



Province of the
EASTERN CAPE
HEALTH

TENDER DOCUMENT

FOR

**BID NO: SCMU3-26/27-0202-HO: FRAMEWORK CONTRACT FOR THE
SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT
HEALTH FACILITIES IN THE EASTERN CAPE**

THREE VOLUME APPROACH:

**VOLUME 1 – TENDERING PROCEDURES
VOLUME 2 – RETURNABLE DOCUMENTS
VOLUME 3 – DRAFT CONTRACT**

PREPARED FOR:

Eastern Cape Department of Health
Global Life Centre
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BHISHO
6505

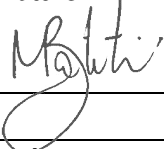
PREPARED BY:

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NAME OF BIDDER: _____

CRS NUMBER: _____

JULY 2026

Revision			
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Advert Approved By;	Date: 25/09/2026	Name: C. Mgijima	Signature: 

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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 BIDDERS
FOR:**

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-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 Bidder is drawn to the eligibility criteria in the table below. Bidders are required to familiarise themselves thoroughly with the conditions of Supplier as contained in the Supplier Data (T1.2) and the Standard Conditions of Supplier which form part of the Supplier document. Only Bidders that are responsive to responsiveness criteria contained in the table below are eligible to have their Bids evaluated:

☒	Tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in the Contractor grading designation equal to or higher than a 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 7EB/ME or higher construction work, are eligible to have their tenders evaluated.
☒	<u>Joint ventures are eligible to submit tenders provided that:</u> They have a signed joint venture agreement
☒	Only Bidders 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 C.2.1.2 shall be eligible to have their Tenders evaluated. At least five (5) years of experience must be on generator installation industry.
☒	Only Bidders who have access to a suitably qualified and experienced contract supervisor as described in clause C.2.1.3 shall be eligible to have their Tenders evaluated. At least five (5) years of experience must be on generator installation.
☒	Bidders 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.

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

☒ 90/10 Preference point scoring system

Preference:		Price:	
SPECIFIC GOALS Status Level:	10 Points	Price:	90 Points
Total must equal:	10 Points	Total must equal:	90 Points

1. AVAILABILITY OF SUPPLIER DOCUMENTS:

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

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

Date: 30 September 2026

**Venue: VIRTUAL
TEAMS**

Join:

https://teams.microsoft.com/meet/323409755620209?p=G_HMxiKPGmtkBqNz87D

Meeting ID: 323 409 755 620 209

Passcode: Qg9fG92p

Time: 11 ~~12h00~~ until 13h00

2. ENQUIRIES RELATED TO TENDER DOCUMENTS MAY BE ADDRESSED TO:

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

3. RETURN OF TENDER DOCUMENTS:

The closing time and date for submission of Tender is 11:00am on the **23 October 2026**.

The following must be noted by all Suppliers;

Service Providers must be registered on the National Treasury Central Supplier Data Base and proof of registration must be submitted with the proposal (<https://secure.csd.gov.za>).

Bid response documents must be submitted online via the National Treasury eTender Portal. Ensure timely submission.

No physical documents are to be delivered to Bhisho.

It is the responsibility of the Service Provider to ensure that bid document is submitted on or before closing time.

Technical enquiries shall be directed only in writing to Supply Chain Management enquiries to Thabisa Notshe at Thabisa.notshe@echealth.gov.za within office hours.

Physical, Telegraphic, telephonic, telex, facsimile, e-mail and late submissions will not be accepted.

All bids must be uploaded before the closing time and date stipulated above and must be submitted on e-tender portal (www.etenders.gov.za) No late bid submission will be accepted.

Guide: How to submit a response to the E-tender Portal

1. (<https://www.etenders.gov.za/>)
2. Click "Login"
3. Select "Supplier Login"
4. Type in your Central Supplier Database (CSD) login credentials.
5. Click Browse Opportunities
6. Select Currently Advertised.
7. Click "+" on any tender opportunity you wish to apply for.
8. Click on "Start e-Submission Process"
9. Select Supplier
10. Click "Start response"
11. Check the submission checklist and attached the compulsory documents.
12. Confirm and proceed.

If you experience difficulties with e-Submission please contact:
012 406 9229 /012 406 9222 or email etenders@treasury.gov.za

Issued by:
Supply Chain Management
Bhisho

COMPILED BY:

Section	Department	Date
Engineering and Technical Services	Lukhozi Consortium	July 2026

T1.2: TENDER DATA

T1.2: TENDER DATA

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Clause number	
	The conditions of Supplier are the Standard Conditions of Supplier as contained in Annex C of Board Notice 423 of 2019 in Government Gazette No. 42622 of 8 August 2019, 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 Bidders as an Annex to this Tender Data. 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. 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:
C.1.1	<i>Add the following:</i> The employer is the Eastern Cape Department of Health Dukumbana Building Independence Avenue Bhisho
C.1.2	<i>Add the following:</i> Tender documents issued by the Employer comprise of: <u>Volume 1: Tendering Procedures</u> T1.1 Tender Notice and Invitation to Supplier T1.2 Tender Data <u>Volume 2: Returnable Documents</u> SBD1 Invitation to Bid: Part A and B SBD4 Declaration of Interest SBD6.1 Preference Points Claim Form in Terms of the Preference Procurement Regulations 2022 T2.2r Compulsory Enterprise Questionnaire T2.1 List of Returnable Schedules/Documents C1.1a Final Summary Page 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 T2.2e Schedule of Key Personnel T2.2f Bank Rating T2.2g Specific goals claimed (CIPRO certificate) T2.2n Record of Addenda to Supplier Documents T2.2u CIDB grading certificate – Proof of registration T2.2v CIPC – company registration certificate T2.2y Proof of Registration with Centralized Supplier Database T2.2x References T2.2z Valid Letter of Good Standing 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 (Construction manager)
 Annexure B2: Key personnel qualifications (Construction Supervisor)
 Annexure B3: Key personnel qualifications (OHS Safety officer)
 Annexure B4: Key personnel qualifications (Skilled installation staff)
 Annexure B5: Proof of business address

Annexure C1: Key personnel experience (Construction manager)
 Annexure C2: Key personnel experience (Construction Supervisor)
 Annexure C3: Key personnel experience (OHS Safety officer)
 Annexure C4: Key personnel experience (Skilled installation staff)
 Annexure C5: Proof of Business Address
 Annexure C6: Company Experience

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: Confirmation of Receipt of Contract (PRO FORMA)
 C1.5: CIDB Adjudicator's Agreement

Part C2: Pricing Data

C2.1: Pricing Instructions
 C2.2: Bills of Quantities

Part C3: Scope of Works

C3.1: Scope of Works
 C3.6: Health and Safety Specification

Part C4: Site Information

C4.1: Site Information as per Scope of Works

C.1.4	<i>Add the following:</i> The employer's agent: Lukhozi Consortium
C.1.6.1	<i>Add the following to the clause:</i> The Department reserves the right to not accept the tender from the tenderer with the highest number of points or award any contract.
C1.6.3	<i>Add the following:</i> A two-stage system will be followed.
C.2.1	<i>Add the following:</i> 1. Only those Tenderers who satisfy the following eligibility criteria are eligible to submit tenders: 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 than a 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 in Class EB or ME, Grade 7 or higher construction work, are eligible to have their tenders evaluated. It is mandatory for the ME bidder to subcontract an EB bidder due to skills and qualifications that the ME bidder might not possess. 2. Joint ventures are eligible to submit tenders provided that: 2.1 Every member of the joint venture is registered with the CIDB; 2.2 The lead partner has a contractor grading designation in Class EB or ME, Grade 7 class of construction works under considerations and possess the required recognition status. 2.3 The combined Contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal or higher than a Contractor grading designation determined in accordance with the sum tendered for in Class EB or ME, Grade 7 or higher construction work or a value determined in accordance with Regulations 25 (1B) or 25 (7A) of the Construction Industry Development Regulations; and 2.4 The joint venture is registered on Central Supplier Database or proof of application 2.5 All members of the joint venture must submit copies of the returnable documentations or original where it is so stipulated for all members. 2.6 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 for all the members of the Partnership/Joint Venture/Consortium. 2.7 In the case of a Partnership/Joint Venture/Consortium the CIPRO certificates must be submitted indicating percentage of ownership for specific goals points scoring, failing which the tenderer will score zero points.
C.2.1.2	Add the following Educational Qualification: Electrical / Mechanical Engineering Degree with ECSA Registration as per Act 43 of 2000 as a Pr Eng or Pr Tech Eng (Candidate Registration will not be accepted) Experience: Minimum 5 years in the management of Generator installations. OR

	Educational Qualification: Electrical / Mechanical Engineering Diploma with ECSA Registration as per Act 43 of 2000 as a Pr Techni Eng (Candidate Registration will not be accepted) Experience: Minimum 5 years in the management of Generator installations. Responsibilities for Construction/Contract Manager shall be: • Contract Management • Project Planning & Programming • Resource Management • Financial & Commercial Management • Technical & Quality Management • Emergency Response Management • Health & Safety Management • Progress & Performance Reporting • Testing, Commissioning & Handover • Overall Contract Accountability
C.2.1.3	Add the following Educational Qualification: Electrical / Mechanical Engineering Diploma WITH minimum 5 years post qualification experience on Generator Installations. OR Trade certificate (Issued by the Department of Labour), or higher qualification WITH minimum 5 years post qualification experience on Generator Installations. Responsibilities for Construction Supervisor shall be: • Site Supervision • Generator Installation • Electrical & Mechanical Works • Inspection & Quality Control • Testing & Commissioning • Maintenance & Inspection • Emergency Technical Response • Site Records & Reporting • Health & Safety Compliance • Certification & COCs • Handover & Close-Out
C.2.2	Add the following to the clause: 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).

C.2.7	For particulars regarding a pre-Tender site inspection meeting, see Tender Notice and Invitation to Supplier T1.1 “ 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. 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.”
C.2.12	No alternative tenders are allowed.
C.2.13.2	<i>Replace sub-clause C.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
C.2.13.3	<i>Add the following:</i> Parts of each Supplier offer communicated on paper shall be submitted as an original, plus 0 (nought) copies.
C.2.13.4	<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.
C.2.13.5	<i>Add the following:</i> Tender documents must be clearly marked as per the identification details below: Tender No. SCMU3-26/27-0202-HO Title of document: FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
C.2.13.6	<i>Add the following:</i> A two-envelope procedure will not be followed.
C.2.13.9	Telephonic, telegraphic, telefax, facsimile or e-mailed tender offers will not be accepted.
C.2.13.10	<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.
C.2.15.1	<i>Add the following to C.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.
C.2.16.1	<i>Add the following to C.2.16.1:</i> The Supplier offer validity period is 12 weeks.
C.2.17	<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”

	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).
C.2.18	<i>Add the following:</i> The tenderer will be required to submit his fully priced Bills of Quantities (complete document inclusive of all parts) together with this tender.
C.3.4	<i>Add the following:</i> The opening of the tender offers will take place immediately after the closing time of tenders.
C.3.8	<i>Add the following:</i> Bidders will be considered non-responsive if, inter alia: 1. the Supplier has failed to attend the compulsory briefing meeting; 2. the Bidder is submitted by Telegraphic, telephonic, telex, facsimile (faxed) or email media or if the Bidder is submitted late. 3. the Bidder does not comply with the eligibility criteria listed in C2.1 above; 4. The resolution for signatory is not attached to the Bidder submission on a company letterhead. 5. the Bidder 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
C.3.11.1	<i>Add the following:</i> This is a two-stage evaluation process: Stage 1: Administrative compliance Stage 2: Evaluation for price and preference The following procedure will be used to evaluate tender offers received: 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. Perform Technical Evaluation of Equipment as per technical Data Sheet. e. A bid with Equipment proposed that does not conform to scope of work or specification will be found nonresponsive. f. Score tender evaluation points for each price g. Confirm that tenderers are eligible for the preferences claimed and, if so, score tender evaluation points for preferencing. h. Calculate total tender evaluation points i. Rank tender offers from the highest number of tender evaluation points to the lowest. j. 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. k. 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. 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. 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.
C.3.11.3	The procedure for the evaluation of responsive tenders is Method 1: Administrative, Price and Specific Goals
C.3.11.7	<i>Add the following:</i> The financial offer will be scored using Formula 2 (Option 1): $N_{FO} = (1 - (P - P_M) / P_m) \times W_1$ Where. N_{FO} = number of Bidder evaluation points awarded for financial offer W_1 = the maximum possible number of Bidder evaluation points Tender P_M = the comparative offer of the most favourable Bidder offer P = the comparative offer of the Bidder offer under consideration
C.3.11.8	Up to 100 minus W_1 (refer C.3.11.7 above) Bidder evaluation points will be awarded to Bidders 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 Bidder:

	The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
	Historically Disadvantaged Individuals Ownership	N/A	N/A
	• Race	20% (2)	
	• Women Ownership	20% (2)	
	• Disability Ownership	20% (2)	
	Youth Ownership	20% (2)	
	Military Veterans Ownership	10% (1)	
	Locality Ownership (Eastern Cape)	10% (1)	
	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		
C.3.11.10	<i>Add the following new sub-clause:</i> The Employer will perform a risk analysis in respect of the following: (a) reasonableness of the financial offer (b) reasonableness of unit rates and prices (c) the Bidder ability to fulfil its obligations in terms of the tender document, that is, that the Bidder 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.		

C.3.13.1	Bidder offers will only be accepted if: a) the Bidder 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 Bidder 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 Bidder or any of its directors is not listed on the Database of Restricted Bidder kept by the National Treasury and updated from time to time; c) the Bidder has not: i) abused the Employer's Supply Chain Management System; d) The Bidder has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the Bidder's ability to perform the contract in the best interests of the employer or potentially compromise the Bidder process.
C.3.17	<i>Add the following:</i> The number of paper copies of the signed contract to be provided by the Employer is one.
C.4	ADDITIONAL CONDITIONS OF TENDER The additional conditions of Tender are:
C.4.1	Invalid Tender Bidders shall be considered invalid and shall be endorsed and recorded as such in the Bidder opening record, by the responsible official who opened the Tender, in the following circumstances: a) if the Bidder 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); b) if the Form of Offer and Acceptance has not been completed or has not been signed by the authorised representative of the Bidder c) if the Form of Offer and Acceptance is signed, but the name of the Bidder is not stated or is indecipherable d) if the Bidder offer is not completed in non-erasable ink;
C.4.2	Negotiations with preferred Bidders The Employer may negotiate the final terms of a contract with Bidders identified through a competitive Supplying process as preferred Bidders provided that such negotiation: a) does not allow any preferred Bidder a second or unfair opportunity; b) is not to the detriment of any other Bidder; and c) does not lead to a higher price than the Bidder as submitted. Minutes of any such negotiations shall be kept for record purposes

C.4.3	General supply chain management conditions applicable to Bidder In terms of its Supply Chain Management Policy the Employer may not consider a Bidder unless the provider who submitted the Bidder: a) has furnished the Employer with that provider's: • full name; • identification number or company or other registration number; and • tax reference number and VAT registration number, if any; b) has indicated whether: • 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. Irrespective of the procurement process followed, the Employer is prohibited from making an award to: • 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. In this regard, Bidders shall complete Returnable Schedules: Compulsory Enterprise Questionnaire. Failure to complete this schedule will result in the Bidder not being considered further.
C.4.4	Combating abuse of the Supply Chain Management Policy In terms of the its Supply Chain Management Policy, the Employer may reject the Bidder of any Bidder if that Bidder or any of its directors has: a) 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 Bidder that performance was unsatisfactory; b) abused the supply chain management system of the Employer or has committed any improper conduct in relation to this system; c) been convicted of fraud or corruption during the past five years; d) willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or e) 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. In this regard, Bidders shall complete Part T2.2: Returnable Schedules: Certificate of Independent Supplier Determination and Declaration of Bidder's Past Supply Chain Management Practices. Failure to complete these schedules will result in the Bidder not being considered further.

C.4.6	Claims arising after submission of Bidder 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 Bidder shall be deemed to have: 1) 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. 2) visited the site of any proposed works. 3) 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 Bidder. 4) received any Addenda to the Bidder documents which have been issued in accordance with the Employer's Supply Chain Management Policy. Before submission of any Bid, the Bidder 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 Bidder 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 Bid due to the foregoing.
C.4.7	Imbalance in Bidder rates In the event of Bidder 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 Bidder may be required to produce evidence and advance arguments in support of the Bidder 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 Bidder to amend these rates and lump sums along the lines indicated by it.
	The Bidder 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 Bidder offer as Supplied or, if applicable, the corrected total of prices in accordance with C.3.9.3. Should the Bidder fail to amend his tender in a manner acceptable to the Employer, the Employer may reject the Tender.
C.4.8	NIL.

VOLUME 2: RETURNABLE DOCUMENTS

T2.1 LIST OF RETURNABLE DOCUMENTS

T2.1: LIST OF RETURNABLE SCHEDULES/DOCUMENTS

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

T2.2: RETURNABLE SCHEDULES REQUIRED FOR BIDDER EVALUATION PURPOSES

	Returnable Documents	Number of pages issued	Returnable Document
SBD1	Invitation to Bid: Part A and B	2	☒ Yes ☐ No
SBD 4	Declaration of Interest	2	☒ Yes ☐ No
SBD 6.1	Preference Points Claim Form in Terms of The Preferential Procurement Regulations 2022	4	☒ Yes ☐ No
T2.2r	Compulsory Enterprise Questionnaire	3	☒ Yes ☐ No
T2.1	List of Returnable Schedules/Documents	2	☒ Yes ☐ No
C1.1a	Final Summary Page	1	☒ Yes ☐ No
C2.2	Fixed Charge and Value related Items Applicable to All Work & Bill of Quantities	14	☒ Yes ☐ No
T2.2a	Resolution for Signatory	1	☒ Yes ☐ No
T2.2b	Resolution of Board of Directors to Enter into Consortium or Joint Venture (JV) Agreements	2	☒ Yes ☐ No
T2.2c-1	Schedule of Proposed Subcontractors	1	☒ Yes ☐ No
T2.2e	Schedule of Key Personnel	1	☒ Yes ☐ No
T2.2f	Bank Rating	1	☒ Yes ☐ No
T2.2v	Specific goals claimed (CIPRO certificate)	1	☒ Yes ☐ No
T2.2n	Record of Addenda to Bidder Documents	1	☒ Yes ☐ No
T2.2z	Valid Letter of Good Standing	1	☒ Yes ☐ No

T2.2: OTHER DOCUMENTS REQUIRED FOR BIDDER EVALUATION PURPOSES

No.	Document Name	Number of pages issued	Returnable Document
Annexure A1	Method Statement (Generic)	1	☒ Yes ☐ No
Annexure A2	Method Statement (Summary Tasks)	1	☒ Yes ☐ No
Annexure A3	Method Statement (Programme with Timelines and planned Resources)	1	☒ Yes ☐ No
Annexure B1	Key Personnel qualification (Construction manager)	1	☒ Yes ☐ No
Annexure B2	Key Personnel qualification (Construction supervisor)	1	☒ Yes ☐ No
Annexure B3	Key Personnel qualification (OHS Safety officer)	1	☒ Yes ☐ No
Annexure B4	Key Personnel qualification (Skilled installation staff)	1	☒ Yes ☐ No
Annexure C1	Key personnel experience (Construction manager) Attach CV	1	☒ Yes ☐ No
Annexure C2	Key personnel experience (Construction Supervisor) Attach CV	1	☒ Yes ☐ No
Annexure C3	Key personnel experience (OHS Safety officer) Attach CV	1	☒ Yes ☐ No
Annexure C4	Key personnel experience (Skilled installation staff) Attach CV	1	☒ Yes ☐ No
Annexure C5	Proof of Business address	1	☒ Yes ☐ No
Annexure C6	Company Experience	1	☒ Yes ☐ No
T2.2g	Specific Goals claimed (Cipro Certificate)	1	☒ Yes ☐ No
T2.2y	Proof of Registration with Centralized Supplier Database	1	☒ Yes ☐ No
T2.2v	CIPC – company registration certificate	1	☒ Yes ☐ No
T2.2x	References	4	☒ Yes ☐ No
T2.3	Returnable schedules or documents		☒ Yes ☐ 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 Bidders' attention the list of returnable documents/schedules that shall be incorporated into the contract)

T2.2: OTHER DOCUMENTS REQUIRED TENDER EVALUATION PURPOSES

No.	Document Name	Number of pages issued	Returnable Document
T2.2n	Record of Addenda to Bidder Documents	1	☒ Yes ☐ No
T2.2e	Schedule of Key Personnel: Construction Supervisor	1	☒ Yes ☐ No
SBD 6.1	Preference Points Claim Form in Terms of The Preferential Procurement Regulations 2022	4	☒ Yes ☐ No

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

C1.1	Form of Offer and Acceptance (Signed)	2	☒ Yes ☐ No
C1.2	Contract Data	7	☒ Yes ☐ No
C2.2	Fixed Charge and Value related Items Applicable to All Work & Bill of Quantities & Final Summary		☒ Yes ☐ No

SBD1

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	SCMU3-26/27-0202-HO	CLOSING DATE:	23 October 2026	CLOSING TIME:	11:00
DESCRIPTION	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE				
BID RESPONSE DOCUMENTS MUST BE SUBMITTED ONLINE VIA THE NATIONAL TREASURY ETENDER PORTAL					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Ms Thabisa Notshe		CONTACT PERSON	Thabisa Notshe	
TELEPHONE NUMBER	040-608 9501		TELEPHONE NUMBER	040-608 9501	
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	Thabisa.notshe@echealth.gov.za		E-MAIL ADDRESS	Thabisa.notshe@echealth.gov.za	
BIDDER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
BIDDER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
QUESTIONNAIRE TO BIDDING FOREIGN BIDDERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?					☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?					☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?					☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?					☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?					☐ YES ☐ NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:	
1.1.	BID RESPONSE DOCUMENTS MUST BE SUBMITTED ONLINE VIA THE NATIONAL TREASURY ETENDER PORTAL
1.2.	ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3.	THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4.	THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS	
2.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2	BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3	APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA .
2.4	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6	WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7	NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:
(Proof of authority must be submitted e.g. company resolution)

DATE:

SBD 4: DECLARATION OF INTEREST

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

- 1.1 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, 1996 (Constitution), and further expressed in the various applicable legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.
- 1.2 If a person is 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. DECLARATION ON EMPLOYMENT BY ORGAN OF STATE

- 2.1 Is the bidder, or any of the directors / trustees / shareholders / members / partners of the bidder employed by an organ of state, as defined in section 239 of the Constitution? **YES/NO**
- 2.2 If YES, furnish particulars of the names, individual identity numbers, in the table below:

Full Name	Identity Number	Name of organ of state

- 2.3 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**
- 2.3.1 If so, furnish particulars:

.....

.....

.....

- 2.4 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**

- 2.4.1 If so, indicate all companies registered in the CSD in the table below:

Supplier registration number (MAAA)	Status (active/inactive/deleted)

Failure to disclose all CSD-registered active companies linked to all Directors will lead to disqualification.

3 GENERAL DECLARATION

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

- 3.1 I have read and I understand the contents of this disclosure.
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found to be false.
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor 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.
- 3.5 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.
- 3.6 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.
- 3.7 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, 1998 (Act No. 89 of 1998) and or may be referred to law enforcement agencies for criminal investigation and or may be restricted from conducting business with the state for a period not exceeding 10 years in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act No. 12 of 2004) or any other applicable legislation.

I CERTIFY THAT THE ABOVE IS CORRECT.

I ACCEPT THAT THE PROCURING INSTITUTION MAY REJECT THE BID OR TAKE APPROPRIATE ACTION
AGAINST ME IF THIS DECLARATION IS FALSE.

.....
Signature

.....
Date

.....
Designation

.....
Name of bidder

SBD 6.1

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

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

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

1.2 **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 **90/10** preference point system.

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

1.3 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.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

1.5 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.

1.6 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.

2. DEFINITIONS

- (a) **“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;

- (b) “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) “**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
- (e) “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 90/10 PREFERENCE POINT SYSTEMS

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

80/20

$$Ps = 80 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING 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

$$Ps = 80 \left(1 + \frac{Pt - Pmax}{Pmax} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. 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:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

- (a) an invitation for tender for income-generating contracts, that either the 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
- (b) any other invitation for tender, that either the 90/10 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 90/10 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 90/10 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 (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
Historically Disadvantaged Individuals Ownership	N/A	N/A
• Race	20% (2)	
• Women Ownership	20% (2)	
• Disability Ownership	20% (2)	
Youth Ownership	20% (2)	
Military Veterans Ownership	10% (1)	
Locality Ownership (Eastern Cape)	10% (1)	
TOTAL	100% (10)	

- a) Service providers must submit proof of its Specific Goals points claimed / status of contributor.
- b) 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:

4.5. 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]

4.6. 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:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) 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;
- iv) 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 –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) 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;
 - (d) 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
 - (e) forward the matter for criminal prosecution, if deemed necessary.

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

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

T2.2r: COMPULSORY ENTERPRISE QUESTIONNAIRE

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-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:

- | | |
|--|---|
| ☐ a member of any municipal council | ☐ 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) |
| ☐ a member of any provincial legislature | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the National Assembly or the National Council of Province | ☐ an employee of Parliament or a provincial legislature |
| ☐ a member of the board of directors of any municipal entity | |
| ☐ 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:

- | | |
|--|---|
| ☐ a member of any municipal council | ☐ 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) |
| ☐ a member of any provincial legislature | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the National Assembly or the National Council of Province | ☐ an employee of Parliament or a provincial legislature |
| ☐ a member of the board of directors of any municipal entity | |
| ☐ an official of any municipality or municipal entity | |

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:

- i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) 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;
- iii) 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;
- iv) confirms that I / we are not associated, linked or involved with any other Tendering entities submitting Bidder offers and have no other relationship with any of the Bidders' 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 Bidders are subject to the Local Government: Municipal Finance Management Act

T2.2 : RETURNABLE SCHEDULES REQUIRED FOR BIDDER EVALUATION PURPOSES

T2.2a: RESOLUTION FOR SIGNATORY

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-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 authorised to

sign all documents in connection with the Bidder 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:

1. _____ SIGNATURE: _____

2. _____ SIGNATURE: _____

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

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-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:

1. 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)

2. *Mr/Mrs/Ms:

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

and who will sign as follows: _____

be, and is hereby, authorised 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.

3. 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.

4. 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			

Note:

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

ENTERPRISE STAMP

T2.2c-1: SCHEDULE OF PROPOSED SUBCONTRACTORS

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

We notify you that it is our intention to employ the following subcontractors for work in this contract. 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.				
	Name and address of proposed Subcontractor	Nature and extent of work	Value of Work	Subcontractor CIDB grading
1.				
2.				
3.				

Signed Date

Name Position

Bidder

T2.2e: SCHEDULE OF KEY PERSONNEL

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

The Bidder is referred to clause C.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 Bidder or a specialist consultant/firm, in order for the Bidder 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 Bidder must **also** append to this schedule in terms of clause C.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). Bidders 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

Bidder

T2.2f: BANK RATING

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

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

Minimum of Grade C bank required

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

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

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidders must attach CIPRO CERTIFICATE

T2.2n: RECORD OF ADDENDA TO BID DOCUMENTS

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

We confirm that the following communications received from the Employer before the submission of this Bidder offer, amending the Tender documents, have been taken into account in this Bidder 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

Bidder

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

T2.2u: CIDB grading Certificate - Proof of registration

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidder must attach CIDB grading proof

T2.2v: CIPC – Company registration certificate

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidder to submit necessary company registration certificate

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

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidder must attach Full CSD report

T2.2z: Valid Letter of Good Standing

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

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

Annexure A1: Method Statement (Generic)

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidder are required to submit a method statement.

Annexure A2: Method Statement (Summary Task)

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidder are required to submit a summary task sheet. The summary task sheet must indicate the major tasks and subtasks of the works. The Tenderer 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	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidder are required to submit Programme such as a Gantt Chart with timelines (planned tasks) and planned resources (human resources).

T2.3: RETURNABLE SCHEDULES OR DOCUMENTS: ANNEXURES RELATED TO EVALUATION

Annexure B1: Key Personnel Qualification (Construction manager)

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE TENDERER

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

Construction/Contract Manager Mechanical/Electrical Engineering,	Educational Qualification: Electrical / Mechanical Engineering Degree with ECSA Registration as per Act 43 of 2000 as a Pr Eng or Pr Tech Eng (Candidate Registration will not be accepted) Experience: Minimum 5 years in the management of Generator installations.	Attached certified copies of qualification as well as proof of registration with ECSA
	OR Educational Qualification: Electrical / Mechanical Engineering Diploma with ECSA Registration as per Act 43 of 2000 as a Pr Techni Eng (Candidate Registration will not be accepted) Experience: Minimum 5 years in the management of Generator installations.	Attached certified copies of qualification as well as proof of registration with ECSA

Annexure B2: Key Personnel Qualification (Construction supervisor)

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE TENDERER

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

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

Construction Supervisor Mech./Elect. Engineering, Construction Project Management	Educational Qualification: Electrical / Mechanical Engineering Diploma WITH minimum 5 years post qualification experience on Generator Installations.	Attached certified copies of qualification
	OR Trade certificate (Issued by the Department of Labour), or higher qualification WITH minimum 5 years post qualification experience on Generator Installations.	Attached certified copies of qualification

Annexure B3: Key Personnel Qualification (OHS Safety officer)

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE TENDERER

Bidder 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.

Key Person	Requirements	Returnable
OHS Safety Officer	Relevant NQF level 5/ or equivalent with 2 years or more relevant experience in OHS safety.	Attached certified copies of qualification

Annexure B4: Key Personnel Qualification (Skilled installation Staff)

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE TENDERER

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

Annexure C1 Key personnel experience (Construction manager)
Attach CV

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND
 SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE
 TENDERER

Bidder are required to submit proof of Construction Manager experience (CV) and
 qualifications. All certified documents must not be older than three (3) months.

Annexure C2 Key personnel experience (Construction Supervisor)
Attach CV

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Bidder are required to submit proof of Construction Supervisor experience (CV) and qualifications. All certified documents must not be older than three (3) months.

Annexure C3 Key personnel experience (OHS Safety officer) Attach CV

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND
SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE
TENDERER

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

Annexure C4 Key personnel experience (Skilled installation staff)
Attach CV

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND
 SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE
 TENDERER

Bidder are required to submit proof of Skilled Staff experience (CV) and qualifications. All certified documents must not be older than three (3) months.

Annexure C5: Proof of Business address

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND
SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE
TENDERER

Bidder 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 C6: Company Experience

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

THIS IS MANDATORY RETURNABLE DOCUMENT. FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WILL RESULT IN DISQUALIFICATION OF THE TENDERER

Bidder are required to submit proof of company experience in Electrical and Mechanical with focus on Generator installation.

T2.2x: References

Reference No. 1

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Sir/Madam,

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

They have listed you as a reference. Please evaluate the Bidders 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.

Tenderers are required to submit Generator Installation related work experience that has minimum value of R 3 million in the last 5 years.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK (>= R3mil)

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:

Reference No. 2

Project Manager/Principal Agent: _____

Tel. No: _____

E-mail Address: _____

Signature: _____ Date: _____

Place Company Stamp Here

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Sir/Madam,

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

They have listed you as a reference. Please evaluate the Bidders 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.

Tenderers are required to submit Generator Installation related work experience that has minimum value of R 3 million in the last 5 years.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK (>= R3mil)

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. 3

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Sir/Madam,

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

They have listed you as a reference. Please evaluate the Bidders 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.

Tenderers are required to submit Generator Installation related work experience that has minimum value of R 3 million in the last 5 years.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK (>= R3mil)

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. 4

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

Sir/Madam,

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

They have listed you as a reference. Please evaluate the Bidders 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.

Tenderers are required to submit Generator Installation related work experience that has minimum value of R 3 million in the last 5 years.

NAME OF EMPLOYER	NAME OF PROJECT	CONTRACT PERIOD (Start and End Date)	VALUE OF WORK (>= R3mil)

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

VOLUME 3: CONTRACT

PART C1: AGREEMENT AND CONTRACT

C1.1a Final Summary Page

**FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT
HEALTH FACILITIES IN THE EASTERN CAPE**

FACILITY: EASTERN CAPE
CONTRACT REF. NO: SCMU3-26/27-0202-HO
ASSET TYPE: GENERATORS

**SUMMARY OF
COSTS**

SCHEDULE NUMBER	DESCRIPTION	TOTAL
1	INSTALLATION OF 20KVA GENERATORS	
2	INSTALLATION OF 50KVA GENERATORS	
3	INSTALLATION OF 80KVA GENERATORS	
4	INSTALLATION OF 100KVA GENERATORS	
5	INSTALLATION OF 165KVA GENERATORS	
6	INSTALLATION OF 200kVA GENERATORS	
7	INSTALLATION OF 250KVA GENERATORS	
8	INSTALLATION OF 300kVA GENERATORS	
9	INSTALLATION OF 350kVA GENERATORS	
10	INSTALLATION OF 400KVA GENERATORS	
11	INSTALLATION OF 500kVA GENERATORS	
12	INSTALLATION OF 650kVA GENERATORS	
13	INSTALLATION OF 800KVA GENERATORS	
14	INSTALLATION OF 1000kVA GENERATORS	
15	INSTALLATION OF 1250kVA GENERATORS	
16	INSTALLATION OF SELF BUNDED DIESEL TANKS	

A		NETT TOTAL OF ESTIMATED COST OF WORKS	
B		ALLOWANCE OF CONTINGENCY AT 10%	
C		SUBTOTAL COST OF WORKS (EXCL VAT)	
D		ALLOWANCE FOR VAT AT 15.0%	
E		OFFERED TOTAL COST OF WORKS (INCL VAT)	

C1.1 FORM OF OFFER AND ACCEPTANCE (SIGNED)

OFFER

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

CONTRACT NUMBER: SCMU3-26/27-0202-HO

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE. 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	
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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.

C1.2a CONTRACT DATA (PART 1)

The General Conditions of Contract for Construction Works, Third Edition, (2015) published by the South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House, 1685, are applicable to this Contract and are obtainable from www.saice.org.za. Copies of these Conditions of Contract may be obtained at the Tenderer's own cost from the SAICE (Tel: 011-805 5947).

The following Contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition, 2015, are applicable to this Contract.

Clause	Description
1.1.1.5	The Commencement Date shall be the date on which the Contractor receives a copy of the signed Form of Offer and Acceptance and schedule of deviations if applicable.
1.1.1.13	The Defects Liability Period is 12 Months, measured from the date of the Certificate of Completion.
1.1.1.14	The time for achieving Practical Completion is 6 calendar months, inclusive of the 28 day period referred to in Clause 5.3.2 below, and inclusive of non-working days referred to in Clause 5.8.1 below, but exclusive of special non-working days (Clause 5.8.1). The operation and maintenance section of the works will commence at practical completion and will run continuously for a period of 6 months where after the Works have been handed over to the end user.
1.1.1.15	The Employer is PROVINCE OF THE EASTERN CAPE DEPARTMENT OF HEALTH
1.1.1.16	The Employer's Agent is Lukhozi Consulting Engineers Consortium represented by an employee duly authorised to do so. Add the following to the clause: Any reference to the term "Engineer" in this Contract shall mean "Employer's Agent" and vice versa.
1.1.1.17	Add the following to the clause: Any reference to the term "Engineer's Representative" in this Contract shall mean "Employer's Agent's Representative" and vice versa.
1.1.1.26 1.1.1.27	The pricing strategy is Re-measurement Contract.
1.2.1	Add the following to the clause: 1.2.1.3 Sent by facsimile, electronic or any like communication irrespective of it being during office hours or otherwise. 1.2.1.4 Posted to the Contractor's address and delivered by the postal authorities. 1.2.1.5 Delivered by a courier service and signed for by the recipient or his representative.
1.2.1.2	The address and telephone number of the Employer is: Department of Health Eastern Cape Department of Health Global Life Centre c/o R63 and Phalo Avenue Bhisho Contact Person: Mr Lamkelo Mdingi Email: LAMKELO.MDINGI@ECHEALTH.GOV.ZA Tel:
1.2.1.2	The address and telephone number of the Employer's Agent is: LUKHOZI CONSULTING ENGINEERS CONSORTIUM KWA-LUKHOZI THE QUARRY QUARTZITE DRIVE, SELBOURNE

Clause	Description
	EAST LONDON 5201 Contact Person: Mr Bruce Maliti Email: b.maliti@lukhozi.co.za Tel: 043 721 1321
2.4.1	The following additional clause applies: - In the event of any discrepancy or conflict between any parts of the Contract Documents, the order of precedence shall be as follows: 1. Bills of Quantities 2. Project detailed Specification including Equipment Schedules 3. Technical Specification
3.2.3	The Engineer is, in terms of his appointment by the Employer for the design and administration of the Works included in the Contract, required to obtain the specific approval of the Employer for the execution of the following duties: 3.2.3.1 The issuing of an order to suspend the progress of the Works, the extra cost resulting from which order is to be borne by the Employer in terms of Clause 5.11 or the effect of which is liable to give rise to a claim by the Contractor for an extension of time under Clause 10.1 of these conditions. 3.2.3.2 The issuing of an instruction or order to vary the nature or quantity of the Works in terms of Clause 6.3, the estimated effect of which will be to increase the Contract Price by an amount exceeding R50 000, the valuation of all variation orders in terms of Clause 6.4 and the adjustment of the sum(s) tendered for General Items in terms of Clause 6.11. 3.2.3.3 <i>The approval of any claim submitted by the Contractor in terms of Clause 10.1.</i>
3.2.4	Add the following to the clause: The Contractor shall prepare a Health and Safety Plan in accordance with the Site Specific Health and Safety Specification and submit such to the appointed HSA for legal compliance assessment and verification / approval prior to any works commencing.
3.2.5	Add the following additional sub-clause: The Employer's Agent shall have the authority to suspend, without any additional cost, portions of the Works if there are any acceptance test results outstanding (including level control), as required in terms of the relevant standardised or project specific specifications.
3.2.6	The following additional clause applies:- The Employer or the Employer's Agent under delegated authority, reserves the right to obtain the services of consultants on any matter pertaining to this contract; the employment of such consultants forms no part of this contract; a consultant's advice and/or documentation is to be followed only if the Employer's Agent or the Employer's Agent Representative so instructs
4.3.1	Add the following to the clause: The Contractor shall comply with the: Basic Conditions of Employment Act, Act No 75 of 1997; National Environmental Management Act, Act 107 of 1998; The Basic Conditions of Employment Act, Act No 75 of 1997; Occupational Health and Safety Act, Act No 85 of 1993; Construction Regulations 2014;

Clause	Description
	Health and Safety Specification prepared by the Employer in terms of the Construction Regulations 2014; Environmental Management Programme; and Any and all other relevant applicable laws, regulations, statutory provisions and agreements.
5.3.1	The documentation required before Commencement of the Works are: Health and Safety Plan (Refer to clause 4.3) Environmental Management Plan Initial Programme (Refer to clause 5.6) Security (Refer to clause 6.2) Insurance (Refer to clause 8.6) CV of Contracts Manager (Refer to clause 4.12) CV of Maintenance Supervisor (Refer to clause 4.12) CV of Occupation Health and Safety Officer (SACPMP) (Refer to clause 4.12) Letter of Good Standing with the Department of Labour
5.3.2	The Contractor is required, within 28 days of the Commencement Date, to submit the documents listed in Contract Data clause 5.3.1 to the Employer's Agent for his approval.
5.4.2	Access to and possession of the Site shall not be exclusive to the Contractor, but as set out in section C3.4. Site Usage. The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site. The Contractor shall also provide at his own cost any additional facilities outside the Site required by him for the purposes of the Works.
5.7.3	Add the following to the clause: No such instruction by the Employer's Agent to expedite progress shall be the subject of additional compensation to the Contractor unless the instruction explicitly states that the Contractor is entitled to additional compensation, and cites the amount of such compensation or the basis upon which it is to be determined.
5.1.1 5.8.1	The non-working days are Sundays. The special non-working days are: All gazetted public holidays falling outside the year end break; and The yearend break commencing and ending on dates published by SAFCEC.
5.8.1.5	Add the following new sub-clause: The cost of supervision by the Employer's Agent or his representatives outside of normal working hours (Monday to Friday) shall be to the Contractor's account. A minimum of 48 hours notification of intent to work outside normal working hours shall be regarded as sufficient notice as set out in 5.8.1.
5.12.2.2	Add the following to the clause: Abnormal Rainfall The extension of time to be granted for abnormal rainfall shall be calculated by the formula: $V = (N_w - N_n) + \frac{R_w - R_n}{20}$ Where: V = Extension of Time in calendar days in respect of the calendar month under consideration Nw= Actual number of days during the calendar month under consideration on which a rainfall of 10 mm and more has been recorded Rw= Actual total rainfall in mm recorded during the calendar month under consideration Nn= Average number of days, derived from rainfall records, on which rainfall of 10 mm and more has been recorded during the relevant calendar month as per the data tabulated hereinafter

Clause	Description																																										
	R_n= Average total rainfall in mm for the relevant calendar month, derived from rainfall records, as tabulated hereinafter Where the extension of time due to abnormal rainfall has to be calculated for portion of a calendar month, pro rata values shall be used. Should V be negative for any particular month and should its absolute value exceed the corresponding value of N_n then V shall be taken as being equal to minus N_n. The total extension of time to be granted shall be the algebraic sum of all the monthly extensions provided that if this total is negative then the extension of time to be granted for abnormal rainfall shall be taken as zero. The rainfall records applicable in respect of this Contract are those recorded at the Weather Station nearest to the site and shall be used for calculating the extension of the Time for Completion on account of abnormal rainfall. <table><tr><th>MONTH</th><th>N_n</th><th>R_n</th></tr><tr><td>January</td><td>0.2</td><td>9.9</td></tr><tr><td>February</td><td>0.3</td><td>12.9</td></tr><tr><td>March</td><td>0.6</td><td>17.1</td></tr><tr><td>April</td><td>1.5</td><td>45.8</td></tr><tr><td>May</td><td>2.9</td><td>74.6</td></tr><tr><td>June</td><td>3.4</td><td>94.5</td></tr><tr><td>July</td><td>3.1</td><td>92.0</td></tr><tr><td>August</td><td>2.5</td><td>73.2</td></tr><tr><td>September</td><td>1.4</td><td>46.7</td></tr><tr><td>October</td><td>0.8</td><td>31.6</td></tr><tr><td>November</td><td>0.6</td><td>21.5</td></tr><tr><td>December</td><td>0.3</td><td>15.5</td></tr><tr><td>TOTAL</td><td>17.6</td><td>535.3</td></tr></table>	MONTH	N _n	R _n	January	0.2	9.9	February	0.3	12.9	March	0.6	17.1	April	1.5	45.8	May	2.9	74.6	June	3.4	94.5	July	3.1	92.0	August	2.5	73.2	September	1.4	46.7	October	0.8	31.6	November	0.6	21.5	December	0.3	15.5	TOTAL	17.6	535.3
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December	0.3	15.5																																									
TOTAL	17.6	535.3																																									
5.13.1	The penalty for failing to complete the whole of the Works is R 5000 per calendar day.																																										
5.14.1	The requirements for Practical Completion are: The generator will be connected in fully functional as per specification.																																										
5.16.3	The latent defect period is 10 years for the generators. The latent defects period shall commence on the date of the Final Approval Certificate.																																										
6.2	Delete clauses 6.2.1 to 6.2.3 and replace with the following: 6.2.1 The security to be provided by the contractor shall be a Fixed Performance Guarantee of 10% of the Contract Sum plus retention of 10% of the value of the Works, subject to a 5 % limit of retention as stated in 6.10.3. The Fixed Performance Guarantee shall be from an Insurance Company or Financial Institution that is registered with the Financial Services Board in terms of the Financial Intelligence Centre Act. The Fixed Performance Guarantee shall be jointly and severally bound with the Contractor, in accordance with the provisions of the Form of Guarantee. Any other form of security including a Retention Money Guarantee is not permitted. 6.2.2 The Fixed Performance Guarantee shall be submitted within the time period stated in clause 5.3.2 and shall be provided strictly in accordance with the Pro Forma contained in C1.3. 6.2.3 The Contractor shall ensure that the fixed performance guarantee remains valid and enforceable until the issue of the Certificate of Completion.																																										

Clause	Description
6.8.1	Should the rated tendered be unrealistically high or low, the Employer's Agent may instruct the contractor to balance the rates while the contract sum will stay firm, before commencement of construction. The revised balanced rates will be final and binding. And the value of the payment certificates is to be calculated in accordance with the revised rates and/or prices of the tender throughout the period of the Contract
6.8.2	Contract Price Adjustment is applicable to this contract.
6.10.1.5	The percentage advance on plant and materials not yet built into the Permanent Works is 80 %.
6.10.3	The percentage retention shall be 10 % of payments due, up to the "Limit of retention money" which shall be 5 % of the Contract Sum.
8.6.1.1.2	Not required.
8.6.1.1.3	The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is 5% (five percent) of the value of the damage and/or loss.
8.6.1.3	The limit of indemnity for liability insurance is R 20 000 000 (In words Twenty Million Rand).
8.6.1.4	Ground support insurance is required.
9.2.1	Delete "or" at the end of Clause 9.2.1.3.7 and add the following three Clauses after Clause 9.2.1.3.8: 9.2.1.3.9 Has failed to provide the required insurances or fixed performance guarantee within the prescribed time; 9.2.1.3.10 Has committed a corrupt or fraudulent act during the tender process or the execution of the Contract; or 9.2.1.3.11 Has benefitted from an official or other role player committing any corrupt or fraudulent act during the tender process or in the execution of the Contract.
10.5.1	Dispute resolution shall be by ad-hoc adjudication.
10.5.3	The number of Adjudication Board Members to be appointed is one (1).
10.7.1	The determination of disputes which are unresolved in terms of Clause 10.5.3 shall be by arbitration.

C1.2b CONTRACT DATA (PART 2)

Clause	Description																																				
1.1.1.9	The name of the Contractor is:																																				
1.2.1.2	The address of the Contractor is:																																				
6.5.1.2.3	The percentage allowance to cover overhead charges is 10%.																																				
6.8.3	The Contractor is to list below any special materials on which any increase or decrease in price must be considered separately from the Contract Price Adjustment formula: <table border="1"> <thead> <tr> <th>Type of Material</th><th>Unit</th><th>Rate or Price</th></tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Type of Material	Unit	Rate or Price																																	
Type of Material	Unit	Rate or Price																																			

C1.3: PERFORMANCE GUARANTEE (PRO FORMA)

GUARANTOR DETAILS AND DEFINITIONS

“Guarantor” means:

Physical Address:

“Employer” means:

“Service Provider” means:

“Engineer” means:

“Works” means:

“Site” means:

“Contract” means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

“Contract Sum” means: The accepted amount inclusive of tax of R

Amount in words:

Guaranteed Sum” means: The maximum aggregate amount of R

Amount in words:

Type of Performance Guarantee: Fixed

“Expiry Date” means: Last day of the contract

CONTRACT DETAILS

Employer’s Agent: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

1. FIXED PERFORMANCE GUARANTEE

- 1.1 Where a fixed Performance Guarantee has been selected. The Guarantor’s liability shall be limited to the amount of the Guarantee Sum.
- 1.2 The Guarantor’s period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer’s Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.
- 1.3 The Employer’s Agent and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.

2. CONDITIONS APPLICABLE TO FIXED PERFORMANCES GUARANTEES

2.1 The Guarantor hereby acknowledges that:

2.1.1. Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be constructed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship.

2.1.2. Its obligation under this Performance Guarantee is restricted to the payment of money.

2.2. Subject to the Guarantor's maximum liability referred to in 1.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 2.2.1 to 2.2.3:

2.2.1. A copy of a first written demand issued by the Employer to the Service Provider stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 2.2.2;

2.2.2. A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Service Provider stating that a period of seven (7) days has elapsed since the first written demand in terms of 2.2.1 and the sum certified has still not been paid;

2.2.3. A copy of the aforesaid payment which entitles the Employer to receive payment in terms of the Contract of the sum certified in 2.2.

2.3. Subject to the Guarantor's maximum liability referred to in 1.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:

2.3.1. The Contract has been terminated due to the Service Provider's default and that this Performance Guarantee is called up in terms of 2.3; or

2.3.2. A provisional or final sequestration or liquidation court order has been granted against the Service Provider and that the Performance Guarantee is called up in terms of 2.3; and

2.3.3. The aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provision liquidation court order.

2.3.4. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 2.2 and 2.3 shall not exceed the Guarantor's maximum liability in terms of 1.1.

2.3.5. Where the Guarantor has made payment in terms of 2.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of the Performance Guarantee shall bear interest at the prime overdraft rate by the Employer's Bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.

2.3.6. Payment by the Guarantor in terms of 2.2 or 2.3 shall only be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.

2.3.7. Payment by the Guarantor in terms of 2.3 will only be made against the return of the original Performance Guarantee by the Employer.

- 2.4. The Employer shall have the absolute right to arrange his affairs with the service provider in any manner which the Employer may consider fit and the Guarantor shall not have right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 2.5. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 2.6. This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 2.7. This Performance Guarantee, with the required demand notices in terms of 2.2 or 2.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 2.8. Where the Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act of section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the magistrate's Court.

Signed at

.....

..... Date

Guarantor's signatory (1)

.....

Capacity

.....

Guarantor's signatory (2)

.....

Capacity

.....

Witness signatory (1)

.....

Witness signatory (2)

.....

C1.4 CONFIRMATION OF RECEIPT OF CONTRACT (PRO FORMA)
--

The Tenderer, (now Contractor), identified in the Offer part of this Agreement, hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) on:

The (day) of (month) (year)

At (place)

It is hereby agreed that the official commencement date of the Contract will be:

The (day) of (month) (year)

For and on behalf of the Contractor:

Name

Capacity

Signature Date:

Witness Name

Witness Signature Date:.....

C1.5 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:

- 1 The rights and obligations of the Adjudicator and the Parties shall be as set out in the Procedure.
- 2 The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the Procedure.
- 3 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.
- 4 The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavour 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.
- 5 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.

SIGNED

by:

Name: _____

SIGNED by:

Name: _____

SIGNED by:

Name: _____

Witness

Name: _____

Address: _____

Witness:

Name _____

Address: _____

Witness:

Name: _____

Address: _____

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: (a) Printing, reproduction and purchase of documents, drawings, maps, records and photographs. (b) Telegrams, telex, faxes, and telephone calls. (c) Postage and similar delivery charges. (d) Travelling, hotel expenses and other similar disbursements. (e) Room charges. (f) 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	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-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 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.

PART C2-2: BILL OF QUANTITIES

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE

FACILITY: EASTERN CAPE
CONTRACT REF. NO SCMU3-26/27-0202-HO
ASSET TYPE: GENERATORS

SCHEDULE 1 : INSTALLATION OF 20KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		20 KVA	Item	2		
6.2		Cabling				
6.2.1		16mm ² x 4c, copper, PVC/ECC/PC	m	300		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE

FACILITY: EASTERN CAPE
CONTRACT REF. NO SCMU3-26/27-0202-HO
ASSET TYPE: GENERATORS

SCHEDULE 1 : INSTALLATION OF 20KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Cable Terminations				
6.2.2		16mm ² x 4c, copper, PVC/ECC/PC	No	8		
6.3		Circuit Breakers				
6.3.1		63A, TP, 10kA, mcb	No	4		
6.4		Cable Tray				
6.4.1		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	150		
6.5		Trenching				
6.5.1		Excavation of 600mm deep trench on paved area, including repairs to paving	m	150		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		2200 x 920 x 1100	No	2		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	2		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	1000		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN
 FACILITY: EASTERN CAPE
 CONTRACT REF. NOSCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 2 : INSTALLATION OF 50kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		50 KVA	Item	133		
6.2		Cabling				
6.2.1		25mm ² x 4c, copper, PVC/ECC/PC	m	19950		

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FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 3: INSTALLATION OF 80KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		80 KVA	Item	20		
6.2		Cabling				
6.2.1		50mm ² x 4c, copper, PVC/ECC/PC	m	3000		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 4: INSTALLATION OF 100kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		100 KVA	Item	7		
6.2		Cabling				
6.2.1		50mm ² x 4c, copper, PVC/ECC/PC	m	1050		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 4: INSTALLATION OF 100kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Cable Terminations				
6.2.2		50mm ² x 4c, copper, PVC/ECC/PC	No	28		
6.3		Circuit Breakers				
6.3.1		200A, TP, 15kA, mccb	No	14		
6.4		Cable Tray				
6.4.1		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	525		
6.5		Trenching				
6.5.1		Excavation of 600mm deep trench on paved area, including repairs to paving	m	525		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		2400 x 1050 x 1250	No	7		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	7		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	1000		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE

FACILITY: EASTERN CAPE
CONTRACT REF. NO SCMU3-26/27-0202-HO
ASSET TYPE: GENERATORS

SCHEDULE 5 : INSTALLATION OF 165KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoh (East London).				
6.1.1		165 KVA	Item	3		
6.2		Cabling				
6.2.1		95mm2 x 4c, copper, PVC/ECC/PC	m	400		

SCHEDULE 6: INSTALLATION OF 100KVA GENERATORS					
	Cable Terminations				
6.2.2	95mm2 x 4c, copper, PVC/ECC/PC	No	12		
6.3	Circuit Breakers				
6.3.1	250A, TP, 15kA, mccb	No	6		
6.4	Cable Tray				
6.4.1	Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	225		
6.5	Trenching				
6.5.1	Excavation of 600mm deep trench on paved area, including repairs to paving	m	225		
6.6	Generator Plinth				
	Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1	3090 x 1100 x 1650	No	3		
6.7	High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	3		
6.8	Sundry Items (for one Generator Unit)				
6.8.1	Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2	Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3	Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4	Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5	12 Months Guarantee maintenance	Sum	1		
6.8.6	Filling up diesel tank with approved diesel	Litres	1500		
TOTAL CARRIED FORWARD TO SUMMARY					

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 6 : INSTALLATION OF 200kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		200 KVA	Item	3		
6.2		Cabling				
6.2.1		95mm2 x 4c, copper, PVC/ECC/PC (2 Parallel)	m	400		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 6 : INSTALLATION OF 200kVA GENERATORS

		Cable Terminations				
6.2.2		95mm ² x 4c, copper, PVC/ECC/PC (2 Parallel)	No	24		
6.3		Circuit Breakers				
6.3.1		300A, TP, 15kA, mccb	No	6		
6.4		Cable Tray				
6.4.1		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	225		
6.5		Trenching				
6.5.1		Excavation of 600mm deep trench on paved area, including repairs to paving	m	225		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		3400 x 1400 x 2150	No	3		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	3		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	1500		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 7: INSTALLATION OF 250KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		250 KVA	Item	3		
6.2		Cabling				
6.2.1		95mm2 x 4c, copper, PVC/ECC/PC (2 parallel)	m	400		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE FACILITY: EASTERN CAPE
CONTRACT REF. NO: SCMU3-26/27-0202-HO
ASSET TYPE: GENERATORS

SCHEDULE 7: INSTALLATION OF 250KVA GENERATORS

		Cable Terminations				
6.2.2		95mm ² x 4c, copper, PVC/ECC/PC (2 parallel)	No	24		
6.3		Circuit Breakers				
6.3.1		350A, TP, 15kA, mccb	No	6		
6.4		Cable Tray				
6.4.1		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	225		
6.5		Trenching				
6.5.1		Excavation of 600mm deep trench on paved area, including repairs to paving	m	225		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		3400 x 1400 x 2150	No	3		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	3		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	2500		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 8: INSTALLATION OF 300kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		300 KVA	Item	4		
6.2		Cabling				
6.2.1		95mm2 x 4c, copper, PVC/ECC/PC (2 parallel)	m	400		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
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 ASSET TYPE: GENERATORS

SCHEDULE 8: INSTALLATION OF 300kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Cable Terminations				
6.2.2		95mm ² x 4c, copper, PVC/ECC/PC (2 parallel)	No	32		
6.3		Circuit Breakers				
6.3.1		500A, TP, 15kA, mccb	No	8		
6.4		Cable Tray				
6.4.1		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	300		
6.5		Trenching				
6.5.1		Excavation of 600mm deep trench on paved area, including repairs to paving	m	300		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		4000 x 1400 x 2150	No	4		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	4		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	2500		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES
 FACILITY: EASTERN CAPE
 CONTRACT REF. NSCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 9: INSTALLATION OF 350kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		350 KVA	Item	3		
6.2		Cabling				
6.2.1		95mm2 x 4c, copper, PVC/ECC/PC (3 parallel)	m	400		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE

FACILITY: EASTERN CAPE
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ASSET TYPE: GENERATORS

SCHEDULE 10 : INSTALLATION OF 400KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5,1		Provision of sureties	Sum	1		
5,2		Insurances	Sum	1		
5,3		Site Establishment	Sum	1		
5,4		Project Supervision and administration	Sum	1		
5,5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		400 KVA	Item	3		
6.2		Cabling				
6.2.1		300mm2 Single Cores, copper, PVC	m	400		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE

FACILITY: EASTERN CAPE
CONTRACT REF. NO: SCMU3-26/27-0202-HO
ASSET TYPE: GENERATORS

SCHEDULE 10 : INSTALLATION OF 400KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Cable Terminations				
6.2.2		300mm ² Single Cores, copper, PVC	No	48		
6.3		Circuit Breakers				
6.3.1		500A, TP, 15kA, mccb	No	6		
6.4		Cable Tray				
		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	225		
6.5		Trenching				
		Excavation of 600mm deep trench on paved area, including repairs to paving	m	225		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		3900 x 1400 x 2150	No	1		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	3		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	3000		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
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 ASSET TYPE: GENERATORS

SCHEDULE 11 : INSTALLATION OF 500kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5.1		Provision of sureties	Sum	1		
5.2		Insurances	Sum	1		
5.3		Site Establishment	Sum	1		
5.4		Project Supervision and administration	Sum	1		
5.5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		500 KVA	Item	3		
6.2		Cabling				
6.2.1		300mm2 Single Cores, copper, PVC (2 in parallel)	m	400		

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Cable Terminations				
6.2.2		300mm2 Single Cores, copper, PVC (2 in parallel)	No	96		
6.3		Circuit Breakers				
6.3.1		700A, TP, 15kA, mccb	No	6		
6.4		Cable Tray				
		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	225		
6.5		Trenching				
		Excavation of 600mm deep trench on paved area, including repairs to paving	m	225		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		4200 x 1500 x 2350	No	1		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	3		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	4000		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
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 ASSET TYPE: GENERATORS

SCHEDULE 12 : INSTALLATION OF 650KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5.1		Provision of sureties	Sum	1		
5.2		Insurances	Sum	1		
5.3		Site Establishment	Sum	1		
5.4		Project Supervision and administration	Sum	1		
5.5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		650 KVA	Item	1		
6.2		Cabling				
6.2.1		300mm2 Single Cores, copper, PVC (2 in parallel)	m	400		

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 FACILITY: EASTERN CAPE
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 ASSET TYPE: GENERATORS

SCHEDULE 12 : INSTALLATION OF 650kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Cable Terminations				
6.2.2		300mm ² Single Cores, copper, PVC (2 in parallel)	No	32		
6.3		Circuit Breakers				
6.3.1		700A, TP, 15kA, mccb	No	2		
6.4		Cable Tray				
		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	75		
6.5		Trenching				
		Excavation of 600mm deep trench on paved area, including repairs to paving	m	75		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		4200 x 1500 x 2350	No	1		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	1		
6.7		Sundry Items (for one Generator Unit)				
6.7.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.7.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.7.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.7.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.7.5		12 Months Guarantee maintenance	Sum	1		
6.7.6		Filling up diesel tank with approved diesel	Litres	5000		
TOTAL CARRIED FORWARD TO SUMMARY						

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
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SCHEDULE 13: INSTALLATION OF 800KVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5.1		Provision of sureties	Sum	1		
5.2		Insurances	Sum	1		
5.3		Site Establishment	Sum	1		
5.4		Project Supervision and administration	Sum	1		
5.5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		800 KVA	Item	2		
6.2		Cabling				
6.2.1		300mm2 Single Cores, copper, PVC (3 in parallel)	m	400		

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 ASSET TYPE: GENERATORS

SCHEDULE 14: INSTALLATION OF 1000kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5.1		Provision of sureties	Sum	1		
5.2		Insurances	Sum	1		
5.3		Site Establishment	Sum	1		
5.4		Project Supervision and administration	Sum	1		
5.5		Health and Safety	Sum	1		
						R -
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		1000 KVA	Item	1		
6.2		Cabling				
6.2.1		300mm2 Single Cores, copper, PVC (4 in parallel)	m	400		

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 FACILITY: EASTERN CAPE
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 ASSET TYPE: GENERATORS

SCHEDULE 15: INSTALLATION OF 1250kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	GM 2.8	LABOUR RATES APPLICABLE TO UNSCHEDULED WORK: Labour rates that Contractor will charge for additional adhoc work.				
1.1		Technician	R/hr	20		
1.2		Senior Artisan (Trade Tested & Additional Certification)	R/hr	20		
1.3		Artisan (Trade Tested)	R/hr	20		
1.4		Artisan Aid	R/hr	20		
1.5		General Worker	R/hr	20		
2	GM 2.8	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.	R/km	500		
3	GM 2.8	ACCOMMODATION AND SUBSISTENCE : Daily Rates per person that the Contractor will claim for trips lasting more than one day at a time.				
3.1		Accommodation	R/night	10		
3.2		Subsistence	R/day	10		
4	GM 2.8	MARK-UP ON MATERIALS AND SERVICES THAT IS NOT INCLUDED IN PRICE LISTS : Mark-up on proven cost for materials and/or services that is already contained in the approved price lists.	%			
5		CONTRACTUAL MATTERS				
5.1		Provision of sureties	Sum	1		
5.2		Insurances	Sum	1		
5.3		Site Establishment	Sum	1		
5.4		Project Supervision and administration	Sum	1		
5.5		Health and Safety	Sum	1		
6	GM 2.5	PROVISION FOR REPLACEMENT OF EQUIPMENT : Supply delivery, offloading, installation, testing, commissioning and handing over in first class working order of the following Prime diesel generators. The unit shall include control panel, changeover, soundproof canopy and ancillary equipment necessary as per detail specification. Delivery cost shall be based on delivery to within 600km radius of the central location, ECDoH (East London).				
6.1.1		1250 KVA	item	2		
6.2		Cabling				
6.2.1		300mm2 Single Cores, copper, PVC (5 in parallel)	m	400		

FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE
 FACILITY: EASTERN CAPE
 CONTRACT REF. NO: SCMU3-26/27-0202-HO
 ASSET TYPE: GENERATORS

SCHEDULE 15: INSTALLATION OF 1250kVA GENERATORS

ITEM Nr.	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Cable Terminations				
6.2.2		300mm ² Single Cores, copper, PVC (5 in parallel)	No	160		
6.3		Circuit Breakers				
6.3.1		2000A, TP, 15kA, mccb	No	4		
6.4		Cable Tray				
		Supply and install, 450mm wide Heavy Duty Cable Tray mounted on surface	m	150		
6.5		Trenching				
		Excavation of 600mm deep trench on paved area, including repairs to paving	m	150		
6.6		Generator Plinth				
		Construction for a Generator Plinth as per specifications and generator unit dimensions shown below. Dimensions (LxWxH)				
6.6.1		6000 x 2200 x 2520	No	1		
6.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	2		
6.8		Sundry Items (for one Generator Unit)				
6.8.1		Allow for connection of existing diesel tank, pumps onto new unit (for one generator)	Sum	1		
6.8.2		Provide formal training and course materials for the clients personnel in the operation and maintenance of the complete system	Sum	1		
6.8.3		Provide 1 original, 3 copies of the operation and Maintenance Manuals of all the Equipment Installed for the Complete Generator Installation	No.	3		
6.8.4		Testing and commissioning of the whole installation including an Electrical Certificate of Compliance	Sum	1		
6.8.5		12 Months Guarantee maintenance	Sum	1		
6.8.6		Filling up diesel tank with approved diesel	Litres	10000		
6.8.7		High Security Fence with 2m wide Double Swing Gate as described in the attached specs (8,6m x 5m fencing)	Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY						

**FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN
THE EASTERN CAPE**

FACILITY: EASTERN CAPE
CONTRACT REF. NO: SCMU3-26/27-0202-HO
ASSET TYPE: GENERATORS

SUMMARY OF COSTS

SCHEDULE NUMBER	DESCRIPTION	TOTAL
1	INSTALLATION OF 20KVA GENERATORS	
2	INSTALLATION OF 50KVA GENERATORS	
3	INSTALLATION OF 80KVA GENERATORS	
4	INSTALLATION OF 100KVA GENERATORS	
5	INSTALLATION OF 165KVA GENERATORS	
6	INSTALLATION OF 200kVA GENERATORS	
7	INSTALLATION OF 250KVA GENERATORS	
8	INSTALLATION OF 300kVA GENERATORS	
9	INSTALLATION OF 350KVA GENERATORS	
10	INSTALLATION OF 400KVA GENERATORS	
11	INSTALLATION OF 500kVA GENERATORS	
12	INSTALLATION OF 650kVA GENERATORS	
13	INSTALLATION OF 800KVA GENERATORS	
14	INSTALLATION OF 1000kVA GENERATORS	
15	INSTALLATION OF 1250kVA GENERATORS	
16	INSTALLATION OF SELF BUNDED DIESEL TANKS	
A	NETT TOTAL OF ESTIMATED COST OF WORKS	
B	ALLOWANCE OF CONTINGENCY AT 10%	
C	SUBTOTAL COST OF WORKS (EXCL VAT)	
D	ALLOWANCE FOR VAT AT 15.0%	
E	OFFERED TOTAL COST OF WORKS (INCL VAT)	

PART C3: SCOPE OF WORKS

C3: SCOPE OF WORKS

C3.1: SCOPE OF WORKS

Project Name:	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
Tender No:	SCMU3-26/27-0202-HO

Scope of Works

Framework Contract for the Supply, Installation and Commissioning of Prime Rated Generators

1. PROJECT OVERVIEW

The Contractor shall provide all labour, supervision, materials, equipment, transport, tools, consumables and ancillary services necessary for the complete supply, delivery, installation, testing, commissioning and handover of standby diesel generator systems at designated health facilities within the Eastern Cape Province.

The works shall include all civil, structural, mechanical, electrical and commissioning activities required to provide a fully functional standby power generation system integrated with the existing electrical infrastructure.

The generators will NOT be procured at the same time; the successful contractor shall receive an instruction to procure a certain size generator. The tendered rates shall be applicable for the duration of the contract.

2. FRAMEWORK CONTRACT IMPLEMENTATION

This contract shall operate as a Framework Agreement for the provision of standby generator replacement, installation, commissioning and associated works at various facilities within the Eastern Cape Province.

The Employer does not guarantee any minimum quantity of work, number of installations, contract value, or frequency of instructions/work orders during the contract period. Work shall be executed only upon the issuance of a written instruction, purchase order, work order, or project-specific scope issued by the Employer.

Each instruction shall identify the facility, generator capacity, scope of work, and any site-specific requirements applicable to the installation.

Prior to commencing any works, the Contractor shall conduct a site inspection and verify the existing conditions, access requirements, service connections, and installation constraints. Any discrepancies identified shall be reported to the Employer for clarification.

The Contractor shall maintain the resources, personnel, equipment, and supplier arrangements necessary to respond to work orders issued under this framework agreement within the timeframes stipulated by the Employer.

The scope of works for each instruction/work order may include, but shall not be limited to:

- Removal and lawful disposal of existing generator equipment;
- Supply and installation of replacement generators;
- Civil, electrical and mechanical modifications;
- Fuel system modifications;
- Earthing and lightning protection works;
- Testing and commissioning;
- Training of end users;
- Preparation of as-built documentation;
- High-security perimeter fencing.

The Employer reserves the right to issue work orders for any combination of facilities and generator sizes covered by this framework contract and may appoint the Contractor to undertake multiple projects concurrently, subject to operational requirements and budget availability.

No claim for loss of profit, standing time, or anticipated workload shall be entertained as a result of fewer instructions/work orders being issued than anticipated by the Contractor.

3. PRELIMINARIES AND GENERAL REQUIREMENTS

The Contractor shall:

- Conduct site inspections and verify all dimensions and existing services prior to commencement.
- Provide project management, supervision and contract administration throughout the duration of the works.
- Establish and maintain site offices, storage facilities, temporary services and security arrangements.
- Provide all required insurances, guarantees and sureties.
- Comply with all Occupational Health and Safety Act requirements and prepare site-specific Health and Safety Plans.
- Coordinate all work with facility management to minimise disruption to healthcare operations.
- Obtain all permits, approvals and clearances necessary for execution of the works.

4. SUPPLY OF GENERATOR EQUIPMENT

The Contractor shall supply new diesel-powered standby generator sets of the specified capacity as indicated in the project schedule.

Each generator package shall include, but not be limited to:

- Diesel engine and alternator assembly.
- Acoustic weatherproof canopy.
- Generator control and protection system.
- Automatic mains failure and changeover functionality.
- Starting batteries and charging system.
- Integrated fuel system and associated accessories.
- Emergency stop facilities.
- Exhaust system.
- Anti-vibration mountings.
- All ancillary equipment required for complete operation.

All equipment shall comply with relevant SANS, IEC and manufacturer standards and shall be suitable for continuous operation within local environmental conditions.

5. DELIVERY, OFFLOADING AND POSITIONING

The Contractor shall:

- Transport all equipment to site.
- Provide cranes and lifting equipment required for offloading.
- Position generators accurately on prepared foundations.
- Protect all equipment against damage during transportation and installation.
- Remove all packaging and construction waste from site.

6. CIVIL AND STRUCTURAL WORKS

The Contractor shall undertake all civil works required for generator installation, including:

6.1. Generator Foundations and Plinths

- Setting out of foundation positions.
- Excavation and preparation of foundation bases.
- Reinforced concrete generator plinths.
- Anchor bolts and mounting arrangements.
- Concrete curing and finishing.
- All associated formwork and reinforcement.

6.2. Trenching and Underground Services

- Excavation of cable trenches.
- Protection of existing underground services.
- Backfilling and compaction.
- Reinstatement of paving, roads, walkways and landscaped areas.
- Installation of warning tape and cable markers.

7. ELECTRICAL INSTALLATION WORKS

The Contractor shall provide a complete electrical installation including:

7.1. Power Cabling

- Supply and installation of generator power cables.
- Cable glands, lugs and terminations.
- Cable identification and labelling.
- Testing of installed cables.

7.2. Cable Management Systems

- Supply and installation of heavy-duty cable trays.
- Cable supports and brackets.
- Fixings and corrosion protection.

7.3. Switching and Protection Equipment

- Supply and installation of circuit breakers.

- Protection devices and associated accessories.
- Integration with existing electrical systems.
- Coordination of protection settings.

7.4. Earthing and Bonding

- Generator earthing system.
- Equipotential bonding of all metallic components.
- Earthing of cable trays and ancillary equipment.
- Earth continuity testing and certification.

8. MECHANICAL WORKS

The Contractor shall:

- Connect generators to existing fuel storage systems where applicable.
- Install fuel piping, valves and accessories as required.
- Connect fuel transfer pumps where specified.
- Install exhaust systems and weather protection components.
- Install vibration isolation systems.
- Complete all mechanical adjustments required for proper operation.

9. SECURITY INSTALLATIONS

The Contractor shall provide and install generator security infrastructure including:

- High-security perimeter fencing.
- Access gates.
- Gate locking arrangements.
- Concrete fence posts and foundations.
- Corrosion protection and finishing.

10. TESTING AND COMMISSIONING

The Contractor shall carry out comprehensive testing and commissioning, including:

- Mechanical inspection and verification.
- Electrical continuity and insulation resistance testing.
- Earthing system testing.
- Functional testing of controls and alarms.
- Automatic mains failure testing.
- Load transfer testing.
- Generator performance testing under load.
- Endurance and reliability testing.
- Verification of all protection settings.
- Demonstration of system operation to the Employer.

All testing shall be witnessed by the Employer's Representative where required.

11. SELF-BUNDED DIESEL FUEL STORAGE TANKS

11.1. SCOPE OF WORKS

The Contractor shall design, manufacture, supply, deliver, install, test, commission and hand over self-bunded diesel fuel storage tanks complete with all associated pipework, valves,

fittings, dispensing equipment, fuel transfer systems, instrumentation, supports and accessories required for the safe operation of standby diesel generators.

The self-bunded fuel storage tank shall serve as the primary fuel storage facility for standby generators installed under this Framework Contract.

Tank capacities shall be as specified in the Particular Specification, Drawings, Bill of Quantities or Site Instruction and may range from 1,000 litres to 110,000 litres.

The Contractor shall provide a complete operational system suitable for continuous service under South African environmental and operating conditions.

11.2. APPLICABLE STANDARDS

All equipment and installations shall comply with the latest editions of the following standards:

- SANS 10131 – Above-ground storage tanks for petroleum products
- SANS 10089-2 – Petroleum Industry Storage and Distribution Installations
- SANS 10400 – National Building Regulations
- Occupational Health and Safety Act (Act 85 of 1993)
- National Environmental Management Act (NEMA)
- National Water Act
- AS 1692 – Steel Tanks for Flammable and Combustible Liquids
- AS 1940 – Storage and Handling of Flammable and Combustible Liquids
- UL 142 – Steel Aboveground Tanks
- ULC S601 – Shop Fabricated Aboveground Steel Tanks
- Manufacturer's Standards and Quality Procedures

Where conflict exists, the more stringent requirement shall apply.

11.3. GENERAL REQUIREMENTS

The fuel storage system shall:

- Be suitable for diesel fuel storage.
- Be designed for outdoor installation.
- Be resistant to corrosion and UV exposure.
- Prevent environmental contamination in the event of a fuel leak.
- Permit safe fuel delivery and fuel withdrawal.
- Allow routine inspection and maintenance.
- Be transportable by road transport.
- Be suitable for a minimum service life of 20 years.

11.4. SELF-BUNDED TANK CONSTRUCTION

General

The tank shall comprise:

- An inner primary fuel storage tank.
- An outer secondary containment tank.
- Interstitial leak monitoring space.
- Structural supports and lifting points.
- Access ladders and platforms where required.

The tank shall be factory fabricated and tested before delivery to site.

Secondary Containment

The outer tank shall provide containment equal to not less than:

- 110% of the net usable capacity of the inner tank.

The containment system shall be integral to the tank construction and shall eliminate the need for separate external bund walls.

Material

Tank construction shall be:

- Carbon steel plate construction.
- Minimum Grade 300 steel or approved equivalent.
- Internally suitable for diesel storage.
- Externally protected against corrosion.

Corrosion Protection

External surfaces shall receive:

- Abrasive blast cleaning.
- Zinc-rich primer.
- High-build epoxy coating.
- Polyurethane finish coat.

Total dry film thickness shall not be less than 250 microns.

Alternative approved coating systems may be accepted.

11.5. TANK FITTINGS

Each tank shall be supplied complete with:

Fill Point

- Lockable fill connection.
- Camlock coupling.
- Fill cap.
- Spill containment arrangement.

Vent Pipe

- Atmospheric vent.
- Flame arrestor where required.
- Weather protection.

Inspection Hatch

- Lockable access hatch.
- Gasketed cover.
- Minimum 450 mm diameter.

Level Indication

The tank shall be fitted with:

- Mechanical level gauge.
- Electronic level monitoring system where specified.

Leak Detection

Provision shall be made for:

- Monitoring of the interstitial space.
- Visual leak indicator.
- Optional electronic leak detection system.

11.6. OVERFILL PROTECTION

The tank shall be fitted with:

- Automatic overfill prevention valve.
- High-level alarm.
- Clearly marked maximum filling level.

The filling system shall prevent accidental overfilling during tanker delivery operations.

11.7. FUEL TRANSFER SYSTEM

Where specified, the Contractor shall provide a fuel transfer system consisting of:

- Diesel transfer pump.
- Suction pipework.
- Delivery pipework.
- Isolation valves.
- Check valves.
- Flexible connectors.
- Fuel filtration system.

Transfer pumps shall be sized to meet generator fuel demand and refill requirements.

11.8. DAY TANKS

Where day tanks are specified, the Contractor shall provide:

- Generator day tank.
- Automatic filling controls.
- High-level shutdown.
- Low-level alarm.
- Leak containment.

Day tanks shall be integrated with the bulk fuel storage tank.

11.9. DISPENSING EQUIPMENT

Where required, the tank shall be equipped with:

- Fuel dispensing pump.
- Fuel flow meter.
- Hose reel.
- Automatic dispensing nozzle.
- Fuel management system.

The dispensing system shall be suitable for refuelling vehicles, generators and auxiliary equipment.

11.10. SAFETY REQUIREMENTS

The tank shall include:

- Safety signage.
- Emergency shutdown facilities.
- Earthing and bonding points.

- Fire extinguisher mounting brackets.
- Lockable access points.

Warning signs shall include:

- FLAMMABLE LIQUID
- NO SMOKING
- NO OPEN FLAMES
- EMERGENCY CONTACT DETAILS

11.11. INSPECTION PLATFORMS

Where required for tanks exceeding 2.5 metres in height, provide:

- Access ladder.
- Handrails.
- Non-slip walkways.
- Safety cage.

All access systems shall comply with the Occupational Health and Safety Act.

11.12. FOUNDATIONS

The Contractor shall verify site conditions.

Unless otherwise indicated, tanks shall be installed on:

- Reinforced concrete plinths.
- Compacted engineered fill.
- Approved structural support systems.

Foundation design shall consider:

- Tank mass.
- Fuel mass.
- Wind loading.
- Seismic effects where applicable.

11.13. TESTING

Factory testing shall include:

- Visual inspection.
- Dimensional verification.
- Weld inspection.
- Hydrostatic testing.
- Leak testing of containment system.

Site testing shall include:

- Functional testing.
- Fuel transfer testing.
- Alarm testing.
- Leak detection testing.

All test certificates shall be submitted to the Engineer.

11.14. COMMISSIONING

The Contractor shall commission the complete fuel storage system and demonstrate:

- Fuel filling operation.

- Fuel transfer operation.
- Generator fuel supply operation.
- Alarm functionality.
- Leak monitoring functionality.
-

Commissioning records shall be submitted to the Employer.

11.15. DOCUMENTATION

The Contractor shall provide:

- Design calculations.
- General arrangement drawings.
- Foundation requirements.
- Welding certificates.
- Coating certificates.
- Factory test certificates.
- Commissioning reports.
- Maintenance manuals.
- Spare parts lists.
- Warranty certificates.

11.16. WARRANTY

The self-bunded tank system shall be warranted against defects in materials and workmanship for a minimum period of:

- Tank structure: 10 years.
- Pumps and accessories: 12 months.
- Instrumentation and controls: 12 months.

The Contractor shall rectify any defects occurring during the warranty period at no additional cost to the Employer.

11.17. TRAINING

The Contractor shall provide formal operator and maintenance training for Employer personnel covering:

- Generator operation.
- Routine inspections.
- Emergency procedures.
- Maintenance requirements.
- Safety precautions.
- Fault identification and reporting.

Training material and manuals shall be supplied to all attendees.

12. DOCUMENTATION

The Contractor shall provide:

- Operation and Maintenance Manuals.
- Manufacturer warranties.
- Test certificates.
- Factory acceptance documentation.
- Commissioning reports.

- As-built drawings.
- Equipment schedules.
- Electrical Certificate of Compliance (CoC).
- Asset information required by the Employer.

13. HANDOVER REQUIREMENTS

Practical completion shall only be achieved once:

- All works have been completed.
- All defects have been rectified.
- Commissioning has been successfully completed.
- Training has been provided.
- Documentation has been submitted and approved.
- The installation has been accepted by the Employer.

14. DEFECTS LIABILITY AND WARRANTY

The Contractor shall provide a minimum twelve (12) month defects liability and warranty period commencing from the date of practical completion.

During this period the Contractor shall:

- Attend to defects at no additional cost.
- Repair or replace defective equipment.
- Provide technical support as required.
- Honour all manufacturer warranty obligations.

15. APPLICABLE STANDARDS

All works shall comply with the latest editions of:

- Occupational Health and Safety Act: Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)
- SANS 10142-1: The Wiring of Premises – Part 1: Low-voltage installations.
- SANS 10400 where applicable.
- IEC Standards applicable to standby power systems.
- National Department of Health requirements.
- Department of Public Works and Infrastructure requirements.
- Electrical Installation Regulations: Electrical Installation Regulations, 2009 (issued under the Occupational Health and Safety Act 85 of 1993).
- Project-Specific Engineer Specification
- Manufacturer installation requirements.
- Local authority and statutory requirements.

Occupational Health and Safety Specification

Issued in terms of the Occupational Health and Safety Act, 1993 Construction regulations 2014

PROJECT NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
LOCATIONS	EASTERN CAPE PROVINCE (VARIOUS FACILITIES)
BID NO	SCMU3-26/27-0202-HO



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1 SCOPE

This health and safety specification in respect to the supply, delivery, installation, testing and commissioning of prime rated diesel generators at various facilities over a three (3) year period.

Generators will not be installed simultaneously but will be procured and installed on an as-and-when required basis, specifically after the complete failure of an existing generator unit at a particular site.

The Contractor shall provide all labour, materials, plant, transport, supervision and equipment necessary to undertake the following:

- Supply of new prime rated diesel generator sets of specified capacities.
- Delivery of generators to the identified sites.
- Removal and disposal of failed or obsolete generators where required.
- Installation of new generators including all associated electrical and mechanical connections.
- Integration with existing electrical distribution systems.
- Testing, commissioning and handover of operational generator systems.

Typical Scope of Work per Site

For each site instruction issued under this framework, the Contractor shall typically undertake:

1. Site Assessment

- Inspection of the existing generator installation.
- Confirmation of generator capacity requirements and installation conditions.

2. Supply of Generator

- Supply of generator set complete with:
 - Engine and alternator
 - Control panel
 - Base frame and anti-vibration mounts
 - Fuel tank (integral or external as required)
 - Exhaust system
 - Battery and starter system
 - Weatherproof or acoustic enclosure where applicable.

3. Removal of Existing Generator

- Safe isolation and disconnection of the existing failed generator.
- Removal and lawful disposal or handover of the old unit as directed by the Employer.

4. Installation Works

- Placement and securing of the new generator.
- New Plint installation.
- Electrical connections including:
 - Generator cabling
 - Connection to Automatic Transfer Switch (ATS)
 - Earthing and bonding.
- Mechanical works including:
 - Fuel connections
 - Exhaust routing
 - Ventilation provisions.

5. Testing and Commissioning

- Pre-commissioning inspections.
- Functional testing of generator and controls.
- Load testing.

Verification of automatic changeover operation.

6. Training and Handover

Demonstration of operation to Employer's representatives.

Provision of operation and maintenance manuals.

Submission of commissioning documentation.

4. Response and Call-Off Procedure

- Work will be issued through site-specific work orders or call-off instructions under the framework agreement.
- The Contractor shall respond to site instructions within the timeframe specified by the Employer due to the critical nature of standby power systems.

5. Compliance Requirements

All works shall comply with:

- Applicable South African electrical standards (SANS).
- Occupational health and safety regulations.
- Manufacturer installation requirements.
- Local authority and statutory requirements.

The scope provides the overarching framework within which the Contractor is required to demonstrate compliance with certain requirements for occupational health and safety established by the Occupational Health and Safety Act 85 of 1993 during construction work;

- Establishes the way the Contractor is to manage the risk of health and safety incidents during construction; and
- Establishes the way the Client or Clients Agent will interact with Contractor.

This specification establishes general requirements to enable the Contractor to satisfy aspects of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Construction Regulations, 2014. The Contractor is required to develop, implement and maintain a site-specific health and safety plan. The Clients' Agent is required to provide certain site-specific information to the Contractor or a health and safety specification for the works to enable such a plan to be formulated. Accordingly, this specification on its own cannot ensure compliance with the requirements of the Act.

The Construction Regulations, 2014, requires a Client or Clients Agent to stop any contractor from executing construction work which is not in accordance with the contractor's health and safety plan for the site or which poses to be a threat to the health and safety of persons.

2 DEFINITIONS

As per the Occupational Health and Safety Act (85 of 1993) and the relevant regulations and applicable standards.

2.1 List of Abbreviations

AIA	Approved Inspection Authority
CC	Compensation Commissioner
CHSA	Construction Health and Safety Agent
CHSO	Construction Health and Safety Officer
CR	Construction Regulations (CR 2014)
DoL	Department of Labour
GAR	General Administration Regulations
GSR	General Safety Regulations
HCSR	Hazardous Chemical Substances Regulations

HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
OHSS	Occupational Health and Safety Specification
PA	Principal Agent
PSHSS	Project Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
SANS	South African National Standards (Authority)
SDS	Safety Data Sheet
SWP	Safe Work Procedure

2.2 Key References

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

Construction Regulations 2014.

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

SANS codes. For Construction and Machinery

National Road Traffic Act 93 of 1996

3 INTERPRETATION

The Act and its associated regulations shall have precedence in the interpretation of any ambiguity or inconsistency between it and this specification.

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

The PSHSS is a performance specification to ensure that the Client and any bodies that enter into formal agreements with the Client / Agents, Professional Service Consultants (Engineers), Principal Contractors and Contractors achieve an acceptable level of OHS performance.

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 or Clients Agent of any obligation that absolves the Contractor from achieving the required level of performance and compliance with legal requirements. Furthermore, there is no acceptance of liability by the Client or Clients Agent, which may result from the Contractor failing to comply with the PSHSS, i.e. the Contractor remains responsible for achieving the required performance levels.

A Mandatory Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing. The PSHSS highlights the aspects to be implemented over and above the minimum requirements of current legislation. 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 Client or Clients Agent) that are promulgated or accepted during the contract will automatically be applied.

It should be noted that this OHSS in no way relieves the Contractor of any of his responsibilities set out in the Act and Regulations

3.2 REQUIREMENTS

A project specific H&S Plan in response to this PSHSS will be subject to approval by the Client or Clients Agent. This must include all supporting documentation as required to verify the H&S system:

4 GENERAL REQUIREMENTS

4.1 RISKS

Contractor to provide a detailed risk assessment for the entire work on site. The items noted are for information only and must be expanded as required by the project.

Summary of Risk on site:

- a) Working within an operational Health facility.
- b) Working at Heights.
- c) Obstruction of EMS
- d) Overhead line
- e) Environmental pollution (oils or fuel spillages)
- f) Waste management
- g) Noise
- h) Dust
- i) Lifting equipment
- j) Fire
- k) Flammable Liquids / Gas
- l) Deep Excavations
- m) Risk of Known/ Un-Known Services
- n) Fragile Materials
- o) Hazardous Substances
- p) Members of Public
- q) Snakes/ Bees
- r) Biological risks
- s) Ergonomic risks
- t) Environmental Management
- u) Weather related.
- v) Equipment and machinery
- w) Use of Electrical Equipment/Tools
- x) Exposure to Medical Fluids
- y) Confine Space
- z) Traffic Management

Existing structures on site and surrounding land use (with a significant impact on Health & Safety):

- a) Public Health Facility Staff safety a concern.
- b) SMME (Construction Mafia)

4.2 SPECIFIED HAZARDOUS CHEMICAL SUBSTANCES

The PC is to supply the products required as per the bill of quantities-, materials safety data sheets (SDSs) for each of the products envisaged to be utilized on site.

OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

Notification of Construction Work (Annexure 2)

The Notification must be taken to the Regional Department of Labor Office for acknowledgment. This must take place before any work commences.

It should be noted that this OHSS in no way relieves the Contractor of any of his responsibilities set out in the Act and Regulations.

The file must be submitted for approval to the Client or Clients Agent and issued to the Department of Labour before any construction work commences on site.

It should be noted that this OHSS in no way relieves the Contractor of any of his responsibilities set out in the Act and Regulations.

4.3 HEALTH AND SAFETY PLAN FRAMEWORK

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

The Client or Clients Agent may from time-to-time request additions or systems as they relate to the works or legislative requirements at the time.

4.5 APPOINTMENT OF COMPETENT SITE PERSONNEL

The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Electrical / Mechanical Construction Manager (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.

All other legal appointments are to be made with relevance to the type of work required.

4.6 ELECTRICAL / MECHANICAL CONSTRUCTION SUPERVISORS

Competent Electrical / Mechanical Construction Supervisors must 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.). Multiple competent Assistant Construction Supervisors may be appointed where justified by the scope and complexity of the works.

Curriculum Vitae (CVs) are to be submitted for approval by the Client or Clients Agent. The Electrical / Mechanical Construction Supervisors will be held responsible for the safety of working teams and subordinates, housekeeping and stacking and storage of materials. The Construction Supervisors must, as a minimum, have a supervision course.

If the Electrical / Mechanical Construction Supervisors changes throughout the project. The Contractor must ensure to provide the proposed Construction / Supervisors CV and certificates for approval and ensure that the appointment letter as well as proof of competency is available in the Health and Safety File.

4.7 HEALTH AND SAFETY OFFICER

Competent registered **Part-Time** Safety Officer to be appointed for the duration of the project.

The CHSO must provide the SACPCMP valid registration certificate, CV and relevant certificates/qualifications. The officer will be required to compile a monthly report, see **Annexure A**.

The officer may not hold any other position on the site staff.

The Electrical / Mechanical Construction Supervisors may not act as the CHSM or Officer.

4.8 HEALTH AND SAFETY REPRESENTATIVE

Irrespective of the number of employees the PC must appoint **Full-Time Health and Safety Representatives**, who at least has completed the necessary health and safety representative course.

The H&S representatives will liaise and report to health and safety officer.

4.9 OTHER APPOINTMENTS

Not limited too but other legal appointments must be done as per the OHS Act 85 of 1993 and related regulations.

5 GENERAL RISK MANAGEMENT

5.1 HEALTH RISKS AND MEDICAL SURVEILLANCE

All 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.

Many of the processes may be labour intensive and ergonomic risks are to be noted. All workers (including Contractors) are to be included in the medical surveillance programme.

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

Environmental monitoring results and risk assessments are to be made available to the occupational health professionals doing the medical surveillance. The use of occupational risk exposure profiling (OREPS) and job descriptions are to be used to determine specific exposures for management.

All workers (including Contractors) are required to be in possession of a medical certificate of fitness prior to commencing work.

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.

Annual medical surveillance is required (unless identified as being required more frequently e.g. Noise, Dust, Asbestos etc.), as well as exit medical.

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

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

5.2 HAZARDOUS BIOLOGICAL AGENTS

1. **Identify the HBAs:** Determine which HBAs are present in the workplace and classify them into the appropriate groups (Group 1, Group 2, Group 3, or Group 4) based on their potential to cause human disease.
2. **Evaluate the Risks:** Assess the potential risks associated with each HBA. This includes considering the likelihood of exposure, the severity of the potential health effects, and the number of people who could be affected.
3. **Implement Control Measures:** Based on the risk evaluation, implement appropriate control measures to minimize or eliminate the risks. This may include engineering controls, administrative controls, and personal protective equipment (PPE).
4. **Monitor and Review:** Continuously monitor the effectiveness of the control measures and review the risk assessment regularly to ensure it remains up-to-date and effective.

By following these steps, you can effectively manage the risks associated with HBAs and ensure the safety and health of individuals who might be exposed to these agents.

5.3 NOISE AND DUST CONTROL AND RISK

All plant from plant hire companies (Contractor's) or that of the PC is to be compliant with the Noise Induced Hearing Loss Regulations. 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. Failure to do so within a reasonable time period will result in such plant being removed from site.

Medical Surveillance for Noise Exposure (Noise Exposure Regulations, 2024 – Sec 9)

Workers exposed to noise levels exceeding 85 dB must undergo:

- Baseline audiometry testing before employment.
- Annual audiometry screenings to monitor hearing health.
- Exit audiometry within 30 days of leaving a noise-exposed position.

If a worker shows signs of Noise-Induced Hearing Loss (NIHL), the employer must:

- Reassign them to a lower-noise environment where possible.
- Provide additional protective measures, such as enhanced hearing protection.

Audiometric testing of all workers is noted as required in the medical surveillance programme for all permanent workers prior to work commencing. All workers in identified noise areas will require testing if the noise levels are indicated on plant or through processes as greater than 85dB. Audiometry records are to be available in the H&S file. Suitable SANS approved hearing protective equipment shall be issued and worn. Where several items of construction plant are in operation at or near to each other, the noise zone for the combined plant should be established and suitable hearing protective equipment used within this zone.

The PC must ensure that the health facilities will be fully operational and take extra care and planning is communicated to the Facility Management to ensure that noise and dust does not interfere with daily activities.

5.4 EMERGENCY PROCEDURES

An emergency plan and procedure that is appropriate to the risks is required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow.

The emergency plan is to ensure the inclusion of local service providers where possible. Such arrangements should be made with these persons prior to the commencement of the project.

Local emergency telephone numbers must be displayed and made part of the emergency procedure.

The general principals of emergency management are to be applied as it applies to the hierarchy of control and management. The PC must consult with the Client in preparation of the emergency as buildings will be operational.

FIRE PREVENTION AND EMERGENCY PREPAREDNESS

A Fire Risk Assessment must be conducted before construction begins and updated throughout the project as site conditions change.

The Contractor must ensure compliance with fire prevention, emergency preparedness, and fire-fighting measures as outlined in the General Safety Regulations, 2025 (GSR) and the Construction Regulations, 2014.

5.5 EXCAVATION

A contractor must:

- ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose; and
- evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.

A contractor who performs excavation work:

- must take reasonable and sufficient steps in order to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation;
- may not require or permit any person to work in an excavation which has not been adequately shored or braced: Provided that shoring and bracing may not be necessary where-
 - the sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or such an excavation is in stable material: Provided that:

- permission has been given in writing by the appointed competent person contemplated above upon evaluation by him or her of the site conditions; and
- where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations is decisive and such a decision must be noted in writing and signed by both the competent person and the professional engineer or technologist, as the case may be;
- must take steps to ensure that the shoring or bracing contemplated above is designed and constructed in a manner that renders it strong enough to support the sides of the excavation in question;
- must ensure that no load, material, plant, or equipment is placed or moved near the edge of any excavation where it may cause its collapse and consequently endangers the safety of any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing;
- must ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, steps are taken to ensure the stability of such building, structure or road and the safety of persons;
- must cause convenient and safe means of access to be provided to every excavation in which persons are required to work, and such access may not be further than six meters from the point where any worker within the excavation is working;
- must ascertain, as far as is reasonably practicable, the location and nature of electricity, water, gas, or other similar services which may in any way be affected by the work to be performed, and must before the commencement of excavation work that may affect any such service, take the steps that are necessary to render the circumstances safe for all persons involved;
 - must ensure that every excavation, including all bracing and shoring, is inspected-
 - daily, prior to the commencement of each shift;
 - after every blasting operation;
 - after an unexpected fall of ground;
 - after damage to supports; and
 - after rain,
- by the competent person, in order to ensure the safety of the excavation and of persons, and those results must be recorded in a register kept on site and made available on request to an inspector, the Client, the Client's Safety Agent, any other contractor or any employee;
- must cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be –
- adequately protected by a barrier or fence of at least one meter in height and as close to the excavation as is practicable; and
- provided with warning illuminants or any other clearly visible boundary indicators at night or when visibility is poor, or have resort to any other suitable and sufficient precautionary measure where this is not practicable;
- must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with by any person entering any excavation;
- must, where the excavation work involves the use of explosives, appoint a competent person in the use of explosives for excavation, and must ensure that a method statement is developed by that person in accordance with the applicable explosive's legislation; and
- must cause warning signs to be positioned next to an excavation within which or where persons are working or carrying out inspections or tests.

5.6 FIRST AIDERS AND FIRST AID EQUIPMENT

Irrespective of the number of employees on site the PC will appoint at least **1 First Aiders** who will be trained to **Level 3**.

First aiders shall be available and accessible on site always and be able to work as a team when responding to any emergency on the project.

Appropriately stocked first aid kits, at least to the requirements of the Annexure to the GAR, are to always be available to assure continual availability in every vehicle used to work on sites.

5.7 FIRES AND EMERGENCY MANAGEMENT

Attention to emergency planning and procedures is very important. Requirement in terms of identified risks:

- Fire;
- Public Safety;
- Falls from heights,

The emergency plan is to ensure the inclusion of local service providers where possible. Such arrangements should be made with these persons prior to the commencement of the project; the emergency plan is to include the risks of fire on site and related to any specific activities.

Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur. All mobile plants are to have appropriate, accessible fire extinguishers.

5.7 INCIDENT MANAGEMENT AND COMPENSATION CLAIMS

All incidents and accidents are to be investigated. All serious incidents involving any form of disabling injury or fatality are to be reported to the Client or Clients Agent immediately. This shall be confirmed in writing following the incident.

Any person who contracts an Occupational Disease will need to be reported to the Compensation Commissioner as an occupational disease where their work is to monitor and in contact with others. Such details are provided in the Compensation for Injuries and Diseases Act (COIDA).

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.

5.8 PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING

The PC is to provide PPE to all employees free of charge.

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

- Hard hats;
- Protective footwear;
- Overalls fitted with reflective strips that ensure worker visibility. Overalls should include company identification such as company name and logo.
- Eye protection (if required)
- Hearing protection;
- Reflective jackets for Electrical / Mechanical Construction Supervisors (no bibs);
- Respiratory protection (minimum of FFP2);
- Safety Gloves
- Any other necessary PPE identified from SDS's and/or risk assessments.
- Not limited to the above items

5.9 OCCUPATIONAL HEALTH AND SAFETY SIGNAGE

On-site H&S signage is required. Signage shall be posted up at fixed or temporary working areas, or other potential risk areas/operations. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended. Signage is to be noted on the site drawings indicating where fixed/temporary signage is required.

- 'hard hat area' or other PPE requirements noted;
- First aid box positions (including vehicles); and
- Fire extinguishers.
- Assembly Area

- No Un-authorized entry.
- Hoarding.
- Access for Staff
- Safe Walkway

5.10 INDUCTION OF EMPLOYEES AND VISITORS, GENERAL H&S TRAINING

A simple, formal induction program is to be prepared which is site specific. Inductions must be carried out for all workers and Engineers (including Client) to the site.

DSTi training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done. Any person found on site without proof of induction in the H&S File will be removed from site until the proof is supplied and, a penalty issued per non-compliance.

6 COMMUNICATION ON SITE

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

7. AUDITING

Frequency of external auditing by the Client or Clients Agent will be conducted every 30 Days to ensure that the contractors conform to the requirements of the Construction Regulations. The site will be inspected, and the documentation audited relative to the activities and H&S plan. The CHS Officer of the PC must accompany the Client or Clients Agent, on all audits and inspections.

The PC will ensure that all their Contractors are audited at a frequency determined by the Client or Clients Agent. Audit frequency may be increased if Contractors are not performing adequately. Audit results will be acted upon, and non-conformances and penalties issued where deemed appropriate. The Client or Clients Agent may act or require further outcomes if non-compliances are noted, or unsafe acts are noted on site.

Internal audits are to include site conditions as well as ensuring H&S files are appropriate, and compliant. Comprehensive audit reports are to be made available, the format of the audit reports are to be acceptable by the Client or Clients Agent.

The audit will be adjusted from time to time relative to the activities on site. A similar process is to be used by the PC when auditing their Contractors on site. Compliance with legislative requirements and the systems provided by the PC to manage the H&S on site will be measured. Full compliance is required. Time limits for corrective actions will be set and must be adhered to.

8.SITE ACCESS POINTS AND SECURITY CONTROL

Site access - Entry to site may only be through pre-arranged security-controlled access points.

The contractor must detail how members of the public will be prevented from accessing site (risk of cross contamination between people working on site and members of public) during the construction phase.

Provision of Visitors Book for signing in and out of site. Records of all personnel entering the site and their contact details must be kept.

9. CARE OF WORKERS ON SITE (WELFARE)

Adequate toilets, clean, safe drinking water and decent shelter must be afforded to workers at all times.

It is the responsibility of the contractor to inform and agree with the Health Facilities Management for the use of Ablution Facilities and Water.

10 DISCIPLINE, ALCOHOL AND SUBSTANCE ABUSE

All employees (management included) are to follow instructions given in the interest of H&S. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

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.

11 WORKING AT HEIGHTS

A practical site-specific fall protection plan and rescue plan as per CR 10 needs to be compiled by a competent person as per unit standard 229994.

Only competent persons may be allowed to work at heights.

All employees working at heights shall be in possession of working at heights certificate US 229998.

No Homemade structures or ladders will be permitted on the project.

Surroundings to be clear of rubble.

Fall protection, fall prevention, and fall rescue plans to be in place and communicated to site employees.

Ladders to be structurally sound and not broken and in accordance with GSR 13A.

Correct personal protective equipment to be used (safety harness and lanyard) to be used.

GSR (6) 6. No employer shall require or permit any person to work in an elevated position and no person shall work in an elevated position, unless such work is performed safely from a ladder or scaffolding, or from a position where such person has been made as safe as if they were working from scaffolding.

Construction regulation 10 of 2014 to be implemented when working at heights and to prevent any person from falling from heights.

CRANES

A contractor must, in addition to compliance with the Driven Machinery Regulations, ensure that where tower cranes are used.

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.

Failure to comply with the above will lead to a fine as stipulated below.

13 ELECTRICAL

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.

Leads must be properly and firmly connected.

Plugs and sockets shall be in good and safe condition.

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.

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

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

Ensure that main power supply and gas line in service duct to be identified and method statement to be submitted to Electrical & Mechanical Engineer for approval.

A Certificate of Compliance (COC) is to be submitted after work is completed.

14 INSPECTION AND HAND TOOLS

No handmade or damaged tools may be used on site.

The Contractor needs to exercise control over all contractors on site. Hand tools may only be used for its intended purpose.

A competent person must be appointed to inspect hand tools weekly.

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

Inspection of equipment and tools.

The following items of equipment must be regularly inspected and maintained, and appropriate records kept on file.

- 1.1. First Aid dressing registers
- 1.2. Fire equipment
- 1.3. Portable electrical equipment
- 1.4. Stacking and storage inspections
- 1.5. Hazardous Chemical Substances (HCS)
- 1.6. Ladders
- 1.8. Construction vehicles and mobile plant.
- 1.9. Health and Safety Representatives checklists.

Not limited to just the above items.

Add Tool for 72 h units

15 LADDERS AND LADDER WORK

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

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

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

Electrical contractors to use Fiberglass ladder for non-conducting purposes.

16 SUBCONTRACTORS

The PC is to ensure that every sub-contractor will comply with the health and safety specifications.

All subcontractors' health and safety files must be approved by the Contractor prior to any work commencing.

Contractor and SMME s to be Audited by Contractor on monthly basis.

17 DELIVERY OF MATERIALS

The PC must reasonably manage all deliveries of material to site. Stacking and storage of materials to be properly coordinated.

The PC is to consider the neighbors and public in all its activities related to this construction work.

Health Facility supply, namely Gas, are not to be affected by construction activities.

18 HOARDING

Adequate hoarding to be done to reduce dust and noise and prevent public entrance to site.

Security features must accompany the hoarding to maintain a secure environment for the existing occupants.

No Unauthorized person signage should be installed at entrances.

Maintenance of Hoarding to be done at regular intervals.

19 NON-CONFORMANCES

Should, at any time, the work, or part of the works, be stopped due to unsafe acts or non-compliance with the Clients OHS Spec or PCs H&S Plan; the PC shall have no claim for extension of time or any other compensation.

The following constitute examples of the types of non-conformances that will attract penalties, some of the items may not be applicable on this project:



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	No certificates of fitness for workers as required	Contractors working without Health and Safety Plan approval
Non completion of registers for plant and equipment on site	No monthly OHS report at site meeting to report on	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 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.	Fall protection harness not tied off / not worn
		Any breach of legal requirements

20 HEALTH AND SAFETY FILE

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

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

- The Site-Specific Health and Safety Specification. (from Client)
- The H&S Plan and the approval by Client;
- Appointment by Client;
- Mandatory agreement with Client;
- Construction work Annexure and confirmation letter from DOL.
- H&S specifications issued;
- Record of Competencies (CVs) and appointments;
- Training Records;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and injury management;
- Safety data sheets
- Medical surveillance records;
- Registers; and
- Employee records (who is on site)

21 HEALTH AND SAFETY RULES

- No Smoking on Premises (Designated Smoking area outside of Health Facility).
- No Alcohol allowed on Site.
- No Communication to Patients.
- Working Hours strictly 7:30-16h00 (no weekend work allowed)
- No Loitering around Health Facility.
- Walkways to be kept clear at all times.

- Always check the work area around you before you move to the next location.
- The contractor must ensure to report all unsafe acts or conditions.
- All Employees to wear Yellow Overalls-with Company Logo.
- The Contractors are specifically forbidden to use the Health Facility patient or public facilities in the 72-hour facility for use by their staff. Separate temporary facilities are to be provided by the Contractor in a position indicated by the Principal Agent and approved by the facility management.
- The public areas are not to be used by Contractors for the purpose of spending their breaks, eating lunch, etc. A separate designated area, indicated by the Principal Agent and approved by the 72-hour facility management, in the Contractor's yard must be provided by the Contractor.
- All scaffolding in public areas must be properly cleaned prior to erection and is to be kept in a good clean state during the Works.
- The contractor is to ensure that all scaffolding to be erected on tiled and specialist floors does not damage the floor finish under the scaffolding.
- All mobile scaffolding must be cleaned and be supplied with the necessary locking mechanisms to wheels.
- Where any temporary scaffolding or work is carried out in public areas, these are to be properly screened off and made safe for the public.
- All Works that produce excessive noise or dust or which could threaten the safety of the public, must be carried out at hours agreed with the Principal Agent.
- Where building materials longer than two meters are carried in or around the construction area, it is to have two persons carrying the materials. (One at either end to avoid damage by the possible "swing action".)
- All Contractors' rubble must be removed wherever possible outside of normal operating hours and likewise the importation of materials for the works.
- A level of decorum shall be expected from all workers on site that will preclude loud shouting, whistling, loud playing of radios, etc.
- If you are unsure of anything ensure to consult your foreman.
- Remember safety comes first.

Failure to comply with the above will result in Penalty as stipulated above in section 14.



ANNEXURE A

CONTRACTORS MONTHLY HEALTH AND SAFETY REPORT

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

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

Health and Safety Officer: _____ Signature: _____ Date: _____

Construction Manager: _____ Signature: _____ Date: _____

ANNEXURE B – REQUIREMENTS FOR THE SAFETY PLAN ASSESSMENT

The Contractor must note that the information below is pertinent to the compilation of their safety plan response to this site-specific safety specification and it would be preferred if the Safety Plan is written in the order of the assessment documented below.

No	Item	Notes
1	Project Directory	Please state details of Project Client, Project Manager / Principal Agent, Safety Agent, Consulting Engineer, etc. (Name, address, contact details).
2	Contractors Directory	Please indicate if you will be using Contractors on this project, if yes, include their details, trade, and FEM details.
3	Other Parties Directory	Please indicate contact details for any supply applicable (electricity, water, etc.) as well as Department of Labour and Emergency Supply.
4	Project Safety Statement	The Project Safety Statement must be included in the Safety Plan.
5	Health and Safety standards for the project (OHS Act, construction regulations, basic conditions of employment, etc.)	Health and Safety standards must be included in the Safety Plan.
6	Project Particulars	Scope of works must be included in the Safety Plan. This is critical.
7	Existing environment – Structures and Surroundings, Supply (Electrical, Water, Sewerage, etc.), Traffic Arrangements, Parking, Access to Site, Storage of Plant and Materials	Please include these items in the plan. The items must be Site Specific, the location of supply and supply that will be affected must be mentioned.
8	Management Structure for safety on the Project	A structured organogram with names of the responsible people must be included.
9	Appointed Persons, Supervision	The required appointments must be identified. A list of the appointed persons must be included in the Safety Plan.
10	Security Procedures	Please indicate if a security company will be appointed and include the contact information in the Safety Plan.
11	Registers list and inspection frequency	A list of the Inspection Registers that will be on file must be included in the Safety Plan.
12	Design Co-ordination	Please indicate your procedure for implementation of design changes by designer on the project, and the procedures for liaison and implementation of temporary works design on the project.
13	Contractor Co-ordination	Mention must be made of how Contractors will be coordinated on site to ensure that they work together and not adversely affected health and safety.



No	Item	Notes
14	Housekeeping, stacking and storage	Housekeeping policies and procedures must be included in the Safety Plan.
15	Waste Disposal Arrangements	Waste disposal arrangements procedures must be included in the Safety Plan.
16	Noise and dust control	Please indicate if any noisy operations (more than 85 decibels) will be carried out and what measures will be used to reduce noise exposure to workforce.
17	Training Requirements	Training requirements must be identified and recorded.
18	Plant and Equipment	A list of plant and equipment to be used on site must be included in the Safety Plan.
19	Safety Monitoring Arrangements	The name, contact details and SACPCMP registration status of the Safety Officer must be included in the Safety Plan. State how often the Safety officer will be on site (note safety specification requirement in section 1.7).
20	Information for Contractors	State how information will be given to Contractors on site.
21	Consultation/communication arrangements with Employees	State how information will be given to employees e.g., notice board.
22	Selection of Contractors Procedures	Contractor must state what health and safety procedures they will use to assess the competence and resources of their contractors on site.
23	Activities with risk to Health and Safety (Risk Assessment)	A Baseline Risk Assessment must be included in the Safety Plan; it must address the Risks identified in the Safety Specification as well as the risk of any other hazards that the Contractor is aware of that are relevant to the site.
24	Hazardous Substances	Must be listed in the Safety Plan and addressed in the Risk Assessment.
25	First Aid and Medical Procedures	Please indicate name of first aider, position of first aid box, location of nearest medical facility and emergency numbers.
26	Fire and Emergency Procedures	List of emergency telephone numbers must be drawn up and included in the Safety Plan. The position of Fire Extinguishers, Assembly Point location, fire drill frequencies, numbers of fire marshals, etc.
27	Accident and Incident Reporting and investigation	State the Accident and Incident Reporting and investigation procedures of your company.
28	Welfare and Site Facilities	Elaborate on toilets and eating areas, water provision, how will workers be protected during wet weather conditions etc.
29	Site Rules	The Site Rules must be included in the Safety Plan.
30	Personal Protective Equipment	The necessity must be identified by Risk Assessments.
31	Health & Safety File arrangements	Please indicate arrangements for the return of the Health and Safety File to the safety agent at the end of the project.



No	Item	Notes
32	Method Statements/Safe System of Works	A list of Method Statements/Safe System of Works must be included in Safety Plan for all High-risk activities.
33	Permits and wayleaves	List of activities that Contractor anticipates will require permits and wayleaves (including those stated in the safety specification) to be included.
34	Fall Prevention and Protection Plan and Fall Rescue Plan	A copy of the Fall Prevention and Protection Plan, fall rescue plan and fall risk assessment must be included in the Safety Plan.
35	Demolition method statement	A copy of the Demolition Method Statement must be included in the Safety Plan.
36	Confined spaces	Contractor s' procedures for managing access, egress and work in confined spaces must be specified in the Safety Plan. Includes permit procedures, air monitoring, PPE, etc.
37	Safety Representatives and Safety Committees	When a project has more than 20 employees a designated employee must be chosen by the laborers to represent them. A safety committee must be established if 2 or more safety representatives are appointed. Please note Safety Specification requirements regarding this section (section 2.12).
38	Have the significant hazards from the safety specification been addressed?	See section 1.9 of the Specifications and ensure practical measures have been detailed in the safety plan.
39	Safety File - Safety Policies in File and Signed by 16(1) CEO.	Safety Policies must be signed and explained to employees.
40	Safety File - A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.	A copy of the valid Letter of Good standing from FEM / Workman's Compensation must be on file.
41	Safety File - Signed copy of the 37.2 Mandatary Agreement	A 37.2 Mandatary Agreement needs to be signed between the Client and Contractor.
42	Safety File - Appointment letter from Client (as well as 5.1.K)	The Client must appoint the Contractor in writing.
43	Safety File – Notification / Permit	A copy of the Annexure 2 Notification (and proof of submission) to Department of Labour must be available. This can be in the form of a department stamp, email, or copy of Construction Work Permit.

ANNEXURE C – LEGAL APPOINTMENTS

The contractor shall make the following appointments, as required:

Chief Executive Officer (OSH Act 16(1))
Contract Director/Manager (OSH Act 16(2))
Construction Manager (CR 8(1))
Maintenance Supervisor (CR 8(7))
Assistant Maintenance Supervisor (CR 8(8))
Construction Safety Officer (CR 8(5))
Safety Representative (where > 20 employees on site)
Construction risk assessor (CR 9(1))
Material Hoist Inspector (CR19(8)(a))
Material Hoist Operator (CR19(6))
Construction Vehicle and Mobile Plant Operator (CR23(1)(d)(i))
Controller of Temporary Electrical Installations (CR24(c))
Stacking Supervisor (CR28(a))
Fire Extinguishing Equipment Inspector (CR29(h))
Fall Protection Plan Developer (CR 10(1)(a))
Incident Investigator (OSH Act 9(2))



**ANNEXURE D – SAFETY SPECIFICATION AND BASELINE RISK ASSESSMENT
ISSUE REGISTER**

Date of Original Safety Specification Compilation	Compiled By	Issue Date
17 March 2026	J Bhana	17 March 2026

Changes to Spec		
Updates from Noluthando	J Bhana	22 May 2026

Acknowledgement:

I, _____ representing.

_____ (Contractor), have satisfied myself with the content of this Health and Safety Specification and shall ensure that our employees and contractors on site comply with the requirements of this document, our safety documentation and health and safety legislation.

Signature of Contractor

Date

Comments:

BASELINE RISK ASSESSMENT BID NO: SCMU3-26/27-0202-HO : FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE – HEALTH FACILITIES

Risk Rating multiplier: Low = 1; Medium = 2; High = 3

low	med	high
1	4	12
2	6	18
3	8	27

The base line risk assessment is to highlight hazards emanating from project risks identified.

					Baseline risk			
Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
SCOPE AREA OF INSTALLATION OF GENERATORS								
	Contractor	Driving on public roads/ Driver not competent or medically and psychologically fit/ under the influence of drugs and/or alcohol/ Pre-start check not completed	Financial loss/ Damage to equipment/ Injuries to employees/ Damage to property/ Possible fatalities	All drivers must be authorised in writing, be in possession of valid Competence and Medical Certificate. All employees shall undergo a mandatory alcohol level test. Driver must perform pre-ignition check and ensure checklist completed before leaving workshop/office. Under no circumstances shall anyone tamper with the safety devices / mechanisms on the machinery. No loading of passenger in Load cab of bakkies. Driver to ensure that bakkie are kept in good state. Maintained as per maintenance schedule. All Occupants in bakkie to ensure seatbelt is engaged at all times.	2	2	2	8
		Storage of Materials and Tools	Injury / Property damage / Theft / Security Issues	Proper separated demarcated storage to be allocated to the contractor. Materials to be stored in demarcated storage bins. At least one fire extinguisher must be made available.	3	3	3	27
		Mechanical failure/ not maintained as per maintenance schedule/ Wear and Tear	Financial loss/ Damage to equipment/ Injuries to employees/ Damage to property/ Possible fatalities	Daily pre-ignition checklist to be completed and any faults found reported to immediate supervisor and/or safety officer. Workshop Manager to ensure that machines are kept in good state. Maintained as per maintenance schedule. Under no circumstances shall anyone tamper, remove or modify any safety devices / mechanisms on the machinery. Maintenance must be performed by Competent Trained Petrol / Diesel Mechanics.	2	1	2	4

BASELINE RISK ASSESSMENT BID NO: SCMU3-26/27-0202-HO : FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE – HEALTH FACILITIES

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Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
	Pre-inspect generator and PPE before start of work for compliance to own and client specifications. Carry the Equipment, Generator drip tray and fire extinguisher to the required workplace.	Exposed Moving Parts	Contact, been struck with moving parts resulting in injury to employees and bystanders.	Staff to pre-inspect Generator before use and recorded on the inspection register, all deviations to reported and fixed before use. Safety guards are inplace and in good working condition.	1	3	2	6
		Heavy Equipment and Material	Employee suffering from muscle strain when picking up the tools or equipment alone or in the wrong manner.	At least 2 employees carry the equipment Employees trained in ergonomics (lifting techniques). Good communication. Equipment has handles (cage) to make handling easy. Employees to use their upper legs to pick up the equipment and not their lower back.	3	2	2	12
		Sharp Object	Injuries to the body when making contact with exposed sharp parts on the generator.	Safety guards are inplace and in good working condition. Correct PPE to be used. To make sure that all parts is in place and not loose before picking up.	3	2	2	12
		Spillage (Oil, Fuel, Diesel, Paint)	Soil and water pollution occurs when fuel is spilled when tank is not closed correct or leaks fuel.	Generator in good working order and no leaks present. Generator placed in spill bath to catch any possible spills. Correct fuel cap used and properly closed.	1	2	2	4
		Hot Surface	Employee suffering from burns when making contact with the hot surface of the generator.	Generator only handled when it has cooled enough. Hot surfaces isolated with cage. Correct PPE to be used to make sure that skin wont come into contact with hot surface.	2	2	2	8

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The base line risk assessment is to highlight hazards emanating from project risks identified.

Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
GMR		Plant and Equipment	Injury / Property damage / Theft / Security Issues	Implement traffic protection measures Trained and competent operators must be used Check plant and vehicles on daily basis before use and record inspections. Maintain vehicles in safe condition. Medical certificates of fitness required for construction plant. Crossing of road by construction vehicles or machines must be limited to the practical minimum Plant and vehicles must be fitted with amber rotating beacons and reverse alarms. Wear appropriate protective clothing/equipment, e.g., goggles, gloves, ear defenders, etc. as appropriate.	3	3	3	27
CR22		Mobile Crane Erection and Dismantling and Use	Collapse of structure Overturning of structure Falling materials	Ensure emergency procedures are in place and all operatives are aware of the details Only use trained and competent operators for the erection and dismantling and use of cranes Ensure crane driver is trained and holds certification as proof. Must have valid medical certificate of fitness. Ensure there is safe means of access available at all times Ensure the mobile crane driver has 360° vision if not ensure a fully trained banksman is used Banksman to wear reflector vest to identify himself to the crane driver Ensure all personnel wear suitable and sufficient personal protective equipment Consider creating exclusion areas	2	2	2	8

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low	med	high
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The base line risk assessment is to highlight hazards emanating from project risks identified.

Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
General		Snakes/Bees/Wasp	Snake bite/ Bee Stings	Qualified first aider required for site who can treat snakebite/ Bee & Wasp Snake bite kit to be on hand Check area before working Find out nearest hospital and get emergency telephone numbers.	1	1	1	1
CR14e		Overhead Services (Working near)	Contact with live services causing injury to personnel Damage caused to services	Maintain safe clearance levels Establish presence of any services via proper walk-through survey of site and/or means of service drawings Wear personal protective clothing Ensure height of plant/vehicles does not compromise or exceed clearance levels for overhead services Obtain information on clearance levels from service provider	1	1	1	1
CR13g		Underground Services	Striking of buried services	Make all necessary enquiries to establish what services are in the area. Consult drawings and advice from service provider (e.g., Municipality or ESKOM) when planning work. Assume all service to be live (Unless confirmation is received to confirm that services are isolated or otherwise made safe). Do not work near live services without authorisation from site management. Comply with the requirements of the safe system of work for underground services. Where available, locate services with a locator Hand dig around services	3	3	3	27

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The base line risk assessment is to highlight hazards emanating from project risks identified.

Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
CR19.3a		Lifting Operations	Falling material Crushing by materials Hand injuries to the slinger Toppling crane	Check test certificate Check examination certificate Check inspection have been carried out Check certificates for lifting equipment (chains, slings, shackles, etc.) Ensure lifting gear is rated to carry load (SWL) Ensure materials being lifted are properly packaged and slung. Be aware that there should be a minimum clearance of 600mm between any slewing parts of a crane and any fixed installation to prevent being trapped. Access to the work area during lifting operations is to be restricted to those involved with and trained in the work in hand. Do not allow members of the public to gain access to the area. Only trained banksmen to be used. The crane driver and the banksman are to ensure that the signals given are clearly understood.	2	2	2	8
		Painting	Contact with paint	Refer to safety data sheet for usage instructions, hazards and precautions required. When working at height, refer to risk assessment addressing this hazard below.	1	1	2	2

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3	8	27

The base line risk assessment is to highlight hazards emanating from project risks identified.

Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
		Plumbing	Falling material Falling from height Fire Burns Exposure to lead fumes	Ensure standard safety procedures are followed at all times Only used trained and competent personnel Ensure there is a safe working area at all times Ensure materials are stored neatly Ensure there is safe access and egress at all times Ensure all personnel wear suitable and sufficient personal protective equipment Consider a hot works permit system prior to commencing any hot works Make sure emergency procedures are in place and ensure all personnel are aware of where to go in case of a fire	1	1	2	2

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Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
		Scaffold Erection/ Dismantling	Personnel falling from a height Items of scaffold falling onto personnel Scaffold collapsing onto those below	Ensure scaffold is designed to take the imposed loads scaffolding is constructed properly scaffold is not overloaded scaffolders are fully trained scaffolding is regularly checked by competent person and record of inspection retained. Written inspections to be recorded on weekly basis scaffolders must adhere to the safe systems of work. all fall arrest equipment to be checked and certified in good working order that ALL understand the safe system of work	2	2	2	8
		Steel Erection	Falls from height Falling components Contact injuries from falling lifting equipment	Adhere to all general precautions for working at height (See risk assessment below) Barrier off / exclude area below work All lifting appliances to be examined and inspected Inspection register in place and up to date All personnel to be trained and competent and wear clipped on safety harnessed when working at height Ensure that lifting equipment (slings, chains, shackles) test certificates are current and on site. Competent persons only to connect loads and direct plant	2	1	1	2
		Steel Fixing	Back injuries caused by manual handling Eye injuries from tie wire Trips / falls Falling form height	PPE must include safety boots and goggles Manual handling training may be required Care to be taken when working near overhead lines Use only trained personnel Provide safe means of access Maintain and regularly inspect all lifting appliances and equipment Cap starter bars to prevent injuries where feasible Construct scaffold walk ways to cross reinforcing mesh, as required	2	1	1	2

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The base line risk assessment is to highlight hazards emanating from project risks identified.

Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
CR10		Working and Heights	Fall from heights / tools and equipment falling / struck by	All access equipment is properly constructed (inspections record must be maintained) Only trained personnel construct, dismantle or control the access equipment All access equipment must have full toe boards and guardrails - comply with SANS 10085 on erection, use and dismantling of scaffolding No access equipment may be loaded above the level of the guardrail No access equipment to be loaded above its safe working load Where work involves leaning out on an open leading edge, then all personnel are to be fitted with full body harness. The harness must be connected at all times All fall arrest equipment to be correctly maintained Ensure if ladders are being used for access, they are either footed or tied. Also, the ladder must be set at the correct level of 1 in 4 or approximately 75°	3	1	1	3
		Exposed Live Electrical Wire	Electrical shock when in contact with exposed live wires or generator is not earthed correctly.	Generator to be inspected by a qualified electrician. Not used during wet weather. Earth spike in place. Machine used is inspected before use and need to be clean, leak free and serviceable.	3	2	2	12
		Spillage (Oil, Fuel, Diesel, Paint)	Fire / explosion when a heat source from the generator being started makes contact with spilled fuel.	Fire extinguisher (9kg DCP) available. Trained fire fighters. Employees trained in emergency procedures with proof. Fire spotter/watcher present. No combustible material or vegetation placed close to the generator. Spill Kit available to clean spillage	3	1	3	9

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1	4	12
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The base line risk assessment is to highlight hazards emanating from project risks identified.

					Baseline risk			
Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
		Exposed Moving Parts	Injury to the body when in contact with exposed moving machinery.	Safety guards are in place and in good working condition. Hand placed to be in the correct place.	3	1	3	9
General Hospital Safety					Baseline risk			
CR 10		Access	Injury to person's / employees / personnel/ consultants/patients	Separate general public from early works / construction site. Extra care to be taken to ensure the public and personnel do not gain access to the construction activities as well as early works	2	2	2	8
		Exposure noise	Interruptions to existing activities	Control should be taken to ensure to bear in mind exposure to general patient wards. Extra special care and planning and communication between the contractor and Hospital staff where working in close vicinity to consulting rooms. A solid hoarding structure to be above 2.5 meters.	2	2	2	8
		Exposure to dust	Interruptions to existing Hospital activities	Control should be taken to ensure to bear in mind exposure to general patient wards. Extra special care and planning and communication between the contractor and Hospital staff where working in close vicinity to consulting rooms. A solid hoarding structure to be above 2.5 meters.	2	2	2	8
		Waste Management	Daily waste from contractor / professionals / specialists cross contaminated with Hospital waste.	Normal waste from all the appointed contractor / professionals / specialists should have separate controlled waste areas. To ensure no cross contamination with the existing Hospital waste management systems	2	2	2	8
GS' 13A		Contact with Biohazardous Waste	contractor / professionals / specialists coming into contact with medical biohazardous waste from the hospital	Controlled medical biohazardous dump area should be completely separated from contractor / professionals / specialists	2	2	2	8

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1	4	12
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Reference	Area	Hazard	Risks identified as present	Describe the obvious control measures to be part of design	Baseline risk			
					Likely consequences of an incident	Frequency of Exposure	Probability of harm	Risk rating and risk category
	General	Barricading / Demarcating / Hoarding	Interaction with existing Hospital activities / personnel and general public	Control should be taken to ensure that construction activities is at all times being separated from day to day Hospital activities / staff / patients / general public as well as Hospital storage facilities. To bear in mind exposure to general patient to sick patients. A solid hoarding structure to be above ceiling height to be considered.	3	3	3	27
GS' 13A		Security	Theft	Contractors and professionals doing construction activities should have own security on site. Contractors to ensure that materials and items of value are stored correctly as this can cause a security risk for the existing Hospital.	1	1	2	2
GS' 13A		Epidemic and Pandemic Control	Contact with Airbourne and infectious diseases.	Control should be taken to ensure that construction activities is at all times being separated from day to day Hospital activities / staff / patients / general public.	1	1	3	3
GS' 13A		Medicine Access Control	Theft and substance abuse	Control should be taken to ensure that construction activities is at all times being separated from day to day Hospital activities and deliveries and medical storage facilities.	2	3	3	18
GS' 13A		Infection Prevention	Jeopardizing the sterility of the patients environment.	Control should be taken to ensure that construction activities is at all times being separated from day to day Hospital activities / staff / patients.	2	3	3	18
GS' 13A		Fraternization	Harassment of persons on Hospital property.	Extra Control should be taken to ensure that consultants / professionals / specialists / contractors are separated from staff / patients / general public	1	2	3	6

PART C4: SITE INFORMATION

C4.1: SITE INFORMATION

PROJET NAME	FRAMEWORK CONTRACT FOR THE SUPPLY, DELIVERY AND INSTALLATION OF GENERATORS AT HEALTH FACILITIES IN THE EASTERN CAPE
TENDER No.	SCMU3-26/27-0202-HO

C4 Site Information

1. GENERAL

- a) 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.
- b) The Supplier must acquaint themselves fully with all matters pertaining to this section in order to enable prospective Suppliers to price for all eventualities.
- c) All Health Facilities are functional, caution must be taken in terms of contractor movement and noise.
- d) The employer will advise will confirm where the stripped materials need to be disposed.

LIST OF FACILITIES

NELSON MANDELA METRO DISTRICT

Item no.	FACILITY
1	DORA NGINZA HOSPITAL
2	ELIZABETH DONKIN PSYCHIATRIC HOSPITAL
3	EMPILWENI TB HOSPITAL
4	GELVENDALE FORENSICS
5	GQEBERA CHC
6	JOSE PEARSON TB HOSPITAL
7	LAETITIA BAM DAY HOSPITAL
8	LIVINGSTONE HOSPITAL
9	MOTHERWELL CHC
10	MOUNT ROAD FORENSICS
11	NEW BRIGHTON FORENSICS
12	ORSMOND TB HOSPITAL
13	MEDICAL DEPOT PE
14	PE PROVINCIAL HOSPITAL

15	UITENHAGE FORENSICS
16	UITENHAGE PROVINCIAL HOSPITAL
17	WEST END CHC
CLINICS — Nelson Mandela A Health sub-District	
18	Ikamvelihle Clinic
19	Kwamgaxaki Clinic
20	Kwazakhele Clinic
21	Lunga Kobese Clinic
22	Max Madlingozi Clinic
23	Motherwell NU 11 Clinic
24	Motherwell NU 2 Clinic
25	Motherwell NU 8 Clinic
26	New Brighton Clinic
27	Soweto Clinic
28	Thanduxolo Clinic
29	Tshangana Clinic
30	Veeplaas Clinic
31	Wells Estate Clinic
32	Zwide Clinic
33	Du Preez Street Clinic
34	Edamini Clinic
35	Gustav Lamour Clinic
36	Isolomzi Clinic
37	Joe Slovo Clinic
38	Kruisrivier Clinic
39	Lukhanyo Clinic
40	Mabandla Clinic
41	Masakhane Clinic (N Mandela Metro)
42	Middle Street Clinic
43	Nomangesi Jayiya Clinic
44	Park Centre Clinic
45	Silvertown Clinic
46	Algoa Park Clinic
47	Booyens Park Clinic
48	Central Clinic (Port Elizabeth)
49	Chatty Clinic
50	Gelvandale Clinic
51	Govan Mbeki Clinic
52	Helenvale Clinic
53	Kwadwesi Clinic
54	Linton Grange Clinic
55	Missionvale Clinic
56	Schauderville Clinic
57	Walmer 14th Avenue Clinic

SARAH BAARTMAN DISTRICT

Item no.	FACILITY
1	ABERDEEN HOSPITAL

2	ANDRIES VOSLOO HOSPITAL
3	BJ VOSTER HOSPITAL
4	FORT ENGLAND HOSPITAL
5	GRAAF REINET CHC
6	GRAAF REINET FORENSICS
8	GRAHAMSTOWN EMS
9	GRAHAMSTOWN FORENSICS
10	JANSENVILLE SAWAS MEMORIAL HOSPITAL
11	JOUBERTINA CHC
12	JOUBERTINA FORENSIC MORTUARY
13	MARJORIE PARISH TB HOSPITAL
14	MARGERY PARKES TB HOSPITAL
15	MIDDLEBURG FORENSICS PATHOLOGY
16	MIDLANDS HOSPITAL
17	PORT ALFRED FORENSICS
18	PZ MEYER TB HOSPITAL
19	SETTLERS DAY HOSPITAL
20	SETTLERS HOSPITAL NET CARE
21	SUNDAYS VALLEY HOSPITAL
22	TEMBA TB HOSPITAL
23	WILLOMORE HOSPITAL
24	HUMANSDORP EMS

Item no.	FACILITY
CLINICS — Camdeboo Health sub-District	
25	Aeroville Clinic
26	Baviaans Clinic
27	Beatrice Ngwentle Clinic
28	Bhongweni Clinic
29	Brug Straat Clinic (Jansenville)
30	Gracey Clinic
31	Horseshoe Clinic
32	Kroonvale Clinic
33	Kwazamukucinga Clinic
34	Masakhane Clinic (Aberdeen)
35	Nieu-Bethesda Clinic
36	Rietbron Clinic
37	Umasizakhe Clinic
38	Union Street Clinic
39	Vera Barford Clinic
40	Willowmore Clinic
41	Wongaletu Clinic
Kouga Health sub-District	
42	Addo Clinic
43	Andrieskraal Clinic

44	Bergsig Clinic
45	Clarkson Clinic
46	Humansdorp Clinic
47	Imizamo Yetho Clinic
48	Kareedouw Clinic
49	Kirkwood Clinic
50	Krakeel Clinic
51	Kruisfontein Clinic
52	Kwazenzele Clinic
53	Loerie Clinic
54	Louterwater Clinic
55	Lukhanyiso Clinic
56	Masakhane Clinic (Hankey)
57	Misgund Clinic
58	Moses Mabida Clinic
59	Pellsrus Clinic
60	Sanddrif Clinic
61	St Francis Bay Clinic
62	Thornhill Clinic
63	Twee Riviere Clinic
64	Weston Clinic
65	Woodlands Clinic
Makana Health sub-District	
66	Alexandria Clinic
67	Anglo African Street Clinic
68	Joza Clinic
69	Kenton-On-Sea Clinic
70	Kwa-Nonqubela Clinic
71	Kwa-Nonzwakazi Clinic
72	Marselle Clinic
73	Middle Terrace Clinic
74	NG Dlukulu Clinic
75	Nkwenkwezi Clinic
76	Nolukhanyo Clinic
77	Pal 1 Clinic
78	Pal 2 Clinic
79	Port Alfred Clinic
80	Raglan Road Clinic
81	Riebek East Clinic
82	Station Hill Clinic
83	Tantyi Clinic

JOE QQABI

Item no.	FACILITY
1	STEYNSBURG HOSPITAL
2	JAMESTOWN HOSPITAL
3	ALI WAL NORTH HOSPITAL
4	ST FRANCIS HOSPITAL
5	CLOETE JOUBERT HOSPITAL

6	TAYLOR BEQUEST HOSPITAL
7	UMLAMLI HOSPITAL
8	BURGERSDORP HOSPITAL
9	MACLEAR HOSPITAL
10	EMPILISWENI HOSPITAL
11	LADY GREY HOSPITAL
12	ALIWAL NORTH PATHOLOGY
13	UITENHAGE PROVINCIAL HOSP

Item no.	FACILITY
CLINICS — Elundini Health sub-District	
18	Bethania Clinic
19	Empilisweni Clinic
20	Gqaghala Clinic
21	Hlangalane Clinic
22	Hlankomo Clinic
23	Katkop Clinic
24	Kungisizwe Clinic
25	Lower Tsitsana Clinic
26	Maclear Clinic
27	Mangoloaneng Clinic
28	Mqokolweni Clinic
29	Ncembu Clinic
30	Ngxaza Clinic
31	Queen Noti Clinic
32	Seqhobong Clinic
33	Sonwabile Clinic
34	St Augustine's Clinic
35	Taylor Bequest Gateway Clinic (Elundini)
36	Ugie Clinic
37	Ulundi Clinic
38	Umnga Flats Clinic
Maletswai Health sub-District	
39	Aliwal North Block H Clinic
40	Burgersdorp Clinic
41	Eureka Clinic
42	Hilton Clinic
43	Jamestown Clinic
44	Khayamnandi Clinic
45	Maletswai Clinic
46	Mzamomhle Clinic (Albert)
47	Poly Clinic
48	Venterstad Clinic
49	Thembisa Clinic
Senqu Health sub-District	
50	Bensonvale Clinic
51	Bluegums Clinic
52	Esilindini Clinic
53	Herschel Clinic

54	Hillside Clinic (Senqu)
55	Hlomendlini Clinic
56	Macacuma Clinic
57	Masibulele Clinic
58	Musong Clinic
59	Ndofela Clinic
60	Palmietfontein Clinic
61	Pelandaba Clinic
62	Robert Mjobo Clinic
63	Sonwabo Zandile Clinic
64	St Michael's Clinic
65	Sterkspruit Town Clinic
66	Sunduza Clinic
67	Umlamli Gateway Clinic
68	Wittebergen Clinic
69	Zenethemba Clinic

CHRIS HANI DISTRICT

Item no.	FACILITY
1	FRONTIER HOSPITAL
2	ALL SAINTS HOSPITAL
3	MOLTENO HOSPITAL
4	GLEN GREY HOSPITAL
5	KOMANI PSYCHIATRIC HOSPITAL
6	CHRIS HANI EMS
7	QUEENSTOWN FORENSIC LAB
8	HEWU HOSPITAL
9	ENOCH MGIJIMA CHC
10	DORDRHT HOSPITAL
11	INDWE HOSPITAL
12	ELLIOT HOSPITAL
13	NOMZAMO CHC
14	MJANYANA HOSPITAL
15	NGCOBO CHC
16	ZWELAKHE DALASILE CHC
17	COFIMVABA HOSPITAL
18	COFIMVABA HOSPITAL
19	CALA HOSPITAL
20	NGONYAMA CHC
21	STERKSTROOM HOSPITAL
22	MOLTENO PATHOLOGY
23	MARTJIE VENTER HOSPITAL
24	THORNHILL CHC
25	CRADOCK HOSPITAL
26	WILHELM STAHL HOSPITAL

Item no.	FACILITY
CLINICS — Emalahleni Health sub-District	
27	Agnes Rest Clinic

28	Bengu Clinic (Emalahleni)
29	Boomplaas Clinic
30	Dordrht Clinic
31	Guba Clinic
32	Hlala Uphilile Clinic
33	Lanti Clinic
34	Machubeni Clinic
35	Magashu Clinic
36	Matyantya Clinic
37	Mhlanga Clinic
38	Mkapusi Clinic
39	Mount Arthur Clinic
40	Ndonga Clinic
41	Nompumelelo Clinic
42	Philani Clinic (Emalahleni)
43	Qoqodala Clinic
44	Queen Nonesi Clinic
45	Rodana Clinic
46	Rwantsana Clinic
47	Swartwater Clinic
48	Tsembeyi Clinic
49	Vaalbank Clinic
50	Xonxa Clinic
Intsika Yethu Health sub-District	
51	Banzi Clinic
52	Bilatye Clinic
53	Bolotwa Clinic (Confimvaba)
54	Gqogqora Clinic
55	Isikhoba Clinic
56	Lower Mncuncuzo Clinic
57	Lower Seplan Clinic
58	Lubisi Clinic
59	Luthuli Clinic
60	Magwala Clinic
61	Mahlubini Clinic
62	Mawusheni Clinic
63	Mbulukweza Clinic
64	Mcambalala Clinic
65	Mtingwevu Clinic
66	Ncora Clinic
67	Ngceza Clinic
68	Ngqwaru Clinic
69	Ngxabangu Clinic
70	Nququ Clinic
71	Ntshingeni Clinic
72	Plumstead Clinic
73	Qamata Clinic
74	Qitsi Clinic
75	Qombolo Clinic
76	Qumanco J Tribal Clinic
77	Sabalele Clinic
78	St Mark's Clinic

79	Tsakana Clinic
80	Tsomo Village Clinic
81	Upper Mncuncuzo Clinic
82	Xume Clinic
Inxuba Yethemba Health sub-District	
83	Bacclesfarm Clinic
84	Baroda Clinic
85	Eluxolweni Clinic
86	Fish River Clinic
87	High Street Clinic
88	Hofmeyer Clinic
89	Kleinbulhoek Clinic
90	Kwanonzame New Clinic
91	Kwanonzame Old Clinic
92	Lingelihle Clinic
93	Michausdal Clinic
94	Middelburg Clinic
95	Midros Clinic
96	Mitford Clinic
97	Philani Clinic (Cradock)
98	Rocklands Clinic
99	Springrove Clinic
100	Tarkastad Clinic
101	Tentergate Clinic
102	Zola Clinic
Lukhanji Health sub-District	
103	Cimezile Clinic
104	Didimana Clinic
105	Ekuphumleni Clinic
106	Engojini Clinic
107	Ezibeleni Clinic
108	Fransbury Clinic
109	Gardens Clinic
110	Gwatyu Clinic
111	Hackney Clinic
112	Haytor Clinic
113	Hukuwa Clinic
114	Ilinge Clinic
115	Kamastone Clinic
116	KB Siswana Clinic
117	Lahlangubo Clinic (Queenstown)
118	Lesseyton Clinic
119	Lizo Ngcana Clinic
120	Machibini Clinic (Queenstown)
121	Masakhe Clinic
122	Molteno Clinic
123	Nceduluntu Clinic
124	New Rest Clinic
125	Nomonde Clinic
126	Oxton Clinic
127	Parkvale Clinic
128	Philani Clinic (Queenstown)

129	Pricesdale Clinic
130	Sada Clinic
131	Shiloh Clinic
132	Sterkstroom Clinic
133	Tsitsikamma Clinic
134	Yonda Clinic
135	Zingquthu Clinic
136	Zweledinga Clinic
Ngcobo Health sub-District	
137	All Saints Gateway Clinic
138	Bokleni Clinic
139	Clarkebury Clinic
140	Cwweni Clinic
141	Elucwwe Clinic
142	Eluhewini Clinic
143	Gqaga Clinic
144	Gubenxa Clinic
145	Lahlangubo Clinic (Ngcobo)
146	Manzana Clinic
147	Mdanjelwa Clinic
148	Mgudu Clinic
149	Mhlopekazi Clinic
150	Mjanyana Clinic
151	Mnyolo Clinic
152	Nkwenkwana Clinic
153	Ntsimba Clinic
154	Qebe Clinic
155	Qumanco Clinic
156	Singumeni Clinic
157	Tora Clinic
158	Zabasa Clinic
159	Zadungeni Clinic
Sakhisizwe Health sub-District	
160	Askeaton Clinic
161	Beestekraal Clinic
162	Elliot Clinic
163	Manzimahle Clinic
164	Mcewula Clinic
165	Mhlwazi Clinic
166	Ncedolwethu Clinic
167	Nyalasa Clinic
168	Qhiba Clinic
169	Sifonondile Clinic
170	Tembelihle Clinic
171	Thembaletu Clinic (Sakhisizwe)
172	Tsengiwe Clinic
173	Upper Lafuta Clinic

BUFFALO CITY DISTRICT

Item no.	FACILITY
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1	BHISHO FORENSIC LABORATORY
2	BHISHO HOSPITAL
3	CILIA MAKHIWANE HOSPITAL
4	DIMBAZA HOSPITAL
5	DUNCAN VILLAGE CHC
6	EMPILWENI GOMPO CHC
7	EMS VINCENT
8	FRERE HOSPITAL
9	GREY HOSPITAL
10	MDANTSANE FORENSIC MORTUARY
11	MOUNT COKE CHC
12	NEW HAVEN

Item no.	FACILITY
CLINICS	
13	Alphendale Clinic
14	Amahleke Clinic
15	Aspiranza Clinic
16	Beacon Bay Clinic
17	Berlin Clinic
18	Bhisho Gateway Clinic
19	Bhisho Parliament Clinic
20	Braelyn Clinic
21	Braelyn Extension Clinic
22	Breidbach Clinic
23	Bulembu Clinic
24	Cambridge Clinic
25	Central Clinic (East London)
26	Chris Hani Clinic
27	Drake Road Clinic
28	Fezeka NU 3 Clinic
29	Fort Grey Clinic
30	Frere Gateway Clinic
31	Ginsberg Clinic
32	Gompo A Ndende Clinic
33	Gompo B Jwayi Clinic
34	Gompo C Jabavu Clinic
35	Gonubie Clinic
36	Greenfields Clinic
37	Grey Gateway Clinic
38	Ilita Clinic
39	Imidange Clinic
40	Jafta Clinic
41	John Dube Clinic
42	Kwelera Clinic
43	Luyolo NU 9 Clinic
44	Masakhane Clinic (Zwelitsha)
45	Masiphile Clinic

46	Mdingi Clinic
47	Mncotsho Clinic
48	Moore Street Clinic
49	Mpongo Clinic
50	Ncera Clinic
51	Ndevana Clinic
52	Needs Camp Clinic
53	Newlands Clinic
54	Nobuhle NU 8 Clinic
55	Noncampa Clinic
56	NU 12 Clinic
57	NU 13 Clinic
58	NU 16 Clinic
59	NU 17 Clinic
60	Openshaw Clinic
61	Pakamisa Clinic
62	Peelton Clinic
63	Pefferville Clinic
64	Petros Jobane Clinic
65	Philani NU 1 Clinic
66	Pirie Clinic
67	Potsdam Clinic
68	Qurhu Clinic
69	Shornville Clinic
70	Sinebhongo Clinic
71	St Thomas Clinic
72	Sweetwaters Clinic
73	Tembisa NU 7 Clinic
74	Thembalethu Clinic (Buffalo City)
75	Tshabo Clinic
76	Tshatshu Clinic
77	Tyamzashe FP Clinic
78	Tyutyu Clinic
79	Welcomewood Clinic
80	Zanempilo Clinic (East London)
81	Zanempilo Clinic (Zwelitsha)
82	Zikhova Clinic
83	Zingisa NU 5 Clinic
84	Zwelitsha Zone 5 Clinic

AMATHOLE DISTRICT

Item no.	FACILITY
1	ADELAIDE HOSPITAL
2	BEDFORD HOSPITAL
3	BUTTERWORTH HOSPITAL
4	CATHCART HOSPITAL
5	IDUTYWA CHC
6	XHORA CHC
7	FORT BEAUFORT HOSPITAL

8	KOMGA HOSPITAL
9	MADWALENI HOSPITAL
10	MIDDLEDRIFT CHC
11	NOMPUMELELO HOSPITAL
12	NQAMAKWE CHC
14	S.S GIDA HOSPITAL
15	STUTTERHEIM HOSPITAL
16	TAFALOFEFE HOSPITAL
17	TOWER HOSPITAL
18	VICTORIA HOSPITAL
19	WILLOWVALE CHC
20	WINTERBURG TB HOSPITAL
21	ADELAIDE MORTUARY
22	BUTTERWORTH MORTUARY
23	CENTANI MORTUARY

Item no.	FACILITY
CLINICS — Amahlathi Health sub-District	
24	Amabele Clinic
25	Bhele Clinic
26	Burnshill Clinic
27	Cata Clinic
28	Cathcart Clinic
29	Cumakala 1 Clinic
30	Cumakala 2 Clinic
31	Cwili Clinic
32	Daliwe Clinic
33	Donnington Clinic
34	Ethembeni Clinic
35	Frankfort Clinic
36	Glenmore Clinic
37	Gwabeni Clinic
38	Gxulu Clinic
39	Hamburg Clinic
40	Horton Clinic
41	Jaji Clinic
42	Jama Clinic
43	Kati-Kati Clinic
44	Khuze Clinic
45	Komga Clinic
46	Ku Bengu Clinic
47	Kubusi Clinic
48	Lenye Clinic
49	Lower Zingcuka Clinic
50	Masele Clinic
51	Masinedane Clinic
52	Matomela Clinic
53	Mgwali Clinic
54	Mooiplaas Clinic

55	Mtombe Clinic
56	Mtyholo Clinic
57	Mxalanga Clinic
58	Ndwayana Clinic
59	Ngqwele Clinic
60	Nier Clinic
61	Nompumelelo Gateway Clinic
62	Norah Clinic
63	Ntaba ka Ndoda Clinic
64	Ntsitho Clinic
65	Peddie Extension Clinic
66	Philani Clinic (King William's Town)
67	Pikholi Clinic
68	Punzana Clinic
69	Qeto Clinic
70	Qwiliqwili Clinic
71	Rabula Clinic
72	Robert Mbelekana Clinic
73	Soto Clinic
74	SS Gida Gateway Clinic
75	St Matthew's Clinic
76	Stutterheim Clinic
77	Tamara Clinic
78	Twu Clinic
79	Tyata Clinic
80	Tyutyu Village Clinic
81	Wartburg Clinic
82	Wesley Clinic
83	Zalara Clinic
Mbhashe Health sub-District	
84	Badi Clinic
85	Bolotwa Clinic (Idutywa)
86	Bomvana Clinic
87	Fort Malan Clinic
88	Gwadana Clinic
89	Gwadu Clinic
90	Hobeni Clinic
91	Idutywa Ngabara Clinic
92	Jingqi Clinic
93	Keti Clinic
94	Kotyana Clinic
95	Kwa-Mkholoza Clinic
96	Lota Clinic
97	Mahasana Clinic
98	Melitafa Clinic
99	Mpame Clinic
100	Mpozolo Clinic
101	Mqhele Clinic
102	Msendo Clinic
103	Nkanya Clinic
104	Ngabara Clinic
105	Nqabeni Clinic

106	Nqadu Clinic (Mbhashe)
107	Nyhwara Clinic
108	Qwaninga Clinic
109	Soga Clinic
110	Sundwana Clinic
111	Taleni Clinic
112	Vukukhanye Gateway Clinic
Mnquma Health sub-District	
113	Butterworth Gateway Clinic
114	Dr CL Bikitsha Clinic
115	Gcaleka Clinic
116	Gqunqe Clinic
117	Grainvalley Clinic
118	Hebe-Hebe Clinic
119	Highview Clinic
120	Ibika Clinic
121	Kotana Clinic
122	Macibe Clinic
123	Mgcwe Clinic
124	Mnyibashe Clinic
125	Mpukane Clinic
126	Mqambeli Clinic
127	Ncizele Clinic
128	Ndabakazi Clinic
129	Ngqusi Clinic
130	Nozuko Clinic
131	Nqancule Clinic
132	Ntseshe Clinic
133	Qina Clinic
134	Qolora-By-Sea Clinic
135	Springs Clinic
136	Tafalofefe Gateway Clinic
137	Tanga Clinic
138	Tutura Clinic
139	Tyali Clinic
140	Zazulwana Clinic
Nkonkobe Health sub-District	
141	Adelaide Gateway Clinic
142	Amathole Basin Clinic
143	Assina Mandla Clinic
144	Balfour Clinic
145	Bedford Clinic
146	Bezuidenhoutville Clinic
147	CC Lloyd Clinic
148	Debe Nek Clinic
149	Fort Beaufort Gateway Clinic
150	Gilton Clinic
151	Gxwederha Clinic
152	Healdtown Clinic
153	Hillside Clinic (Nkonkobe)
154	Kolomana Clinic
155	Lower Regu Clinic

156	Lulama Kama Clinic
157	Melani Clinic
158	Mgwalana Clinic
159	Msobomvu Clinic
160	Mxhelo Clinic
161	Mzamomhle Clinic (Bedford)
162	Newtown Clinic
163	Njwaxa Clinic
164	Nomakhwezi Makhenyane Clinic
165	Perksdale Clinic
166	Qibira Clinic
167	Rwarwa Clinic
168	Seymour Clinic
169	Sheshegu Clinic
170	Thozamile Madakana Clinic
171	Upper Ncera Clinic
172	Victoria Gateway Clinic
173	War Memorial Clinic
174	Washington Clinic
175	Zigodlo Clinic
176	Zihlahleni Clinic

OR TAMBO DISTRICT

Item no.	FACILITY
1	Zitulele Hospital
2	Dr Malizo Mpehle Memorial Hospital
3	Nessie Knight Hospital
4	St Lucy's Hospital
5	Bambisana Hospital
6	Canzibe Hospital
7	Isilimela Hospital
8	St Barnabas Hospital
9	Holy Cross Hospital
10	Mthatha General Hospital
11	Nelson Mandela Academic Hospital
12	Bedford Orthopaedic Hospital (Mthatha)
13	St Elizabeth's Hospital
	CLINICS
	King Sabata Dalindyebo Health sub-District
14	Bityi Clinic
15	Civic Centre Clinic (Mthatha)
16	Efata Clinic
17	Hlabatshane Clinic
18	Jalamba Clinic

19	Kambi Clinic
20	Lutubeni Clinic
21	Mahlungulu Clinic (KSD)
22	Mapuzi Clinic
23	Maxwele Clinic
24	Mpeko Clinic
25	Mpindweni Clinic
26	Mpunzana Clinic
27	Mqhekezweni Clinic
28	Mthatha Gateway Clinic
29	Ncambele Clinic
30	Ndibela Clinic
31	Ngcengane Clinic
32	Ngqungqu Clinic
33	Ngqwarha Clinic
34	Ngwenya Clinic
35	Nqwathi Clinic
36	Ntlangaza Clinic
37	Ntshabeni Clinic
38	Ntshela Clinic
39	Nzulwini Clinic
40	Phakamile Clinic
41	Qokolweni Clinic
42	Qunu Clinic
43	Sangoni Clinic
44	Sitebe Clinic
45	SOS Clinic
46	Stanford Terrace Clinic
47	Tabase Clinic
48	Tshezi Clinic
49	Tyelebana Clinic
50	Upper Xongora Clinic
51	Wilo Clinic
52	Xhwili Clinic
53	Zidindi Clinic
54	Zitatele Clinic
55	Zitulele Gateway Clinic
56	Zwelebhunga Clinic
57	Zwelichumile Clinic
	Mhlontlo Health sub-District
58	Caba Clinic
59	Ezingcuka Clinic
60	Gura Clinic
61	Kalankomo Clinic
62	Langeni Clinic

63	Lotana Clinic
64	Lower Gungululu Clinic
65	Mahlungulu Clinic (Mhlontlo)
66	Mbalisweni Clinic
67	Mbokotwana Clinic
68	Mdeni Clinic
69	Mdyobe Clinic
70	Mhlahlane Clinic
71	Mjika Clinic
72	Nessie Knight Gateway Clinic
73	Ngwemnyama Clinic
74	Nxotwe Clinic (Qumbu)
75	Qanqu Clinic
76	Qolombane Clinic (Qumbu)
77	Shawbury Clinic
78	Sidwadweni Clinic
79	St Lucy's Gateway Clinic
80	Tina Falls Clinic
81	Tsilitwa Clinic
82	Tsolo Clinic
	Nyandeni Health sub-District
83	Bambisana Gateway Clinic
84	Bomvini Clinic
85	Buchele Clinic
86	Buntingville Clinic
87	Caguba Clinic
88	Canzibe Gateway Clinic
89	Cwele Clinic
90	Double Falls Clinic
91	Gqubeni Clinic
92	Isilimela Gateway Clinic
93	Kohlo Clinic
94	Libode Clinic
95	Ludalasi Clinic
96	Lujizweni Clinic
97	Lutshaya Clinic
98	Lwandile Clinic
99	Majola Clinic
100	Malusi Clinic
101	Mampondomiseni Clinic
102	Mangcwanguleni Clinic
103	Mantusini Clinic
104	Maqanyeni Clinic
105	Mevana Clinic
106	Mgwenyane Clinic

107	Mtakatye Clinic
108	Mtambalala Clinic
109	Mzintlava Clinic
110	Ndanya Clinic
111	Ngcolora Clinic
112	Ngcoya Clinic
113	Ngqeleni Clinic
114	Nkanga Clinic
115	Nkanunu Clinic
116	Nkumandeni Clinic
117	Nolita Clinic
118	Nontsikelelo Biko Clinic
119	Nqanda A Clinic
120	Ntafufu Clinic
121	Ntapane Clinic
122	Ntibane Clinic
123	Nyandeni Clinic
124	Old Bunting Clinic
125	Phahlakazi Clinic
126	Pilani Clinic
127	Qandu Clinic
128	St Barnabas Gateway Clinic
	Qaukeni Health sub-District
129	Bala Clinic
130	Bodweni Clinic
131	Flagstaff Clinic
132	Goso Forest Clinic
133	Holy Cross Gateway Clinic
134	Khanyayo (Holy Cross) Clinic
135	KTC clinic
136	Lusikisiki Village Clinic (Qaukeni)
137	Magwa Clinic
138	Malangeni Clinic
139	Mantlaneni Clinic
140	Mbadango Clinic
141	Mbotyi Clinic
142	Mpoza Clinic (Lusikisiki)
143	Nkozi Clinic
144	Palmerton Clinic
145	Qaukeni Clinic
146	St Elizabeth's Gateway Clinic
147	Xopozi Clinic
148	Xurana Clinic

ALFRED NZO DISTRICT

Item no.	FACILITY
1	Khotsong TB Hospital
2	Tayler Bequest Hospital (Matatiele)
3	Maluti CHC
4	Greenville Hospital
5	Madzikane kaZulu Memorial Hospital
6	Mt Frere Forensic
7	Sipetu Hospital
8	Mount Ayliff Hospital
9	Tabankulu CHC
10	St Patrick's Hospital
11	Bizana Forensic Mortuary

Item no.	FACILITY
CLINICS — Maluti Health sub-District	
12	Afsondering Clinic
13	Elukholweni Clinic
14	Isilindini Clinic
15	Likhetlane Clinic
16	Madlangala Clinic
17	Magadla Clinic
18	Matatiele Community Clinic
19	Mount Hargreaves Clinic
20	Mpharane Clinic
21	Mvenyane Clinic
22	Mzongwana Clinic
23	Ntlola Clinic
24	Nyaniso Clinic
25	Paballong Clinic
26	Queen's Mercy Clinic
27	Rolweni Clinic
28	Shepherds Hope Clinic
29	Thabachicha Clinic
30	Umtumase Clinic
Umzimvubu Health sub-District	
31	Amadiba Clinic
32	Amandengane Clinic
33	Amantshangase Clinic
34	Baleni Clinic
35	Cancele Clinic
36	Daliwonga Clinic
37	Dundee Clinic
38	Dungu Clinic
39	Greenville Gateway Clinic
40	Hlamandana Clinic
41	Imizizi Clinic
42	Isikelo Clinic
43	Kanyayo (Bizana) Clinic

44	Lubaleko Clinic
45	Lugangeni Clinic
46	Luyengweni Clinic
47	Machibini Clinic (Kwabhaca)
48	Makwantini Clinic
49	Malongwana Clinic
50	Mangqamzeni Clinic
51	Mapheleni Clinic
52	Matubeni Clinic
53	Meje Clinic
54	Mfundambini Clinic
55	Mfundisweni Clinic
56	Mhlotsheni Clinic
57	Mkemanie Clinic
58	Mnceba Clinic
59	Mngungu Clinic
60	Mntwana Clinic
61	Mount Ayliff Gateway Clinic
62	Mount Frere Gateway Clinic
63	Mpetsheni Clinic
64	Mpoza Clinic (Mount Frere)
65	Mwaca Clinic
66	Ndawenzima Clinic
67	Ndela Clinic
68	Ntlabeni Clinic
69	Ntlenzi Clinic
70	Ntshentshe Clinic
71	Ntsizwa Clinic
72	Qaqa Clinic
73	Qasa Clinic
74	Qobo Clinic
75	Qwidlana Clinic
76	Rode Clinic
77	Sigidi Clinic
78	Sipetu Gateway Clinic
79	St Patrick's Gateway Clinic
80	Tela Clinic
81	Tsawana Clinic
82	Tshungwana Clinic
83	Zulu Clinic
84	Sebeni Clinic



PART C5

EASTERN CAPE DEPARTMENT OF HEALTH

DETAILED SPECIFICATION

FOR THE SUPPLY

OF

PRIME RATED GENERATOR

DETAILED SPECIFICATION – Prime Rated Generator

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1.0 **INTRODUCTION & GENERAL**

This detail specification complements & qualifies the foregoing specifications of material & workmanship. Technical Specifications should be regarded as a basis and guideline, with this detailed specification taking preference where any ambiguity is concerned.

Should there be any conflict or ambiguity between sections of this enquiry, then the sections will be considered in the following order of priority:-

- Bills of Quantities
- Project detailed Specification including Equipment Schedules
- Technical Specification

Should the Tenderer notice any inconsistencies between these sections, it is his responsibility to notify the Engineer in order to obtain clarification thereon.

1.1 **SUPPLY AND CONNECTION**

The supply will be at 400 Volt, 50Hz.

The contractor must arrange in good time with the health facility technical staff for switching and or off the mains supply during works.

1.2 **Temporary Works**

No temporary works are envisaged in the current design and planned execution of the works except where the Contractor wants to incorporate it as part of his work method. In the case of the latter the Contractor must price the temporary works in the tendered rates.

2.0 **SYSTEM LOW VOLTAGE**

The supply to all the installation shall be 400/230 Volts, 3-phase, 4 wire, 50 Hertz, Earthed Neutral.

3.0 **QUALITY OF MATERIALS**

Materials are to comply with the relevant South African National Standards (SANS), or to IEC specifications, where no SABS specifications exist. All materials used shall bear the SABS mark of approval as applicable.

NB: All materials must be of South African manufacture. The Contractor must submit proof of unavailability where this requirement cannot be fulfilled.

4.0 **BALANCING OF LOAD**

The Contractor is required to balance the load as equally as possible over the multiphase supply **before Final Completion**.

5.0 SHOP DRAWINGS AND ALTERNATIVES

- 5.1 Prior to manufacturing of unit and its associated equipment, the Contractor is required to submit for approval manufacturer's shop drawings showing proposed equipment in detail including planned tests and structural requirements. Any approvals given or comments made shall be on the generality of the scheme and shall not relieve the Contractor of his responsibility to ensure full compliance with all performance and regulatory criteria and materials latent defects.
- 5.2 Any alternatives to specifications would need to be issued to Engineer for approval prior to ordering of such equipment or material.
- Failure by the contractor to obtain written approval from the Engineer. The contractor shall be liable for the replacement of condemned equipment or material including costs incurred due to contract delays

6.0 SUPERVISION, WORKMANSHIP AND DELAYS

The work shall at all times, for the entire duration of the contract, be executed under the supervision of a skilled and competent representative of the Contractor, who must be able and authorized to receive and execute instructions on behalf of the Contractor.

In the event that inferior materials or bad workmanship, on the part of the Contractor, leads to remedial work requiring redesign by the Engineer, the cost of this work, including related professional fees, shall be borne by the Contractor.

Similarly, should delays in the contract be caused by poor performance on the part of the Contractor causing the Engineer to spend extraordinary time on the project, the extra costs incurred may be borne by the Contractor.

These costs will be based on the ECSA hourly rates and may be deducted from claims due or claims which will become due to the Contractor.

7.0 MAKING GOOD

The Contractor will carry out in all instances any work to be made good such as damage to or disturbances of the building installations caused by himself or his employees during the execution of the contract, at his own cost.

8.0 COMMISSIONING AND TESTING

8.1 Commissioning

A documented method shall be followed whereby the Contractor shall ensure that his installation is correctly constructed in accordance with the manufacturers' specifications, consultant's specification, consultant's design and all codes of practice and international design codes.

The commissioning procedure must allow for signing off of the major items of equipment by a qualified person in terms of the codes. These signed off documents will form part of the record drawings.

8.2 Performance Tests

The Contractor shall be responsible for the physical testing, in the manufacturing works, or on site, of the items of plant or systems as required by the Engineer. These tests shall be performed by the Contractor or supplier of the equipment, and where called for, the Engineer shall witness such tests. The Engineer and Client may also witness a representative sample of the equipment tests. In any event, the Contractor will supply documentary proof of full performance tests of all relevant equipment.

8.3 Acceptance Tests

Acceptance tests will be performed on site of the working system or sub system, to show that the works, as installed, is functioning according to the specifications and design. The onus for the correct functioning of the systems is still on the Contractor irrespective of whether the Engineer has witnessed the acceptance tests or not.

Prior to the system being connected, a test certificate must be issued by / given to the local electricity supply authorities.

8.4 Testing Equipment

Testing equipment required for the successful commissioning of the Works described herein is to be made available by the Contractor.

Should the Contractor not have suitable equipment for carrying out the tests at the time of testing, the Engineer may instruct testing specialists to undertake this work. All arrangements for instructing of testing specialists to undertake this work and all associated costs, including professional fees shall be deducted from money due to the Contractor.

9.0 COMPLIANCE WITH REGULATIONS, STANDARDS AND CODES

The Contractor will arrange for all inspections and testing of the installation after completion, including the issuing of the Certificate of Compliance. All notices, fees, including inspection and re-inspection are the responsibility of the Contractor and all the relevant costs shall be borne by him.

The workmanship throughout the Works will be to the satisfaction of the Employer. Any materials or workmanship considered as faulty or incorrectly or inadequately erected or repaired, will be substituted, altered or rectified to the satisfaction of the Employer, without additional cost to the Employer.

The Works will be executed in strict accordance with the following:-

- (a) The Wiring Code - SANS 1042-1: 2008,
- (b) The Occupational Health and Safety Act, 1993 (Act 85 of 1993) as amended,

10.0 PROGRAMME

The Contractor shall be expected to furnish the Engineer with works programme prior detailing planned site works in detail for approval.

The cost of overtime, additional labour and plant for the completion of the works, in accordance with the programme, must be included in the Tenderer's price for the project. The cost of any work outside the requirements of the programme or necessary under exceptional circumstances will be for the Employers' account only if covered under a variation order.

11.0 MONTHLY CERTIFICATES

Pro forma claim forms are available from the Engineer. These are available in a blank copied format or as a computer file in Excel. This is the preferred method of submitting payment claims. Should the Contractor have developed his own method of claiming, this may be submitted to the Engineer for consideration.

12.0 EARTHING AND BONDING

12.1 General

Earthing shall generally be in accordance with

- SANS 10142-1: 2008 Wiring Code,
- SANS 10198: Part 3 - Earthing System; General Provision; Part 12 - Installation of Earthing Systems
- SANS 10200: Neutral Earthing in Medium Voltage Industrial Power Systems
- SANS 10292: Earthing of Low Voltage Distribution Systems
- SANS 1063: Earth Rods Couplers and Clamps
- AMEU Code of Practice for the application of protective multiple earthing to low voltage distribution systems and
- The latest amendments and the OHS Act 1993.

12.2 Generator Earthing

The earthing shall comply with SANS with an overall resistance not exceeding 1 Ohm. The earth mat is to be connected to the existing earth-bar with an insulated earth cable.

- a) The earth mat shall be buried at a depth of 1,5 meters below finished ground level.
- b) Cu Earth Bars shall be tinned.
- c) All mat joints and earthing rod joints shall be exothermically welded together by Cadweld or equivalent process.
- d) Each of the earth cables connected to the earth bar shall be fully labelled to ensure correct identification.

NOTE: Providers of services other than the electrical power services should not access the distribution board or other parts of the electrical installation.



PART C5

EASTERN CAPE DEPARTMENT OF HEALTH

TECHNICAL SPECIFICATION

FOR THE SUPPLY, DELIVER AND INSTALLATION

OF

PRIME RATED GENERATORS

AT HEALTH FACILITIES IN THE EASTERN

CAPE

SPECIFICATION - PRIME GENERATOR

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1.0 **GENERAL**

This specification covers the supply, delivery, installation on site and commissioning of a various sizes of outdoor and or indoor diesel-powered prime rated generators.

Full particulars, performance curves and illustrations of the equipment offered, must be submitted with the quotation.

The generator sets must be primed, painted and then then finished with two coats of suitable heat resistant enamel paint.

The schedule of information, which is attached to this Specification, must be completed and submitted with the quotation.

Note: All engine, alternator and control panel parts must be readily available in South Africa. A letter confirming this must be submitted with the tender.

2.0 **SITE CONDITIONS**

- Location : Eastern Cape
- Altitude : varies
- Maximum High temperature : varies
- Minimum Low temperature : varies

3.0 **OUTPUT AND VOLTAGE**

The prime rated generator shall be able:

- to accept a 60% emergency step load 10 seconds after being started,
- the remaining 40% must be accepted 5 seconds later, and
- 100% load shall be accepted within 15 seconds.

The set shall have an output as follows

- (a) No load voltage : 400/230 Volts
- (b) Frequency : 50Hz
- (c) Fault Level : 10kA

4.0 **CONSTRUCTION**

The engine and alternator of the set shall be built together on a hot dip galvanised sled base framework on anti-vibration mountings. A drip tray must be fitted under the engine. The tray must be large enough to catch a drip from any part of the engine and must be removable.

5.0 **OPERATION**

The generator set shall be fully automatic.

It must disconnect the mains power supply and start in case of any one or more of the following conditions occurring:

- (a) One or more of the mains power supply phases fails;
- (b) One or more of the mains power supply phases drifts outside set voltage tolerances;
- (c) The mains power supply frequency drifts outside set frequency tolerances;

In addition, it shall be possible to manually start and stop the set by means of push buttons on the generator control panel.

The automatic control shall make provision for three consecutive starting attempts. Thereafter the set must be switched off, and the start failure relay on the switchboard must give a visible and audible indication of the fault.

To prevent the alternator being electrically connected to the mains supply when the mains supply is on and vice versa, a safe and fail proof system of suitable interlocked contactors shall be supplied and fitted to the changeover panel.

6.0 ENGINE

6.1 GENERAL

The engine must comply with the requirements laid down in BS 5514 and must be of the atomised injection, compression ignition type, running at a speed not exceeding 1500 rpm. The engine must be adequately rated for the required electrical output of the set, when running under the site conditions. The starting period for either manual or automatic switching-on until the taking over by the generator set, in one step, of a load equal to the specified site electrical output, shall not exceed 15 seconds. This must be guaranteed by the Tenderer.

Turbo-charged engines will only be accepted if the Tenderer submits a written guarantee that the engine can deliver full load within the specified starting period.

Curves furnished by the engine makers, showing the output of the engine offered against the speed, for both intermittent and continuous operation as well as fuel consumption curves when the engine is used for electric generation, must be submitted with the Tender.

Only reputable and readily available, in South Africa, engine makes may be offered. Only engines that has a successful track record in similar applications will be considered.

6.2 RATING

The set shall be capable of delivering the specified output continuously under the site conditions, without overheating.

6.3 DERATING

The derating of the engine for site conditions shall be strictly in accordance with BS5514 of 1997 as amended to date. Any other methods of derating must have the approval of the Employer and must be motivated in detail. Such derating must be guaranteed in writing and proved by the successful Tenderer at the site test.

6.4 STARTING AND STOPPING

The engine shall be fitted with an electric starter motor and be easily started from cold, without the use of any special ignition devices, under summer as well as winter conditions.

Tenderers must state what arrangements are provided to ensure easy starting in cold weather. Full details of this equipment must be submitted. In the case of water-cooled engines, any electrical heaters shall be thermostatically controlled. The electrical circuit for such heaters shall be taken from the control panel, and must be protected by a suitable circuit breaker.

6.5 STARTER BATTERY.

The set must be supplied with a fully charged batteries. The batteries must have sufficient capacity to provide the starting torque stipulated by the engine makers as well as reasonable standby capacity for the alarm circuit requirements as per Section 8 below. The battery capacity shall be capable of providing three consecutive start attempts from cold and thereafter a fourth attempt under manual control of not less than 20 seconds duration each. The battery must be of the heavy-duty "low maintenance" type, housed in a suitable battery box and guaranteed for 24 months.

6.6 COOLING

The engine may be either air-cooled or water-cooled. In the case of water-cooling, a built-on heavy duty, tropical type pressurized radiator must be fitted. In case of air cooled engines the supplier will remain responsible to ensure that the engine will have sufficient ambient cooling under all operating conditions to ensure that the engine will not overheat or run too hot as result of insufficient ambient cooling in the installation position.

For either method of cooling, protection must be provided against running at excessive temperatures. The operation of this protective device must give a visual and audible indication on the switchboard. Water-cooled engines shall in addition be fitted with a low water cut-out switch, installed in the radiator to switch the set off in the event of a loss of coolant. The protection shall operate in the same way as the other cut-out switches (e.g. low oil pressure). All air ducts for the cooling of the engine are to be allowed for. The air shall not re-circulate in the enclosure and an air duct shall be supplied from the cooling fan cowling/radiator face to the air outlet louvers in enclosure wall / attenuator. External openings of air ducts must be fitted with suitable louvres to eliminate water and animal ingress into them under normal operating conditions.

6.7 LUBRICATION

Lubrication of the main bearings and other important moving parts shall be by a force-feed system. An automatic low oil pressure cut-out must be fitted, operating the stop solenoid on the engine and giving a visible and audible indication on the switchboard.

6.8 FUEL PUMP

The fuel injection equipment must be suitable for operation with the standard commercial brands of diesel fuel normally available in South Africa.

6.9 FUEL TANK

A fuel tank shall have sufficient capacity for a generator set to run the engine of full load for a minimum period of 48 hours.

If a free bulk fuel tank is required it must be designed, manufactured and constructed in accordance with an approved standard eg, API 650 and for installation within a bund shall be provided complete with the following equipment:

- (a) Tank cradle
- (b) contents Indicator,
- (c) filler cap / coupling,
- (d) drain valve with plug,
- (e) inspection cover,
- (f) interconnection hoses/ pipes,
- (g) lower fuel alarm,
- (h) extra low level shutdown,
- (i) Sensors,
- (j) electric pump & hose to fill from the drums mounted inside a wall mounted lockable enclosure
- (k) Diesel fuel conditioner
- (l) Statutory labelling
- (m) API 2000 approved emergency venting in the event of exposure to fire
- (n) Pipes and valves shall be painted or marked in accordance with SANS 10140-3.

All electric connections must comply with SANS 10089-2.

The required bund shall be constructed by the project building contractor based on the design to be discussed and agreed with the generator supplier.

6.10 GOVERNOR

The speed of the engine shall be controlled by a governor in accordance with class A2 of BS 5514 of 1977 if not otherwise specified.

The permanent speed variation between no load and full load shall not exceed 4,5% of the nominal engine speed and the temporary speed variation shall not exceed 10%. External facilities must be provided on the engine; to adjust the nominal speed setting by $\pm 5\%$ at all loads between zero and rated load.

6.11 FLYWHEEL

A suitable flywheel must be fitted, so that lights fed from the set will be free from any visible flicker.

A cyclic irregularity of the set must be within the limit laid down in BS 5514 of 1977.

6.12 EXHAUST SILENCER

It is essential to keep the noise level as low as possible. An effective exhaust silencing system of a super residential type must be provided.

The exhaust pipe shall be installed in such a way that the expelled exhaust fumes will not cause discomfort to the public. The exhaust pipe must be flexibly connected to the engine to take up vibrations transmitted from the engine, which may cause breakage. The exhaust piping and silencer shall be lagged to reduce the heat and noise transmission into the enclosure and shall be protected against the ingress of driving rain at 45° to the horizontal.

6.13 ACCESSORIES

The engine must be supplied complete with all accessories, air and oil filters, 3 instruction manuals, spare parts lists, the first fill of lubricating oils, engine coolant etc.

7.0 ALTERNATOR

The alternator shall be of the self-excited brushless type, with enclosed ventilated drip-proof housing and must be capable of supplying the specified output continuously with a temperature rise not exceeding the limits laid down in BS 5000 for rotor and stator windings.

The alternator shall be capable of delivering an output of 110% of the specified output, for one hour in any period of 12 hours of consecutive running.

Both windings must be fully impregnated for tropical climate and must have oil resisting finishing varnish.

7.1 REGULATION

The alternator must preferably be self-regulated without the utilization of solid-state elements. The inherent voltage regulation must not exceed plus or minus 5% of the nominal voltage specified, at all loads with the power factor between unity and 0,8 lagging and within the driving speed variations of 4,5% between no-load and full load.

7.2 PERFORMANCE

The excitation system shall be designed to promote rapid voltage recovery following the sudden application of the full load. The voltage shall recover to within 5% of the steady state within 300 milliseconds following the application of full load and the transient voltage dip shall not exceed 18%.

7.3 COUPLING

The engine and alternator must be directly coupled by means of a high quality flexible coupling, of equal quality and performance to the "HOLSET" type.

8.0 SWITCHBOARD

Automatic mains fail panel incorporate all the standard equipment for the control and protection of the generating set and battery charging must be positioned directly behind the set.

Ideally the motorised automatic change-over switch must be accommodated inside the mains fail panel. Alternatively, this may be externally housed in a suitable outdoor enclosure.

The switchboard must conform to the specification as set out in the following paragraphs.

8.1 CONSTRUCTION

The switchboard shall be totally enclosed and mounted inside the generator enclosure.

All equipment, connections and terminals shall be easily accessible from the front. The front panels may be either hinged or removable and fixed with studs and chromium-plated cap nuts. Self-tapping screws shall not be used in the construction of the board.

All push buttons, pilot lights, control switches, instrument and control fuses, shall be mounted on hinged panels with control wires in flexible looms.

The steelwork of the boards must be thoroughly de-rusted, primed with zinc chromate and finished with two coats of signal red quality enamel, or a baked powder epoxy coating.

Suitably rated terminals must be provided for all main circuits and the control and protection circuits. Where cable lugs are used, these shall be crimped onto the cable stands. Screw terminals shall be of the type to prevent spreading of cable strands. All terminals shall be clearly marked.

For the control wiring, each wire shall be fitted with a cable or wire marker of approved type and numbering of these markers must be shown on the wiring diagram of the switchboards. Control wiring shall be run in PVC trunking as far as possible. The trunking shall be properly fixed to the switchboard steelwork. Adhesives shall not be acceptable for the fixing of trunking or wire looms to the steelwork.

The automatic control and protection equipment shall be mounted on a separate easily replaceable small panel with printed circuits. The equipment shall mainly be the "solid state" type. After mounting the equipment on the panel, the rear of this panel shall be sealed with epoxy-resin. However, other proven control systems may also be considered but must be described in detail.

All equipment on the switchboard, such as contractors, isolators, busbars, etc., shall have ample current carrying capacity to handle at least 110% of the full load alternator current specified.

8.2 PROTECTION AND ALARM DEVICES

A switchboard shall be equipped with protection and alarm devices as described below.

A circuit breaker and an adjustable current limiting protection relay must be installed, for protection of the alternator. The protection relay shall be of the type with inverse time characteristics.

Protection must be provided for overload, high engine temperature, low lubricating oil pressure, over speed, start-failure and low water level.

Individual relays with reset pushes are required, to give a visible signal and stop the engine when any of the protective devices operate. In the case of manual operation of a standby set, it shall not be possible to restart the engine by pushing the re-set.

The indicators and re-set push-buttons must be marked in English only and must at least include the following six items:.

OVERLOAD	TEMPERATURE HIGH	OIL PRESSURE LOW
OVERSPEED	START FAILURE	LOW WATER LEVEL

In addition, two relays with reset push-buttons must be fitted giving an audible and visible signal, when:

- a) The fuel level in the service tank is low. The reset push button of this relay must be marked "FUEL LOW". In addition, an extra low-level fuel sensor must be provided. At this level the engine must stop to prevent air entering the fuel system.
- b) The battery charger failed. The reset push-button of this relay must be marked "CHARGER FAIL".

All relays must operate an alarm hooter. A push-button must be installed in the hooter circuit to stop the audible signal, but the fault indicating light on the control panel must remain lit until the fault has been rectified. An on/off switch is not acceptable. After the hooter has been stopped, it must be reset automatically, ready for a further alarm.

The hooter must be of the continuous duty and low consumption type. Both hooter and protection circuits must operate from the battery.

Potential free contacts from the alarm relay must be brought down to terminals for remote indication of alarm conditions.

A test push-button must be provided to test all indicator lamps.

8.3 GENERATOR CONTROLLER

8.3.1 Design

- (a) The controller shall be similar or equal to the Deepsea 7320 MKII modular Generator Set controller. No other controllers shall be acceptable.
- (b) The controller shall be manufactured with all its functions and supplied in one box with plug in termination blocks for easy installation and replacement.

- (c) The control circuit shall be designed by using fully approved electronic programmable logic controllers. Preference will be given to local manufactured programmed control circuits.
- (d) The remote monitoring system should provide real-time generator status, alarm notifications, fault reporting, and remote access capabilities through a secure web-based platform.

8.3.2 Communication Interface

- (a) The controller will have a standard RS 232/485 or Ethernet interface suitable for TCP I/P transport medium.
- (b) DSE WebNet 4G gateways
- (c) All communication including configuration management shall be done through this port. The use of external program adaptors etc. will not be acceptable.
- (d) The controller shall incorporate the following functions:
 - (i) Mains sensing
 - (ii) Alternator output-voltage sensing
 - (iii) Alternator over-frequency sensing
 - (iv) Control of processor unit (self-diagnostics)
 - (v) Alarms/Status indications.
 - (vi) Control selector and operation

8.3.3 Control Selector

A 4-position control-selector on the controller shall be provided to facilitate the following modes of operation:

- OFF** : Generator switched off
- MANUAL** : Mains bypassed: Generator shall not take load
- AUTO** : Generator takes load on mains failure
- TEST** : Generator takes load on mains failure

8.3.4 Protections, Alarm and Status Indications

- (a) Provision shall be made for an acoustic as well as visual alarm device.
- (b) If required a red flashing beacon (electronic strobe light) shall be installed on the outside of the generator set enclosure.
- (c) This alarm device/s shall be powered from the plant's 12V starter battery.
- (d) The audible alarm shall be a low-powered electronic device, in order to prevent the starter battery from being discharged when an alarm condition has been activated.

The audible alarm shall be muted automatically after 120 seconds, but the flashing beacon (electronic strobe light) shall remain activated until the RESET function has been operated at the Genset Controller.

- (e) The “common” alarm function shall be activated when any alarm condition is activated.
- (f) Alarm status indications shall be provided on the Genset Controller. The controller shall contain a HELP menu included in the software, which will provide basic guidance in the event of any monitored alarm functions being activated.
- (g) The Genset Controller documentation shall to be provided with the generator set.

8.3.5 Functions

- (a) At least the following front Panel Indicators shall be provided

<u>Condition</u>		<u>Alarm</u>	<u>Shutdown</u>
High Temperature		√	√
Low Oil Pressure		√	√
Overspeed		√	√
Underspeed		√	√
Manual/Test Mode			
Heater Fault		√	
Low Fuel		√	
No Fuel		√	√
Low Water		√	√
Modem Remote Start			
Start Fail		√	√
Manual Start			
Emergency Stop		√	√
Mains Phase Rotation Fault			
High Mains Volts			
<u>Condition</u>		<u>Alarm</u>	<u>Shutdown</u>
Low Mains Volts			
Mains On			
Mains On Load			
Alternator On			
Alternator On Load			
Alternator Phase Rotation Fault		√	√
High Alternator Volts		√	√
Low Alternator Volts		√	√

Battery Volts Fault	-----	√	√
Alternator Charge Fault	-----	√	
Control System On	-----		

(b) Logging of Events

All events relating to the status of the generator set shall be logged with date and time in a non-volatile memory (which can retain information for a period of 6 months in the absence of power to the controller) and the user shall be able to obtain a hard copy on site. Logging of the following events with date and time shall be programmed

- Buffer erased
- Mains on load
- Unit switched ON
- Unit switched OFF
- Low Fuel Level
- Alternator on load
- Alternator off
- Start attempts = 01
- Start attempts = 02
- Start attempts = 03
- Mains phase low
- Unit Mode = Auto
- Manual Stop
- Manual Start
- Unit Mode = Manual
- Alt. Phase 1 min Volts
- Alt. Phase 2 min Volts
- Alt. Phase 3 min Volts
- Alt. Phase 1 max Volts
- Alt. Phase 2 max Volts
- Alt. Phase 3 max Volts
- Alt. Phase 1 min Amps
- Alt. Phase 2 min Amps
- Alt. Phase 3 min Amps
- Alt. Phase 1 max Amps
- Alt. Phase 2 max Amps

- Alt. Phase 3 max Amps

(c) User Programmable

The controller shall be user programmable on site via a menu system with clear prompts for the required data.

(d) Control System DC Supply Voltage

The control system must be able to operate with a minimum DC supply voltage of 4 Volts (without making use of either an internal or an external auxiliary battery) to allow cranking and starting under conditions of low battery capacity.

8.4 MANUAL STARTING

Each switchboard shall be equipped with two push-buttons marked “START” and “STOP” for manual starting and stopping of the set.

8.5 BATTERY CHARGING EQUIPMENT

Each switchboard shall be equipped with battery charging equipment.

The charger shall operate automatically in accordance with the state of the battery and shall generally consist of an air-cooled transformer, a full wave solid-state rectifier, and the necessary automatic control equipment of the constant voltage system.

The charger must be fed from the mains. An engine driven alternator must also be provided for charging the battery while the set is operational. Failure of this alternator must also activate the battery charger failure circuit.

8.6 SWITCHBOARD DISPLAYS

All readings Voltage, Amps (instantaneous, average and maximum), Frequency, kW, kVA, kVAr frequency, etc must be displayed on the controller panel.

8.7 MARKINGS

All labels, markings or instructions on the switchgear shall be in English only.

8.8 EARTHING

An earth bar must be fitted in the switchboard, to which all non-current carrying metal parts shall be bonded.

The neutral point of the alternator must be solidly connected to this bar by means of a removable link labelled “EARTH”. Suitable terminals must be provided on the earth bar for connection of up to three earth conductors, which will be supplied and installed by others.

8.9 OPERATIONAL SELECTOR SWITCH

A four-position selector switch must be provided on the switchboard marked “AUTO”, “MANUAL”, “TEST”, and “OFF”.

With the selector on “AUTO”, the set shall automatically start and stop, according to the mains supply being available or not.

With the selector on “TEST”, it shall only be possible to start and stop the set with the push buttons, but the running set shall not be switched to the load.

With the selector on “MANUAL”, the set must take the load when started with the push-button, but it must not be possible to switch the set on to the mains, or the mains onto the running set.

With the selector on “OFF”, the set shall be completely disconnected from the automatic controls, for cleaning and maintenance of the engine.

8.10 AUTOMATIC CHANGE-OVER SYSTEM

A 12-pole fully automatic changeover system must be provided to isolate the mains supply and connect the standby set to the outgoing feeder in case of a mains failure and reverse this procedure on return of the mains.

The contactors for this system must be interlocked in a safe and failproof way to prevent the alternator from being switched onto the mains or vice versa.

8.10.1 Generator set Controller in AUTO mode:

- (a) In the event of a mains failure, the plant must start up after a 3 second delay. This delay shall be introduced to prevent spurious starting of the genset caused by mains supply transients.
- (b) During starting and run-up, engine oil pressure, and alternator output voltage and frequency monitoring, shall be blocked for a controlled period of time.
- (c) Once the blocking is released and the various operating parameters confirmed as correct, the control system must signal the remote NORMAL supply changeover contactor to open, followed by a closing command for the remote STANDBY supply changeover contactor.
- (d) The plant shall now provide power to the essential power loads.
- (e) After the mains supply has been restored, the plant must remain on load for a further 60 seconds, after which time it must cause the STANDBY supply changeover contactor to open, followed 2 seconds later by the closing of the NORMAL supply changeover and remote DB mounted contactors.
- (f) Mains power is now restored the to essential and non-essential power loads.
- (g) The plant shall now continue to run for a further 3 minutes in order to stabilize the engine and turbocharger temperatures before stopping, thereby avoiding thermal stresses on the engine.
- (h) Should the mains fail during the 3 minute cool-down cycle, the system must cause an immediate changeover to STANDBY power, while resetting the cool-down cycle. After the mains has been restored, changeover back to NORMAL supply and shutdown procedures must be re-initiated as described above.

8.11 START DELAY

Starting shall be automatic in event of a mains failure. A 0-15s adjustable, start delay timer shall be provided to prevent start-up on power dips or very short interruptions.

8.12 STOP DELAY

A stop delay with timer is required for the set, to keep the set on load for an adjustable period of one to sixty seconds (0 – 6s) after the return of the mains supply, before changing back to the supply. An additional timer shall keep the set running for a further adjustable cooling period of 5 to 10 minutes at no-load before stopping.

9.0 INSTALLATION

The Contractor must include for the connection of the incoming cable and outgoing feeder cables.

Single core 600/1000 Volts unarmoured XLPE insulated cables with stranded copper conductors and PVC sheath to SANS 1507-4 shall be used to connect the generator ACOS to the outdoor manual bypass switch that will be positioned in close proximity to the generator.

10.0 PLANT AND EQUIPMENT GUARANTEES

The generator plant (genset set and all associated equipment) will be guaranteed for twelve (12) months irrespective of the running hours recorded on the hour meter. All the equipment supplied with it will guaranteed for twelve (12) months from the date of Practical Completion and written guarantees must be submitted on completion.

11.0 FIRST 12 MONTHS MAINTENANCE PERIOD

The Contractor shall be responsible for the service and maintenance of the generator plant for a period of twelfth months after the Practical Completion has taken place.

If during this period the plant is not in working order, or not working satisfactorily owing to faulty material, design or workmanship, the Contractor will be notified and immediate steps shall be taken by him to rectify the defects and/or replace the affected parts on site at his own expense.

The Contractor shall maintain the plant in good working condition for the full twelfth month period to the final delivery of the installation. However, should the Contractor fail to hand over the plant in good working order on the expiry of the specified twelfth months, the Contractor shall be responsible for further monthly maintenance until final delivery is taken.

During this period the contractor will undertake to arrange that the plant be inspected at least once per month by a qualified member of his staff who shall: -

- (a) Report to the Officer-in-charge, keeping the maintenance records, and enter into a log book the date of the visit, the tests carried out, the adjustments made, and any further details that may be required.
- (b) Grease and oil moving parts, where necessary.
- (c) Check the air filter and, when necessary, clean the filter and replace filter oil.
- (d) Check the lubricating oil and top-up when necessary.

- (e) After the plant has run one oil change for the number of hours stipulated by the manufacturers, drain the sump and refill with fresh lubricating oil. The reading of the hour meter on the switchboard will be taken to establish the number of hours run by the plant.

Under this heading only the cost of the actual oil used, shall be charged as an extra on the monthly account.

- (f) Clean the lubricating oil filter and/or replace the filter element at intervals recommended by the engine manufacturer, the cost of a new filter element to be charged as an extra on the monthly account.
- (g) Check and when necessary adjust the valve settings and the fuel injection equipment.
- (h) Check the battery and top-up the electrolyte when necessary.
- (i) Test-run the plant for 0,5 hour and check the automatic starting with simulated faults on the mains, the proper working of all parts, including the electrical gear the protective devices with fault indicators, the changeover equipment and the battery charger. Make the necessary adjustments.
- (j) Report to the Officer-in-charge on any parts that become unserviceable through fair wear and tear, or damaged by causes beyond the control of the Contractor.

The Contractor shall immediately submit a detailed quotation for the repair or replacement of such parts to the Officer-in-charge.

- (k) Advise the Officer-in-charge when it has become necessary to de-carbonise the engine and submit a quotation for this service.
- (l) Top up the water of the radiator, if applicable.
- (m) Clean the plant and its components.

12.0 **TESTS**

The following tests are to be carried out:

- a) At the supplier's premises, before the generating set will be delivered to site. The Engineer or the alternative Representative of the Employer will be present during the test to satisfy themselves that the generator set complies with the specification and delivers the specified output. The Engineer must be timeously advised of the date of this test.
- b) After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installation will be inspected and the contractor shall make good, to the satisfaction of the Engineer, any defects which may arise.
- c) The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installation at completion.

- d) Test reports of both tests as specified under (a) and (b) are to be submitted to the Engineer.

13.0 SPARES, MANUALS AND RECORD DRAWINGS

All necessary catalogues and nearest availability of spare parts shall be detailed in the offer.

On completion the Contractor shall submit the Employer's representative a set of

- (a) Operation manuals;
- (b) maintenance manuals,
- (c) record drawings,
- (d) first batch of service spares and
- (e) full diesel fuel tanks (all).

14.0 ENCLOSURE / CANOPY

14.1 GENERAL

- (a) The set will be installed inside a new modified 12MTR ISO shipping container. Trox sound attenuators and louvres to suit must be fitted to both ends and both sides must be fitted with acoustic doors for access purposes. The inside of the container must be lagged with "Quash" type acoustic material and the standard aluminium chequer plate floor and lights etc must be installed over the engine and switchboard.
- (b) The enclosure shall allow easy access to the engine, alternator, radiator filler cap and control panel for maintenance purposes.
- (c) The door hinges and locking bars shall be of a heavy-duty type and be manufactured of an alloy or mild steel which is hot dip galvanised. The hinges shall be fitted with a nylon bush and grease nipple.
- (d) The diesel fuel level indicator and alternator rating plate shall be clearly visible with the doors open.
- (e) Unless specified the silencers shall be mounted within the enclosure.
- (f) Rubber seals on doors shall be equal to or similar to the Mc-Norten pinch weld win lace door rubbers.

14.2 DESIGN

- (a) The enclosure shall be designed to be weather-proof and sound proofed. Rivets or self-tapping screws will under no circumstances be allowed for fixing the various sections of the enclosure. Only corrosion resistance nuts and bolts are acceptable.
- (b) The starter battery shall be housed in an insulated compartment with forced air flow when the engine is running. It should be provided with easy access for maintenance and removal.

14.3 ROOF

The roof of the enclosure shall be constructed for proper drainage of water with a pitch of not less than 7 degrees.

14.4 LIGHT FITTINGS

- (a) A LED light fitting and its associated on/off door switch shall be provided inside the enclosure for illumination of the control panel and the inside of the enclosure.
- (b) The power for the lamp shall be obtained from the starter battery.

14.5 PROVISIONS AND STORAGE

The following must be provided

- (a) Readily accessible 6.8kg Carbon dioxide fire extinguisher
- (b) Storage box for service spares and a pair of ear muffs.

14.6 POWER POINT

A 16 ampere switched socket outlet (SSO) shall be provided in the externally mounted terminal box or suitable accessible position and protected from rain. The SSO must be accessible without the use of tools. The power supply shall be taken from the mains side of the switchboard and protected by a 20A, 30mA earth leakage.

14.7 NOTICES

- (a) Notices in English as stipulated in the latest amendment of the Occupational Health and Safety Act 85/1993 shall be installed in the generator enclosure.
- (b) Notices shall be in accordance with SANS 1186-1:2008 Symbolic Safety Signs Part 1
- (c) All notices shall be of the metal engraved type with a minimum metal thickness of 1 mm. The words shall be in red lettering on a white background.
- (d) The lettering shall be embossed and the colouring shall not fade in sunlight
- (e) The contents of these notices are summarised below.
 - (i) A notice prohibiting unauthorised entry prohibited
 - (ii) A notice prohibiting unauthorised handling of or interfering with electrical apparatus
- (f) Notices (e) (i) must be installed outside next to the entrance of the generator enclosure and (e) (ii) to be inside the generator enclosure.
- (g) In the generator enclosure, a clearly legible and indelible warning notice must be mounted in a conspicuous position. The motive shall be made of a non-corrodible and non-deteriorating material, preferable plastic, and must read as follows:

**DANGER: THIS ENGINE WILL START WITHOUT NOTICE. TURN
SELECTOR SWITCH ON CONTROL BOARD TO "OFF"
BEFORE WORKING ON THE PLANT.**

15.0 SCHEDULE SCHEDULES OF GENERATOR TECHNICAL INFORMATION

A. ENGINE

NO	ITEM	REMARKS
1.	Manufacturer's Name	
2.	Country of Origin	
3.	Manufacturer's model No. and year of manufacture	
4.	Continuous sea level rating after allowing for ancillary equipment : In kW.....	
5.	Percentage de-rating for site conditions, in accordance with BS 551.4 a) For altitude..... b) For temperature..... c) For humidity..... d) Total de-rating.....	
6.	Net output on site in kW	
7.	Nominal speed in r.p.m.	
8.	Number of cylinders	
9.	Swept volume in litres	
10.	Compression ratio	
11.	Fuel consumption of the complete generating set on site of alternator output at in l/h: a) Full load..... b) $\frac{3}{4}$ load..... c) $\frac{1}{2}$ load..... NOTE : A tolerance of 5% shall be allowed above the stated value of fuel consumption.	
12.	Make of fuel injection system.	
13.	Capacity of fuel tank in litres a) Primary..... b) Bulk.....	
14.	Method of reading tank fuel level, with electromechanical or electronic gauge? a) Primary tank..... b) Bulk tank.....	
15.	Where is the fuel gauge situated? a) Primary tank..... b) Bulk tank.....	
16.	Is water trap fitted in the fuel line system?	
17.	Is diesel fuel conditioner provided for the bulk fuel tank?	

NO	ITEM	REMARKS
18.	Is electric pump for filling the fuel tank included?	
19.	Is manual pump for filling the fuel tank included?	
20.	Method of cooling	
21.	Type of radiator, if water-cooled	
22.	Type of heater for warming cylinder heads, if required	
23.	Capacity of heater in kW, if required	
24.	Method of protection against high temperature	
25.	Method of protection against low oil pressure	
26.	Type of governor	
27.	Speed variation in % a) Temporary..... b) Permanent.....	
28.	Minimum time required for as assumption of full load after starting in seconds	
29.	Recommended interval in running hours for : a) Lubricating oil change..... b) Oil filter element change..... c) Decarbonising.....	
30.	Are all accessories and ducting of the radiator included?	
31.	Is engine naturally aspirated or turbocharged?	
32.	Are performance curves attached?	
33.	Noise level inside the generator enclosure in dB	N/A
34.	Noise level at 5 000mm from the closed enclosure in Db a) Engine exhaust outlet..... b) Hot air discharge louvre.....	
35.	Is engine exhaust system as specified?	
36.	% Load acceptance to BS 5514, Part 4, with 10% transient speed drop	

B. ALTERNATOR

NO	ITEM	REMARKS
1.	Maker's name	
2.	Country of Origin	
3.	Maker's Model No and year of manufacture	
4.	Type of enclosure	
5.	Nominal speed in r.p.m.	
6.	Number of bearings	
7.	Terminal voltage	
8.	Sea level rating kVA at 0,8 power factor	
9.	De-rating for site conditions	
10.	Input required in kW	
11.	Method of excitation	
12.	Efficiency at 0,8 power factor and : a) Full load..... b) $\frac{3}{4}$ load..... c) $\frac{1}{2}$ load.....	
13.	Maximum permanent voltage variation in %	
14.	Transient voltage dip on full load	
15.	Voltage recovery on full load application in milliseconds	
16.	Is alternator brushless?	
17.	Class of insulation of windings	
18.	Is alternator suitable for tropical conditions?	
19.	Symmetrical short circuit current at terminals in Amperes	
20.	Type of Coupling between engine and alternator	
21.	Is the alternator protected against a) Overload..... b) System faults..... c) Overvoltage..... d) Stator/Rotor winding temperature..... e) Internal generator faults.....	

C. SWITCHBOARD

NO	ITEM	REMARKS
1.	Maker's Name	
2.	Country of Origin	
3.	Is it free standing or mounted on the set?	
4.	Finish and colour	
5.	Ratio of current transformers	
6.	Make of the main circuit breaker	
7.	Rating of circuit breaker in Amps and fault level in kA	
8.	State the SA or international standard to which all circuit breakers conform	
9.	Setting range of overload trips	
10.	Setting range of instantaneous trips	
11.	Make of motorised change-over equipment	
12.	Rating of change-over equipment in Amps	
13.	T State the SA or international standard to which all circuit breakers conform	
14.	Are auxiliary contacts available on the motorised change-over equipment?	
15.	Make of Controller	
16.	Make and type of rectifier for battery charger	
17.	Is battery charger automatically selected for boost / float?	
18.	Maker's name for the alarm siren	
19.	Is the alarm siren of the continuous duty type?	
20.	Are potential free contacts from the alarm relay brought down to terminals for remote indication of alarm conditions?	
21.	If the manufacture of switchboard/control panel to be sub-let state name and address of specialist manufacturer?	

D. BATTERY

NO	ITEM	REMARKS
1.	Maker's Name	
2.	Country of Origin	
3.	Type of battery	
4.	Voltage of battery	
5.	Number of cells	
6.	Capacity in cold crank in Ah	
7.	Battery warranty period in months	

E. DIMENSIONS

NO	ITEM	REMARKS
1.	Overall dimensions of set including the switchboard and the enclosure in mm	
2.	Overall wet mass of the set including the switchboard and the enclosure in kg	
3.	Overall dimensions of the bulk tank including the fuel conditioner.	

F. SPARE PARTS AND MAINTENANCE FACILITIES

NO	ITEM	REMARKS
1.	Are engine and alternator spares available in the Eastern Cape?	
2.	Where are these spares held in stock?	
3.	What facilities exist in the Eastern Cape for the servicing of the equipment offered?	
4.	Where are these facilities available?	

G. GENERATOR ENCLOSURE

NO	DESCRIPTION	
1.	Construction material and thickness (submit proof)	
2.	Finish and colour	
3.	Number of access doors	
4.	Make and type of heavy duty door hinges	
5.	Sound attenuation material	
6.	Exhaust silencer mounted within the enclosure or external?	
7.	Method of sealing doors	
8.	Type of corrosion resistant fasteners	
9.	Roof pitch	
10.	Make and type of light fitting	
11.	Easily accessible 16 Amp switched socket outlet provided?	
12.	Facility provided for the storage of ear muffs	
13.	State notices provided:	

H. DEVIATION FROM THE SPECIFICATION AS AN ALTERNATIVE (STATE BRIEFLY)

NO	DESCRIPTION

.....
Signature

.....
Date

.....
Position

.....
Name of Tenderer