a. Competent, trained First Aider is to be formally appointed for the project.
- b. At least one worker is to be trained to level 3.
- c. First aider is to be available at all times and be able to cover each working team.
- d. Appropriately stocked first aid kits are to be available at all times and to assure continual availability and access on site.

12.9. **Fires and Emergency Management**

- a. Attention to emergency planning and procedures is very important.
- b. The full emergency plan must form part of the supporting documentation with the H&S Plan.
- c. It is advised that the system should be simple and easy for any worker to follow.
- d. The plan may be adapted should new information or risks are identified.
- e. 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.
- f. 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:
- g. Appointment of a competent emergency response co-ordinator.
- h. Fire Fighting equipment to be supplied per vehicle and a competent person per bakkie to be able to fight fire.

12.11 Incident Management and Compensation Claims

- a. The PC will ensure there is a management system to investigate all incidents.
 - b. All serious incidents involving any form of disabling injury or fatality are to be reported to the Client immediately.
 - c. This shall be confirmed in writing following the incident.
 - d. Full details are to be included in each site meeting or when the Client visits site.
 - e. A summary of incidents is to be included in the monthly report.
 - f. 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.
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g. Per team all employees to have knowledge of above.

12.12. **Personal Protective Equipment (PPE) and Clothing**

- a) The PC is to provide a procedure as an addendum to indicate how PPE is managed within the Company.
- b) The wearing of the identified SANS approved PPE at all times is non-negotiable.
- c) 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:
 - 12.12.c.1. Protective footwear.
 - 12.12.c.2. Reflective jackets (no bibs).
 - 12.12.c.3. Overalls that ensure worker visibility
 - 12.12.c.4. Eye protection;
 - 12.12.c.5. Hearing protection;
 - 12.12.c.6. Respiratory protection (minimum of FFP2), and
 - 12.12.c.7. Any other necessary PPE identified from SDSs and/or risk assessments.
- d) 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.
- e) Failure to comply will result in penalties being applied.

12.13. **Occupational Health and Safety Signage**

- a) On-site H&S signage is required.
 - 12.13.a.1. Signage shall be posted up at temporary working areas, or other potential risk areas/operations.
 - 12.13.a.2. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended.
- b) Temporary signage is to include (but not be limited to) the following:
 - 12.13.b.1. "Warning: Construction Site – Keep out' or similar.
 - 12.13.b.2. 'First aid box positions (including vehicles); and where one is working.
 - 12.13.b.3. Fire extinguishers.
- c) Failure to comply will result in penalties being applied.

12.14. **Induction of Employees and Visitors, General H&S Training (to be done at contractor's office/ workshop)**

- a) A formal induction programme is to be submitted as an addendum for approval with the H&S plan.
 - b) 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.
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12.14.b.1. Such training is to be done at least weekly.

12.14.b.2. Records of inductions and pre-task training are to be kept in the H&S file.

12.15. **Public and Health and Safety**

12.15.a.1. The Contractor shall ensure that each person working on or visiting a site, and the surrounding community, shall be made aware of the dangers likely to arise from onsite activities and the precautions to be observed to avoid or minimize those dangers. Appropriate health and safety signage shall be posted at all times.

12.15.a.2. Warning notices are to be provided at the main entrance to area of works to each hospital facility, notifying that construction work is taking place within the existing buildings.

12.15.a.3. Hoardings are to be inspected daily and monitored during working hours.

12.16. **Awareness and training**

a) The Principal Contractor shall ensure that periodic toolbox talks take place at least once per week at workshop or office area.

12.16.a.1. These talks should deal with risks relevant to the construction work at hand.

12.16.a.2. A record of attendance shall be kept in the Health & Safety File.

12.16.a.3. All Contractors must comply with this minimum requirement.

12.16.a.4. At least one of the Toolbox talks shall include an environmental related issue.

b) The Principal Contractor is to ensure that the facility Management & Staff are kept informed of any change in the situation regarding the risks and hazards relating to the maintenance work.

13. **MANAGEMENT OF PLANT AND EQUIPMENT**

13.12. **Construction Plant (where necessary)**

a) Construction Plant includes all types of plant including but not limited to, cranes, piling rigs, excavators, road vehicles, and all lifting equipment.

b) The Principal Contractor shall ensure that all such plant complies with the requirements of the OHS Act 85 of 1993 and Construction Regulations 2014

c) The Principal Contractor and all relevant Subcontractors shall inspect and keep records of inspections of the construction plant used on the project.

d) Only authorised/competent (certified) persons are to use machinery under proper supervision.

- e) Appropriate PPE and clothing must be provided and maintained in good condition at all times.
- f) Proof of medical evaluations as required by the Construction regulations is available for inspection by the Client.

13.13. **Plant & Equipment**

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

13.14. **Operators**

- a) Only competent, fit plant operators are to be used.
- b) Medical certificates of fitness are required for all operators.
- c) Operators are to be adequately trained and certified to operate mobile cranes or crane trucks.
- d) Certificates and registers are to be placed in the H&S file.
- e) Failure to do so will be considered a serious offence.

13.15. **Machinery and Power Tools**

- a) Only authorized competent persons are to operate machinery and power tools.
- b) Appropriate PPE and clothing must be provided, used and maintained.
- c) No unsafe / dangerous equipment or tools may be brought onto, or used, on the site.
- d) The Client / PSP 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.
- e) The Contractor may not use any machinery or power tools belonging to the Hospital.

13.16. **Portable Electrical Tools/Equipment and Explosive Powered Tools**

- a) The Principal Contractor shall ensure that use and storage of all explosive powered tools and portable electrical tools are in compliance with relevant legislation.
 - b) The Principal Contractor shall ensure that all-electrical tools, electrical distribution boards, extension leads, and plugs are kept in safe working order.
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- c) The Principal Contractor is to ensure that extension cables and temporary power supplies do not impede access ways or escape routes.
 - d) 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.
 - e) The Principal Contractor shall ensure the following:
 - 13.16.e.1. A competent person undertakes routine inspections and records are kept.
 - 13.16.e.2. Only authorised trained persons use the tools.
 - 13.16.e.3. The safe working procedures apply.
 - 13.16.e.4. Awareness training is carried out and compliance is enforced at all times.
 - 13.16.e.5. PPE and clothing is provided and maintained.
 - 13.16.e.6. Electrical cables must be free from any damage.
 - 13.16.e.7. Electrical tools & equipment may not be exposed to water.
 - 13.16.e.8. Signs to be posted up in the areas where explosive powered tools are being used.
(WARNING - EXPLOSIVE POWERED TOOL IN USE - KEEP CLEAR).
 - 13.16.e.9. That prior arrangement is made with the facility Maintenance Supervisor before any explosive powered tools are used.
- 13.17. **Hired Plant and Machinery (where applicable)**
- a) The Principal Contractor shall ensure that any hired plant and machinery used on site is safe for use.
 - b) The necessary requirements as stipulated by the OHS Act 85 of 1993 and Construction Regulations (February 2014) shall apply.
 - c) The Principal Contractor shall ensure that operators hired with machinery are competent and that certificates are kept on site in the health & safety file.
 - 13.17.c.1. This includes medical certificates of fitness to operate construction vehicles and appointment of the operator.
 - 13.17.c.2. All relevant Subcontractors must ensure the same.
 - d) Inspections must be recorded by each operator.
 - 13.17.d.1. A copy of the machines service logbook & planned maintenance schedule must be supplied with the machine.
 - e) Operators must be trained on the relevant risk assessments and safe working procedures.
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- f) The hired plant company must provide proof of registration with Workman's Compensation or FEM before delivery of plant to site.
- g) 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.

13.18. **Vessels under Pressure and Gas Bottles**

- a) The Principal Contractor and all relevant Subcontractors shall comply with the Vessels under Pressure Regulations, including:
 - 13.18.a.1. No smoking or naked flame signs posted as well as sufficient firefighting equipment.
 - 13.18.a.2. Cylinders must be stored in rows with aisles in between for easy removal in event of a fire.
 - 13.18.a.3. Different types of gasses will be stored separately in an upright position, separately secured and the type of gas displayed identified with appropriate signage.
 - 13.18.a.4. Before a cylinder is moved without suitable truck or trolley, the cylinder valve will be closed, and the regulator removed.
 - 13.18.a.5. Only approved cylinder crates/cradles will be used.
 - 13.18.a.6. Cylinders may not be transported with magnet cranes.
 - 13.18.a.7. Cylinders may never be used as rollers, even if they are marked empty.
 - 13.18.a.8. Cylinders may never be exposed to electrical circuits, e.g. welding leads. Never strike an arc on a cylinder.
 - 13.18.a.9. Cylinders must be protected from direct sunlight or areas that could cause the cylinder to overheat.
 - 13.18.a.10. Oxygen cylinders must be stored at least 5m away from other flammable gas cylinders.
 - 13.18.a.11. Flashback arrestors must be fitted to the torch and the cylinder.
 - 13.18.a.12. Empty cylinders must be marked as such and removed from site after use.
 - 13.18.a.13. 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.
 - 13.18.a.14. Visual inspections will be done by the appointed HCS Controller to ensure that substandard vessels are not delivered and stored on site.
 - 13.18.a.15. Hot works permit to be used in conjunction with welding.
 - 13.18.a.16. Pressure vessels must have a certificate of manufacture as well as a service
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inspection test certificate issued at intervals not exceeding 36 months. These certificates will need to be submitted to the Safety Department on site.

13.19. **Hand tools**

- a) No handmade or damaged tools may be used on site.
- b) The Principal Contractor needs to exercise control over all contractors on site.
- c) Hand tools may only be used for its intended purpose.
- d) A competent person must be appointed to inspect hand tools monthly.
- e) Inspections need to be recorded on a register and each tool identified with a unique number.

13.20. **Inspection of equipment and tools.**

- a) The following items of equipment must be inspected weekly and maintained, and appropriate records kept. Where applicable.

13.20.a.1. Vehicle to be inspected Daily (before leaving office/depot)

13.20.a.2. First Aid dressing registers

13.20.a.3. Fire equipment

13.20.a.4. Lifting equipment

13.20.a.5. Lifting Gear

13.20.a.6. Portable electrical equipment

13.20.a.7. Stacking and storage inspections

13.20.a.8. Explosive power tools

13.20.a.9. Hazardous Chemical Substances (HCS)

13.20.a.10. Materials hoists (where applicable)

13.20.a.11. Pressure Vessels

13.20.a.12. Ladders

13.20.a.13. Excavations

13.20.a.14. Safety harnesses

13.20.a.15. Scaffolds - static and mobile.

13.20.a.16. Pneumatic tools

13.20.a.17. Construction vehicles and mobile plant.

13.20.a.18. Health and Safety Representatives checklists.

13.21. **Ladders and ladder work where applicable**

- a) The Principal Contractor shall appoint a competent person in writing to inspect all ladders monthly and record such findings in a register.
 - b) Ladders are to extend one meter above a landing and must be secured at the top and have a secure, non-slip base.
-

- c) All ladders that do not comply with Health and Safety standards are to be removed from the facility immediately.

13.22. **Cranes and lifting equipment. (Where Applicable)**

- a) 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.
- b) 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).
- c) Method statements, risk assessments, safe work procedures and training are to be available prior to work commencing.
- d) A procedure for managing loads and lifting must be made available as an addendum to the H&S Plan.
- e) There must be competent lifting machinery and tackle inspector who must inspect the equipment daily or before use, considering that:
- f) All lifting machinery has a safe working load clearly indicated.
- g) All lifting equipment is clearly marked with a unique number and safe working load.
- h) Regular inspection and servicing is carried out:
 - 13.22.h.1. Lifting Machinery load test – every 12 months
 - 13.22.h.2. Lifting Machinery Inspection & service – every 6 months
 - 13.22.h.3. Lifting Tackle Load test – every 12 months
 - 13.22.h.4. Lifting Tackle Inspections – every 3 months
- i) Records are kept of inspections and of service certificates.
- j) 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.
- k) 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.
- l) 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.

14. WORKING PROCEDURES

14.12. **Site Works and Excavations not applicable in this contract.**

- a) A competent person is to be appointed in writing to supervise the Site Works and Excavations.
- b) 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.
- c) The Contractor is to ensure Risk Assessments & Safe Working procedures have been communicated to the workers before any work is commenced.

14.13. Working at Heights

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

14.13.a.1. The fall protection plan must be appropriate for the project.

14.13.a.2. Method statements, appropriate risk assessments, safe work procedures and training are to be available prior to work commencing.

14.14. Mechanical installations

- a) All mechanical installations are to be carried out in conformity with the manufacturer's instructions.
- b) Method statements and risk analyses must be compiled for each type of installation.
- c) A competent person must be designated to supervise the work.

14.15. Electrical work

- a) In addition to the requirements of the Electrical Machinery Regulations and the General Machinery Regulations any electrical distribution board used for maintenance work shall be fitted with suitable earth leakage protection.
- b) Leads must be properly and firmly connected.
- c) Plugs and sockets shall be in good and safe condition.
- d) 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.

14.15.d.1. A "lock out" sign shall be displayed when the apparatus is not in use.

- e) Method statements and safe work procedures will be required for all work involving electrical apparatus.

15. AUDITING

- a) Frequency of external auditing by the Client or client's agent will be as agreed with the contractor but will at least conform to the requirements of the Construction Regulations.
-

15.12.a.1. The site will be inspected, and the documentation audited relative to the activities and H&S plan.

15.12.a.2. The H&S Officer of the PC must assist the Client, on all audits and inspections.

15.12.a.3. Not all audits will be, or need be announced.

15.12.a.4. Full compliance is required, time limits for corrective actions will be set and must be adhered to.

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

16. OCCUPATIONAL HEALTH

16.12. Communication

a) All H&S communication during the project between the Client and the PC will be done in writing, including the issue and responses to non-conformances and H&S audit results.

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

16.13. Care of Workers on Site (Welfare)

a) Clean, safe drinking water to be provided to employees.

b) Provision for hand washing facilities to be arrange with facilities.

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

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

16.14. Discipline, Alcohol and Substance Abuse

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

16.14.a.1. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

b) 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.

16.14.b.1. The PC is to have a drug and alcohol policy available to manage such instances.

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

16.14.c.1. Penalties may also be applied by the Client, OHS Agent, Engineer or Principal Agent.

16.15. Compliance with the Rules of Conduct.

a) 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.

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

16.15.b.1. Electrical & Mechanical Engineering

16.15.b.2. Hospital Management and Staff

16.15.b.3. ECDoH Employees

16.15.b.4. Direct Contractors

16.15.b.5. Trade Representatives

16.15.b.6. Any other visitors to the Site.

16.16. **Electrical Equipment**

- a) 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.
- b) Leads must be properly and firmly connected.
- c) Plugs and sockets shall be in good and safe condition.
- d) 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.

16.16.d.1. A “lock out” sign shall be displayed when the apparatus is not in use.

- e) Method statements and safe work procedures will be required for all work involving electrical apparatus.

17. SAFETY RULES WITH RESPECT TO WORK TO HEALTH CARE FACILITIES

- a. All persons on the premises shall obey the ECDoH & facility’s Health and Safety rules, procedures and practices.
 - b. No smoking will be permitted within the buildings or within the buildings under construction.
 - c. 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.
 - i. 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.
 - ii. The Contractor is to agree the weekly work schedule in advance with the Client’s Agent.
 - d. 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.
 - e. Emergency / Firefighting equipment belonging to the premises is not to be interfered with.
-

- f. Emergency Exits and Escape Routes, including Temporary Escapes Routes are not to be obstructed.
- g. No persons shall carry out or initiate an unsafe / unhygienic act or operation whilst on the premises.
- h. Workers are not to interfere with the duties of the hospital, its staff, patients or visitors.
- i. The Contractor shall maintain good housekeeping standards in the areas being worked on throughout the duration of the contract.
- j. All waste / scrap materials are to be removed from the work areas on an on-going basis and should not be allowed to accumulate.
- k. The Client and facility Management reserves 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.
- l. The Client and health facility Management reserves the right to search all vehicles entering, leaving or parked on the premises and to inspect any parcel, package, handbag, tog-bag or suitcase.
- m. The health facility reserves the right to search any person entering or leaving the health facility premises.
- n. All workers must wear proper identification labels at all times – The Contractor will be asked to remove persons without identification from the premises.
- o. The Contractor will not be permitted to use any tools or equipment belonging to the health facility.
- p. 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.
- q. 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. Risk Associated

- a) Working on the existing facility that will remain in operation throughout the contract period.
 - b) Noise & vibration from maintenance activities and machines.
 - c) Obstruction of escape routes.
 - d) Working in confined spaces.
 - e) Restricted access for materials and work areas.
 - f) Environmental pollution due to oil spillages.
-

- g) Poor road conditions.
- h) Stray animals.
- i) Other road users.
- j) Live electrical connections.
- k) Working with hot surfaces.
- l) Biological hazards.
- m) Cuts by sharp objects.
- n) Slips and falls from wet floors.
- o) Ergonomic risks from lifting heavy equipment.

18. **HEALTH AND SAFETY FILE**

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

18.13. 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.

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

- a) The PSHSS;
 - b) The H&S Plan and the approval by Client;
 - c) Appointment by Client;
 - d) Mandatory agreement with Client;
 - e) Notification of construction work (Not applicable)
 - f) A record of all working drawings, calculations and design where applicable;
 - g) Detailed list of Contractors with contact details, appointments, Mandatories etc., H&S specifications issued;
 - h) Record of Competencies (CVs) and appointments;
 - i) Training Records;
 - j) Permits;
 - k) Method statements;
 - l) Risk assessments;
 - m) Safe work procedures;
 - n) Emergency and injury management;
 - o) Safety data sheets
 - p) Medical surveillance records;
 - q) Registers;
 - r) Records of audits, minutes etc.
 - s) Plant lists
 - t) Temporary electrical installations
-

- u) Employee records (who is on site)

19. NON-CONFORMANCES

19.12. 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.

19.13. 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 without approved method statements	

19.14. **Failure to Comply with Provisions**

- a) 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:

19.14.a.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.

19.14.a.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.

19.14.a.3. The site instruction shall state the agreed time, which shall be the time in hours for reinstatement of the defects.

19.14.a.4. Should the Contractor fail to adhere to this instruction, the time-related penalty shall be applied from the time the instruction was given.

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) Client'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 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.

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 Client		

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Health and Safety Officer: _____ **Signature:** _____

Date: _____

Construction Manager: _____ **Signature:** _____

Date: _____

ANNEXURE E - Guidelines to Health and Safety Bill of Quantities

DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
				R	C
Preparation of principal contractor's site-specific health and safety plan, safety file, risk assessments, fall prevention/protection plan, Annexure 2 notification to Dept of Labour, demolition method statement, other method statements requested to be prepared for safety reasons, permits, amendments to safety plan during course of project, traffic management / accommodation plans, and any other legally required health and safety documentation	Lump sum	Lump sum			
Provision of current workman's compensation cover for employees for the project, and ensuring that contractors appointed have such cover too	Lump sum	Lump sum			
Health and safety management of principal contractor's employees and contractors' employees	Lump sum	Lump sum			
Provision of full time Construction Manager for site, provision of Alternate Construction Manager in absence of Construction Manager and provision of sufficient safety supervision on site	Lump sum	Lump sum			
Provision of full time Health & Safety Officer for site (refer to safety specification for full time / part time requirement) and preparation of safety reports after each safety inspection	Lump sum	Lump sum			
Competence assessment, appointment and required competence and safety training of all principal contractor's legally required appointments for the project	Lump sum	Lump sum			
Maintenance of principal contractor's plant and equipment to be in safe condition, including inspection registers, inspections by competent persons, thorough examination certificates, hand over certificates and related documentation	Lump sum	monthly			
Provision of general safety signage (e.g., first aid, firefighting, traffic safety, excavations, workman ahead, noise zones, etc.)	Lump sum	monthly			
Each Bakkie to have Safety File for Emergency and registers	Lump sum	Lump sum			
DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
				R	C
Provision of medical certificates of fitness for employees (Annexure 3)	Lump sum	Lump sum			
Provision of personal protective equipment (PPE) by to employees e.g. <ul style="list-style-type: none"> • Work suits with reflective strips. • hard hats (where applicable) • protective footwear • hearing protection • respiratory protection • safety eyewear • gloves 	Lump sum	Lump sum			

• Spill Kits etc.					
Holding of safety meetings with safety representatives and safety officers at workshop on at least weekly basis	Lump sum	monthly			

DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
				R	C
Provision of site-specific health and safety induction trainings for all at Workshop / Office	Lump sum	Lump sum			
Provision of sufficient First Aiders for site as per legal requirements	Lump sum	Lump sum			
Provision of First Aid Boxes per bakkie as per legal requirements	Lump sum	Lump sum			
Provision of sufficient fire extinguishing equipment per bakkie.	Lump sum	Lump sum			
Provision for safe disposal of waste, spill kits, safe housekeeping, and storage practices	Lump sum	Lump sum			
Compilation of consolidated Safety File at Close Out stage and handover of file to the client in a digital format	Lump sum	Lump sum			
Any other compliance item in site specific safety specification issued by project client/ safety agent with potential cost implication	Lump sum	Lump sum			
• Item 1					
• Item 2					
• Item 3					
• Item 4					
• Item 5					
Principal contractor's general compliance with respect to the Occupational Health and Safety Act, Construction and other health and safety Regulations apart from other provisions in this bill.	Lump sum	Lump sum			
SUMMARY TOTAL OHS COST PROVISION					

PART C4: SITE INFORMATION

C4.1: SITE INFORMATION

PROJECT NAME	SCHEDULE MAINTENANCE OF BOILERS & CALORIFIERS IN CLUSTER 1 – HEALTH FACILITIES (36 MONTHS)
TENDER No.	SCMU3-23/24-0790-HO

C4 Site Information

1. GENERAL

1. The Standard for Uniformity in Construction Procurement published in terms of the Construction Industry Development Board (CIDB) Act, 2000 (Act no 38 of 2000), the Standardized Construction Procurement Documents for Engineering and Construction Works as issued by the CIDB and any other relevant documentation pertaining thereto must be studied and all principles in this regard must be applied to all procurement documentation, practices and procedures.
 2. The Supplier must acquaint themselves fully with all matters pertaining to this section in order to enable prospective Suppliers to price for all eventualities.
 3. All hospitals are functional, caution must be taken in terms of contractor movement and noise.
 4. The employer will advise will confirm where the stripped materials need to be disposed.
-

LIST OF FACILITIES IN CLUSTER 1

OR Tambo District

Item No.	Facility Name
1	Holy Cross Hospital
2	St Elizabeths' Hospital
3	Bambisana Hospital
4	Nessie Knight Hospital
5	Dr Malizo Mpehle Memorial Hospital
6	Isilimela Hospital
7	Port St Johns CHC
8	Nelson Mandela Academic Hospital
9	Mthatha General Hospital
10	Canzibe Hospital
11	St Barnabas Hospital
12	St Lucy hospital

Alfred Nzo District

Item No.	Facility Name
1	St Patrick's Hospital
2	Greenville Hospital
3	Mount Ayliff Hospital
4	Afsondering Clinic
5	Umtumase Clinic
6	Queen's Mercy Clinic
7	Khotsong TB Hospital
8	Taylor Bequest Hospital



PART C4.2

EASTERN CAPE DEPARTMENT OF HEALTH

SUPPLEMENTARY TECHNICAL SPECIFICATION

FOR THE

GENERAL MAINTENANCE AND REPAIRS

OF

BOILERS & CALORIFIERS

AT

VARIOUS HOSPITALS AND HEALTH FACILITIES IN

THE

CLUSTER ONE – ALFRED NZO & O.R. TAMBO DISTRICT

OF THE EASTERN CAPE PROVINCE

SUPPLEMENTARY TECHNICAL SPECIFICATION FOR REPAIRS TO BOILERS AND CALORIFIERS

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BOILERS AND BOILER AUXILIARY PLANT, STEAM PIPE NETWORKS AND STEAM CALORIFIERS

SS 1. GENERAL

This specification is for the repair and fixed term maintenance of Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers installations at various hospitals and health facilities listed in paragraph SS 3 of Cluster 2.

This specification shall be read in conjunction with the following documents:

1. Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers Service Information, which will include the:
 - 1.1. Standard Specifications for the General Maintenance and Repairs to Electrical and Mechanical Installations for Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers,
 - 1.2. Technical Specifications for Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers that may be applicable,
 - 1.3. This Supplementary Specification for Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers,
 - 1.4. Operating and Maintenance Manuals for Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers (where applicable),
 - 1.5. Relevant Inspection Check sheets for Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers,
 - 1.6. Maintenance Control Plan per Health Facility for this Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers,
2. All relevant National Standards and Legislation that is referred to in the Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers Service Information, and
3. The General Conditions of Tender and all Schedules and Drawings forming part of the Tender.

Where specifications and/or drawings are at variance this Supplementary Specification will have

preference over both the Standard Specifications and the Drawings.

Maintenance and servicing shall be carried out strictly as stated in the service schedules and after each service a copy of the service schedule duly completed and signed shall be submitted to the responsible Service Manager.

SS 2. EQUIPMENT INSTALLATIONS

The following equipment installations shall be maintained and repaired as part of this contract:

1. Boiler;
2. Boiler water Treatment Plant and associated piping, pumps and storage;
3. Boiler Feed Water supply;
4. Boiler Fuel Feed Plant;
5. Boiler Fuel Storage Plant;
6. Boiler House Hot wells;
7. All steam pipes, valves and manifolds inside the Boiler House;
8. Steam and Condensate Reticulation Pipe Network, fittings, support structures, tanks, pumps and metering;
9. Steam operated Calorifiers and related fixtures and fittings.

SS 3. SCOPE OF WORK

This specification is for the repair, maintenance and proper functioning of Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers installations, for the duration of the Contract period, in the following Health facilities:

OR Tambo District

Item No.	Facility Name
1	Holy Cross Hospital
2	St Elizabeths' Hospital
3	Bambisana Hospital
4	Nessie Knight Hospital
5	Dr Malizo Mpehle Memorial Hospital
6	Isilimela Hospital
7	Port St Johns CHC
8	Nelson Mandela Academic Hospital
9	Mthatha General Hospital
10	Canzibe Hospital
11	St Barnabas Hospital
12	St Lucy hospital
13	Zitulele Hospital

Alfred Nzo District

Item No.	Facility Name
1	St Patrick's Hospital
2	Greenville Hospital
3	Mount Ayliff Hospital
4	Afsondering Clinic
5	Umtumase Clinic
6	Queen's Mercy Clinic
7	Khotsong TB Hospital
8	Tayler Bequest Hospital

Details of the work required shall be as listed in the Price Lists which have been sub-divided into the following categories:

SCHEDULE 1: FIXED CHARGE AND VALUE RELATED ITEMS APPLICABLE TO ALL WORK

SCHEDULE 2: FUNCTIONAL REPAIR SCHEDULE

SCHEDULE 3: MAINTENANCE SERVICE SCHEDULE

SCHEDULE 4: TERM REPAIRS SUBJECT TO APPROVAL OF QUOTATION FOR THE WORKS

Note: The repair work included in Schedules 1 to 5 has been subdivided for each Health Facility where applicable.

The repair and maintenance phases shall run in parallel as specified in GM 2.4. The equipment to be repaired and maintained is listed under the Inventories of Equipment in C4.1.

The maintenance work (Minor and Major Services) required on the equipment listed in the Inventory of the attached C4.1, will be as per the pricing of the Schedule 3 Price List, but subject to the scheduling and remeasuring of quantities as contained in the final Maintenance Control

Plan as per paragraph GM 3.3. All work must comply to the minimum requirements set by the Service Information for the Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers installations

The repair work will be as per the Schedule 4 Price List, but subject to work being accepted by the

Service Manager from the Repair Schedule as per GM 2.6. Due to limited funds and as specified in paragraph GM 2.8, some of the repair work may be stretched over two or more financial years. The repair work for the first financial year will commence only after the Contractor has been issued with a written instruction (Task Order as per GM 2.4) to proceed with the specified work by the Service Manager once the relevant Repair Schedule has been accepted and the relevant repairs approved by the Employer.

SS 4. INSPECTION OF THE SITE

Due to the large number of, and area over which the Health Facilities covered by this Contract is spread, it is the Contractor's own choice if he wants to inspect the sites prior to tendering to ascertain the condition of the equipment, or rely solely on the information provided as part of the Tender Documentation and single site tender briefing meeting as per GM 1. No further claims due to non-compliance with this requirement shall be entertained.

SS 5. STATUTORY AND REGULATORY REQUIREMENTS

The latest edition, including all amendments up to the date of Tender, of the specifications, publications and codes of practice listed in the Service Information for Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers Equipment shall be read in conjunction with this specification and shall be deemed to form part thereof.

All equipment that is subject to regular statutory inspections such as pressure vessels and lifts, shall be prepared for statutory inspections and tests only when the validity of the existing certificates has expired, or if the validity cannot be accurately verified. This work will form part of the maintenance phase of the contract.

SS 6. GENERAL REQUIREMENTS FOR REPAIR AND MAINTENANCE CONTRACTS

Whenever reference is made in the specifications to repairs and/or repair phase it shall mean the repairs required to the installation to bring the installation up to a standard, as described in the Service Information. In general, the repair work shall commence only after the Functional Condition Assessment Report has been accepted and the quantities verified.

Maintenance work must be completed according to the approved Maintenance Control Plan. (See GM 3.3). Repair work can only commence once the Service Manager has accepted it and issued a Task Order (See GM 2.8), or a Breakdown Task Order has been issued by the Call Centre. Critical repairs may be carried out immediately with the approval of the Service Manager, but will be priced as per the guidelines of GM 2.8 and subject to the General Contractual Conditions.

SS 7. ROUTINE SERVICING AND MAINTENANCE WORK

Maintenance of the Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers may include, but is not limited to inspect, service and/or replace the following:

1. Piping
 2. Boilers
 3. Pressure Gauges
 4. Water Gauges
 5. Level Controllers and Pressure Switches
 6. Temperature Gauges
 7. Safety Valves
 8. Stokers and Feeders
 9. Electrical Equipment
 10. Boiler Water Treatment Plant (Water Softening) and Boiler Feed Water
 11. Blowdown Valves and Blowdown Pots
 12. Hot wells
 13. Statutory Inspection
 14. Steam piping and related fixtures
 15. Condensate piping and related fixtures
 16. Pipe bridges and other supporting structures
 17. Tanks and pumps
 18. Calorifier vessels
 19. Insulation and cladding
 20. Drain and safety valves and piping
 21. Anodes
 22. Pressure gauges
 23. Stop cocks
 24. Fusible plugs
 25. U-tubes and coils
 26. Steam condensate separator
 27. Condensate line valves on separator
 28. Strainers
 29. Main steam valves
 30. High limit protection unit
 31. High limit cut-out shuttle valve and trigger
 32. Temperature control valve
-

33. Fail safe actuator unit
34. Pneumatic controls
35. High limit temperature sensor
36. Capillary tubes
37. Control valves
38. All safety systems
39. Electrical control panel, switchgear, warning lamps and wiring
40. Electrical meters
41. Electrical installation (lighting, socket outlets etc.)
42. Signage
43. Training
44. Housekeeping

SS 8. TRAINING OF THE DEPARTMENT'S MAINTENANCE STAFF

It is required of this contract that the Contractor arrange for the non-accredited theoretical and practical training of at least three maintenance personnel employed by the Department at each Health Facility specified in the Supplementary Specification. The Contractor shall ensure that the training is carried out by persons well qualified for the various tasks and shall call upon the services of experts from the various component manufacturers for assistance if need be.

The Contractor shall ensure that his own maintenance personnel are sufficiently qualified for the duties required.

Maintenance staff must receive enough instructions to ensure that they are fully conversant with the equipment concerned, and so that they can understand what the impact of their actions (or lack thereof) will be on the equipment. This non-accredited training of the Health Facility's Employees shall be for a minimum duration of 40 hours, which shall include, but not necessarily be limited to, instruction on the operation and maintenance of the following items:

1. Piping
2. Boilers
3. Pressure Gauges
4. Water Gauges
5. Level Controllers and Pressure Switches
6. Temperature Gauges
7. Safety Valves
8. Stokers and Feeders
9. Electrical Equipment
10. Boiler Water Treatment Plant (Water Softening) and Boiler Feed Water

11. Blowdown Valves and Blowdown Pot
12. Hot wells
13. Statutory Inspection
14. Steam piping and related fixtures
15. Condensate piping and related fixtures
16. Pipe bridges and other supporting structures
 17. Tanks and pumps
 18. Calorifier vessels
 19. Insulation and cladding
 20. Drain and safety valves and piping
 21. Anodes
 22. Pressure gauges
 23. Stop cocks
 24. Fusible plugs
 25. U-tubes and coils
 26. Steam condensate separator
 27. Condensate line valves on separator
 28. Strainers
 29. Main steam valves
 30. High limit protection unit
 31. High limit cut-out shuttle valve and trigger
 32. Temperature control valve
 33. Fail safe actuator unit
 34. Pneumatic controls
 35. High limit temperature sensor
 36. Capillary tubes
 37. Control valves
 38. All safety systems
 39. Electrical control panel, switchgear, warning lamps and wiring
 40. Electrical meters
 41. Electrical installation (lighting, socket outlets etc.)
 42. Signage

The training should be aligned to the general tasks contained in the Inspection and Servicing Guideline for the Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers and OEM Operation and Maintenance Manuals.

SS 9. TRAINING OF DEPARTMENTS OPERATING STAFF

The Contractor shall be responsible for the non-accredited training of the Department's operating staff

after the maintenance and/or repairs has been completed. Operating staff must receive enough instructions to ensure that they are fully conversant with the equipment concerned, and so that they can understand what the impact of their actions (or lack thereof) will be on the equipment.

The Employer will provide their own operators, at some point during the contract period, that will receive additional on the job training in boiler operations by shadowing the Contractor's boiler operators, so that the Employer can safely operate their own boilers once this Contract expires.

Operating staff shall be instructed on:

1. The general operating method of the plant;
2. Starting and stopping instructions;
3. Stopping the plant or unit in emergency and warning against restarting after an emergency unless a competent person is present;
4. Positions and normal settings of control equipment;
5. Normal operating temperatures, pressure, differential pressures etc.;
6. Safety measures, especially against high voltages;
7. Normal liquid levels in sumps, etc.;
8. Operational checks on sight glasses, running amperages, etc.;
9. Name, address and telephone number of the competent person responsible for the maintenance of the plant or unit.
10. Maintenance Log Book (Update maintenance and service records into Log Book)

The operating and maintenance manual must be available during the training of operating staff.

Operating staff must also be made conversant with the contents of the manual.

All instrumentation such as thermometers, pressure gauges, manometers, etc. shall be marked at the operating point under normal conditions. Such markings shall be neatly done on the scale itself where possible or alternatively on the protecting glass cover.

SS 10. COMPETENT PERSON ON SITE

It is not a Condition of Contract that a Competent Person must be full time on site. Payment reductions will however be imposed if repairs are not carried out within the time limitations specified in Paragraph GM 7: Maximum Maintenance Down-Time. Contractors are therefore advised to evaluate the additional expense required for a competent person on site, where it makes sense to do so, to ensure quick response against the possibilities of payment reductions, before submitting a Tender.

SS 11. CLASSIFICATION OF BREAKDOWNS

The classification of breakdowns specific to Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers shall be as follows in line with the requirements of GM 7:

1. Piping

P1 = Steam and Hot water leaks (especially where it is accessible by staff and the public)

2. Boilers

(P1 = general focus on damage to boiler and risk to personnel) P1 = Over pressure and / or temperature of the boiler system

P2 = Focus on Boiler not at risk, but failure of the equipment will shut the boiler down P3 /4 Boiler can continue operating, but must be monitored closer till repair is done

3. Level Controllers and Pressure Switches

P1 = Any fault with the Level Controllers (including Mowbrey Controller) and Pressure Switches

4. Temperature Gauges

P2 = Any high temperature reading or failure of a Temperature Gauge

5. Safety Valves

P1 = any failure or operation of a safety device

6. Stokers, Feeders, ID and FD Fans

P2 = Stoker or chain grate breakdown or malfunction (if grate malfunctions the operator must implement relevant emergency shut down procedure to protect the chain grate)

P2 = Fan failure (as boiler will shut down)

7. Electrical Equipment

P1 = Any failure on instrumentation (implement applicable boiler emergency procedure)

P2 = Any electrical failure of boiler control system and drives (implement applicable boiler emergency procedure)

8. Boiler Water Treatment Plant (Water Softening) and Boiler Feed Water

P1 = Boiler Feed Water failure P3 = Water Softener Plant failure

P3 = If main Feed Water Pump failed and Stand-by Feed Water Pump is running. If no pump operable = P1

9. Blowdown Valves and Blowdown Pots

P3/4 = Malfunction of Blowdown Valves and Pots

10. Hot Wells

P2 = Hot Wells overflowing or leaking

11. Calorifiers

P1 = Not heating the water at all or sufficiently

P1 = Water and or steam leak from the Calorifier

P2 = Water temperature higher than 70 degrees

PRIORITY	DESCRIPTION	RESPONSE
P1	Emergency (Life Threatening)	Immediate response from the time of logging a call and the emergency to be resolved (at least temporarily) within 8 hours
P2	Urgent	Immediate response from the time of logging a call and to be resolved within 12 hours
P3	Planned Maintenance Repairs	Scheduled Maintenance is to be scheduled and performed within 3 business days of the scheduled date
P4	Emergency Facility Repairs	7 Days planning and execution subject to supply chain regulations

SS 12. PENALTIES

Penalties applicable to this specification will be as per the criteria specified in Section X17 of the Secondary Options Clauses of the Contract, and C1.2b Annexure CD.

SS 13. SPECIAL SAFETY, HEALTH, ENVIRONMENTAL AND QUALITY REQUIREMENTS

In addition to the general SHEQ requirements as per GM 2.15, the following additional requirements will apply to this Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers:

Due to the type of equipment and risk of injury to personnel working on them, it is of the utmost importance that the relevant staff are supplied with and trained in the use of the relevant PPE while working on the boiler and boiler auxiliary plant equipment.

This as a minimum must include:

- Safety Boots
- Boiler Suit
- High Temperature gloves
- Clear Safety glasses

- Clear face shield
- Hearing protection
- Dust Mask for when working with coal, soot and ash
- Neoprene/Rubber gloves for working with liquid fuels and chemicals

To comply with environmental requirements, the Contractor must always have a basic spill control kit in his vehicle to assist with the cleanup of any spilled oils, etc. during the course of their work on site.

SS 14. SPECIAL TOOLING REQUIREMENTS

In addition to the general tooling that the Contractor should have, the following additional requirements will apply to Boilers and Boiler Auxiliary Plant, Steam Pipe Networks and Steam Calorifiers:

- Bearing Stethoscope
- Vibration Measurement Pen
- Infrared Temperature Gun
- Combustion Analyser
- Flow measurement devices to measure fuel, water and steam flows

SS 15. IN-SERVICE TRAINING OF SELECTED TRAINEES

The Contractor can be required to provide In-Service Training for selected Interns and/or Graduates from the areas where the Services are to be provided as per the conditions contained in C3.3. A provisional sum to cover the salaries for these trainees will be included into the Price list.

SS 16. ACCREDITED TRAINING

The Service Manager can at his discretion instruct the Contractor via a Task Order to arrange **accredited** theoretical and practical training from the Equipment OEM, or other suitably qualified service providers, for some or all of the operating and maintenance staff working with these assets at each facility. Approval to proceed will be based on acceptance of the proven cost quotation plus agreed Direct Fee percentage as per GM 2.8.1 & Clause 11.2(8) that the Contractor must provide. Each participant that successfully completes the course must be provided with a certificate as proof thereof. It shall be required from the Contractor to provide proof of attendance of such training activities.

A Provisional Sum has been provided in the Price List to cover these expenses.

C3.2: STEAM BOILER DAILY INSPECTIONS

Note:

Daily inspections must be conducted by the boiler operator.

Results and findings must be entered in the boiler log book and signed by the relevant boiler operator.

The tasks listed is for a generic service regime. Where this Task List included below does not include manufacture's servicing specifications, the Original Equipment Manufacturer's servicing specifications must be added, as all services are to be carried out in accordance with the manufacture's specification.

UNIT LOCATION		MAKE OF UNIT	
MODEL NO.		SERIAL NO.	

ITEM	DESCRIPTION	CHECK	READING	COMMENTS/RECOMMENDED REMEDIAL ACTION
1.	<u>General</u>			
1.1	Inspect boiler house to ensure housekeeping is being done. Floors, walls and windows must be clean and dust free.			
1.2	Check that nothing is being stored near or against the boiler and causing obstruction.			
1.3	Check that the boiler operators have a clear unobstructed view of the pressure gauges.			
1.4	Ensure that operators are able to reach the gauge glass blow down valves.			
1.5	Ensure that the operator has easy access to the control panel			
1.6	Check that lighting in the boiler house is adequate			
1.7	Check that all covers for cable and pipe trenches are in place			
1.8	Ensure that the operator has access to the crown and safety valves.			
1.9	Check the hotwell gauge glass and ensure that the hotwell is full and that the level is maintained.			
1.10	Check that firefighting equipment is available and in good operating condition			
1.11	Check that the boiler log books and service records are available, up to date and kept in a safe place			
1.12	Record work done and findings in boiler logbook.			
2	<u>Piping and valves (Inside Boiler House)</u>			
2.1	Check all isolating valves for leaks			

2.2.	Check all insulation and cladding on steam and condensate lines			
ITEM	DESCRIPTION	CHECK	READING	COMMENTS/RECOMMENDED REMEDIAL ACTION
2.3	Check that the hot well manhole is closed during normal boiler operation			
2.4	Check all pipelines and manifolds for leaks.			
3	<u>Boilers</u>			
3.1	Inspect the boiler and ensure that it is clean and wiped down at least once per shift			
3.2	Check that the insulation and cladding is in good condition			
3.3	Inspect the boiler shell for leaks and other anomalies			
3.4	Check hand hole and mud hole covers for leaks.			
3.5	Check the feed water pumps and piping. Ensure that there are no leaks			
3.6	Check the feed water pump bearings. (Noise, vibration and temperature) Use bearing stethoscope, vibration pen infrared gun			
3.7	Check that feed water isolation valves and reflux valves are in good working condition and not leaking			
3.8	Check that the feed water pumps meet the required duty			
3.9	Check the control panel. Gauges must be clean and legible.			
3.10	Check all instrumentation and indication. (Warning lights and alarm bells on the controllers.)			
3.11	Ensure that all gauges are reading accurately			
3.12	Check all instrumentation and indication. (Warning lights and alarm bells on the controllers.)			
4	<u>Appurtenances</u>			
4.1	<u>Pressure gauges</u> a) Check that the pressure gauge stop cocks are in good working condition.			
4.2	<u>Water gauges</u> a) Check that the water gauge glass tubes are in good condition. Glasses must not be cracked or discoloured b) Check water gauge glasses for leaks. Ensure seals are in good condition c) Check water gauge glass covers. They must be clean and sound			

ITEM	DESCRIPTION	CHECK	READING	COMMENTS/RECOMMENDED REMEDIAL ACTION
	d) Check that the chevron plates are clean and properly positioned			
	e) Check that the chevron plates are clean and properly positioned f) Check that the gauge glass stop cocks are in good working condition g) Check that the gauge glass blow-down valves are in good condition.			
4.3	<u>Level controllers and pressure switches</u> a) Check that the level controllers are working correctly b) Check the level controller blowdown valves. They must open and close freely			
4.4	<u>Temperature gauges</u> a) Check that the temperature gauges are in good condition and operating correctly.			
4.5	<u>Safety valves</u> a) Check that the boiler safety valves are shut (Not simmering) b) Safety valves covers must be in place and locked c) Ensure that a proving lever is available.			
5	<u>Stokers and feeders</u>			
5.1	Check coal elevators and feeders			
5.2	Check stoker drive mechanisms. (Gearbox, chains and sprockets)			
5.3	Ensure chain guard is in place			
5.4	Check electric motor. Ensure that the motor mounting bolts are secure. Check vibration and temperature. Ensure that the motor fan cover is in place and unobstructed			
5.5	Where V-belts are fitted ensure that the guards are in place			
6	<u>Horizontal boilers</u>			
6.1	a) Inspect chain grate for damage and missing links.			

ITEM	DESCRIPTION	CHECK	READING	COMMENTS/RECOMMENDED REMEDIAL ACTION
	b) Inspect undergrate dampers and ensure lever can move dampers freely			
	c) Check the guillotine door. Ensure it can be raised and lowered easily			
	d) Inspect FD and ID fans. Check couplings and /or belt drives ensure guards are in place.			
	e) Inspect dampers and ensure that they operate freely.			
	f) Check fan ducting.			
	g) Where cyclones are fitted check that they are working properly			
7	<u>Vertical boilers</u>			
	a) Check the coal hopper			
	b) Check the variable speed gearbox and drive.			
	c) Check the electric motor. Ensure that the motor mounting bolts are secure. Check vibration and temperature. Ensure that the motor fan cover is in place and unobstructed.			
	d) Check the FD fan and if fitted the ID fan.			
	e) Check that the air path around the retort and under the dead plate is clear and unobstructed			
8	<u>Electrical equipment</u>			
8.1	Check that electrical circuit drawings are available for reference purposes			
8.2	Check that all warning lights and metres are working			
8.3	Check that control panels are locked			
8.4	Check control panel instruments and indication (warning lights and alarms)			
8.5	Check that lighting is adequate			
9	<u>Water softening plant and chemical dosing</u>			
9.1	Check that the water softener installation is clean and tidy			
9.2	Check that the water softener is operating correctly and that salt is available for regeneration			
9.3	Check piping for leaks			
9.4	Check the chemical dosing pump. Ensure that it is working properly and can deliver at the required pressure and flow			

9.5	Ensure an adequate supply of WTW chemicals (Order if stock is below re-order level)			
ITEM	DESCRIPTION	CHECK	READING	COMMENTS/RECOMMENDED REMEDIAL ACTION
10	<u>Blowdown valves</u>			
10.1	Check that the blowdown valve can be opened and closed easily			
10.2	Check that the blowdown valve is not bypassing			
11	<u>Heavy Fuel Oil and Diesel Fired Boilers</u>			
11.1	Check fuel lines for leaks			
11.2	Inspect all fuel line valves			
12	<u>Burners</u>			
12.1	Remove the cover and clean the burner			
13	<u>Fuel Tanks</u>			
13.1	Inspect the fuel tanks			
13.2	Ensure that all fuel spills are cleaned up properly			
13.3	Ensure that the bund area around the tanks is clean			
13.4	Check that fuel tank filler caps are locked			
13.5	Ensure that there is an adequate supply of fuel.			
14	<u>Fuel Transfer Pumps</u>			
14.1	Inspect fuel pump, motor and coupling for any problems			
14.2	Inspect fuel strainer/filter and change-over and clean when necessary.			
15	<u>Daily Maintenance Tasks</u>			
15.1	Blow down the water columns (Open cocks slowly to prevent float damage) Ensure level recovers quickly when draincocks are closed.			
15.2	Blow down the bottom of the boiler			
15.3	Track boiler pressure and temperature to determine that it is keeping up with the load.			
15.4	Take a stack temperature reading to determine how efficiently the boiler is working. (50°C-100°C above steam or water temperature)			
15.5	Monitor water supply and condensate return temperatures.			
15.6	Check furnace and observe flame for evidence of impingement and sooting.			

15.7	Take water samples and ensure the water is clean and sediment free.			
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Notes:

1. Normal service components are to be included as part of the routine service
2. Faulty equipment must be reported, and recommendations made for remedial action (see schedules below)
3. Where electrical equipment is perceived to be faulty this must be reported (see schedules below)
4. Should components of the installation no longer comply with the latest regulations this must be noted. (See schedules below)

COMMENTS / RECOMMENDATIONS

CHECKED BY:

NAME :

SIGNATURE :

DATE :

HOSPITAL REPRESENTATIVE : NAME:

SIGNATURE:

Institution Stamp

DATE:

C3.3: STEAM BOILER WEEKLY INSPECTIONS**Note:**

Weekly inspections must be conducted by the boiler operator. Weekly inspections will include daily inspections.

Results and findings must be entered in the boiler log book and signed by the relevant boiler operator.

The tasks listed is for a generic service regime. Where this Task List included below does not include manufacture's servicing specifications, the Original Equipment Manufacturer's servicing specifications must be added, as all services are to be carried out in accordance with the manufacture's specification.

UNIT LOCATION		MAKE OF UNIT	
MODEL NO.		SERIAL NO.	

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
1	<u>General</u>			
1.1	As per daily inspections			
2	<u>Piping and valves (Inside BoilerHouse)</u>			
2.1	As per daily inspections.			
2.2	Check that all steam traps are in good working condition			
2.3	Check and clean all strainers			
2.4	Check all piping and manifolds for leaks			
3	<u>Boilers</u>			
3.1	As per daily inspections			
3.2	Check hand hole and mud hole covers for leaks. Renew gaskets if necessary			
3.3	Inspect the coupling. Ensure that it is good condition and that all bolts are tight			
3.4	Lubricate bearings at least once per week			
3.5	Check the control panel. Gauges must be clean and legible. Control knobs must not be cracked or broken. Replace any missing levers or control knobs			
3.6	Check that all wiring is clean and tidy and properly secured			
4	<u>Appurtenances</u>			

4.1	<u>Pressure gauges</u> a) As per daily inspections b) Check that the pressure gauges are properly supported. (Do not rely on the pressure gauge tubing to support the gauge)			
ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
4.2	<u>Water gauges</u> a) As per daily inspections			
4.3	<u>Level controllers and pressure switches</u> a) As per daily inspections			
4.4	<u>Temperature gauges</u> a) As per daily inspections			
4.5	<u>Safety valves</u> a) As per daily inspections b) Use the proving lever and ensure that the safety valve opens easily.			
4.6	<u>Stokers and feeders</u> a) As per daily inspections b) Lubricate chains and sprockets. Check chain tension and adjust if necessary c) Check oil level in gearbox d) Where V-belts are fitted ensure they are tensioned correctly and that the guards are in place.			
5	<u>Horizontal boilers</u>			
	a) As per daily inspections b) Inspect front and rear side seal and replace if necessary c) Check all carbofrax blocks and replace if necessary d) Inspect undergrate dampers and ensure lever can move dampers freely e) Check air guide vanes f) Ensure chain grate is tensioned properly Check the operation of the soot blowers g) Check the fire door davits h) Open fire doors and check the reversal chambers. They must be free of soot and coal dust i) Inspect ash removal door			

	<ul style="list-style-type: none"> j) Inspect FD and ID fans. Check couplings and/or belt drives. Ensure guards are in place k) Where VSD's are fitted they must be tested through the full range of operation l) Check fan ducting 			
ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
	<ul style="list-style-type: none"> m) Check the fire door davits n) Open fire doors and check the reversal chambers. They must be free of soot and coal dust o) Inspect ash removal door p) Inspect FD and ID fans. Check couplings and/or belt drives. Ensure guards are in place q) Where VSD's are fitted they must be tested through the full range of operation r) Check fan ducting s) Check the boiler chimney and chimney stay wires where fitted t) Where cyclones are fitted check that they are working properly 			
6	<p><u>Vertical boilers</u></p> <ul style="list-style-type: none"> a) As per daily inspections b) Check the variable speed gearbox and drive. Lubricate all points c) Check the V-belt tension and adjust if necessary d) Check the retort tuyers and deadplate. (Replace if cracked or damaged) e) Check the fuseable plug f) Check the chimney and chimney stay wires where fitted. 			
7	<p><u>Electrical equipment</u></p> <ul style="list-style-type: none"> a) As per daily inspections b) Check that isolators can be operated without having to open the panel doors c) Check that earthing conductors are connected and protected d) Check the indicating and running lights and alarms to make sure they are functioning properly 			

8	<u>Water softening plant and chemical dosing</u>			
	As per daily inspections			
9	<u>Blowdown valves</u> a) As per daily inspections b) Open and close blowdown valve to check operation. Valve must move freely and shut off properly			
ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
10	<u>Heavy Fuel Oil and Diesel Fired Boilers</u> a) As per daily inspections			
10.1	<u>Burners</u> a) Inspect the fuel atomizing nozzles. Replace if necessary b) Clean the ignition rods c) Clean the photo cell			
11	<u>Fuel Tanks</u> a) Inspect the fuel tanks b) Clean and service fuel heaters if installed c) Check the bund walls for cracks and holes			
12	<u>Fuel Transfer Pumps</u>			
12.1	Inspect fuel pump, motor and coupling for any problems			
12.2	Inspect fuel strainer/filter and change-over and clean when necessary.			
13	<u>Maintenance Tasks</u>			
13.1	Blow down the water columns (Open cocks slowly to prevent float damage) Ensure level recovers quickly when drain cocks are closed.			
13.2	Blow down the bottom of the boiler			
13.3	Track boiler pressure and temperature to determine that it is keeping up with the load.			
13.4	Take a stack temperature reading to determine how efficiently the boiler is working. (50°C-100°C above steam or water temperature)			
13.5	Monitor water supply and condensate return temperatures			
13.6	Check furnace and observe flame for evidence of impingement and sooting.			
13.7	Take water samples and ensure the water is clean and sediment free.			
13.8	Conduct an evaporation test on the low water level controls to ensure proper operation. For boilers with burners ensure burner shut off at the low water point			

13.9	Check the single point positioning system of the burner, if applicable, look for wear, slip and hysteresis.			
13.10	Observe the operation of the modulating controls. While watching the pressure gauge ensure that the modulating controls are switching at the set points.			
13.11	Pull out the flame scanner to ensure the burner shuts off at the prescribed time.			

Notes:

1. Normal service components are to be included as part of the routine service
2. Faulty equipment must be reported and recommendations made for remedial action (see schedules below)
3. Where electrical equipment is perceived to be faulty this must be reported (see schedules below)
4. Should components of the installation no longer comply with the latest regulations this must be noted. (see schedules below)

COMMENTS / RECOMMENDATIONS

CHECKED BY:

NAME :

SIGNATURE :

DATE :

HOSPITAL REPRESENTATIVE : NAME:

SIGNATURE:

DATE:

Institution Stamp

C3.4: STEAM BOILER MONTHLY INSPECTIONSNote:

Monthly inspections must be conducted by the Boiler Service Provider.

The Monthly Inspection will replace the Weekly inspection that falls in the same week, but will be done by the Service Provider.

Results and findings must be entered in the boiler log book and signed by the relevant boiler operator.

The tasks listed is for a generic service regime. Where this Task List included below does not include manufacture's servicing specifications, the Original Equipment Manufacturer's servicing specifications must be added, as all services are to be carried out in accordance with the manufacture's specification.

UNIT LOCATION		MAKE OF UNIT	
MODEL NO.		SERIAL NO.	

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
4	<u>Appurtenances</u>			
4.1	<u>Pressure gauges</u> As per daily inspections Check that the pressure gauges are properly supported. (Do not rely on the pressure gauge tubing to support the gauge)			
4.2	<u>Water gauges</u> As per daily inspections			
4.3	<u>Level controllers and pressure switches</u> As per daily inspections			
4.4	<u>Temperature gauges</u> As per daily inspections			
4.5	<u>Safety valves</u> As per daily inspections Use the proving lever and ensure that the safety valve opens easily.			
4.6	<u>Stokers and feeders</u> As per daily inspections Lubricate chains and sprockets. Check chain tension and adjust if necessary Check oil level in gearbox Where V-belts are fitted ensure they are tensioned correctly and that the guards are in place			
5	<u>Horizontal boilers</u>			
	As per daily inspections Inspect front and rear side seal and replace if necessary			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
	<p>As per daily inspections Inspect front and rear side seal and replace if necessary Check all carbofrax blocks and replace if necessary Inspect undergrate dampers and ensure lever can move dampers freely Check air guide vanes Ensure chain grate is tensioned properly Check the operation of the soot blowers Check the fire door davits Open fire doors and check the reversal chambers. They must be free of soot and coal dust Inspect ash removal door Inspect FD and ID fans. Check couplings and/or belt drives. Ensure guards are in place Where VSD's are fitted they must be tested through the full range of operation Check fan ducting Check the boiler chimney and chimney stay wires where fitted</p> <p>Where cyclones are fitted check that they are working properly</p>			
6	<p><u>Vertical boilers</u></p> <p>As per daily inspections Check the variable speed gearbox and drive. Lubricate all points Check the V-belt tension and adjust if necessary</p>			
	<p>Check the retort tuyers and deadplate. (Replace if cracked or damaged) Check the fuseable plug Check the chimney and chimney stay wires where fitted</p>			
7	<p><u>Electrical equipment</u></p> <p>As per daily inspections Check that isolators can be operated without having to open the panel doors</p>			
	<p>Check that earthing conductors are connected and protected Check the indicating and running lights and alarms to make sure they are functioning properly</p>			
8	<p><u>Water softening plant and chemical dosing</u></p> <p>As per daily inspections</p>			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
9	<u>Blowdown valves</u> As per daily inspections Open and close blowdown valve to check operation. Valve must move freely and shut off properly			
10	<u>Heavy Fuel Oil and Diesel Fired Boilers</u> As per daily inspections			
10.1	<u>Burners</u> Inspect the fuel atomizing nozzles. Replace if necessary Clean the ignition rods Clean the photo cell			
11	<u>Fuel Tanks</u> Inspect the fuel tanks Clean and service fuel heaters if installed			
	Check the bund walls for cracks and holes			
12	<u>Fuel Transfer Pumps</u>			
12.1	Inspect fuel pump, motor and coupling for any problems			
12.2	Inspect fuel strainer/filter and change-over and clean when necessary.			
13	<u>Maintenance Tasks</u>			
13.1	Blow down the water columns (Open cocks slowly to prevent float damage) Ensure level recovers quickly when drain cocks are closed.			
13.2	Blow down the bottom of the boiler			
13.3	Track boiler pressure and temperature to determine that it is keeping up with the load.			
13.4	Take a stack temperature reading to determine how efficiently the boiler is working. (50°C-100°C above steam or water temperature)			
13.5	Monitor water supply and condensate return temperatures			
13.6	Check furnace and observe flame for evidence of impingement and sooting.			
13.7	Take water samples and ensure the water is clean and sediment free.			
13.8	Conduct an evaporation test on the low water level controls to ensure proper operation. For boilers with burners ensure burner shut off at the low waterpoint			
13.9	Check the single point positioning system of the burner, if applicable, look for wear, slip and hysteresis.			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
13.10	Observe the operation of the modulating controls. While watching the pressure gauge ensure that the modulating controls are switching at the set points.			
13.11	Pull out the flame scanner to ensure the burner shuts off at the prescribed time.			

C3.5: STEAM BOILER ANNUAL INSPECTIONS

Note:

Annual inspections must be conducted by a competent contractor. The annual inspection will include all checks as listed hereunder.

Results and findings must be entered in the boiler log book and signed by the relevant contractor.

The tasks listed is for a generic service regime. Where this Task List included below does not include manufacture's sEquipment Manufacturer's servicing specifications must be added, as all services are to be carried out in accordance

UNIT LOCATION		MAKE OF UNIT	
MODEL NO.		SERIAL NO.	

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
1	General			
1.1	Inspect boiler house to ensure housekeeping is being done. Floors, walls and windows must be clean and dust free.			
1.2	Check that nothing is being stored near or against the boiler and causing obstruction.			
1.3	Boiler operators must have a clear unobstructed view of the pressure gauges.			
1.4	Operators must be able to reach the gauge glass blow down valves.			
1.5	Operators must have easy access to the control panel			
1.6	Check that lighting in the boiler house is adequate			
1.7	All covers for cable and pipe trenches must be in place			
1.8	Provision must be made for the operator to access the crown and safety valves.			
1.9	Hot wells must be fitted with level indicators positioned where the operators can read them from the firing floor, as well as high and low level alarms.			
1.10	Check that firefighting equipment is available and in good operating condition			
1.11	Check that all signage is in place			
1.12	An enlarged copy of the relevant section of the Occupational Health and Safety Act and Regulations, framed and mounted a			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
	wall where it can easily be read			
1.13	Check that the boiler log books and service records are available and kept in a safe place			
1.14	Check log book. If none, one to be provided			
1.15	Record work done and findings in boiler log book			
2	<u>Piping and valves (Inside Boiler House)</u>			
2.1	Check all steam and feed water piping for leaks			
2.2	Check all isolating valves for leaks			
2.3	Check all insulation and cladding on steam and condensate lines			
2.4	Check that all steam traps are in good working condition			
2.5	Check and clean all strainers			
2.6	Check that all pipes are correctly supported			
2.7	Ensure that the hot well overflow piping is routed to a covered drain			
2.8	Check that the hot well manhole is closed during normal boiler operation			
2.9	Ensure that the blow off piping from the boiler safety valves extends at least 2m above the boiler house roof. (Blow off piping should not protrude out of the side of the building)			
2.10	Check that the safety valves' drain pipes lead down into the floor drains			
3	<u>Boilers</u>			
3.1	Inspect the boiler and ensure that it is clean and wiped down at least once per shift			
3.2	Check that the insulation and cladding is in good condition			
3.3	Inspect the boiler shell for leaks and other anomalies			
3.4	Check hand hole and mud hole covers for leaks. Renew gaskets if necessary			
3.5	Check the feed water pumps and piping. Ensure that there are no leaks			
3.6	Check the feed water pump bearings. (Noise, vibration and temperature) Use bearing stethoscope, vibration pen infrared gun			
3.7	Check that feed water isolation valves and reflux valves are in good working condition and not leaking			
3.8	Check that the feed water pumps meet the required duty			
3.9	Inspect the coupling. Ensure that it is in good condition and that all bolts are tight			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
3.10	Lubricate bearings at regular intervals			
3.11	Check the control panel. Gauges must be clean and legible. Control knobs must not be cracked or broken. Replace any missing levers or control knobs			
3.12	Check that all wiring is clean and tidy and properly secured			
3.13	Check all instrumentation and indication. (Warning lights and alarm bells on the controllers.)			
3.14	Ensure that all gauges are reading accurately			
3.15	Check all instrumentation and indication. (Warning lights and alarm bells on the controllers.)			
4	<u>Appurtenances</u>			
4.1	<u>Pressure gauges</u> a) Check that all pressure gauges have been calibrated b) Pressure gauge glasses must be clean and scratch free c) Check that all pressure gauges have white face plates with			
	black lettering. d) Check that the maximum working pressure is marked with a red line on the face plate. (Not on the glass) e) Check that the pressure gauge stop cocks are in good working condition f) Check that the pressure gauges are properly supported. (Do not rely on the pressure gauge tubing to support the gauge)			
4.2	<u>Water gauges</u> a) Check that the water gauge glass tubes are and in good condition. Glasses must not be cracked or discoloured b) Check water gauge glasses for leaks. Ensure seals are in good condition c) Check water gauge glass covers. (They should be manufactured from tempered glass) They must be clean and sound d) Check that the chevron plates are clean and properly positioned			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
	e) Check that the gauge glass stop cocks are in good working condition f) Check that the gauge glass blow-down valves are in good condition			
4.3	<u>Level controllers and pressure switches</u>			
	a) Check that the level controllers are working correctly b) With the covers removed operate the switches manually to ensure that they operate freely c) Check the level controller floats. Ensure that they move smoothly inside the tubes d) Check that the floats trigger the			
	Switches at the correct height e) Check the level controller blow down valves. They must open and close freely			
4.4	<u>Temperature gauges</u>			
	a) Check that the temperature gauges have been calibrated b) Gauges should have white faceplates with black lettering			
4.5	<u>Safety valves</u>			
	a) Check that the boiler is fitted with at least two safety valves. (A single valve with dual pots is acceptable) b) Safety valves covers must be in place and locked c) Check that the safety valves have been pressure tested and that the test certificates are kept with the log books d) Safety valves must not be allowed to simmer. (Plugs and seats must be lapped if necessary to ensure that the valves seal properly) e) Ensure that a proving lever is available. Safety valve must be proved regularly to ensure it is not stuck and opens freely			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
5	<u>Stokers and feeders</u>			
5.1	Check coal elevators and feeders			
5.2	Check stoker drive mechanisms. (Gearbox, chains and sprockets)			
5.3	Lubricate chains and sprockets. Check chain tension and adjust if necessary			
5.4	Ensure chain guard is in place			
5.5	Check oil level in gearbox			
5.6	Check electric motor. Ensure that the motor mounting bolts are secure. Check vibration and temperature. Ensure that the motor fan cover is in place and unobstructed			
5.7	Where V-belts are fitted ensure they are tensioned correctly and that the guards are in place			
6	<u>Horizontal boilers</u>			
	<ul style="list-style-type: none"> a) Inspect chain grate for damage and missing links. Check link pins b) Inspect front and rear side seal and replace if necessary c) Check all carbofrax blocks and replace if necessary d) Inspect undergrate dampers and ensure lever can move dampers freely e) Check air guide vanes f) Ensure chain grate is tensioned properly g) Check condition of tubes. (Fire side) Wire brush if necessary h) Inspect wearing strips and replace if necessary i) Check sliding plates (Drive side and non-drive side) j) Check front shaft, grate sprockets and bosses k) Check rear roller and shaft l) Check the guillotine door. Ensure it can be raised and lowered easily m) Check all boiler internal refractories including the ignition arch n) Check the operation of the soot blowers o) Check the fire door davits p) Open fire doors and check the reversal chambers. They must be free of soot and coal dust q) Inspect ash removal door 			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
	r) Inspect FD and ID fans. Check couplings and/or belt drives. Ensure guards are in place s) Inspect dampers and ensure that they operate freely t) Where VSD's are fitted they			
	u) must be tested through the full range of operation v) Check fan ducting w) Check the boiler chimney and chimney stay wires where fitted x) Where cyclones are fitted check that they are working properly			
7	<u>Vertical boilers</u>			
	a) Check the coal hopper b) Check the variable speed gearbox and drive. Check lubrication c) Check the electric motor. Ensure that the motor mounting bolts are secure. Check vibration and temperature. Ensure that the motor fan cover is in place and unobstructed d) Check the V-belt tension and adjust if necessary e) Check the FD fan and if fitted the ID fan f) Check the retort tuyers and deadplate. (Replace if cracked or damaged.) g) Check that the air path around the retort and under the deadplate is clear and unobstructed h) Check the fuseable plug i) Check the chimney and chimney stay wires where fitted			
8	<u>Electrical equipment</u>			
8.1	Check that electrical circuit drawings are available for reference purposes			
8.2	Check that all warning lights and meters are working			
8.3	Check that control panels are locked			
8.4	Check that isolators can be operated without having to open the panel doors			
8.5	Check that all wiring is clean and tidy			
8.6	Check that cables are protected where there is danger of them being damaged			
8.7	Check that earthing conductors are connected and protected			
8.8	Check control panel instruments and indication (Warning lights and alarms)			
8.9	Check that lighting is adequate			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
9	<u>Water softening plant and chemical dosing</u>			
9.1	Check that the water softener installation is clean and tidy			
9.2	Check that the water softener is operating correctly and that salt is available for regeneration			
9.3	Check piping for leaks			
9.4	Check the chemical dosing pump. Ensure that it is working properly and can deliver at the required pressure and flow			
9.5	Ensure an adequate supply of chemicals			
10	<u>Blowdown valves</u>			
10.1	Check that the blowdown valve can be opened and closed easily			
10.2	Check that the blowdown valve is not bypassing			
11	<u>Boiler Test</u>			
11.1	Test boiler operation (Functioning of all systems)			
11.2	Test flue gases. (Residual oxygen, CO and NOx) Set air/fuel ratio for optimum combustion.			
11.3	Reset combustion using a combustion analyzer if necessary.			
12	<u>Heavy Fuel oil and diesel fired boilers</u>			
12.1	Service burners at intervals as required by the manufacturer, but at least every six months			
12.2	Check the fuel consumption. (Compare with manufacturer's fuel consumption figures)			
12.3	Where there is a large discrepancy, check the operation of the air damper and ensure that the atomizing nozzles are the right size			
12.4	Replace fuel filters			
12.5	Check fuel lines for leaks			
12.6	Inspect all fuel line valves			
12.7	Remove the cover and clean the burner			
12.8	Inspect the fuel atomizing nozzles. Replace if necessary			
12.9	Clean the ignition rods			
12.10	Clean the photo cell			
12.11	Inspect the fuel tanks			
12.12	Clean and service fuel heaters if installed			
12.13	Ensure that all fuel spills are cleaned up properly			
12.14	Ensure that the bund area around the tanks is clean			
12.15	Check the bund walls for cracks and holes			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
12.16	Check that fuel tanks are fitted with breathers			
12.17	Check that fuel tank filler caps are locked			
12.18	Check that fuel tanks have a tamper proof valve immediately adjacent to the tank on the fuel supply line			
13	<u>Fuel Transfer Pumps</u>			
13.1	Inspect fuel pump, motor and coupling for any problems and service the unit			
13.2	Inspect fuel strainer/filter and change-over and clean when necessary. Replace seals and gaskets if necessary.			
14	Training			
14.1	Train client operators in general operation, daily maintenance and correct set points of the plant			
15	Bi-annual maintenance tasks.			
15.1	Properly shut down the boiler and open the access doors to expose the fireside of the boiler.			
15.2	Thoroughly clean the tubes and tube sheets.			
15.3	On the waterside check for heavy scaling and bridging of the tubes with scale. Remove all scale build up by chemical treatment.			

Notes:

1. Normal service components are to be included as part of the routine service
2. Faulty equipment must be reported and recommendations made for remedial action (see schedules below)
3. Where electrical equipment is perceived to be faulty this must be reported (see schedules below)
4. Should components of the installation no longer comply with the latest regulations this must be noted. (see schedule below)

COMMENTS / RECOMMENDATIONS

Annual Inspection Sheet

CHECKED BY:

NAME :

SIGNATURE :

DATE :

HOSPITAL REPRESENTATIVE: NAME:

SIGNATURE:

DATE:

<p>Institution Stamp</p>

C3.6 STEAM BOILER STATUTORY INSPECTIONS

Note:

Statutory inspections must be conducted by a competent contractor

The statutory inspection requires that all the work required for a normal annual inspection be done first, followed by the task listed for the Statutory Inspection as listed hereunder.

All NDT (Non Destructive Testing) and pressure tests must be witnessed by an approved Independent Inspection Authority.

The tasks listed is for a generic service regime. Where this Task List included below does not include manufacture's servicing specifications, the Original Equipment Manufacturer's servicing specifications must be added, as all services are to be carried out in accordance with the manufacture's specification

After recommissioning the employer may call for a functionality test to be performed on the boiler.

UNIT LOCATION		MAKE OF UNIT	
MODEL NO.		SERIAL NO.	

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
1	General			
1.1	Check log book. If none one to be provided			
1.2	Record work done and findings in boiler log book			
1.3	Place a Copy of the Statutory Inspection Certificate in the back of the Log Book			
2	Statutory Inspection (Required to be done 3 yearly in terms of the OHS Act and Regulations) (An authorized third party inspection authority should witness and sign off this inspection)			
2.1	Remove all insulation and cladding			
2.2	Chemically clean the water side of the boiler to remove all scale			
2.3	Mechanically clean the fire side of the boiler to remove scale, soot and slag			
2.4	Check the boiler shell internally and externally for corrosion. (Particular attention to be paid to the area around the 'boiling line' on the inside of the shell)			
2.5	Check the shell for bulging			
2.6	Check the tubes and tube plates for corrosion			
2.7	Check tubes for hogging and sagging			
2.8	Check the tube ends for leaks. Re-expand if necessary			
2.9	Carry out thickness tests on the shell and tubes			
2.10	Check all shell welds. (Dye penetrant or MPI test for cracks)			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
2.11	Inspect the ligaments between the tubes for cracks. (Dye penetrant)			
2.12	Check the stay tubes and stay rod welds			
2.13	Check the flue for flame erosion and pitting			
2.14	Check the flue for distortion			
2.15	Check the flue welds for cracks			
2.16	Blank off all openings into the pressure envelope and conduct pressure tests			
2.17	Service and test all appurtenances			
2.18	Check all alarms and sirens are working properly			
2.19	Grit blast and paint the outside of the boiler shell if necessary			
2.20	Replace all insulation and cladding			
2.21	Recommission boiler			
2.22	Test boiler operation			
2.23	Test flue gases. (Residual oxygen, NOX and CO). Set air/fuel ratio for optimum combustion			
3	If any welding needs to be done on the boiler the repair must be authorised and managed by an appropriately qualified Certificated Engineer and the Boiler must be recertified afterwards.			

Notes:

- 1. Normal service components are to be included as part of the routine service
- 2. Faulty equipment must be reported and recommendations made for remedial action (see schedules below)
- 3. Where electrical equipment is perceived to be faulty this must be reported (see schedules below)
- 4. Should components of the installation no longer comply with the latest regulations this must be noted. (see schedules below)

COMMENTS / RECOMMENDATIONS

CHECKED BY:

NAME :

SIGNATURE :

DATE :

HOSPITAL REPRESENTATIVE : NAME:

SIGNATURE:

DATE:

Institution Stamp

C3.7: CALORIFIER EQUIPMENT WEEKLY SERVICING

Note:

Major Service to include all Minor Service Tasks (i.e. daily/weekly/monthly/six monthly, etc.) in Major or Annual Service tasks.

The tasks listed is for a generic service regime. Where this Task List included below does not include manufacture's servicing specifications, the Original Equipment Manufacturer's servicing specifications must be added, as all services are to be carried out in accordance with the manufacture's specification.

All services shall be undertaken and signed off by a registered person.

UNIT LOCATION		MAKE OF UNIT	
MODEL NO.		SERIAL NO.	

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
1	General			
1.1	Calorifiers should be installed in rooms or chambers with lockable doors or gates to prevent access by un-authorized persons			
1.2	Check that signage is in place			
1.3	Check that the floor is sloped towards the outside of the room or that adequate provision is made to drain away any water that leaks from the vessel			
1.4	Ensure that there are no leaks from the vessel shell or any of the fittings and attachments			
1.5	Check that the vessel is properly insulated and cladded			
1.6	Check that the vessel drain pipe is lead into a suitable channel or drain			
1.7	Check that a safety valve is fitted to the vessel and that the safety valve discharge pipe lead into a suitable channel or drain			
1.8	Remove the inspection opening cover			
1.9	Check that the temperature gauge is in good condition and reading correctly			
1.10	Where pressure gauges are fitted, ensure that they are in good condition and reading correctly			
1.11	Check the fusible plug. (If fitted)			
1.12	Check that adequate lighting is provided			
1.13	Where the valves on the calorifiers are pneumatically controlled the valves, pressure regulators and stopcocks must be inspected to ensure that they are in good condition and working properly			
2	<u>Steam Calorifiers</u>			
2.1	Check the condensate line valves from the separator			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
2.2	Check the condensate line strainer and sight glass after the steam line separator			
2.3	Check the main steam valve			
2.4	Check and test the high limit protection unit			
2.5	Check and test the high limit cutout unit shuttle valve and trigger			
2.6	Check and test the temperature control valve			
2.7	Check and test the fail-safe actuator unit			
2.8	Check and test the high limit temperature sensor			
2.9	Check and test the normal temperature sensor and adjustment screw			
2.10	Where the temperature sensors are mounted in pockets or thermowells ensure that they are filled with the correct fluid. (Refer to the OEM manuals)			
2.11	Check all the capillary tubes			
2.12	Check and clean out the strainer on the condensate return line			
2.13	Check the reflux valve on the condensate return line			
2.14	Check the sight glass on the condensate return line			
2.15	Check the shut-off valve on the condensate return line			
3	<u>Electric Calorifiers</u>			
3.1	Check that there is a wiring diagram inside the electrical control panel			
3.2	Check that all electrical wiring is clean, tidy and properly secured			
3.3	Check that the electrical panel is a lockable unit and that the mains isolator can be operated without having to open the door			
3.4	Check that the panel door can only be opened when the isolator is in the off position			
3.5	Check that there is a voltmeter mounted in the door panel			
3.6	Check that there is an ammeter for each phase mounted in the door panel. (Where there is only one ammeter check that there is a selector switch provided to switch between phases.)			
3.7	Check that each element has its own circuit breaker			
3.8	Check that all the heating elements have the same rating			
3.9	Check that the heating elements are covered with protective caps			
3.10	Check that the heating elements are wired to balance the load on the phases			

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
3.11	Where timers are fitted check and ensure that they are working correctly			
3.12	Check that the contactors are clean			
3.13	Where the thermostat is mounted in a pocket or thermowell ensure that it is filled with the correct non corrosive fluid. (Refer to the OEM manual)			
3.14	Where indication and warning lamps are provide check that they are all in working condition			
3.15	Where a PLC is used to control the temperature. The controller must be tested through the full temperature range and the set temperatures checked to ensure they hold steady			
4	<u>Hot water pipes, support structures, gantries and bridges</u>			
4.1	Check hot water lines for leaks			
4.2	Check all valves are operating correctly			
4.3	Check re-circulating pump/s are running			
4.4	Check all pipes are properly supported			
4.5	Check all insulation is in good condition			
4.6	Check all hanger brackets and replace where necessary			
4.6	Where people are working at height ensure that scaffolding and ladders are properly certified and that safety harnesses are being used			
4.7	Check all structures for corrosion, particularly at the bases			
4.8	Remove rust and repair any corroded sections of structural steelwork			
5	<u>Training</u>			
5.1	Train client operators in general operation, daily maintenance and correct set points of the plant			

C3.8: CALORIFIER EQUIPMENT ANNUAL SERVICING

Note:

Major Service (Annual Inspection) to include all Minor Service Tasks (i.e. daily/weekly/monthly/six monthly, etc.) as well.

The tasks listed is for a generic service regime. Where this Task List included below does not include manufacture's servicing specifications, the Original Equipment Manufacturer's servicing specifications must be added, as all services are to be carried out in accordance with the manufacture's specification.

All services shall be undertaken and signed off by a registered person.

UNIT LOCATION		MAKE OF UNIT	
MODEL NO.		SERIAL NO.	

ITEM	DESCRIPTION	CHECK	READING	COMMENT/RECOMMENDED REMEDIAL ACTION
1	<u>General</u>			
1.1	Perform tasks from weekly servicesheet.			
1.2	Remove the inspection openingcover			
1.3	Check that the inside surfaces arefree of scale and corrosion			
1.4	Check anodes and replace ifnecessary			
1.5	Check and calibrate all gauges.			
1.6	Check and service safety valves			
1.7	Check the fusible plug. (If fitted)			
1.8	If pneumatically controlled valvesare installed, service them.			
1.9	Strip and service the stop cocksand valves			
1.10	Strip and service the regulators			
2	<u>Steam Calorifiers</u>			
2.1	Where indented u-tubes are used for heat transfer, disconnect steam and condensate piping, withdraw the indented u-tube battery			
2.2	Pressure test the u-tubes. Replaceany leaking tubes			
2.3	Where heating tube coils are used, disconnect the steam and condensate lines, black of one endof the tube coil and pressure test			
2.4	Check the steam/condensate separator on the steam supply line			
3	<u>Electric Calorifiers</u>			
3.1	Where a PLC is used to control the temperature. The controller must be tested through the full temperature range and the set temperatures checked to ensure they hold steady			
4	<u>Hot water pipes, support structures, gantries and bridges</u>			
4.3	Check and service re-circulatingpump/s			

Notes:

- 1. Normal service components are to be included as part of the routine service
- 2. Faulty equipment must be reported and recommendations made for remedial action (see schedules below)
- 3. Where electrical equipment is perceived to be faulty this must be reported (see schedules below)
- 4. Should components of the installation no longer comply with the latest regulations this must be noted. (see schedules below)

COMMENTS / RECOMMENDATIONS

CHECKED BY:

NAME :

SIGNATURE :

DATE :

HOSPITAL REPRESENTATIVE: NAME:

SIGNATURE:

DATE:

Institution Stamp
