



TABLE OF CONTENTS

DOCUMENTS THAT RELATE TO THE TENDER (ALL RETURNABLE)	
Doc. Number	Document
DW106	ADVERT
ANNEXURE 7	INSTRUCTION TO BIDDERS: PURCHASES
SBD 1	INVITATION TO TENDER
SBD 6.1	PREFERENCE POINTS CLAIM FORM I.T.O PPR, 2022:
ANNEXURE C	DECLARATION OF LOCAL CONTENT
SBD 4	DECLARATION OF INTEREST
SBD 3.1	PRICING SCHEDULE – FIRM PRICES (PURCHASES)
	GENERAL CONDITIONS OF CONTRACT

DOCUMENTS THAT RELATE TO THE CONTRACT	
Doc. Number	Document
	TECHNICAL SPECIFICATION/PHOTOS/DRAWINGS/BOQ
	EVALUATION CRITERIA
	SITE INSPECTION CERTIFICATE



**DEPARTMENT OF WATER AND SANITATION
REPUBLIC OF SOUTH AFRICA**

DUE AT 11:00 AM ON

23 FEBRUARY 2024

WTE-0039ES

THE MAINTENANCE OF HOUSES AT MIDMAR DAM

SUBMIT TENDER DOCUMENT

TO

POSTAL ADDRESS:
SUPPLY CHAIN MANAGEMENT
OFFICE:
WATER AND SANITATION
PRIVATE BAG X 24
HOWICK, 3290

**NB: PLEASE QUOTE TENDER
NUMBER**

TO BE DEPOSITED IN:
THE TENDER BOX AT THE
ENTRANCE
OF MIDMAR DAM GUARDHUT
MIDMAR DAM
NB: PLEASE COMPLETE REGISTER

TENDERER: (Company address and stamp)

COMPILED BY: DEPARTMENT OF WATER AND SANITATION:

DEPARTMENT OF WATER AFFAIRS

INSTRUCTIONS TO BIDDERS: PURCHASES

1. The standard bidding forms should not be retyped or redrafted but photocopies may be prepared and used. Additional offers may be made of any item but only on a photocopy of the page in question or on other forms obtainable from the Head of Procurement: Department of Water Affairs, Private Bag X313, Pretoria, 0001, Attention: Supply Chain Management Office. Additional offers made in any other manner may be disregarded.
2. Should standard bid forms not be filled in by means of mechanical devices, for example typewriters, ink, preferably black, must be used to fill in bids.
3. Bidders shall check the numbers of the pages and satisfy themselves that none are missing or duplicated. No liability shall be accepted in regard to claims arising from the fact that pages are missing or duplicated.
4. Where items are specified in detail, the specifications form an integral part of the bid document and bidders shall indicate in the space provided whether the items offered are to specification or not.
5. In respect of the paragraphs where the items offered are strictly to specification, bidders shall insert the words "as specified".
6. In cases where the items are not to specification, the deviations from the specifications shall be indicated.
7. The bid prices shall be given in the units shown.
8. With the exception of basic prices, where required, all prices shall be quoted in South African currency.
9. Delivery basis:
 - (a) Supplies which are held in stock or are in transit or on order from South African manufacturers at the date of bid, shall be offered on a basis of delivery into consignee's store or on his site within the free delivery area of the bidder's centre, or carriage paid consignee's station if the goods are required elsewhere.
 - (b) Notwithstanding the provisions of paragraph 9(a), bid prices for supplies in respect of which installation/erection/assembly is a requirement, shall include ALL costs on a basis of delivered on site as specified.
10. Unless specifically provided for in the bid document, no bids transmitted by telegram, telex, facsimile, e-mail or similar apparatus shall be considered.

ANNEXURE 7

11. Bids received after the closing date and time are late and will as a rule not be accepted for consideration.
12. Bids will be opened in public, that is, bidders or their representatives may be present. If requested by any bidder, the names of bidders and if practical the total amount of each bid and of any alternative bids, will be read aloud.
13. The period for which offers are to remain valid and binding is indicated in the bid documents and is calculated from the closing date on the understanding that offers are to remain in force and binding until the close of business on the last day of the period calculated and if this day falls on a Saturday, Sunday or public holiday, the bid is to remain valid and binding until the close of business on the following working day.
14. These conditions (Annexure 7) form part of the bid and failure to comply therewith may invalidate a bid.
15. Bidders are requested to promote local content optimally. Bidders who use locally manufactured components, products, equipment and systems, may claim preferences as set out in the Preference Points Claim Form, if attached.
16. After public opening of bids, information relating to the examination, clarification and evaluation of bids and recommendations concerning awards will not be disclosed to bidders or other persons not officially concerned with the process, until the successful bidder is notified of the award. The bid documentation of bidders is considered to be confidential and will under no circumstances be made available to other bidders or other persons.
17. If you are a supplier but not the actual manufacturer and will be sourcing the product(s) from another company, a letter from that company(ies)/supplier(s) confirming firm supply arrangement(s) in this regard, has to accompany your bid and failure to submit the document may invalidate your bid.
 - 17.1 The said company/supplier must confirm that it has familiarised itself with the item description, specifications and bid conditions and if the bid consist of more than one item it should be clearly indicated in respect of which item(s) the supportive letter has been issued.
18. The financial standing of bidders and their ability to manufacture or to supply goods or to render a service may be examined before their bids are considered for acceptance.
19. The Department may, where a bid relates to more than one item, accept such bid in respect of any specific item or items and also accept part of the specified quantity of any specific item or items.
20. The Department is not obliged to accept any bid. The evaluation of a bid will be done in accordance with the Preferential Procurement Policy Framework Act, 2000 (Act no. 5 of 2000) and its regulations.

ANNEXURE 7

21. After approval of the bid, both parties must sign a written contract. The Contract Form must be filled in duplicate by both the successful bidder and the purchaser. Both Contract Forms must be signed in the original so that the successful bidder and the purchaser would be in possession of originally signed contracts for their respective records.
- 21.1 Failure of the successful bidder to sign the Contract Form in ink may result in the invalidation of their bid.

July 2004

Special Conditions of Bid: Purchases

Tender Notice and Invitation to Tender

THE MAINTENANCE OF HOUSES AT MIDMAR DAM

Employer Tender Number: WTE-0039ES

cidb Reference Number: 100091700

DEPARTMENT OF WATER AND SANITATION EASTERN OPERATIONS (KZN) INVITES TENDERS FOR THE MAINTENANCE OF HOUSES AT MIDMAR DAM

It is estimated that tenderers should have a cidb contractor grading of 2GB or 2CE or higher.

NO DEPOSIT REQUIRED. DOCUMENTS WILL BE AVAILABLE ON THE NATIONAL TREASURY E-TENDER WEBSITE. BIDDERS ARE RESPONSIBLE FOR THE PRINTING OUT OF THEIR OWN DOCUMENTS.

Queries relating to the issues of these documents may be addressed to:

NIRDOSH PUNCHUM

Tel No. 0605874655

E-mail: PUNCHUMN@DWS.GOV.ZA

A compulsory clarification meeting with representatives of the Employer will take place at MIDMAR DAM: HOUSES NUMBER 5-7 on 14 February 2024 starting at 11h00.

The closing time for receipt of Tenders is 11h00 on Friday, February 23, 2024.

Emailed and Late Tenders will not be accepted.

Tenders may only be submitted on the tender documentation that is issued.

Requirements for sealing, addressing, delivering, opening and assessment of Tenders are stated in the Tender Data.



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

SITE INSPECTION CERTIFICATE:

NB-THE SITE INSPECTION AND BRIEFING IS COMPULSORY AND THIS CERTIFICATE MUST ACCOMPANY YOUR BID AS PART OF YOUR MANDATORY RESPONSE DOCUMENTATION.

WTE-0039ES: THE MAINTENANCE OF HOUSES 5-7 AT MIDMAR DAM

DATE: 14 FEBRUARY 2024

TIME: 11:00AM

This is to certify that I, _____
(bidder / representative of the bidder)*
of (Company's name & address) _____

telephone number

cell number

fax number

e-mail address:

in the company of (DWS REPRESENTATIVE) NIRDOSH PUNCHUM
visited and examined the site on (date) 14 FEBRUARY 2024

after having previously studied the bid documents.

I have acquainted myself with all the local conditions likely to influence the work and the cost thereof.
I further certify that I am satisfied with the description of the works and the explanations given by the

said

engineer and that I understand perfectly the work to be done as specifically implied in the execution of
the
contract.

SIGNED BY:

COMPANY: _____

BIDDER / REPRESENTATIVE:* _____

ENGINEER / REPRESENTATIVE:* _____

* Delete if not applicable.



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

BRANCH: INFRASTRUCTURE MANAGEMENT

CD: WATER RESOURCES INFRASTRUCTURE OPERATIONS AND MANAGEMENT

D: OPERATIONS EASTERN

SUB-DIRECTORATE: TECHNICAL SUPPORT SERVICES (TSS)

TECHNICAL SPECIFICATION

UMNGENI RIVER GWS: MIDMAR DAM: MAINTENANCE ON HOUSES NEAR OFFICES

MAY 2023

INDEX TO TECHNICAL SPECIFICATION**Page**

1	INTRODUCTION	2
1.1	GENERAL BACKGROUND INFORMATION.....	2
1.2	DIRECTIONS TO THE DAM – CONSTRUCTION SITE.....	2
1.3	UPGRADING OF THE HOUSES	2
2.	SCOPE OF WORK AND APPLICATION OF CLAUSES.....	3
3.	MATERIALS AND METHODS.....	6
4.	CONDITIONS OF CONTRACT.....	35
5.	OCCUPATIONAL HEALTH AND SAFETY.....	40
6.	MODIFICATIONS.....	42
7.	MEASUREMENT AND PAYMENT.....	42
8.	BILL OF QUANTITIES.....	42
9.	DRAWINGS.....	42

TECHNICAL SPECIFICATIONS

MAINTENANCE ON HOUSES No.5-7 at MIDMAR DAM

1 INTRODUCTION

1.1 General background information

Midmar Dam is situated on the Mgeni River in the KwaZulu Natal Province. The dam was designed and constructed by DWS and completed in 1965. The houses were constructed to accommodate staff / personnel that are positioned at the dam. Since construction there has been little or no maintenance work and therefore the need for this maintenance work to extend the remaining useful life of this asset.

1.2 Directions to the site:

On the N3 western bound, take the Howick / Midmar offramp. Follow the Prospect Road/ R103 towards the Dam wall. After approximately 3,0km turn left at the security gate, proceed straight for 500m. Before the sliding security gate, make sharp turn to the right. Houses 5-7 will be found.



1.3 MAINTENANCE WORK ON HOUSES AREA A AT MIDMAR DAM

The Houses shown below had little / no maintenance work done on it since construction. The roof tiles of the garage and house have become dull / faded and needs to be high pressure cleaned, after waterproofing has been reinstalled. The gutters are dysfunctional and even broken off at places and needs to be replaced at both buildings. The ceiling paintwork is peeling off as poor-quality paint and workmanship have been used. The exterior walls have not been painted and are covered with cobwebs, nests and hornets/wasps' hives. A good quality exterior paint / labour is required. The built-in cupboards are non-existing throughout the house and therefore safe storage is not possible. The plumbing of the bathroom, toilet, kitchen, maids' washroom, and laundry room needs attention and replacement with matching, water saving sets. All windows need putty to be reinstalled and the ones with broken glass to be replaced, with the frames/sills then painted. The burglar guards are also in poor condition and needs to be stripped, rust coated and sprayed



Figure 1 House No. 7



Figure 2 House No. 6



Figure 3 House No. 5

2. SCOPE OF WORK

THE 3 HOUSES NEED THE FOLLOWING TO BE DONE:

1.	SITE CLEARANCE
2.	REMOVE ROOF TILES, REPLACE BROKEN/MISSING WOODEN BEAMS ON TRUSS INSTALL WATERPROOFING, PUT BACK ROOF TILES
3.	HIGH PRESSURE SPRAY ROOF TILES
4.	REMOVE OLD GUTTERS AND DOWNPIPES
5.	REMOVE FASCIA AND BARGE BOARDS
6.	POLYFILL , SANDPAPER AND PAINT EXTERIOR WALLS
7.	INSTALL BARGE AND FASCIA BOARDS
8.	INSTALL ALUMINIUM GUTTERS
9.	INSTALL ALUMINIUM DOWNPIPES.
10.	POLYFILL, SANDPAPER AND PAINT ALL INTERIOR CEILINGS, INCLUDING SOFFITS
11.	REPLACE BROKEN GLASS
12.	INSTALL BIC'S KITCHEN, MAIDSROOM AND FACING ON BEDROOM UNITS
13.	INSTALL MOSUITO MESH ON OPENING WINDOWS
14.	REMOVE RUST, SANDPAPER, APPLY RUSTCOAT TO ALL WINDOW AND BURGLAR BARS
15.	REPLACE GARAGE DOORS
16.	TILE OUTBUILDING BATH WALLS AND FLOOR AND SHOWER CUBICLE
17.	REPLACE DOORS / MECHANISM
18.	REPLACE TOILET SETS, SHOWER CUBICLE IN MAIDS ROOM WITH ACCESSORIES
19.	REPLACE TOILET SETS, SHOWER CUBICLE DOOR, BATHTUBS WITH ACCESSORIES
20.	TIDY SITE AND HANDOVER

APPLICATION OF CLAUSES

- 2.1 The materials and methods to be used in the execution of this contract shall be in accordance with the various clauses in this specification, in so far as they apply (e.g., where drains are shown on the drawings to be connected to a municipal sewer, the clause on french drains would obviously not apply or where no ceilings are installed, obviously specifications regarding ceilings would not apply).
- 2.2 **All work, methods and materials described in these clauses under subsection 1 of this section B (I) are intended to amplify the rest of the specifications contained in subsections 2 to 12 of this section B (I), and the drawings, and in certain instances to modify the contents.**
- Should any discrepancy appear between clauses in subsection 1 and the rest of the specifications, these clauses shall take precedence. Subsections 2 to 12 are the general standard for workmanship and materials to comply with in this contract. See also column in Schedule of Quantities marked REF (reference) for applicable clause.
- 2.3 All work **shall in addition comply with SABS Code 0400 of 1990** (National Building Regulations as amended).
- 2.4 SABS 1200
- (a) Preliminary & General costs shall be according to SABS 1200 A.
 - (b) Plasterer, tiler and floorer shall be according to DWS 1720
 - (c) Glazing and painting shall be according to DWS 1730
 - (d) Plumbing shall be according to DWS 1740
- A copy of all the DWS codes mentioned above will be attached.

- 2.4 **Materials** used shall be of the **best quality available** locally provided that -
- materials **comply** in all respect to the requirements of the **SABS** specification.
 - availability** will not hinder the **progress** of the works; and
 - the **price** of such material is **competitive** with those elsewhere available of the same specification.
- 2.5 Should any of the items or materials be **unobtainable**, then the tenderer must **state** what **substitute** items or materials he proposes to use.
- 2.6 **The following items will only apply as indicated hereunder:**
- 2.6.1 **Electric stove**, as specified below **shall be** provided.
- 2.6.2 **Water heating by electricity**, as specified in clause 9.43 **shall be provided**.
- 2.6.3 **Floor finishes shall be as follow notwithstanding the contents of clause 8.13:**
- Lounge and dining room, Parquet tiles polished and shined
 - Maid Bathroom wall and floor – ceramic tiles and 75 mm ceramic tile skirting.
 - Maid shower cubicle – ceramic tiles and tile skirting, floor mosaic non slip tiles
 - Laundry room - floor tiles
- 2.6.4 Door and door frames shall be according to specifications shown and detailed as per description
- 2.6.5 **Bargeboards** shall be 230x80 socketless fibre cement, with H profiled jointers where necessary and fitted to gable ends, primed, and painted. Barge boards shall be fixed to 76 x 38 timber beams fixed to 76 x 38 x 300 long timber sprockets which shall be fixed with 75 mm long brass counter sunk screws (dia No. 14) underneath overhanging end of every third tile batten. Bargeboards shall be screwed to supporting beam with an indented hexagon head (unslotted) steel self-tapping Electro-plated roof screw (size M6 x 50) with 20mm dia galvanised washer and neoprene seal backing. All exposed roof timber overhanging the walls shall be treated with creosote prior installing of membrane, roof tiles, bargeboards and fascias.
- 2.6.6 Mirror shall be supplied and installed in bathroom:
One 450x900 mm (vertical) on wall adjacent to wash hand basins in "bathroom and maids bathroom". The mirror shall be of minimum 6 mm thickness, bevel edged, and screw fixed with chrome plated domed caps to screws.
- 2.6.7 Provide and fit in **kitchen**, a **stainless-steel double bowl sink** and drainer unit as specified in clause 6.28 but 1,160 m long.
- 2.6.8 Wall tiling as described in clause 8.7 but to the following heights:
Maids Bathroom – Wall to Wall tiles separated by 100mm Mosaic tile as specified
Kitchen – Wall to wall above sink and cupboard units on as specified.
Laundry Room – Tiles above sink replaced to dimensions provided
- 2.6.9 According to clause 11.9 the **ceilings** shall be finished with two coats of approved **emulsion paint, colour to be specified by the Engineer**. Notwithstanding clause 11.10 all **internal walls** shall be finished with a **water-based wash and wear acrylic paint** such as Dulux Silk or Plascon Double Velvet or equal quality approved paint after primer specification. All paint specifications shall be in strict accordance with the manufacturer's instructions.
- 2.7 **Where alternative materials and methods are specified, the following only shall apply to this contract:**
- 2.7.1 The **roof covering - concrete tiles**, need to be high pressure sprayed such that the tiles are free of moss and grime.
The roof tiles should try to be restored to their original colors.
- 2.7.2 **Flashings, gutters and rainwater pipes** shall be of **galvanised sheet metal** as specified and painted with galvogrip metal etch primer and one coat roof paint to match the roof colour. Dimensions provided in drawings.
- 2.7.3 Steel window catches, missing ones to match existing ones
- 2.7.4 **Garage doors** shall be removed and replaced with fully functional doors.
- 2.7.5 **Tenderer's attention is drawn to the following clauses, wherein it is stated:**
- Clause 9.3: Drainpipes and fittings underground shall be of vitrified clay with Hepsleve couplings.
Alternatively, a PVC class 34 may be used in lieu of clay provided that only clay pipes are used in the septic tank/french drain.

- (ii) Clause 9.29 to 9.39: Alternatively, all soil, waste and ventilation pipes above ground may be of uPVC material complying with SABS 967.
- (iii) Clause 12.9.1: Electric conduit shall be stove enamelled jet-black steel or alternative as of uPVC material. No other alternative material for the above will be acceptable.

2.6 The following is also applicable to this contract:

2.6.1 The following products shall, in addition comply with the requirements of the relevant SABS specification and bear the standardisation mark of the South African Bureau of Standards:

Locks	Clause 6.17
	Clause 6.18
	Clause 6.19
	Clause 6.20
Solid core flush doors	Clause 6.19

2.6.2 **Burglar proofing** installed to all windows:

Burglar proofing must be stripped of old paint. A rust proof coat must be applied, followed by high gloss enamel paint to match the window sills.

3. **Built-in cupboards per house:**

Kitchen: should conform to dimensions provided. To match/overlap old unit layout as no floor tiles under existing units

Bedroom 1: dimensions provided; pattern/layout shelving as provided in drawings

Bedroom 2: dimensions provided; pattern/layout shelving as provided in drawings

Bedroom 3: dimensions provided; pattern/layout shelving as provided in drawings

Maid room: dimensions provided; pattern/layout shelving as provided in drawings

4. **Anti fly/mosquito window mesh screen:**

To be placed over each opening window, as per dimensions provided on drawings.

MATERIALS AND METHODS

1. **PRELIMINARY AND GENERAL CLAUSES**

1.1 Director-General - The term "Director-General", where used in this Specification, shall mean the Director-General for the Department of Water and Sanitation or his duly appointed representative.

1.2 Conditions of contract - The "Articles of Agreement", to be entered into and the "Conditions of Contract" are contained in the "Lumpsum Contract Agreement" of the Department of Water and Sanitation, which document may be perused at Head Office or at the offices of the various Regional Representatives. Tenderers are referred thereto for the full intent and meaning of all clauses, as no claim for extras resulting from the contractor's ignorance of such clauses shall be entertained.

1.3 Tender to be on official form - Tenderers must submit their tenders on the official FORM OF TENDER supplied for that purpose, which must be completed in all particulars. If the form of tender is amended in any way, such tender might be regarded as qualified and in validated accordingly.

1.4 Interpretation of tender documents - The tenderer must check the documents issued to him and, if any part or parts thereof are found to be missing, duplicated, illegible or insufficiently described, or if the documents contain obvious errors or discrepancies, he should apply immediately to the Director-General for clarification, failing which the Contractor shall be liable to make, at his own expense, any alterations or substitutions to the works rendered necessary through incorrect interpretation of such documents. In the event of discrepancies between the drawings and specifications, the latter shall apply.

It is to be clearly understood that this is a Lumpsum Contract, which makes provision only for the re-measurement of certain items as specified in the "Schedule of Quantities".

The specification and drawings describe, as far as it is possible, the work to be done and materials to be used, but everything incidental to the works or not described but clearly implied, shall be performed by the Contractor.

1.5 View site - Tenderers are advised to visit the site on which the buildings are to be erected and to make themselves thoroughly acquainted with the nature of the site and soil conditions, facilities for access, the conditions under which

the work is to be executed, all other matters which may influence the works and any restrictions or conditions which may be imposed by Municipal or other Authorities, as no claim will be entertained on the grounds of ignorance of such conditions.

- 1.6 Site pegs - The Survey Pegs of the site will be pointed out to the Contractor, who must deposit with the Director-General a written receipt in respect thereof and take full responsibility thereafter for the work being set out correctly in accordance therewith and for any peg displacements or cost of resurveying.
- 1.7 Dimensions, etc. - All weights and measures shall be taken to be to the metric system, in accordance with the Systeme International d'Unités (SI). Figured dimensions are to be followed in preference to scaled measurements. As the sizes of some materials and articles are subject to changes due to metrication, the approval of the Director-General to use sizes other than those specified shall not be unreasonably withheld.
- 1.8 Materials and workmanship - The work shall be executed with materials of the best quality and in the most substantial manner and to the entire satisfaction of the Director-General.
- 1.9 Samples - The Contractor shall furnish such samples as may be called for by the Director-General, who may reject all subsequent materials not corresponding with the approved samples.
- 1.10 Protection from storms, etc. - The Contractor shall protect the works adequately from all storms, surface, and underground water and from inclement weather to the satisfaction of the Director-General.
- 1.11 Plant, water, electricity, etc. - The Contractor shall provide all plant, tools, labour, materials, cartage, scaffolding, temporary shuttering, water, electricity, etc., necessary for the due and proper completion of the work. Only clean, fresh water, free from vegetable or organic matter, earth, clay, acid, or alkaline substances, either in suspension or solution, shall be used, and the Contractor shall make his own arrangements with the local authority or Government Departments as required for the supply of water for building purposes.
- 1.12 Sheds and latrines - The Contractor shall erect, maintain, and remove at the completion of the work, ample temporary sheds for the proper storage of perishable materials and latrines for the use of the workmen.
- 1.13 Lighting, watching and guard railing - The Contractor shall provide all necessary lighting, watching and guard railing to the satisfaction of the Director-General and Local Authority.
- 1.14 Notice board - The Contractor shall erect and maintain and remove at the completion of the work, a notice board, size 1 200 x 1 000 mm, with lettering neatly executed thereon as shown on the drawings.
- 1.15 Articles of value - Any articles of value found on the site shall be handed to the Director-General, who shall be the sole judge as to what constitutes articles of value.
- 1.16 Rubbish - All superfluous material, earth and rubbish that may accumulate during the progress of the works shall be carted away.
- 1.17 Workmen's' insurance - The Contractor shall insure his workmen in terms of any Workmen's' Compensation Act in Force and shall indemnify the Director-General from any claims thereunder.
- 1.18 Anti-malaria precautions - The Contractor's attention is drawn to the need for compliance with the Regulations promulgated under the Public Health Act, No. 36 of 1919, in certain areas.
- 1.19 SABS specifications - All references to South African Bureau of Standards specifications and codes of practice shall be deemed to be references to the latest issues, of such specifications and codes, as may be amended from time to time. When called for by the Director-General, proof shall be furnished by the Contractor of compliance of a product with the relevant SABS Specification.
- 1.20 Materials to be of South African manufacture - Materials manufactured or produced in the Republic of South Africa shall be used, wherever possible, in carrying out the work to which this specification refers.

2. EXCAVATOR

- 2.1 Clearing site - The whole area of the ground to be paved or built upon and to an extent of at least 2 m beyond the building boundaries shall be cleared of all rubbish, debris, trees, tree stumps and roots, vegetable matter, etc. Where fences are required, the ground shall be roughly levelled, and trees and shrubs removed.
- 2.2 Excavations - Trenches and holes for foundations shall be excavated to the several lengths, widths and depths shown on drawings or to such other depths as may be directed by the Engineer to ensure a good foundation. Bottoms of trenches and holes shall be level and well rammed and sides shall be trimmed the full width from top to bottom. The bottoms of trenches shall be stepped in brick course dimensions as shown or required. Any excavations taken out too deep shall be made up to the correct levels with concrete composed of one part

Portland cement, four parts sand and eight parts 50 mm stone.

The Engineer must approve excavations before concrete is laid.

The ground outside the buildings, shown to be reduced in levels, shall be excavated, and levelled or graded to falls as shown on the drawings or as directed and in such a manner as to obviate any damming of water around or against buildings. Sloping banks shall be of such angles as will maintain the stability of the ground above, but not exceeding 45°, and shall be neatly trimmed.

Perform, as may be required, all planking and strutting to sides of excavations.

No water shall be allowed to accumulate in any portion of the excavations.

- 2.3 Filling - Filling to foundations, etc., and under solid floors, shall be of approved clean earth, free of clay, watered and well rammed in layers not exceeding 250 mm thick.

The ground outside the building, shown to be made up, shall be made up with earth filling as above, finished level or graded to falls, as shown on the drawings or as directed and in such a manner as to obviate any damming of water around or against buildings. Sloping banks of made-up ground shall be of such angles as will maintain the stability of the ground above, but not exceeding 45°, and shall be neatly trimmed.

Flower boxes shall be filled to within 50 mm of the top with soil on a 150 mm percolation bed of crushed stone or brick.

- 2.4 Surplus earth - All surplus earth and other materials from the excavations shall be deposited and levelled on the site or carted away as directed.

- 2.5 Demolition of existing buildings - Where existing buildings are shown on the drawings to be demolished, the Contractor shall allow for the demolition, including grubbing up of all foundations, removal of old drains and water pipes etc. and filling the excavations with earth, well rammed to natural ground level. The old material shall become the property of the Contractor, shall not be used in the construction of the new buildings, and shall be removed from the site. Where directed, the old buildings shall not be demolished until the new buildings are ready for occupation. The Contractor shall, where required, arrange for the services to such buildings to be disconnected.

3. CONCRETOR

- 3.1 Cement - Cement shall be Portland cement complying with the requirements of SABS Specification 471, or PC15 complying with the requirements of SABS Specification 831 and shall bear the Standardisation mark of the South African Bureau of Standards.

- 3.2 Sand (fine aggregate) and stone (coarse aggregate) - The fine and coarse aggregates shall comply with the requirements of SABS Specification 1083 (for use in concrete) to the satisfaction of the Director-General.

- 3.3 Concrete - Class Some concrete shall be composed of one part cement, three parts sand and five parts stone size 38 mm. Alternatively, a concrete mix maintaining a 28-day cube strength of 15 MPa will be accepted. Class B concrete shall be composed of one part cement, two-and-a-half parts sand and three-and-a-half parts stone, size 19 mm. Alternatively, a concrete mix maintaining a 28-day cube strength of 25 MPa will be accepted. Unless otherwise specified, class A concrete shall be used for mass concrete, such as footings, surface beds, etc., and class B concrete for reinforced concrete. The proportions given above are by volume and approximately only. It may be varied at the discretion of the Engineer to obtain the required density and workability of the concrete. The ingredients are to be thoroughly dry mixed until there is a uniform distribution of materials and the mass is of uniform colour and consistency. Only sufficient water shall be used that will allow of thorough mixing and that will enable the concrete to be placed and compacted.

- 3.4 Concreting - Lay concrete to the various depths, widths and lengths shown on the drawings. The concrete shall be placed within half-an-hour of mixing and shall be thoroughly worked and puddled as it is being placed, to prevent holes being formed and to ensure that it entirely surrounds the reinforcement and is worked up against the sides of the forms. Concrete is to be kept continuously damp for at least three days after placing. No brickwork shall be laid on concrete footings until at least two days after placing in the case of mass concrete and seven days in the case of reinforced concrete. Allow for all necessary temporary formwork for any concrete requiring moulds or forms. Formwork soffits shall remain in position for at least 14 days after concreting. Where lintels are shown to be of reinforced concrete, they shall be cast 450 mm longer than the width of openings and be separated from brickwork by covering the bearing surfaces and sides with malthoid sheeting. Yard paving shall be laid with falls as shown or directed in panels not exceeding 6 m² in area, with 10 mm joints formed by installing soft board inserts.

Driveways and paths shall be laid in panels not exceeding 3 m in length, with 10 mm joints.

- 3.5 Pre-cast pre-stressed lintels - Where shown, pre-cast, pre-stressed concrete lintels, manufactured by an approved firm to the satisfaction of the Director-General, shall be of vibrated concrete reinforced with stressed high tensile steel wires.
- 3.6 Rainwater channels - Lay pre-cast concrete rainwater channels, approximately 750 mm long x 300 mm wide x 100 mm deep overall, under all rainwater down pipes.
- 3.7 Polyethylene film - Before concrete surface beds are laid, a 0.25 mm thick (250 microns) low density blown polyethylene continuous film, green in colour and complying with SABS 952, Type C, shall be laid over the filling and internal foundation walls, except to verandas, porches, and out-buildings.
- 3.8 Vehicular access to site - Where no pavement access exists for the entry of vehicular traffic to the site, or where the existing access is not in the required position, the Contractor shall apply to the Local Authority for and pay the cost of the construction of such access.

4. BRICKLAYER

- 4.1 Cement - Cement shall be as described in clause 4.1.
- 4.2 Sand - Sand shall comply with the requirements of SABS Specification 1090.
- 4.3 Cement mortar - Cement mortar, unless otherwise specified, shall be composed of five parts by volume of sand and one part by volume of cement, mixed dry on a clean, impervious surface until of uniform colour before water is added. Mortar shall be mixed in small quantities, as no mortar that has commenced to set shall be used.
- 4.4 Burnt clay bricks - Bricks shall be burnt clay bricks complying with the requirements of the various categories of SABS Specification 227 as follows:
 - a. Bricks for general building work ("common" or "stock" bricks) - "General purpose" bricks.
 - b. Bricks for "fair face" work - "General purpose (special)" bricks.
 - c. Facing bricks - "Facing" bricks.

All bricks shall be of standard metric sizes as may from time to time be determined or revised.

Brick Type Texture Base Colour Using Dimension ISO Typical Comp Strength Absorption	Face Brick Travertine Orange Masonry 222 X 106 X 73 mm 9001:2008 17-30 8-11
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- Any variation in bricks sizes from the dimensions indicated on the drawings for one brick or half brick widths shall be taken up in the room dimensions (i.e., the overall dimensions of the buildings shall remain unaltered).
- Before the contract is signed, the Contractor must submit samples of the bricks he intends to use to the Employers' Representative of the Department of Water and Sanitation and all bricks subsequently used must conform to the approved samples.
- 4.5 Damp-proof course - Damp-proof course shall bear the standardisation mark of the SA Bureau of Standards and shall be of bituminous sheeting complying with the requirements of SABS Specification 248 (Type GH or Type FV sheeting), or SABS Specification 92 (Type 60 sheeting) or shall be of polyethylene sheeting complying with the requirements of SABS Specification 952 (Type A - plain surface 0.46 mm thick, 450 microns, or Type B - embossed surface 0.38 mm thick, 375 microns, laid without longitudinal joints and lapped 150 mm at end joints, angles and intermediate junctions. Damp-proof courses shall be kept back 10 mm from the external faces of walls and pointed in cement mortar.
 - 4.6 Wire ties - Wire ties where specified, shall comply with the requirements of SABS Specification 28, spaced at not more than 1 m centers alternately to every third course of brickwork.
 - 4.7 Brickwork generally - Brickwork shall be built to the lengths, heights and thicknesses shown in cement mortar and, wherever practicable and not otherwise specified, shall be in stretcher bond.
Bricks shall be well saturated with water and laid on a solid bed of mortar, with all joints grouted up solid throughout the whole width of each course.
The brickwork shall be carried up plumb and true to line in a uniform manner, built hard up against frames, linings, and windows, etc., and no one portion shall be raised more than 1 m above another at one time. None but whole bricks shall be used, except where required to form bond.

Mortar joints in brickwork generally shall not exceed 12 mm in thickness and joints shall be raked out whilst soft to form key for plaster or tiling or shall be flushed off in readiness for bagging etc., as the case may be.

Cavity walls and one brick wall is built with two half brick thicknesses tied together with wire ties. The cavities shall be carried up from one course of brickwork below damp-course level to two courses below roof plate level. At door window and other openings, the cavities shall be stopped a half brick width from jambs with the inner thickness of brickwork returned and stopped against the other thickness and not bonded to same, and with a 100 mm strip of damp-proof sheeting built in the joint so formed, lapped 50 mm on to the sheeting at sills and lintels. Cavities shall be stopped one course below, one course above and a half brick width from the sides of airbricks and the like. Cavities shall be kept free of all rubbish, mortar droppings and projecting mortar.

Cavities in foundation walls are to be filled solid with class B concrete to within one course below damp course level. Damp-proof sheeting to sills shall be built in line with the sheeting in jambs and extend a half brick width beyond the jambs of openings. Where facing bricks are specified, the facings shall commence not less than two courses below finished ground level. One type of facing brick shall be used throughout to each house and its outbuilding.

- 4.8 Reinforced brick lintels - Lintels shall be of reinforced brick, wherever practicable, and shall be of the minimum number of courses laid down in the table hereunder, for the various spans, built in 3 to 1 cement mortar with all joints filled solid. Reinforcing wires or rods, as laid down in the table, shall be built into and starting at the first joint over the bottom course.

Clear span	No. of courses	Reinforcement
Not exceeding 1 m (including door openings	4	One row of 75 mm wide brick reinforcement of 3.55 mm main wires and 2.8 mm cross wires for each half brick width of soffit
Over 1 m to 1,5 m	6	Ditto.
Over 1,5 m to 2,5 m	6	Two 10 mm diameter mild steel rods for each half brick width of soffit
Over 2,5 m to 3 m	6	Three 10 mm diameter mild steel rods for each half brick width of soffit

The reinforcing wires and rods shall extend at least 320 mm beyond jambs of openings and shall be evenly spaced in the brick joints with the outer wires or rods having at least 20 mm cover from face of brickwork.

In brick lintels in cavity walls, the first two courses of brickwork shall be built solid, and the cavity above shall be filled with class B concrete for a depth of two courses to the full length of the lintel. In lintels in cavity walls, except where protected by eaves overhangs, the inner face of the outer brick thickness shall be covered for the full length of the lintel with damp-proof sheeting for a depth of four courses above the soffit, and the sheeting turned down over the concrete filling and the inner thickness of wall.

Lintels shall be supported on temporary formwork left in position for at least fourteen days.

- 4.9 Pointing - Except where otherwise specifically described all joints to facing bricks and klompje bricks shall be pointed with a keyed joint with a round jointing tool well pressed into the joints as the work proceeds. Other fair faced brick work shall be pointed with a keyed joint horizontally and vertical joints flushed off as the work proceeds. Fair-faced work is to be protected from injury and mortar splashes and thoroughly cleaned down on completion.

- 4.10 Bagged finish to brickwork - Bagged finish to brickwork, if done whilst the mortar in joints is still soft, shall be formed by rubbing over the wall surfaces with wet rough sacking until all joints and crevices are filled up and an even surface is obtained. Mortar, as used for building the brickwork, shall be added as may be necessary. If bagging to walls is done after the mortar in joints has set, the wall surface shall be rubbed over with wet rough sacking, but 3 to 1 cement grout shall be added as necessary to fill up the joints and crevices to obtain an even surface.

Bag all internal wall surfaces to garage and storeroom, except sills, window reveals and soffit of window lintels.

- 4.11 Beam filling - Unless otherwise specified, beam filling shall be half brick thick, built-in cement mortar, cut in between roof timbers and carried hard up to underside of roof covering with the roof covering bedded in cement mortar.

- 4.12 Building up - Door and windows frames and the like shall be set up in the positions for building in and securely strutted to prevent displacement whilst the brickwork, lintels, etc., are being built. Wood frames to doors shall be provided with cramps of 2 mm thick galvanised hoop iron, 38 mm wide, with ends

turned 50 mm up against frame and twice screwed to frame and built 450 mm into wall with end turned up into brickwork, no. 6 cramps to each frame.

Pressed steel doorframes shall be grouted in solid at back with cement mortar and lugs built in as the work proceeds.

Baths shall be built in with brick-on-edge wall to front, bedded tight up to underside of rim of bath and kept back from edge of rim for tiling or plastering as specified hereinafter.

Ends of timbers, holdfasts, airbricks, roof ties, etc., shall be built in as the work proceeds.

4.13 Raking out for and pointing flashings - Brick joints shall be raked out where required for fixing cover flashings, and flashing shall be pointed 3 to 1 cement mortar.

4.14 Air bricks - Air bricks shall be approved 225 x 150 mm vermin proof terra cotta louvered air bricks built into openings specified or shown elsewhere.

4.15 Anthracite heater - Where a fireplace is shown on plan, provide and install an approved free-standing anthracite heater, complete with asbestos cement flue pipes, of a size to provide sufficient heat for a room with a capacity of up to 115 m³ and constructed out of a cast-iron casing with the outer casing finished in vitreous enamel, fitted with a fire door with a heat resistant glass panel.

Form the hearth, as shown, with quarry tiles, klompje bricks, or facing bricks laid on edge, with all joints continuous, bedded and jointed in 3 to 1 cement mortar and pointed with a slight keyed joint.

5. CARPENTER AND JOINER

5.1 Structural timber - Structural timber shall be of South African Pine complying with the requirements of SABS Specification 653 in respect of branding and battens and SABS Specification 563 (merchantable grade) or 1089 (stocklam) in respect of other members and bear the standardisation mark of the South African Bureau of Standards.

Timber must be ordered in the dimension in which it will be used and must not be sawn into smaller cross-sectional sizes on the site.

Timber shall be in single lengths, but where a member exceeds 6 m in length it may be in two or more lengths,

jointed end to end by finger-jointing, complying with the requirements of SABS Code of Practice 096 and with the SABS mark over-stamped "FJ". The "FJ" mark shall be in red colour (indicating weather resistant adhesive in the joint) for timber to be used in positions exposed to moisture or to exterior conditions. The black "FJ" mark shall be permissible for interior use only.

Timber shall be dried to moisture content in equilibrium with its surrounding.

Laminated beams shall comply with the relevant SABS specifications, i.e., stock glued laminated timber, or structural glued laminated timber in accordance with SABS 876 and bears the standardisation mark.

Exposed structural timber, unless otherwise specified shall be wrought to a smooth surface and sandpaper to remove machine or other tool marks.

5.2

Joinery - All timber joinery shall, unless otherwise specified, be South African Pine complying with the requirements of SABS Specification 1098 (semi-clear) and bearing the standardisation mark. Imported softwoods may be used for the manufacture of doors and door frames for exterior use only, provided SA Pine to the above specification and laminated SA timber are not available, and provided that the imported timber complies with the relevant of the above specifications.

All joinery is to be manufactured under similar climatic conditions to those prevailing at the locality of the building site.

Skirting and the like shall be in long lengths with splayed heading joints and mitred or scribed at angles.

Solid timber shelving shall comply with the requirements of SABS specification 6544 and shall bear the Standardisation Mark of the SABS.

Exposed woodwork shall be wrought to a smooth surface and sandpaper to remove all machine and other tool marks, with minimum allowance off the nominal dimensions specified. All exposed angles of wrought work shall be slightly rounded.

The tolerance by which actual dimensions may vary from nominal dimensions specified shall be as laid down in the relevant SABS specifications.

Temporary covers against damage or discolouration shall protect all joinery.

5.3

Jointing of timber - Plates, purlins, battens, etc., shall be in single lengths, but where this is not possible the joints shall be formed as described below:

Plates shall be halved at joints, junctions and angles and well spiked together.

Purlins shall be splay jointed over the points of support and well spiked together.

Battens, slats, etc., shall be butt jointed at heading joints and mitred at angles, all over points of support.

5.4 Timber near flues and fireplaces - At least 100 mm of masonry shall be provided between timbers and smoke flues of fireplaces.

5.5

Fixing of woodwork - Woodwork shall be secured to walls with hardened steel nails driven into brickwork or with wire nails to wood plugs at 700 mm maximum centres, or by nailing to built-in breeze bricks.

Jamb linings and the like shall be fixed to 76 mm wide wood fixing slips, of thickness equal to the width of the brick joint and of length equal to the thickness of the wall, built into brick joints in such a manner as to permit nailing into cross grain.

Bands of 2 mm thick galvanised hoop iron, 38 mm wide (or double 3,2 mm diameter galvanised mild steel wire), wrapped around 150 mm x 10 mm diameter mild steel rods, built at least 5 courses deep into brickwork or 300 mm deep into concrete at centres not exceeding 1,5 m to coincide with roof trusses or rafters, shall be well lapped and spiked to adjacent trusses, rafters, or purlins.

- 5.6 Wood preservative - Attention is drawn to the need of having timber of certain magisterial districts preservatively treated, published in Government Gazette Notice R.451 of 28 March 1969.
Plates, ends of timbers built into walls, and backs of skirting and quadrant beads to skirting in services where all timbers are not required to be treated against infestation by insect pests, shall be given two good brush coats of Pentachlorophenol (SABS 42) before being fixed in position.
- 5.7 Roofs - Roof trusses shall be constructed of 114x38 mm timber as shown, all well spiked together and secured in addition with 10 mm diameter bolt, nut, and washer at intersections of tie beam, rafters, and king posts.
Prefabricated timber roof trusses as "Gang-nail" or other equal approved trusses may be used in lieu of the above. The Contractor shall be liable to supply a certificate issued by a professional engineer taking the responsibility for the safe design of all prefabricated trusses.
- Trusses and rafters shall be spaced as shown on drawings.
Where roofs are to be covered with galvanised iron or asbestos cement sheeting, purlins shall be size 76 x 50 mm on edge, spaced as shown or at 1,3 m maximum centres, securely cross spiked to rafters.
Where roofs are to be covered with clay or concrete tiles, battens shall be size 50 x 38 mm on edge spaced to suit the covering material, with tilting filets as required, all securely spiked to rafters.
Trim for chimney stacks and elsewhere, as required and provide 114 x 38 mm wind bracing as shown.
Valley and hip rafters, where required, shall be size 228 x 38 mm and each valley shall be formed with two 228 x 25 mm sawn boards spiked to roof timbers and with purlins or battens fixed along outer edge.
Gutters at back of chimney stacks and the like shall be formed with 228 x 25 mm sawn boarding laid with falls and with purlins or tilting filets, as required, fixed at top edges and gusset pieces at ends of boards. Secret gutters on the rake of clay and concrete tiled roofs, against chimney stacks, shall be 76 mm wide of 25 mm boarding, with batten nailed to edge of boarding.
Where electric hot water cylinders are required, bearers, supported on walls or tie beams, shall be provided to suit the cylinder.
- Fascia and bargeboards shall be 225 x 10 mm thick pressed asbestos cement. Where roofs are to be covered with clay or concrete tiles, spike a 50 x 38 mm bearer, along inner top edge of barge board, to 114 x 38 mm sprockets and cover with a 75 x 15 mm asbestos cement cover strip as detailed or alternatively use a one piece 275 x 80 asbestos cement socketless barge board.
- 5.8 Roof covering - The roofs of all houses (and the roofs of outbuildings, other than lean-to roofs) shall be covered with either clay or concrete roofing tiles, at the discretion of the Contractor.
Clay roofing tiles shall comply with the requirements of SABS Specification 632 and shall be of an approved colour.
Vertical joints and bottom edges of each course shall range perfectly straight. Eaves and ridge courses, every third course, verge tiles, and tiles at each side of hips and valleys shall be secured to battens with 1,6 mm diameter copper wire.
Hip and ridge tiles shall be half-round, of same material and manufacture as roofing tiles, with a minimum cover of 76 mm over the top course of tiling on each side and shall be bedded and pointed in 3 to 1 tinted cement mortar, with strips of bituminous sheeting laid under mortar bedding. Provide all hip and ridge junction tiles, stopped ends, etc., bedded and pointed as before.
Concrete roofing tiles shall comply with the requirements of SABS Specification 542, with natural stone granular finish, and of approved colour. In addition, the heads of tiles shall be provided with head lap anti capillary stops and triple weather bars.
Vertical joints and bottom edge of each course shall range perfectly straight. Eaves and edge courses, every third course, verge tiles, and whole tiles of each side of hips and valleys shall be secure to battens with galvanised nails.
Hip and ridge tiles for interlocking tile roofs shall be socketed V-type to match general tiling and shall be bedded and pointed in 3 to 1 tinted cement mortar, with strip of bituminous sheeting laid under mortar bedding.
The roofs of outbuildings with lean-to roofs shall be covered either with galvanised iron or asbestos cement sheeting as specified hereunder:
- 5.9 Asbestos cement gutters and rainwater pipes shall be either of asbestos cement, as specified hereunder or galvanised sheet iron, as specified in clause 9.24.
Asbestos cement eaves gutters shall be size 125 x 100 mm of approved manufacture, 9,5 mm thick, with spigot and socket ends, bedded in bituminous mastic compound and secured with 6 mm diameter galvanised gutter bolts provided with asphaltic felt and steel washers. Joints shall be finished externally with neatly troweled filets of 2 to 1 cement mortars.
The gutters shall be provided with all necessary angles, stopped outlet nozzles, etc., and shall be fixed with proper falls on galvanised steel or aluminium alloy gutter brackets, as supplied by the manufacturers of the gutters, at not exceeding 1 m centres.
Asbestos cement rainwater pipes shall be size 100 x 75 mm of approved manufacture, 7,9 mm thick, with spigot and socket ends, jointed with tarred rope gasket, caulked into each joint, and the joint filled in with mastic compound and finished off with neatly troweled filets of 2 to 1 cement mortar.

The pipes shall be provided with all necessary swan necks, branch pieces, plinth bends, shoes, etc., and shall be fixed to walls with galvanised steel or aluminium alloy holderbats, as supplied by the manufacturers of the pipes, bolted round pipes immediately below the sockets and with tails built into walls in 3 to 1 cement mortar.

- 5.10 Ceilings - Internal ceilings to all rooms, shall be 6.4 mm thick gypsum ceiling board complying with the requirements of SABS Specification 266 (and bear the standardisation mark of the SABS) or 6 mm thick asbestos cellulose ceiling board complying with the requirements of SABS Specification 803, in 900 mm or 1200 mm widths and long lengths and fixed with narrow boards, where required, along walls.
Branding shall be size 38 x 38 mm South African softwood complying with the requirements of SABS Specification 653 (and bear the standardisation mark of the SABS), securely spiked to roof timbers and to 114 x 38 mm ceiling joists, provided where required, with 88 mm wire nails. Branding shall be provided as 450 mm maximum centres at right angles to the roof timbers and at joints and edges of ceiling boards.

The ceiling boards shall be nailed up to the branding with 2 mm diameter galvanised or cadmium plated clout-headed nails, 38 mm long, spaced at not more than 100 mm centres at edges of boards and 150 mm centres along the intermediate branding. Nailheads must not be driven through the covering of the boards.

Joints between boards shall be covered with 25 mm half-round wood cover beads fixed with 38 mm nails as above at not exceeding 300 mm centres, or with Anaglyptic tape cover strips, or with approved patented pre-primed metal cover strips.

Ceilings, unless otherwise specified, shall be provided with 82 mm girth gypsum cove cornices, complying with the requirements of SABS Specification 622, nailed to ceiling branding at not exceeding 300 mm centres, with 38 mm nails as above or fixed to walls with hardened steel nails driven into the brickwork.

External ceilings shall be asbestos cellulose ceiling board as above, fixed to branding, and with joints between boards covered with half-round beads, all as described above. Provide 19 mm quadrant cornice.

- 5.11 Skirting and angle moulds - To all internal walls, except to outbuildings or where wall tiling or granolithic skirting is specified, fix 76 x 25 mm skirting, and at junctions of skirting with floors 19 mm quadrant angle moulds. Skirting shall be stopped against hearths, but angle moulds shall be carried round.

- 5.12 Doorstops - Fix a 38 mm diameter rubber doorstep to floor at each door, except to outbuildings.

- 5.13 External door frames (subject to last paragraph of clause 6.17) - All external door frames shall be 114 x 76 mm rebated, angle rounded frames with 9 mm diameter mild steel dowels, 75 mm long, let into bottom of frame and concrete surface bed. All horns of doorframes shall be checked and splayed where necessary.

Sidelights, where shown, shall be similarly formed with 114 x 76 mm twice rebated timber, all framed together.

Rebates shall be fitted with glazing beads mitred at angles and fixed with countersunk brass screws.

Fit 19 mm quadrant angle moulds all round on both sides of frames and/or sidelights.

- 5.14 Framed, braced and ledged batten door - Doors to outbuildings shall be framed, braced, and ledged batten doors, size 2030 x 813 x 40 mm, of SA pine complying with SABS Specification 1098 with 114 x 40 mm stiles and top rail, 228 x 20 mm bottom rail, 114 x 10 mm middle rail and braces and 114 x 20 mm vertical tongued, grooved and V-jointed boarding, rebated and V-jointed on edges and top ends and fitted into grooves in stiles and top rail and each board twice countersunk - screwed to bottom and middle rails.

Manufacturing conditions and treatment shall be as specified in clause 6.20.

Hang each door on pair of 100 mm brass butt hinges.

Fit each door with 75 mm upright two-lever mortise lock and chromium plated furniture complying with the requirements of SABS Specification 4.

The Contractor may, subject to the approval of the Director-General, use combination pressed steel doors and frames, in lieu of timber, to outbuildings, only in dry areas.

- 5.15 Framed, braced, ledged batten door with flush panel - Rear entrance doors to houses shall be framed, braced and ledged batten doors with flush panels on the inside, as specified in clause 6.17, but with 15 mm thick bottom and middle rails and braces and with the inner edges of stiles and top rail rebated on the inside and door filled in with 5 mm thick plywood panel, faced with sapele mahogany veneer and glued and primed into rebates and on face of ledges.

Alternatively, the doors shall be as specified in clause 6.19.

Fit each door with 75 mm upright three-lever mortise lock and chromium plated furniture complying with the requirements of SABS Specification 4.

- 5.16 Flush doors (solid core) for exterior use - Main entrance doors to houses shall be solid core flush doors complying with the requirements of SABS Specification 545 for doors intended for EXTERIOR use. The doors shall be size 2030 x 813 x 40 mm and shall be covered on both sides with hardboard and sapele mahogany veneer and fitted with two sapele mahogany edge strips not less than 9 mm thick.

Manufacturing conditions and treatment shall be as specified in clause 6.20.

Hang each door on a pair of 100 mm brass butt hinges.

Fit each door with 75 mm upright three-lever mortise lock and chromium-plated furniture complying with the requirements of SABS Specification 4.

- 5.17 Flush doors (hollow core) - All internal doors shall be hollow core flush doors complying with the requirements of SABS Specification 545. The doors shall be manufactured of SA pine framing, covered on both sides with hardboard and sapele mahogany veneer and the hollow filled in with a grid to ensure a flat and even surface to the hardboard covering. Doors in two leaves shall be fitted with rebated edge strips, not less than 19 mm thick, to meeting edges, and other doors shall be fitted on one vertical side with an edge strip not less than 10 mm thick. In areas where all timber is required to be treated against infestation by insect pests, the timber in doors shall be treated as laid down in the specification referred to above.
Doors shall be manufactured under climatic conditions similar to those prevailing at the locality of the building site. Doors to cupboards shall be 40 mm thick of the sizes to suit the various frames. Doors to bathrooms, W.C. and shower cubicles shall be size 2030 x 762 x 40 mm and all other doors shall be size 2030 x 813 x 40 mm.
Hang each door, except sliding doors, to pressed steel frame on the butts supplied with the frame.
Hang each sliding door on approved sliding door gear, complete with track, adjustable hangers, floor guide, door stop, and pressed metal pelmet, and fit door with two approved chromium plated door handles.
Fit all other doors, except cupboard doors, with 76 mm upright two-lever mortise locks and chromium-plated furniture complying with the requirements of SABS Specification 4.
Fit single doors to cupboards with approved chromium plated locking cupboards catch.
Fit one leaf of double doors to cupboards with 100 mm brass necked socket bolts at top and bottom and with a chromium plated dummy handle to match locked cupboard catch. Fit the other leaf with approved chromium plated locking cupboard catch.
- 5.18 Weather boards - Fit all external doors with 76 x 38 mm chamfered and throated weather boards, securely screwed to bottoms of doors and with thick white lead between.
- 5.19 Metal curtain pelmets - Over all windows, except to outbuilding, fit pelmets of stock pattern and of approved manufacture, and not less than 200 mm longer than the width of the opening, wherever possible.
The fascia shall be of sheet steel, not less than 0.6 mm thick, with top and bottom edges beaded and ribbed for stiffness if necessary. Fascias shall be of sufficient width to provide at least 65 mm cover from bottom of curtain rail to bottom edge of pelmet and shall be returned on to face of walls at ends.

Pelmets shall be fitted with two approved I-section curtain rails, attached to the fixing brackets, and provided with end stops and approved curtain runners, six to each 300 mm length of rail.
The pelmets shall project not less than 100 mm from wall face and be supported at not exceeding 650 mm centres on strap brackets of 20 x 5 mm or 25 x 3 mm mild steel screwed to plugs in walls.
The fascias and brackets shall be given one coat priming paint before leaving the manufacturer's works.
- 5.20 Towel rails - Provide and fix 20 mm diameter chromium plated brass towels rails, supported on chromium plated brass brackets screwed to wall plugs, of the following lengths:
900 mm to bathrooms
600 mm to separate shower cubicles
450 mm to sink
- 5.21 Bathroom cabinet - Provide and fix on face of wall in bathroom to house, where shown on **drawings no 02 of 03**
- 5.22 Mirrors - Over basins in bathrooms, fit a 450 x 900x 6 mm thick bevel edged silvered plate glass mirror, drilled and countersunk screwed to plugs in wall and fitted with domed chromium-plated cubs.
- 5.23 Curtain and hanging rails - Provide and fix across opening to shower cubicle, to bath where shower rose is provided over bath, to opening of cupboard recess in cloak room and as hanging rail inside the cupboard a 20 mm diameter chromium plated hanging rod fitted with chromium flanges screwed to wall plugs, and with three curtain rings to each 300 mm length.
- Windows to cloak Rooms shall be provided with similar curtain rails and rings, supported by 100 x 100 x 20 mm chamfered and slotted brackets plugged and screwed to the reveals.
- 5.24 Toilet roll holders - Provide an approved chromium plated toilet roll holder to each W.C. and screw to plugs in wall.
- 5.25 Cupboards in offices and kitchen - The pressed steel doorframes shall be as specified in SMITH and the doors shall be as specified in clause 6.20.

Cupboards shall be divided into sections as shown with continuous top shelf, vertical divisions, and intermediate shelves of approved 530 x 22 mm blockboard, faced on both sides with tola or other approved veneer. Shelves shall be supported on 50 x 25 mm wrought bearers fixed to plugs in walls or to vertical divisions.
Provide and fit under top shelf, where shown, a 20 mm diameter chromium-plated hanging rod, fixed at ends with 76 x 76 x 25 mm hardwood blocks, holed for rod and countersunk screwed to wall and to vertical divisions.

- 5.26 Kitchen fittings - Provide in kitchen, in the position and of the sizes shown on the drawings, fittings in steel or wood, of approved manufacture, and fix to wall plugs in accordance with the manufacturers' instructions.
- Steel fittings shall be manufactured of cold rolled steel with white baked enamel finish to all faces. Doors shall be double walled and soundproofed with fibrous material.
- In areas where all timber is required to be treated against infestation by insect pests, the timber in wood fittings shall be treated as laid down in clause 6.6. Cupboards shall have white high gloss finish, to approval.
- Tops of floor cupboards, except sink unit, shall be covered with approved decorative laminated plastic board finished all round to edges with chromium plated protective edging, secured with cup headed chromium plated screws.
- Drawers shall slide on steel roller bearings or plastic tracks for smooth, silent running.
- Wall cupboards shall be fitted with 6 mm thick obscure glass doors, with polished edges and finger grips, sliding on metal rollers or other approved tracks. All other cupboards shall be fitted with hinged doors.
- No locks are required to cupboards, except to grocery cupboard, which shall be fitted with chromium-plated locking cupboard catches.
- Wall cabinets shall be fitted with one shelf each.
- Floor cabinets shall be fitted with one shelf and two drawers each. Grocery cupboards shall be fitted with five tiers of 450 mm deep shelves.
- Sink units shall be fitted with one shelf and a stainless-steel sink and fluted drainer unit, with tiling key to one or more sides, as required, complying with the requirements of SABS Specification 242, and bearing the standardisation mark of the SA Bureau of Standards. The stainless steel shall be of Grade 17/0 and of such gauge as laid down for the particular size of fitting. Outlets of bowls shall be fitted with chromium plated brass waste fittings with vulcanite plug and chromium plated chain. Each 1 350 mm long sink unit shall have a single bowl, either left hand of right hand as shown, size 450 x 350 x 150 mm deep. Each 1 200 mm long sink unit shall have two bowls, each size 450 x 350 x 150 mm deep.
- 6. SMITH**
- 6.1 Steelwork and reinforcing rods - All steelwork and reinforcing rods shall comply with the requirements of the British Standard Specification for structural steel for General Building Construction in operation at the time of tendering.
- 6.2 Concrete reinforcement - Bending and hooking of rods shall be done in accordance with SABS Specification 82 on an efficient bending machine with steady pressure.
- Rods, stirrups etc., shall be thoroughly cleaned and bound at intersection with 1,2 mm diameter annealed wire to retain their positions during the ramming of the concrete.
- Reinforcement shall be covered by at least 12 mm of concrete to soffits of slabs and 25 mm of concrete to beams.
- 6.3 Steel windows, doors, and side lights (subject to clause 1.3.3) - Stock steel windows, doors, and sidelights, etc., shall comply with the requirements of SABS Specification 727 and bear the standardisation mark of the South African Bureau of Standards, and purpose made types shall comply with the constructional and other requirements of the above specification wherever applicable.
- Steel windows, doors, etc., shall be of one-piece construction, but where shown to be in two or more units, the units shall be coupled together with standard coupling mullions and/or transoms.
- Door hinges shall be of the projecting type (Parliament hinges) where frames are set back from wall face and doors are shown to fold back against the wall face.
- All opening sections of windows, except to outbuilding shall be fitted with burglar proofing, formed with 10 mm diameter mild steel horizontal and vertical bars to a brickwork pattern, with 150 x 225 mm maximum openings, all welded together and either welded or riveted to window frame.
- After windows and doors have been built in and before being glazed, they shall be overhauled, adjusted as necessary, and left in good working order.
- Steel windows, doors, etc., shall be either hot dip galvanised or primed with red oxide zinc chromate primer, as specified hereunder:
- 6.3.1 Windows, doors, components, and burglar bars shall, before leaving the manufacturer's works, be thoroughly cleaned of all scale, rust, grease, oil, and foreign matter, and then primed with red oxide zinc chromate primer complying with the requirements of SABS Specification 909, applied by dipping or by means of spray gun.
- 6.3.2 Windows, doors, components, and burglar bars, shall, before leaving the manufacturer's works, be hot dip

galvanised in accordance with SABS Specification 763.

- 6.4 Gauze screens to windows - Gauze screens to windows shall be constructed with pressed mild steel or aluminium frames filled in with approved fibreglass or anodised aluminium wire gauze having 1,5 x 1,5 mm meshes. The mild steel screens shall be finished with white enamel, sprayed, and baked on.
- The screens shall be attached to the inside of windows with studs or clamps in such a way as to be readily removable, and shall have sliding portions to give access to window fasteners, etc.
- Screens shall be notched, where required, to fit over burglar bars.
- 6.5 Pressed steel door and cupboard frames - Pressed steel door and cupboard frames shall be for 40 mm thick doors and shall be of welded one-piece construction, of mild steel sheets.
- Frames with single rebates shall be of 1,6 mm thick metal and frames with double rebates shall be of 1,25 mm thick metal. Cupboard frames shall be not less than 100 mm wide and door frames shall be of the width to suit the thickness of the walls (including plaster) into which they are to be built.
- Frames shall be fitted with suitable tie bars, braces, etc., and three lugs to each jamb. Cupboard frames shall be fitted in addition with threshold channels, not less than 12 mm above general floor level and allowing doors to be taken down to general floor level.
- To each rebate where a door is to be hung, a pair of approved 100 mm steel butt hinges shall be set flush into recesses in frames and either countersunk screwed or securely welded on.
- Frames to single doors shall be fitted in one jamb with approved chromium plated adjustable striking plate keep, boxed in at back of frame with sheet metal welded on and two rubber buffers.
- Cupboard frames shall be prepared for locks, barrel bolts, etc., as required and shall be fitted with rubber buffers.
- All welding shall be cleaned off smooth and flush on exposed faces, and the frames shall, before leaving the manufacturers' works, be thoroughly cleaned, and primed with red oxide zinc chromate primer as clause 7.3.1.
- 6.6 Up and over door to garage(s) - The door(s) to the garage(s) shall be approved "Up and Over" balance type door(s) of weather board pattern constructed of not less than 1 mm thick pressed steel and provided with the necessary stiffeners, guides, wheels, fixing brackets, bolts, etc., and hung on steel cables, counter-weighted with approved counterweight, to balance the door.
- The movement of the door shall be controlled by steel arms fixed to the door and guide with approved pivots.
- The door shall be fitted with the necessary handles for opening and closing the door, and with an approved, locking spring catch complete with control rods, chromium plated locking handle and striking plate, the door being capable of being locked from outside.
- The doors and components shall, before leaving the manufacturers' works, be treated in one of the following ways:
- 6.6.1 Red oxide zinc chromate priming complying with the requirements of SABS Specification 909, applied by dipping or by means of spray gun.
- 6.6.2 Hot dip galvanising in according with SABS Specification 763.
- 6.7 Kitchen range - Where a kitchen range is specified, the contractor shall supply and install, an approved combined cooker and water heater, insulated with mineral wool, and suitable for operation on anthracite, coal, coke or wood, approximate size 800 mm wide x 550 mm deep x 800 mm high to cooking top, and comprising a one-piece hotplate, size approximately 530 x 200 mm, with lift-up cast iron insulating cover, a roasting/baking oven heated by conduction and convection, size approximately 400 mm deep x 300 mm high x 350 mm wide, a warming oven, size approximately 400 mm deep x 200 mm high x 350 mm wide, and a cast iron plate rack with vitreous enamelled sheet steel splash back.
- The stove casing and base shall be of cast iron with sheet metal side and back plates with cream titanium vitreous enamel finish, including the hotplate cover. The cooking top shall be finished in black titanium vitreous enamel with a cast iron, solid surface ground hot plate.
- The firebox shall have a capacity of approximately 0,014 m³, lined with firebricks, and fitted with a cast iron rotating grate.
- Fittings shall comprise a chromium plated cast-iron operating tool, sheet steel ash pan, flue rake, roast pan, oven shelves, and damper in flue chamber and spinwheel control of ashpit door.
- The boiler shall be of cast iron and fitted with 25 mm diameter pipe connections for the hot water cylinder, specified

elsewhere.

Connect the flue chamber to the flue outlet in the chimney stack with the necessary length of 125 mm diameter asbestos cement pipe.

6.8 Letter box - Provide and fix where directed on front fence, a letter box constructed of galvanised sheet iron, size not less than 300 x 150 x 150 mm, complete with fixing straps and galvanised gutter bolts and nuts.

6.9 Fencing and gates - All wire shall comply with the requirements of SABS Specification 675 and, where specified to be galvanised, the galvanising shall be of second-class quality as laid down therein.

On all boundaries of building sites, except where walls occur, a 1,2 m high fence shall be erected in accordance with either 7.9.1 or 7.9.2 hereunder, subject to clause 1.3.5:

6.9.1 At corners, ends and intersections of fencing and immediately at not exceeding 90 m apart, and at gates, 75 mm outside diameter mild steel tubular posts of metal not less than 2,36 mm wall thickness shall be provided. The posts shall be 2 m long, with moulded cast iron tops and sole plates at bottom and shall be bedded 750 mm deep in ground with bottom of post encased in 300 x 300 x 450 mm deep Class A concrete. The posts shall be holed for wires, etc., as necessary, and shall be fitted with 44 mm outside diameter mild steel tubular stays of metal not less than 2 mm wall thickness, 2 m long, with top ends flattened, holed, and bolted to posts, and bottom ends fixed with sole plates and bedded 600 mm deep in ground with bottom of stays encased in 300 x 300 x 300 mm Class A concrete. Posts shall be fitted with stays on all sides where fencing occurs. Where gates and corner posts are less than 2 m apart, a 44 mm outside diameter mild steel tubular strut with ends flattened and holed shall be bolted to the top of the posts in lieu of stays.

Posts and stays shall be painted two coats aluminium paint in accordance with SABS Specification 682 (Grade II) and portions of posts and stays in ground shall be well tarred.

"H" or bulb "T" pattern mild steel standards, 1,8 m long, holed for wires and of a mass of not less than 5,4 kg each, shall be driven 600 mm into the ground between posts at not exceeding 3 m centres.

Pass three strands of 4 mm diameter galvanised mild steel wire through holes in posts and standards and tightly strain and attach to posts with no less than four turns.

Cover fencing with 1,2 m high 50 mm mesh chain link netting of 2,5 mm diameter galvanised mild steel, properly strained and secured to posts, standards and wire strands with 2 mm diameter galvanised wire.

Gates shall be formed of 25 mm internal diameter mild steel piping with all joints welded, braced, and filled in with 50 mm mesh netting as above, all painted two coats aluminium paint as above. Gates shall be 1,2 m high, single gates being 1 m wide and double gate 2,80 m wide, comprising one 1,70 m wide gate and one 1,10 m wide gate. Hang gates on adjustable hinges and provide each single gate with a spring catch and each double gate with U-shaped catch and drop bolt engaging in a 25 mm diameter pipe embedded in 150 x 150 x 200 mm deep Class A concrete.

6.9.2 All as above, except posts, stays and droppers to be of tapered creasoted gum poles. Posts to be 100 to 150 mm in diameter and splay notched for stays; stays to be 75 to 100 mm in diameter and bolted to posts; droppers to be 50 mm in diameter and notched for fencing strands; fencing strands to be 3,35 mm diameter mild steel wire plastic coated; the netting to be of 2 mm diameter mild steel plastic coated; the binding wire to be of 1,8 mm diameter mild steel plastic coated; tubular frame of gates to be galvanised and mesh covering to be plastic coated as above.

6.10 Clothesline - Wash lines shall be either fixed or revolving, as indicated on drawings.

Fixed wash lines shall be constructed of two 80 mm diameter galvanised mild steel posts, 2,6 m long, with moulded cast iron top and sole plate at bottom and approximately 50 mm from top with 50 mm diameter galvanised mild steel cross bar, 960 mm long, welded to post. Set posts 750 mm deep in ground with bottoms encased in 300 x 300 x 450 mm deep Class A concrete. Fit posts with 40 mm diameter galvanised mild steel strays, 1,7 mm long, with top ends flattened, holed, bolted to posts and bottom ends fitted with sole plates and bedded 450 mm deep in ground with bottoms encased in 300 x 300 x 300 mm Class A concrete.

The distance between posts shall be as shown on drawings and the cross arms shall be holed for and fitted with three plastic coated wash lines, attached to 10 mm diameter straining eyebolts.

Revolving wash lines shall be constructed of an 80 mm diameter galvanised mild steel post, 2,6 m long, fitted with sole plate at bottom and set 750 mm deep in ground with bottom encased in 300 x 300 x 450 mm deep Class A concrete. The rotor shall have a diameter of not less than 2,5 m and shall revolve on a ball bearing and shall have four arms of 25 mm mild steel, holed for wash lines, and welded to stays and rotor post, fitted with moulded cast iron top. Rotor post, cross arms and stays shall be painted two coats aluminium paint in accordance with SABS Specification 682 (Grade II). Pass four strands of plastic-coated wash lines through holes in arms and tightly strain.

- 6.11 Stoop balustrade - Where the height of the floor level of a stoep or porch exceeds 600 mm above the adjacent finished ground level, provide to the edge of the stoep or porch a balustrade constructed of 20 x 20 mm mild steel uprights, with flanged ends cast in openings in perimeter walls at 600 mm centres, 30 x 6 mm mild steel top and bottom rails and 10 x 10 mm mild steel balusters at 125 mm centres, all welded at intersections and as shown on drawings.
- 6.12 Pipe supports to beams - Provide to beams, if and where shown on drawings, 80 mm diameter galvanised mild steel pipe supports, to the lengths shown or required, with flanges welded to each end.
- 6.13 Generally - Provide all reinforcing rods, hoop iron bands, bolts, etc., as required. Provide 30 mm x 3 mm brass weather bars with fixing lugs under external doors as shown on drawings.
- 7. PLASTERER, PAVIOR AND TILER**
- 7.1 Cement - Cement shall be Portland cement complying with the requirements of SABS Specification 471 and of slow setting quality.
- 7.2 Sand - Sand shall comply with the requirements of SABS Specification 1090.
- 7.3 Cement plaster - Cement plaster shall be composed of six parts by volume of cement, mixed dry on a clean, impervious surface until of uniform colour before water is added. Plaster shall be mixed in small quantities, as no plaster than has commenced to set shall be used.
- 7.4 Roughcast plaster - rough cast plaster shall be composed of one part cement and three parts coarse aggregate, lashed on a cement plaster undercoat to produce a rough cast finish of uniform texture.
- 7.5 Gypsum plaster - Gypsum plaster shall be a retarded semi-hydrate gypsum plaster of finishing quality, applied in accordance with the manufacturer's instructions on a rendering coat of 6 to 1 cement plaster scratched over to form a key for the setting coat. The cement plaster shall be allowed to mature and then be wetted before the application of gypsum plaster.
- 7.6 Application of plaster - Plaster shall be applied to a thickness of not less than 12 mm or more than 18 mm on walls which shall be well wetted before plastering is commenced.
- The surfaces of internal plaster shall be steel trowelled to a smooth, even, and true finish and external plaster shall be finished to a true and even surface with a wood float.
- Plaster shall be returned into reveals and soffits of openings, and all angles shall be true and straight, with salient angles slightly rounded.
- Plaster shall be kept continuously damp for at least three days after application.
- Render all internal wall surfaces to kitchen, bathroom to house, laundry, and shower cubicle, except where tiling is specified, with gypsum plaster.
- Render all other internal wall surfaces, except where facing bricks or fair faced brick surfaces occur or where bagging is specified in BRICKLAYER, with one coat cement plaster.
- Render internal windowsills, reveals and window soffits, to garage and storeroom with one coat cement plaster.
- Render all external wall surfaces, except where roughcast plaster, facing bricks or fair faced brickwork occur, with one coat cement plaster.
- 7.7 Glazed wall tiling - Glazed wall tiling shall comply with the requirements of SABS Specification 22 and shall be size 150 x 150 x 5 mm thick.
- The tiles shall be well wetted and fixed direct to walls in 3 to 1 cement mortar with horizontal and vertical joints continuous and shall have all joints rubbed in solid with neat white cement grout.
- The tiling shall project approximately 5 mm beyond face of adjoining plaster with all exposed edges finished with rounded edge tiles and shall be butted at internal angles and provided with rounded edge tiles to external angles. Tile to the height indicated in the bathroom and W.C. to the house (not the outbuilding), or, if not indicated, to windowsill height, including the sill.
- Tile to a height of 2,10 m in shower cubicles.
- Tile two courses above sink, basin in shower cubicle, where it occurs, laundry through and bath to outbuilding.
- Tile between floor and wall cupboards in kitchen.
- Allow for 1 m2 tiling behind stove, where directed.

- 7.8 White glazed soap receptacles - In walls over baths, laundry through, and sink and to shower cubicle an approved 150 mm x 150 mm white glazed earthenware soap receptacles with tongued lip shall be provided and built in.
- 7.9 Plaster ventilators - Supply and fix to ventilation openings previously specified, except in access opening to bath trap, approved 225 x 150 mm plain pattern plaster ventilators.
- 7.10 Granolithic finish - Granolithic finish shall be 25 mm thick composed of 2 parts granite, or other approved hard stone chippings, or approved hard, coarse sharp, washed granitic or quartzitic sand, graded up to a maximum size of 5 mm, half part sand as described cement, steel trowled to a smooth surface.
- If granolithic as laid after the concrete sub-floor has matured, the exposed surface of the concrete shall be, thoroughly cleaned with a wire brush and a coat of neat cement grout applied immediately before the granolithic is laid.
- Exposed salient angles of granolithic shall be neatly rounded to approximately 20 mm radius.
- Granolithic skirtings shall be formed by turning up the granolithic floor fish 75 mm high against walls and hallow rounding at junction with floors. Top edges of skirtings shall be slightly rounded and project approximately 6 mm beyond plastered wall faces and 10 mm beyond face brick and bagged wall surfaces.
- Granolithic steps and thresholds shall be reeded near front for a width of 100 mm, stopped 100 mm from ends.
- The floors to cupboards, shower cubicles (including kerbs), laundry compartments, servant's room, servant's w.c./bathroom, porch to outbuilding and thresholds (except where otherwise shown) shall be finished with untinted granolithic. Floor to shower cubicles shall be laid with falls to outlets.
- Granolithic finish to floors of laundry, servant's room and servant's w.c./bath shall be turned up against walls as skirtings.
- 7.11 Terrazzo tiles - Pave the floors of stoeps and porches to the house and step treads with 200 x 200mm or 225 x 225 mm by not less than 17 mm thick pre-cast non-slip pressed cement floor tiles of approved manufacture, having a terrazzo finish of approved colour and not less than 6 mm thick, bedded and jointed in 3 to 1 cement mortar and pointed with a slightly keyed in joint not more than 6 mm wide.
- 7.12 Screeding to floors - Concrete sub-floors finished with wood mosaic, vinyl asbestos tiles and similar finishes, shall be screeded with 3 to 1 cement mortar of thickness required but in no case less than 12 mm and steel trowelled to a true and smooth surface suitable to receive the finishings.
- If screeding is laid after the concrete sub-floor has matured, the exposed surface of the concrete shall be thoroughly cleaned with a wire brush and a coat of neat cement grout applied immediately before the screed is laid.
- The screeding shall be protected against damage and shall be perfectly dry when the finishings are laid.
- 7.13 Vinyl-asbestos flooring - Semi-flexible vinyl-asbestos floor tiles shall be size 300 x 300 x 1,5 mm thick, complying with the requirements of SABS Specification 581 and bearing the standardisation mark of the South African Bureau of Standards.
- The tiles shall be of an approved light colour and shall be laid by skilled workmen in strict accordance with the manufacturer's instructions, using an adhesive recommended by the manufacturers, on perfectly dry, clean screeds.
- To house only (not to outbuildings), lay vinyl-asbestos tiles of one colour to floors in kitchen, passage, bathroom, study, bedrooms, and W.C.
- 8. DRAINLAYER AND PLUMBER**
- 8.1 Registered drainlayers and plumbers - Only registered drainlayers and plumbers shall be employed on any drainage or plumbing work.
- 8.2 Excavations and fillings - Excavations for drainage trenches, chambers, french drains, water supply pipes, etc., shall be of such depths and gradients as shown or required, to straight lines and of sufficient width to allow adequate working space.
- Gradients shall be even, any soft or loose places shall be filled in with well-rammed earth, and hand holes shall be left to allow jointing and filleting to be properly performed.
- Perform, as may be required, all planking and strutting and keep trenches clear of water.

Trenches shall be carefully filled in around and to a height of 300 mm above top of pipes, watered and lightly rammed on either side of pipes, and filled in above this level in 300 mm layers, watered and well rammed.

All surplus earth arising from drainage work shall be deposited and levelled on the site or carted away as directed.

The Contractor shall be responsible for taking the necessary steps and precautions to ensure the safety of all workers or any other person working at site or visiting the site in and around ground works and excavations.

8.3 Clay pipes and fittings - Drain pipes and fittings, unless otherwise specified, shall be vitrified clay complying with the requirements of SABS Specification 559 and bear the standardisation mark of the South African Bureau of Standards.

8.4 Drain laying - Drains shall be accurately laid uphill, commencing at the lower end, to the lines and gradients shown on drawings, or if not shown or impracticable as shown, to falls of not less than 1 in 60 and not more than 1 in 10, with 100 mm diameter clay pipes, unless otherwise specified. Where ground slopes do not permit of falls of less than 1 in 10 to straight drains, ramps shall be provided with cleaning eyes and encased in concrete as described in clause 9.5.

All trenches shall be excavated to a depth of approximately 75 mm below pipes and the bottoms of the trenches refilled with selected soil, which shall be compacted before the pipes are laid. The barrels of pipes shall rest on the compacted soil or, if the contractor so desires, on concrete for at least two-thirds of their lengths, and pipes shall be jointed as laid down in SABS Code of Practice 058.

Drains shall be provided with all necessary easy bends, junctions, etc., as required, and shall be brought up to ground level with bends where cast iron soil, ventilation or similar pipes connect to drains.

Drains laid with tops of sockets less than 300 mm below finished ground level, and all drains laid under buildings, shall be encased in Class A (19 mm stone) concrete. The concrete shall not be less than 100 mm thick at any part. Where cast iron pipes connect to vertical clay pipes, the joint shall be encased in 300 x 300 x 225 mm thick Class A (19 mm stone) concrete, taken up 75 mm above the connection and finished on top with 2 to 1 cement mortar, splayed on edges and trowelled smooth.

8.5 Cleaning eyes - cleaning eyes shall be provided to drains in the positions indicated on drawings by the letter "C.E." (or "S.O.") or, if not indicated, at the head of drains, at all changes of direction, at ramps and sewer connections, and at 25 m maximum intervals.

Cleaning eyes shall be formed by inserting a junction in the drain, or a bend at head of drain, and bringing a branch up to ground level with easy bends and vertical pipe of same diameter of drain, and fitting top of pipe at ground level with an approved cast iron access branch and cover with the letters "C.E." (or "S.O.") cast on the cover. The vertical bends and pipes shall be encased in Class A (19 mm stone) concrete, not less than 100 mm thick at any part carried from bottom of trench up to ground level and finished on top with 2 to 1 cement mortar, trowelled smooth and rounded on salient angles.

8.6 Inspection eyes - Inspection eyes shall be provided in the positions indicated on drawings by the letters "I.E." (or "I.O."), each formed by inserting an access pipe or bed in the drain and fitting with an ablong vitrified clay lid sealed in bitumen. Where inspection eyes occur under concrete paving, form openings for and lay 175 x 175 x 75 mm pre-cast concrete blocks, with the letters "I.E." (or "I.O.") imprinted thereon and with 6 mm open joints all around, directly above the inspection eyes.

8.7 Gullies - Gullies shall be provided where indicated on drawings, each formed with 100 mm diameter vitrified clay gully trap and gully head carried up to not less than 75 mm above finished ground level, provided with vertical and side outlets as required, and head fitted with 190 mm diameter cast iron gully grating, laid loose in the socket.

8.8 Dished gullies - Dished gullies shall be provided to drains where indicated on drawings, each formed with trap and head, with inlets as required, and fitted with cast iron grating, all as described above. A dished hopper, minimum size 450 x 450 mm of Class A (19 mm stone) concrete shall be formed around gully head, with 76 mm high kerb above dish, and finished on exposed surfaces with untinted granolithic. Top of kerb shall be not less than 75 mm above finished ground level.

8.9 Grease traps - Grease traps shall be 225 mm diameter vitrified clay, each fitted with 100 mm diameter vitrified clay outlet junction and taper pipe to suit the size of the waste pipe, jointed to trap as described for drainpipes. The top of the trap shall be at least 75 mm above finished ground level, and the access openings of trap and junction shall be fitted with vitrified clay stoppers, laid loose in socket of trap, and set in socket of junction in bitumen.

The trap and junction shall be encased in Class A (19 mm) concrete, not less than 100 mm thick at any part, finished where exposed with 2 to 1 cement mortar, trowelled smooth and splayed at edges. The taper pipe shall be similarly encased to the top of the pipe.

8.10 Septic tanks - Septic tanks shall be as shown on drawings, each formed with bottom and covering slab of class B concrete and walls of one brick width, built in 3 to 1 cement mortar, finished on inner face with 3 to 1 cement

plaster. The covering slab shall be holed for manhole cover and be reinforced with steel mesh as C.K.S. 154, Ref. 100 (4 mm diameter wires at 200 mm centres in both directions).

Salt glazed earthenware drainpipes and junctions, of same diameter as drain, shall be built into walls at inlet and outlet ends of tank at heights shown, in 2 to 1 cement mortars.

Manhole opening in slab over tank shall be fitted with 600 x 450 mm double seal cast iron manhole cover and frame, complying with the requirements of SABS Specification 558 (Type 8A).

Approved preconstructed septic tank with a minimum capacity of 1,4 m³ may be used in lieu of the above specification.

- 8.11 Conservancy tank - Conservancy tanks and valve chambers shall be as shown on drawings, each formed with flat or benched and graded bottom slab as shown and covering slab of Class B concrete and walls of one brick width built in 3 to 1 cement mortar, finished on inner face with 3 to 1 cement plaster. The covering slabs shall be holed for manhole covers and be reinforced with steel mesh as C.K.S. 154, Ref. 100 (4 mm diameter wires at 200 mm centres in both directions). A channel shall be formed in centre of bottom slab with 100 mm diameter half round salt glazed earthenware.
Bottom end of drain shall be built in as shown.

Provide between tank and valve chamber, a 100 mm diameter galvanised mild steel screwed and socketed pipe, built into wall of chamber, laid to fall, and provided with bend, and taken up through bottom of valve chamber and fitted with approved 100 mm cast iron flanged gate valve fitted with gunmetal fittings all in accordance with the requirements of the Local Authority.

Manhole openings in tanks shall be fitted with 600 x 450 mm double seal cast iron manhole cover and frame, complying with the requirements of SABS Specification 558 (Type 8A) and top of valve chamber with 600 x 450 mm single seal cast iron manhole cover and frame complying with the above specification (Type 9D).

Exposed surface of concrete shall be finished with 2 to 1 cement mortar, trowelled smooth.

- 8.12 Combined septic/conservancy tanks - where combined septic/conservancy tanks are shown on the drawings, the individual sizes and construction of the tanks shall be as specified above, but with a common one brick wall between the two tanks and an interconnecting 100 mm diameter salt glazed earthenware pipe.

- 8.13 French drains - French drains shall be 900 mm wide of length shown, and at least 1 m deep below invert of drain, and with cavity chamber built dry with local hard stone under end of drain as shown. The remainder of trench shall be filled in with clean hard stone graded from 40 mm to 75 mm, up to a depth of 300 mm below ground level.

The trench shall be covered with 0,6 mm thick galvanised corrugated iron sheets, painted on both sides with approved bituminous coating, placed at a depth of 300 mm below ground level.

Trenches shall be filled in above the corrugated iron with approved filling.

- 8.14 Agricultural drains - Agricultural drains shall consist of branch spreader drains, run out from either side of the main drain, of lengths shown or as directed, in trenches not less than 1,2 m apart and 600 mm wide and of the depth required but not less than 600 mm deep.

The spreader drains shall be laid with 100 mm diameter unglazed earthenware agricultural drainpipes, on 150 mm thick beds of clean, hard, durable stone, graded from 40 mm to 75 mm and covered at sides and above pipes to a height of approximately 250 mm above top of pipes with similar stone, the full width of the trench. The pipes shall be laid with 12 mm open joints covered with flat stone. The lower end of the main drain shall be plugged with stoneware stopper set in 2 to 1 cement mortar. Cover the stone filling with bituminous sheeting and fill in above with earth, lightly rammed.

- 8.15 Testing of drains - The whole of the drainage system shall be tested to the satisfaction of the Secretary before being covered in or encased in concrete, by means of an approved air pressure or water test.
Before carrying out the above test, an internal inspection with a torch and mirror shall be made.

- 8.16 Connection fees - Where drain connections are required to Local Authority Sewers, the Contractor shall apply for and pay the connection fee.

The gully head shall be encased in 375 x 375 x 225 mm thick Class A (19 mm stone) concrete, finished where exposed with 2 to 1 cement mortar, trowelled smooth and flush with gully head and splayed on edges.

- 8.17 Stormwater drains - All stormwater drainpipes shall be of concrete, complying with the requirements of SABS Specification 677 and bearing the standardisation mark of the SA Bureau of Standards, and shall be of S.C. type of Class B quality with spigotted and socketed ends or plain ends with loose collars of the same material.

Stormwater drains shall be excavated for and laid to the lines and gradient shown on drawings. Socketed pipes

shall be jointed as described for stoneware pipes, but without fillets and where loose collars are used ends of pipes shall be butted together in stiff 2 to 1 cement mortar and space between pipes and collars filled with similar mortar and well caulked.

Catchpits shall be of sizes shown and of depths shown or required, built one brick thick in 3 to 1 cement mortar and 75 mm thick Class A (19 mm stone) concrete bottoms. Each catchpit shall be fitted with an approved cast iron catchpit grating of size to suit size of catchpit, set in an approved cast iron or angle iron frame, and surrounded with a 75 mm thick kerb of Class A (19 mm stone) concrete, splayed towards pit, and finished with 2 to 1 cement mortar trowelled smooth.

Surface water channels shall be 375 mm wide, formed of Class A (19 mm stone) concrete, not less than 75 mm thick at any part, and having 225 mm wide and 75 mm minimum deep sinking, finished with 2 to 1 cement mortar, trowelled smooth. Channels shall be laid with even falls of not less than 1 in 250 on hard earth bottoms.

8.18 Galvanised sheet iron - Galvanised sheet iron shall be of 0,6 mm thick flat mild steel (before galvanising) and coated with not less than 275 g/m² of zinc on both sides.

All nailing and screwing shall be done with galvanised iron nails and screws.

8.19 Sheet lead - Sheet lead shall be best milled sheet of full mass specified and of equal thickness throughout.

All nailing and screwing shall be done with copper or copper alloy nails and screws.

8.20 Sheet copper - Sheet copper shall be of 0,6 mm thickness, cold rolled and of soft temper. All nailing and screwing shall be done with copper or copper alloy nails or screws.

8.21 Sheet zinc - Sheet zinc shall be 0,81 mm thick pure rolled zinc.

8.22 Valley linings, sole flashings, chimney gutters and cover flashings (subject to clause 1.3.6) - Valley lining sheets shall be lapped 225 mm at joints, turned up and over purlins or up against battens with edges folded back, and be dressed at top and bottom as required.

Sole flashings and chimney gutters to rib-trough sheets shall be fixed in accordance with the manufacturer's instructions.

Sole flashings to corrugated iron roofs shall be turned at least 75 mm up against vertical surfaces and dressed not less than 200 mm on to roofing iron.

Sole flashings on the rake of asbestos cement roofs shall be turned at least 75 mm up against vertical surfaces and dressed on to the asbestos and over the nearest corrugation. Sole flashing at horizontal top edges shall be as described in clause 6.8.

Sole flashings to clay and concrete tile roofs shall be turned at least 75 mm up against vertical surfaces and close dressed not less than 175 mm on to the tiles.

Linings to gutters at back of chimney stacks and the like shall be turned at least 100 mm up against vertical surfaces and carried not less than 225 mm up roof slopes and dressed up and on to purlins or tilting fillets and lapped on to flashings or linings to secret gutters.

Linings to secret gutters shall be turned at least 75 mm up against vertical surfaces and on to the batten at outer edge and dressed at bottom to discharge on to sole flashing.

Turned up edges of sole flashing, chimney, and secret gutters, shall be flashed over with cover flashings, having bent upper edge wedged 25 mm into joints in brickwork, and stepped as required where on rake. All flashings shall be properly lapped and made watertight.

The materials to be used shall, subject to clause 1.3.6, be either as under 8.22.1 or 8.22.2 hereunder:

8.22.1 Valley linings - galvanised sheet iron; sole flashings to galvanised iron roofs - galvanised sheet iron; sole flashings to clay and concrete roofing tiles - 24 kg/m² sheet lead; chimney gutters - galvanised sheet iron; and cover flashings - galvanised sheet iron.

8.22.2 Valley linings - sheet copper or zinc; sole flashings to rake of asbestos cement roofs - sheet copper or zinc; sole flashings to horizontal top edge of asbestos cement roofs - see clause 6.8; sole flashings to clay or concrete roofing tiles - 24 kg/m² sheet lead; Chimney gutters - sheet copper or zinc; and cover flashings - sheet copper or zinc.

8.23 Pipe flashings - Pipes, 50 mm and more in diameter, shall each be flashed where passing through galvanised iron roofs with galvanised sheet iron sole piece, dressed and soldered to roofing iron, holed for pipe, and fitted with sleeve piece of similar material, riveted, and soldered at joint and to sole piece, and clamped to pipe at top with 25 x 3 mm galvanised mild steel band fixed with galvanised gutter bolt.

- Pipes under 50 mm diameter shall be flashed where passing through galvanised iron roofs with galvanised sheet iron sleeve piece, soldered to roofing iron and flashed over with conical cover of similar material, soldered at joint and to pipe.
- Pipes passing through asbestos roofs shall be flashed with 24 kJ/m² sheet lead sole piece, closely dressed into corrugations, bedded in mastic along top edge and secured with galvanised gutter bolts, and fitted sleeve piece of similar sheet lead wiped on to sole piece and clamped with 25 x 3 mm galvanised mild steel band and gutter bolt to pipes of 50 mm diameter and more, or secured with copper wire to smaller pipes.
- Pipes passing through tile and slate roof shall be flashed with 24 kg/m², sheet lead sole piece, dressed under or over tiles or slates, and fitted with sleeve piece of similar sheet lead, wiped on to sole piece and secured to pipe as above.
- 8.24 Sheet iron gutters and rainwater pipes (subject to clause 1.3.2) - Subject to clause 1.3.2, gutters and rainwater pipes shall be either of galvanised sheet iron as specified hereunder, or asbestos cement, as specified in clause 6.9.
- Sheet iron eaves gutters shall be of 0,6 mm thick galvanised sheet iron, size 125 x 100 mm, with beaded edges and all joints riveted and soldered, laid to proper falls, and provided with angles, stopped ends and outlet nozzles as required.
- Gutters shall be fixed to 32 x 3,5 mm galvanised mild steel brackets, twice screwed to roof timbers at not exceeding 1 m centres. The brackets shall be bent to the shape of the gutters and bolted to front end of gutters with 6 mm diameter galvanised gutter bolts.
- Sheet iron rainwater pipes shall be of 0,6 mm thick galvanised sheet iron, size 75 mm diameter, seamed at back and jointed with slip joints neatly soldered, provided with offsets, elbows, and shoes as required, and fixed 25 mm clear of walls on approved galvanised mild steel brackets spaced at not exceeding 2.4 m apart with tails built into walls in 3 to 1 cement mortar.
- 8.25 Water taps and valves - All water taps and stop cocks shall comply with the requirements of SABS Specification 266 and bear the standardisation mark of the South African Bureau of Standards. Bib taps shall be fitted with chromium plated conical extension sleeves as required.
- Taps for hot water shall be marked with the letter "H" or "W" or with the word "Hot or Warm" or shall have red colour plastic inserts and taps for cold water shall be marked with the letter "C" or "K" or with the word "Cold" or "Koud" or shall have green or blue colour plastic inserts.
- Ball valves shall comply with the requirements of SABS Specification 752 and bear the standardisation mark of the South African Bureau of Standards.
- 8.26 Mild steel water pipes - Mild steel water piping shall be in accordance with BSS1387 of medium class, galvanised inside and outside and with screwed ends, and shall be provided with mild steel nipples, long screws, etc., and sockets, bends, elbows, tees, and other fittings, as may be required, of galvanised malleable cast iron complying with the requirements of SABS Specification 509 and bear the standardisation mark of the South African Bureau of Standards.
- The screwed joints shall be made with lead paint to cold water piping, and with graphic to hot water piping.
- Piping not required to be built in, shall be fixed to walls with galvanised iron brackets or holderbats.
- 8.27 Mild steel waste and ventilation pipes - Mild steel waste and ventilation pipes shall be as described for water pipes above, including jointing and fixing etc., but fitted at angles and intersections with brass or galvanised malleable cast iron bends and junctions. All bends and junctions to waste pipes shall have inspection eyes.
- 8.28 Copper pipes - Copper pipes for water and gas supplies, and for sanitation purposes, shall comply with the requirements of SABS Specification 460 (of the type for "Domestic Plumbing Services") and bear the standardisation mark of the South African Bureau of Standards.
- Pipes shall be joined by capillary soldering or by compression fittings. All necessary connectors, bends, elbows, tees, and other fittings, as may be required, shall be provided.
- Piping not required to be built in shall be fixed to walls with brass or copper batting pipe bands, brackets or holderbats.
- 8.29 Cast iron pipes - Cast iron soil, waste and ventilation pipes and fittings shall be normal duty pipes complying with the requirements of SABS Specification 746, shall have type A spigots and sockets and be of spun- or sand-cast type, coated inside and outside with bituminous solution, jointed with gasket and blue lead properly caulked, and with integrally cast ears fixed to walls with brass bolts built into walls in 3 to 1 cement mortar.
- Bends, junctions, W.C. connectors, etc. shall be provided wherever necessary with cast iron cleaning doors,

bedded in putty, and bolted on.

Cast iron ventilation pipes shall be 100 mm diameter, connected to drain or to iron junction pipe, as required, at bottom, carried up to a height of 1 m above roof and flashed where passing through roof.

8.30 Lead traps - Lead traps shall be hydraulically drawn with mass stamped on and with heavy brass screw cap inspection eyes wiped on. The mass of the lead shall be not less than 28 kg/m².

8.31 Pipe connections - Connections between pipes of different materials and between pipes and fittings shall be as follows:

Connection

Method of jointing

Between socketed cast iron and earthenware pipes and vice-versa

Semi-dry caulking cement and 2 to 1 cement mortar fillet

Between mild steel or copper pipes and earthenware

Semi-dry caulking cement and 2 to 1 cement mortar fillet, or bitumen

Between water closet outlet and cast-iron connector

Bitumen

Between water closet and flush pipe

Lead cone and putty, or approved rubber flush pipe connector

Between sink or basin waste fitting and lead trap

Brass cap and lining and wiped solder joint

Between bath waste fitting and lead trap

See clause 9.36 (Baths)

Between lead trap and waste pipe

Brass cap and lining and wiped solder joint

Between pillar tap and supply pipe

Copper connector

Between flushing cistern and supply pipe

Copper connector

8.32 Holes for pipes, etc. - All necessary holes shall be cut in floors, roofs, ceilings, etc., for pipes, brackets, etc. shall be made good in all trades to the satisfaction of the Director-General. All internal water piping shall be concealed by building or chasing into walls.

8.33 Pedestal water closet pans - Pedestal water closet pans shall be of wash-down type, approximately 450 mm high, of white glazed fireclay or vitreous China, complying with the requirements of SABS Specification 497 (Type B). The pans shall have "p" traps with straight outlets or right or left-hand side outlets, or shall "s" traps, as required, and shall be bedded on the floors in 3 to 1 cement mortar.

Pans shall be fitted with approved plastic seats, double flap to house and single flap to outbuildings, of size and shape required to fit the pans, and each attached to pan with two non-ferrous metal fixing bolts.

Connect to outlet of closet with 100 mm diameter cast iron pan connector and from connector take 100 mm diameter case iron pipe through wall, fit with inspection bend (or inspection junction where required for ventilation pipe) and continue down wall and connect to upturned end of earthenware drain.

8.34 Flushing cisterns - Low level cisterns shall be provided to houses and outbuildings.

Low level cistern shall have a capacity of 11 litres and shall be of the valveless syphonic type or of the flushing valve type, of approved manufacture.

Low level cisterns and covers shall be of white glazed fireclay or vitreous China complying with the requirements of SABS Specification 497 or approved plastic with gloss finish to all exposed surfaces, or cast-iron white enamelled outside and galvanised, enamelled or coated with approved metallic finish sprayed on, or other approved anti-corrosive finish, inside, complying with the requirements of SABS Specification 821.

Low level cisterns shall be provided with a silent auction syphon of brass, copper or other approved corrosion-resistant metal, or approved plastic or ceramic material, or flushing valve, and shall be provided with coupling connections for inlet, overflow and flush pipes, 15 mm ball valve with copper, PVC, plastic or polystyrene ball, and silencing pipe and chromium plated operating lever.

Cast iron cisterns shall be fixed to walls with 6 mm bolts, 150 mm long, two to each cistern, built into walls in 3 to 1 cement mortar, and plastic cisterns with two 7 mm galvanised bolts, with leather compression washers and brass nuts, attached to vertical corrosion-resistant alloy wall plate twice screwed to wall plugs.

Low level cisterns shall each be provided with baked white enamelled, or chromium plated drawn steel or copper or plastic flush pipe having an internal diameter of not less than 32 mm connected to cistern and closet.

From overflow connection on each cistern a copper or lead overflow pipe shall be taken through wall to discharge outside with end splay cut and projecting at least 75 mm beyond wall face.

- 8.35 Lavatory basins - Lavatory basins shall be of the bracket type with back skirting, of white glazed fireclay or vitreous China, complying with the requirements of SABS Specification 497, and having weir type overflow, fitted with chromium plated grid, or slot type overflow.
- Unless otherwise specified, basins shall be size 500 x 400 mm, each fitted with 32 mm chromium plated brass waste fitting with screwed outlet and vulcanite or rubber plug attached to basin with chromium plated chain, and with two 15 mm chromium plated brass easy clean pattern screw down pillar taps.
- Basins shall be fixed on approved white enamelled cast iron brackets, fixed to walls with 6 mm bolts, 150 mm long, built into walls in 3 to 1 cement mortar.
- Connect to outlet of basin with 40 mm lead trap and from trap take 40 mm galvanised mild steel waste pipe through wall, fit with inspection bend, and continue down wall and connect to gully.
- 8.36 Showers - To each shower cubicle, over bath where no shower cubicle is provided, provide, and fix a 50 mm diameter approved chromium plated brass swivel type rose shower connected with 15 mm diameter supply pipe to breaches piece fitted with two 15 mm chromium plated easy clean pattern stop cocks. Provide and fix in floor of shower cubicle an approved chromium plated brass outlet union and flat grid, connected to 50 mm cast iron trap, and take 50 mm diameter galvanised mild steel waste pipe under floor, through external wall, fit with inspection bend, continue down wall and connect to gully.
- 8.37 Waste pipe and taps to sink - Connect to outlet(s) of sink with 40 mm lead resealing trap and from trap take 40 mm diameter galvanised mild steel waste pipe through wall, fit with inspection bend and continue down wall and connect to gully.
- Single bowl sinks shall be provided with two 15 mm chromium plated easy clean pattern bib taps and double bowl sinks with two such taps and chromium plated sink mixer.
- 8.38 Wash troughs - Wash troughs shall be stock pattern double compartment concrete troughs, polished on exposed surfaces, size approximately 1,05 x 0,60 x 0,40 m, with sloping corrugated front and including two concrete pedestals.
- Fit each compartment with 40 mm chromium plated brass waste fitting, plug and chain. Connect the two outlets to 40 mm diameter galvanised mild steel inclined waste pipes and connect to lower end with 40 mm lead trap, and from trap take 40 mm diameter galvanised mild steel waste pipe through wall, fit with inspection bend, and continue down wall and connect to gully.
- Provide two 15 mm chromium plated easy clean pattern bib taps, one of which shall be threaded to take a hose union, over each compartment.
- 8.39 Water connection and meter - Where the cold-water supply is taken off Local Authority mains, the Contractor shall apply for and pay the connection fee, including the cost of the meter.
- When cold water is taken off supplies other than Local Authority mains, the Contractor shall make the necessary connection, take a 20 mm diameter pipe up vertically to a height of 400 mm above ground level, provide and connect to an approved 15 mm meter which has been assessed by the Weights and Measures Division of the Department of Commerce and take a similar pipe down vertically and connect to the supply pipe specified hereinafter.
- 8.40 Cold water supply - Connect to the water meter, with 20 mm diameter piping and lay not less than 375 mm underground to the most convenient lines to feed the various points at which cold water supply is required.
- Take 20 mm diameter branches to house and outbuilding and take up through walls with 20 mm diameter pipes to "Cold" tap to bath and to ball valve in roof tank (or to break pressure unit on electric hot water cylinder or to gas water heaters), and with 15 mm diameter pipes to "Cold" taps to other fittings, to "Cold" stop cocks to showers, and to flushing cisterns.
- Insert tee piece in pipe in ground and take 20 mm diameter branch not less than 375 mm underground and of 10 m maximum length, to and including standpipe to front of house where directed.
- Take similar pipe to and including standpipe over dished gully, except where septic tanks or conservancy tanks are specified, or, if no dished gully is specified, take similar pipe of 10 m maximum length to and including stand pipe to back of house where directed.
- Standpipe shall be of 20 mm diameter piping standing 750 mm above ground, fitted on top with elbow and secured to wall with approved brackets built into wall in 3 to 1 cement mortar.
- Dig the necessary trenches for pipes and fill in and well ram after pipes is laid.

Pipes shall be either:

- 8.40.1 Galvanised mild steel as specified in clause 9.26 or
8.40.2 copper as specified in clause 9.28.

8.40.3 High Density Polyethylene (HDPE) Class 6 complying to SABS 533 with compression fittings for underground application especially in aggressive soil conditions.

8.41 Water storage tank in roof - Where a water storage tank in the roof is specified, supply and set on platform, specified in CARPENTER and JOINER, an approved 225 litre circular asbestos cement tank complete with lid and tray, and fit with 25 mm diameter overflow pipe from top of tank to tray below, and 20 mm copper ball valve and unions for 20 mm diameter supply pipe. The tray shall be fitted with 25 mm diameter waste pipe to discharge where directed.

8.42 Electric water heating - Where electric water heating is specified, supply and set on bearers in roof, specified in CARPENTER and JOINER, or, where not in roof space, on brackets or platforms shown on drawings, an approved 150 litre, 3 000 watt, horizontal square high pressure electric hot water cylinder and 400 kPa brass break pressure valve with cold water expansion, complying with the requirements of SABS, specification 151 and bearing the standardisation mark of the South African Bureau of Standards. The geyser to be provided with magnesium anode and 40 mm gas threaded immersion element.

The inner cylinder shall be of 2 mm thick steel, butt welded. With the interior of cylinder double coated with a glass porcelain and the outer casing shall be of 0,8 mm thick steel with a white baked enamel finish.

The cylinder shall be fitted with an adjustable thermostat with maximum temperature range of 75°C.

The thermostat and element must be separate units and so arranged for easy replacement.

Facilities must be provided for the draining of cylinder if necessary.

Connect to brake pressure unit with 20 mm diameter cold water supply pipe. Connect to electric cylinder with 20 mm diameter hot water flow pipe and take 20 mm diameter branch to "Hot" tap to bath in house (not outbuilding) and 15 mm diameter branches to "Hot" taps to other fittings and to shower, set to fall in the direction of flow.

Hot water pipes shall, subject to clause 1.3.7, be either:

- 8.42.1 Galvanised mild steel as specified in clause 8.26; or
8.42.2 copper as specified in clause 8.28.

8.43 Water heating by kitchen range - Provide a storage tank in roof as specified in clause 9.42.

Provide a 140-litre cylinder made of 3 mm thick galvanised sheet iron, circular in shape, and with domed top and dished at bottom, all strongly riveted and soldered at joints and provided with connections for pipes as hereafter described.

Set the cylinder above kitchen range, specified elsewhere, on brackets formed with 20 mm diameter mild steel piping provided at front corners with elbows and with back ends split and spread and built 100 mm deep into wall in 3 to 1 cement mortar, and provided at front with 20 mm diameter diagonal pipe stay welded on, with bottom end split and spread and built into wall as before.

Connect the cylinder to the range with 25 mm diameter primary flow and return pipes, fitted with a brass plug with spanner head at lowest point of return pipe.

Connect to outlet on water supply tank in roof with 20 mm diameter pipe and drop down and connect to cylinder near bottom. Connect to top of cylinder with 20 mm diameter hot water flow pipe and take 20 mm diameter branch to "Hot" tape to bath in house (not outbuilding) and 15 mm diameter branches to "Hot" taps and stop cocks to other fittings and shower, set to fall in the direction of flow. Provide 20 mm diameter expansion pipe at highest point of flow pipe, take up and through roof and turn end down. Flash pipe where passing through roof. Pipes shall be as specified in clause 9.43.

8.44 Water heating by gas - The whole of the gas installation is to be carried out by a firm specialising in this type of work.

The gas piping throughout to be of copper tubes, jointed with approve capillary fittings. Provide and fix the following instantaneous liquefied petroleum gas water heaters:

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Fittings to be served (outbuildings excluded)	Heating capacity of heater, in litres per minute
Kitchen sink only	5,70
Bath, lavatory basins and shower (including laundry through, if within 4,5 m from bathroom)	14,80
Kitchen sink and laundry trough if the trough is more than 4,5 m from bathroom	11,40

Connect to flue outlet of heater (except heater with capacity of 5,70 litres per minute) with 100 mm diameter asbestos cement flue pipe and take up through ceiling and roof to a height of 1 m above roof or fit on top with suitable cowl. The flue pipe, where in roof space, shall be encased in a 200 mm diameter safety sleeve of 0,6 mm, thick galvanised sheet iron.

Provide and fix an approved double regulator, complete with pressure gauge, shut-off valves and two copper pigtails at least 75 mm above cylinders, and fix an approved protective metal awning, size approximately 600 x 450 mm, over regulator.

From regulator take 15 mm outside diameter main supply pipe up and along eaves, take through walls and connect to water heaters with 15 mm diameter piping and to stove with 10 mm outside diameter piping.

The entire installation shall be examined for leaks with soapy water whilst subjected to internal pressure of 3,45 kPa for 20 minutes.

Connect to gas water heaters with 15 mm diameter copper hot water flow pipe and take 15 mm diameter branches to "Hot" taps on fittings and "Hot" stopcock on shower.

8.45

Electric stove Defy ecofriendly Specs below:

 + 	• Oven Type: Undercounter Static & Energy Rating: A • Usable Volume: 78l & Timer: Mechanical • Handle: Square Brushed Aluminium • Inner Oven Door: Removable inner Glass & Side Racks • Control panel: 100mm • Accessories: Wire shelf with Roast pan Functions with Conventional Cooking Grill & Bake. Steam Assisted Cleaning & Hob (DHD332) • 4 Solid Plates & 1 Hi-speed Plate • No Control Switches & Built-in Hob to match any Defy Under-counter Oven Black
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8.48

Stop cocks - Provide on cold water supply pipe in ground at boundary of site or at connection, if within site boundary, an approved gunmetal screw down stop cock with 125 x 125 mm cast iron surface box with lid, set level with ground on brick chamber, formed with half brick walls built in cement mortar, from bottom of pipe trench to underside of box.

Provide brass screw down stop cocks on hot and cold-water supply pipes inside the building where required, including on supply pipe to cisterns and tank in roof, or to break pressure unit on electric hot water cylinder or to gas water heaters.

9. GLAZIER

9.1

Glass - Sheet glass for glazing, unless otherwise specified, shall be flat drawn clear of ordinary glazing quality, free from bubbles, stains or scratches, 3 mm thick for panes not exceeding 0,65 m² in area, and 4 mm thick for panes not exceeding 1,5 m² in area.

Obscure glass for glazing, unless otherwise specified, shall be small Arctic, or other similar approved figured rolled glass, 5 mm thick.

Glass for mirrors shall be of 6 mm thick polished plate glass.

Wired transparent glass shall be 6 mm thick, polished Georgian wired glass. Wired obscure glass shall be 6 mm thick Georgian wired rough cast glass.

9.2

Glazing - Putty for glazing shall comply with the requirements of SABS Specification 680, of Type 1 for glazing in

wooden frames and Type II for glazing in steel frames and bear the standardisation mark of the SA Bureau of Standards.

Glass panes exceeding 0,40 m² in area shall, in addition, be secured with glazing sprigs in wood sashes and with glazing clips inserted in holes in steel framing.

Glass panes shall have adequate glazing clearance and the putty shall be carefully trimmed and cleaned off, with front putty worked to within 3 mm of the sight lines. The glass shall be well bedded in back putty in the rebates.

Glaze the windows to bathrooms, w.c.'s and shower cubicles, and glazed doors, which are not provided with pelmets, with obscure glass.

Glaze narrow sidelights to main entrance doors, where they occur, with wired obscure glass.

Glaze all other windows, fanlights, etc., with clear sheet glass.

10. PAINTER

10.1 Paints, generally - All materials for paintwork, for which South African Bureau of Standards specifications have been published shall comply with the requirements of such specifications and bear the standardisation mark of the Bureau. Materials for painting work for which no SABS Specifications have been published shall be of a brand approved by the Secretary.

All materials for paintwork must be brought on to the site in unopened containers and no adulteration will be allowed.

Primers and undercoats shall be of the same brand as the paint being used for the finishing coat.

Paints, etc., shall be suitable for application on the surface on which they are to be applied, and those used externally shall be of exterior quality or suitable for exterior use.

If necessary, paints shall be strained to remove skins and other impurities.

Where emulsion paint is specified, the Contractor may, at his discretion, use either the product with the poly-acrylic resin base or the polyvinyl acetate (PVA) base.

10.2 Limewash - Fast limewash shall be prepared as follows: To 50 kg fresh, unslaked white lime, add 7 kg salt and 5 kg tallow or boiled linseed oil. Add clean water to the lime, and while boiling, add tallow (or oil). When slaking is complete, pass through a fine sieve.

10.3 Preparatory work - All floors must be swept clean, and walls dusted down, and surfaces not being painted, such as face brickwork, sills, floors, etc. covered up and protected against spotting.

Woodwork being painted shall be brushed down, knots treated with knotting, and all surfaces primed, stopped with hard stopping and rubbed down to an even surface.

Back of frames and other joinery in contact with brickwork, etc., shall be primed before building in, whether the article is to be painted or not.

Priming to external structural timbers shall be applied before fixing and shall include all wrought surfaces of such timbers.

Woodwork being oiled or stained shall be thoroughly cleaned of all rust, scale, dirt, salt deposits and grease by scraping, brushing, or degreasing with alkali detergent solution, as required. After cleaning off rust on metalwork, those portions so affected shall be treated with an approved rust inhibitor.

All plastered surfaces being painted shall be filled, where necessary, with suitable stopping and the whole rubbed down.

All ceilings, cover strips and cornices being painted shall be filled, where necessary, with suitable stopping, and all nail heads be primed with flat paint (SABS 515).

Surfaces shall be perfectly dry before painting is commenced.

10.4 Application of paints, etc. - All coats of paints, etc. shall be thoroughly dry before subsequent coats are applied and rubbed down where necessary.

All work shall be finished to colour approved by the Director-General. The tints of undercoat shall approximate those of the finishing colour, but with a slight difference in the tint of each coat.

All prime coats shall be applied by brush, the priming being well brushed in to obtain maximum penetration.

The use of a spray gun on site will not be permitted, except in the case of cellulose or other special paints where spraying is the accepted method of application.

All materials shall be used in strict accordance with the manufacturer's instructions.

- 10.5 Painting to woodwork - To all exposed woodwork internally and externally, except to hardwood, shelves, ceiling cover strips and internal roof timbers to outbuildings, knot, prime with wood primer (SABS 678 - Type I externally and SABS 678 - Type III internally), stop, paint one undercoat (SABS 681 - Type II), and one coat high gloss enamel paint (SABS 630 - Type I or II).
- 10.6 Oiling and waxing to hardwood - Prepare, stop with tinted stopping and once oil with raw linseed oil and once wax polish all exposed hardwood surfaces internally, and twice oil all exposed hardwood surfaces externally, all well rubbed in.
- 10.7 Painting on metalwork - To all exposed galvanised metal surfaces, except to roof covering, and to all non-ferrous metal surfaces, prime with metal etch primer (SABS 723).
Steel windows, pressed steel door frames and other metalwork which had been pre-primed, shall be touched up with zinc chromate primer (SABS 679 - Type I), where required.
To all other exposed metalwork, except cast iron pipes, prime with zinc chromate primer (SABS 679 - Type I).
In addition to the priming coats specified above, paint one undercoat (SABS 681 - Type II) and one coat high gloss enamel paint (SABS 630 - Types I or II).
Eaves, gutters, and rainwater pipes shall be painted on the outside only.
- 10.8 Painting to asbestos cement external surfaces - To all exposed external asbestos cement surfaces, except to roof coverings, either:
 - 10.8.1 Paint two coats exterior emulsion paint (SABS 634 - Grade I), with 20% water added for the first coat, or
 - 10.8.2 Treat surfaces with an approved bonding liquid and paint two coats exterior emulsion paint (SABS 634 - Grade II).
Eaves, gutters, and rainwater pipes shall be painted on the outside only.
- 10.9 Painting to ceilings - To all interior gypsum plaster board or asbestos cement ceilings, including coverstrips and cornices, prepare, stop and paint two coats interior emulsion paint (SABS 633 - Grades I or II), with up to 20% water added for the first coat.
- 10.10 Painting to internal walls - Twice limewash to all internal bagged surfaces to outbuildings.
To plastered surfaces in kitchen, laundry, bathroom, and shower cubicle to house, and in bathroom/w.c. to outbuildings, prepare, prime with an approved alkali resisting primer, paint one undercoat (SABS 681 - Type II) and one coat high gloss enamel paint (SABS 630 - Types I or II).
- To all other internal plastered or fair faced common brick surfaces, prepare, apply one coat of either an approved pigmented filler/sealer or clear filler/sealer mixed with the finishing paint in the proportions recommended by the manufacturer, and paint either:
 - 10.10.1 One coat interior emulsion paint (SABS 633 - Grade I); or
 - 10.10.2 Two coats interior emulsion paint (SABS 633 - Grade II).
- 10.11 Painting of external walls - To all external plastered, bagged or fair faced common brick surfaces, prepare and either:
 - 10.11.1 Apply two coats exterior emulsion paints (SABS 634 - Grade I), with 20% water added for the first coat; or
 - 10.11.2 Apply one coat approved bonding liquid and two coats exterior emulsion paint (SABS 634 - Grade II).
- 10.12 Leave perfect - The Contractor shall exercise all necessary care to keep the works perfectly clean and free from spotting, and to leave the premises clean and fit for occupation at the completion of the work.

4. CONDITIONS OF CONTRACT

The conditions governing this Tender are as set out in the General Conditions of Contract for Construction Works, Third Edition (2015).

Contracts will only be awarded to Tenderers who, in the Engineer's opinion, are capable of manufacturing and supplying to the required standard. Workmanship shall conform to accepted industrial standards. The size of tools and equipment used shall be proportional to the task being conducted.

Tenders shall only be awarded on a fixed price basis and no escalation shall be considered.

The Contractor shall make no changes or modifications to any part of the design, or the equipment offered under this Contract without the written approval of the Engineer. The Department shall not accept any additional costs for any part of this Contract should any procedures contained therein are not complied with.

The Contractor shall be responsible to issue all of his Sub-contractors with the relevant sections of this tender document, any additional cost resulting from Sub-contractors not being fully informed, shall be for the contractors' account.

Guarantee

The defects liability period as stipulated in the General Conditions of Contract for Construction Works, Third Edition (2015), shall read 12 (twelve) months from the date of issue of the Commissioning Certificate by the Engineer to the Contractor and shall terminate with the issue of the Final Certificate by the Engineer. The Contractor's Guarantee shall include all aspects of the manufacturing process, including work done by any Sub-contractors.

4.01 PRECEDENCE OF THESE CLAUSES

The clauses contained in this section are intended to amplify the rest of the conditions contained in this tender document, and in certain instances to modify the contents. Should any discrepancy appear between these clauses and the rest of the conditions these clauses should take precedence.

4.02 EXTENT OF THE CONTRACT

This contract comprises mainly the upgrading of the Two-bedroom units at Midmar dam to specifications.

4.03 RESPONSIBILITIES

The extent of the contract as given above is intended to indicate the **general extent of the works** involved. It is not exhaustive in so far as any detailed item or associated work is concerned and shall **in no way relieve** the contractor of his responsibilities to comply with the specific requirements.

4.04 SEQUENCE OF WORK

The successful contractor will be required to complete the contract within the present financial year ending 31 March 2023. Completion date will depend on the date of appointment and contract period. The sequence of work shall be determined by the contractor and compiled in a works programme.

4.05 NATURE OF GROUND AND SUBSOIL CONDITIONS

The soil on the building sites is stable and ground pressure average. After excavation of foundation trenches, the Engineer will inspect the excavation and then decide on the structural design of the foundation. For purpose of this tender, the Contractor will price on conventional concrete strip foundations. Any reinforcing or change in foundation design will be paid by the provisional amount allocated for this purpose. The building sites have a natural slope of $\pm 1:1.5$. The Contractor will provide for preparatory groundworks if decided and instructed by the Engineer to form terraces on which the buildings will be situated, with maximum 1:40 slopes.

4.06 TEMPORARY BUILDINGS AND SERVICES

The contractor must make his **own arrangements** in connection with the following, the costs for which must be included in the "Preliminary and General" section, maintain it in a tidy and proper manner and adopt such precautions to prevent any pollution whatsoever.

- (a) Temporary accommodation and toilet facilities for all workers.
- (b) Temporary site offices and/or workshops.

The Department will supply a connection point within reasonable distance from the construction site for the following services:

(a) **Drinking and construction water**

The contract includes work at site where water is available of which the contractor may use, for construction purposes, free of charge. The Department reserves the right to limit the consumption before any connection or extension of the supply is made, which must be conducted at the contractor's expense and must be made good on completion of the contract. Under no circumstances may water be obtained from fire hydrants or fire hoses.

(b) **Electricity for the works**

The contractor shall provide all electricity for the execution of the works at his own expense. If the contract includes work at a site where electricity is available from a convenient Departmental source, the contractor can, with the prior approval of the representative, use electricity from such source at his own risk. The representative, however, reserves the right to either provide the electricity supply free of charge to the contractor, or he can limit the capacity of such free supply, or he can require from the contractor to arrange at his own cost for a metered connection to recover the cost of the consumption from the contractor.

4.07 CO-OPERATION BETWEEN CONTRACTORS/SUBCONTRACTORS

It is essential that contractors/subcontractors work in **co-operation** with each other. Possible differences arising should be settled by the contractors themselves and the employer will not be liable for any damage or loss arising from such differences.

4.08 PROCEDURE OF WORK

The Construction personnel, during the course of this contract will occupy the site. The works on this contract shall be carried out according to program in such a manner as to cause **the least inconvenience** to other Departmental personnel. The contractor shall co-ordinate with the employer's local representative which part of the work to be expedited requires priority.

4.09 SITE CLEARING AND LEVELLING

Clearing and levelling of the site after completion will be under strict supervision of the employer in terms of preserving the existing ecology. The site shall be levelled with the ground sloping away from the building, but the building shall have a **finished floor level of not less than 200 mm** above the level of the ground adjacent to the building at its highest point, unless shown otherwise on the drawings.

4.10 ADMISSION TO SITE

Permission for admission to and establishment on site.

Before the successful tenderer (contractor) established himself on the site, the **local Resident Engineer's** prior approval must be obtained.

4.11 INSURANCE

The contractor shall enter a policy of insurance **to cover his liability** under the laws in force relating to the workman's compensation and liability to the public and shall produce proof of such insurance having been affected by him.

The contractor shall indemnify the Department of Water and Sanitation from all claims due to accidents to workmen and the public during the execution of this contract.

4.12 CHECKING OF TENDER DOCUMENTS

On receipt of the tender documents, the tenderer must, prior to submitting his tender, **check all the tender documents** and should **any difference or discrepancy** between or in the drawings and specifications be detected by the tenderer, he shall seek in writing a decision, from the Director: Operations Eastern, Department of Water and Sanitation, Private Bag X24, Howick, 3290, on the true intent and meaning of the tender documents as the Department of Water and Sanitation **cannot be held liable** for the additional cost of extra work that may be caused as a result thereof.

4.13 SCOPE OF TENDER PRICE

The tender price and all prices and/or which are inserted into the price schedules in the specification and transferred to the tender form, must be for the execution and completion of the works as well as for the provision of all labour, materials, workmanship, machinery, plant, and everything that is or may become necessary.

4.14 VALUE ADDED TAX

The tender price shall include **value added tax** payable in terms of the Sales Tax Act No. 103 of 1978, as amended.

4.15 PURCHASING OF MATERIALS

- ♦ The contractor is required to purchase the materials necessary for the contract at the **earliest possible date** thus limiting the effect of inflation and to prevent delays.
- ♦ Payment for materials will only be affected if the contractor **can prove ownership** of the items and if the material **has been delivered to site**.
- ♦ The contractor will be **responsible for the security** and maintenance of all materials in storage on site or at any other place of the contractor's choice.
- ♦ The contractor will be required at his own expense to **make all arrangements for off-loading** and carefully stacking all materials delivered under this contract at the site of the works. The off-loading and stacking shall be carried out strictly in accordance with the requirements of the engineer to permit a thorough and careful examination and testing of all items for breakages, failures, etc. and any routine maintenance during storage.
- ♦ The contractor shall be fully responsible for the protection of all materials delivered by him to site but still in storage, against damage by water, weather, fire, and any other interference until such time as it is erected and installed, put into satisfactory operation, and accepted by the employer as complete.

4.16 PAYMENTS

4.16.1 Progress payment

(a) **Monthly part payments** will be made in accordance with the percentage tabulated below for the work completed on the building.

(b) The supervising Engineer (Civil Design) in collaboration with the Contractor will do the payment certificate. Payment will be made by the administration and financial section of Midmar Dam Departmental personnel.

(c) The **electrical installation** for the building will be regarded as a **unit for payment** purposes.

(d) Whilst the gullies and water supply pipes will be regarded as part of the building, **payment for the sewer lines** will be made **per metre length** of pipes laid. Payment will only be made after completion of the sewer lines on the site.

(e) Each interim payment certificate shall be subjected to retention by the Employer of 10% of the total work done to date. The retention will be reduced to 5% at the completion of the works (completion certificate), which will then be paid at the issuing of the Final Certificate at the end of the maintenance period. No limit will be applicable on the amount of the retention money.

Subsection of contract	Percentage of total cost
Site clearing and excavation	2
Removing tiles, insert waterproofing, reinstall tiles and high pressure clean	4
Stripping off old paint from walls and ceilings	2
Filling cracks in walls ceilings and cornices entire house / garage /maids	2
Stripping off paint from burglar guards, window frames and windows(replace putty and paint over once dried)	2
Built in cupboards kitchen	5
Installation of appliances in kitchen	4
Built in cupboards Bedroom 1	4
Built in cupboards Bedroom 2	5
Built in cupboards Bedroom 3 and maidsroom	5
Remove bath, washbasin, toilet seat	2
Install matching bath, washbasin and toilet seat according to specs	8
Paint toilet and bath ceilings	2
Extractor fan installation bathroom	1

Paint ceilings entire house	3
Paint interior walls main house, garage and maids room	2
Paint exterior walls main house, garage	5
Remove and Replace gutters, downpipes and accessories to specification	5
Paint burglar guards, window and frames accordingly	2
Remove and replace garage doors	5
Install anti mosquito/fly screen all opening windows of main house, maids room	5
Complete concrete slab as per drawings and specifications	5
Wooden doors and frames to be sandpapered and varnished as per specs	5
Tiling and plumbing as prescribed in laundry room, kitchen, toilet and bathroom	5
Driveway gate	5
Tidy site and handover	5
	100,00

4.16.2 Payment of **preliminary and general items** will be made in accordance with clauses 8.2.1 and 8.2.2 of SABS specification 1200A.

4.16.3 The contractor shall provide all **reasonable assistance** in the preparation of cash flow statements for certificate payments required by the employer.

Such statements shall be based on the programme for the execution of the works and shall be updated at such intervals, as the programme of work progress is required to be updated. The co-operation of the contractor under these items shall in no way prejudice his right to receive payment in terms of the contract.

4.16.4 The contractor can claim payment of 80% of the value of material for the contract, purchased by him and delivered to site, but not yet built in on his interim payment certificate. The contractor must provide the Engineer with documentation proving his ownership of such material.

4.16.5 The Tenderer shall complete the Daywork Schedule on which basis he will be paid for the execution of extra work as described in the preamble of the schedule. If an item was not included in this schedule, the contractor will be paid for that item according to **clause 40** in the "General Conditions of Contract for Works of Civil Engineering Construction", sixth edition (1990), with specific reference to **sub-clause (4) (a)**.

4.17 GENERAL

4.17.1 Throughout this document the following shall apply:

- (a) **Employer** shall mean the Minister of Water and Sanitation, acting on behalf of the Government of the Republic of South Africa or his duly authorized representative.
- (b) **Engineer** shall mean the Director-General of the Department of Water and Sanitation or his duly authorized representative. Refer to "Instructions to Tenderers" Clause 2.
- (c) Address of **Employer** at Head Office:

Director General
Department of Water and Sanitation
 Private Bag X313
 PRETORIA
 0001
 Tel.: (012) 336-8680

- (c) Address of **local resident engineer** on site:

Resident Engineer
Department of Water and Sanitation
 Private Bag X 24
 Howick
 3290
 Tel.: (033) 2391266

4.17.2 The contractor will be an active participant in the **preservation of the environment** and will be required to maintain and contribute towards the safekeeping of the environment. The contract shall regularly or at the engineer's instructions, **clean and clear away** all rubbish and excess materials as the works proceed. The contractor shall be responsible **for the protection** and safety of the premises **against fire** and shall take such precautions as may be directed by the representative of the Department.

4.17.3 **No wood or plant life** will be harvested from the building site or surrounding area.

- 4.17.4 The contractor shall **not extend** his operations **beyond the defined area** of the works. The area used by the contractor will be made good to the engineer's satisfaction, at completion of the works.
- 4.17.5 Any **relics, treasure** or other articles of value **found** on the site shall remain the property of the employer and shall be handed to the engineer who shall be the sole arbiter of what constitutes an article of value.
- 4.17.6 **Meetings** related to the progress and other detail of the contract of the works will be held at regular intervals and at such other times as may be necessary, attended by the following:
- (a) The engineer
 - (b) The contractor's representative/s
 - (c) The employer's representative
- Subcontractors shall not be present at progress meetings unless specifically requested by the contractor or Engineer. The engineer shall record the minutes of the meeting and distribute them to all affected parties.
- 4.17.7 The contractor shall **acquaint himself** during the pre-tender site meeting with the conditions under which the works are to be done and personally examine the means of access to works, the condition of the roads and generally of all matters which may influence the execution of this contract.
- 4.17.8 The contractor shall **provide first aid** facilities complying with the requirements of the Machinery Occupational Safety Act (No. 6 of 1983) and the Occupational Safety Act (Act No. 85 of 1993) and shall adhere to all rules and regulations of the mentioned act. Any death or injury that may occur directly or indirectly due to the actions of this contract shall be solely the responsibility of the contractor and the Department of Water and Sanitation will not be liable for the consequences.

4.18 COMMENCEMENT AND WORKS PROGRAMME

Commencement date of the works and hence the contract period shall be taken as the date of official site handover to the Contractor. The Contractor can commence work directly after receiving his letter of acceptance but at his own risk and only on approval of the Engineer.

Within 14 days of award of contract, the contractor **shall submit** a detailed comprehensive and realistic **works programme** reflecting all activities required up to final completion. The format of the programme shall be to the engineer's approval. The programme so submitted and approved shall be held to the binding throughout the contract period. The tender price shall be computed on the assumption that **all the material necessary** for the execution of this contract will **be readily available** when required in accordance with the programme for the works. The contractor shall use every reasonable endeavor to obtain supplies of all materials timeously.

4.19 LEAVE PERFECT

On the **completion** of the works the contractor shall **clear away and remove** from the site all construction plant, surplus materials, rubbish, and temporary works of any kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the engineer. The contractor shall also satisfy the engineer that he has complied with the conditions of any wayleaves, which the contractor has negotiated.

4.20 CONTRACT PRICE - ADJUSTMENT PROVISIONS

The general rule stipulates that:

- (a) If the contract term (the period or term of completion) is 6 months or shorter, the contract price irrespective of the amount involved shall be fixed and NO price adjustments shall be considered.
- (b) In respect of all contractors amounting to R500 000,00 and less for buildings or building related contracts, the contract price shall be fixed irrespective of the contract term.
- (c) The stipulations concerning contract price adjustments shall be applicable only to building contracts to the value of more than R500 000,00 and of which the contract terms are longer than 6 months.

(c) Notwithstanding (a), (b) and (c) above:

No price adjustments shall be applicable on this contract _____ and all tender rates or tariffs will be firm for the duration of the contract. The contractor shall compensate for any possible fluctuation of material or labour in his tender price.

4.21 NOTICE OF INSPECTIONS

Apart from normal site inspections and site meetings, the Contractor shall request the Engineer at the following stages of the contract to inspect and approve specific sections of the work:

- (a) At completion of foundation excavations.
- (b) After placing and fixing of reinforcing steel and before concrete casting.
- (c) After filling and compaction underneath floors and before casting of surface bedding.
- (d) After trench excavation and installation of pipes or cables but before commencing backfilling.

After chasing and installation of pipes or electrical services but before closing in and making good of brickwork. Testing to be conducted during inspection.

5. OCCUPATIONAL HEALTH AND SAFETY

The Occupational Health and Safety Act (Act number 85 of 1993) and related Regulations is applicable. Construction Regulations, Diving Regulations and Confined Areas Regulations have particular reference. The contractor shall notify the Department of Labour, prior to commencing with the project. The DWS shall ensure that the provisions of the OHS are complied with for the duration of the project. The contractor prior to commencing on with the project shall submit:

- A comprehensive OHS file in accordance with the OHS Act.
- A detailed site-specific risk assessment for review and acceptance;
- A detailed method statement for approval by the Project Manager.
- A detailed plan in terms of providing ventilation into the tunnel, gallery, and pipeline.

All work shall be done in accordance with relevant legislation(s) and regulation(s). The DWS reserves the right to stop the contractor from executing work, which is not in accordance with the contractor's OHS plan for the site or which poses a threat to the health and safety of persons. The contractor may not appoint a subcontractor unless the contractor is reasonable satisfied that the subcontractor has necessary competencies and resources to perform work safely. Any subcontractor appointment shall be approved by the Project Engineer. Where a contractor appoints a subcontractor, all OHS Act requirements shall be applicable to the subcontractor. The contractor shall appoint a full-time competent employee in writing as the project supervisor, with the duty of supervising the project.

When the contractor and employees is found contravening OHS Act, the DWS shall stop the work until such time that the contractor implemented corrective measures to the satisfaction of the DWS.

Section 37.2 Appointment

In accordance with the provisions of Section 37(2) of the Occupational Health and Safety Act 85 of 1993 wherein the Department of Water and Sanitation as Employer has entered into a contract with the Contractor, in terms of which the Contractor is to perform certain work and services for and on behalf of the Employer, subject to the terms and conditions as contained in such contract.

Then parties have agreed that in respect of performance of the work the Contractor shall be responsible for compliance with the Occupational Health & Safety Act and its Regulations. The Employer and Mandatory accordingly enter in this agreement in terms of Section 37(2) of the OHS Act, the terms, and conditions of which are set out in The Occupational Health and Safety Specification.

Risks Identified by the DWS

The following are the risks associated with this project as identified by the DWS:

- Service gate or isolating equipment failure
- Flooding
- Drowning
- Working at height
- Overhead Crane failure
- Injury due to falling material
- Failure of rigging equipment
- Falling due to slippery surfaces
- Scaffold and climbing equipment collapse
- Noise due to grinding, blast cleaning, etc
- Paint or chemical inhalation
- Injury due to hand tools
- Snake bite
- Hand arm vibration syndrome due to prolonged use of vibratory equipment
- Airborne Fibres and Materials

- Electrocution
- Moving Machinery
- Back injuries from carrying heavy loads
- Dehydration
- Injury of blasting equipment is serious
- Attack and theft (secluded site)

Notwithstanding the abovementioned risks the contractor shall formulate a risk management plan which will include additional risks identified by the contractor.

Costs of OHS

The cost for OHS shall be included in the Tendered rates.

6. MODIFICATIONS

Any modifications or deviations from the specification shall be indicated on the form "Proposed Alterations to Specification". The Contractor shall make no changes or modifications to any part of the design, or the plan offered under this Contract without the written approval of the Project Engineer. The DWS shall not accept any additional cost for any part of this Contract if this procedure has not been followed.

7. MEASUREMENT AND PAYMENT

Basic Principles

Notwithstanding the breakdown as indicated in the Tender Pricing Schedule, all the work and requirements of any nature as specified in this Technical Specification shall be covered by the Contractor in the pricing as reflected in the Tender Pricing Schedule. No additional cost for any work or requirement in this Technical Specification shall be allowed. All items covered by this Technical Specification shall be measured as final units meeting the functional requirements of the relevant specifications.

ALL PRICES IN THE TENDER PRICING SCHEDULE SHALL INCLUDE VALUE ADDED TAX.

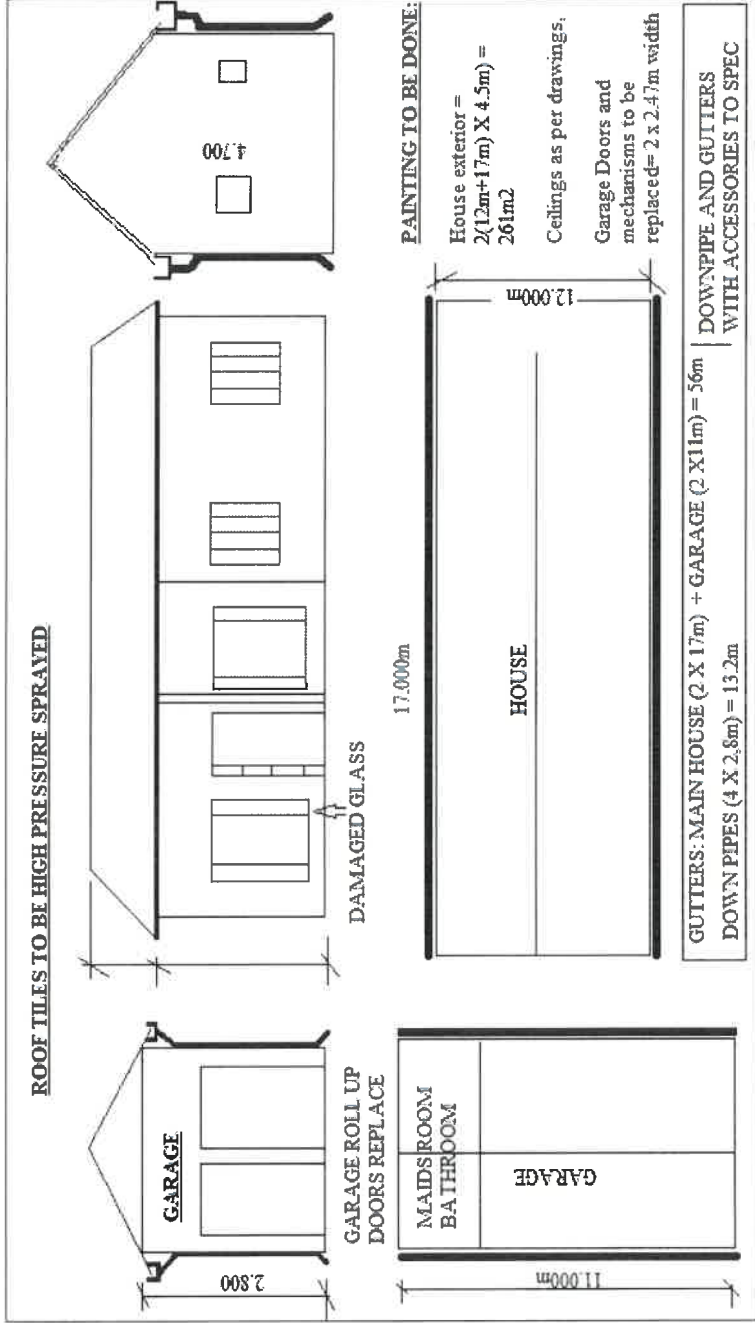
8. BILL OF QUANTITIES

Bill of quantities shall be submitted with bid documents. Please read instructions before completing or filling the table.

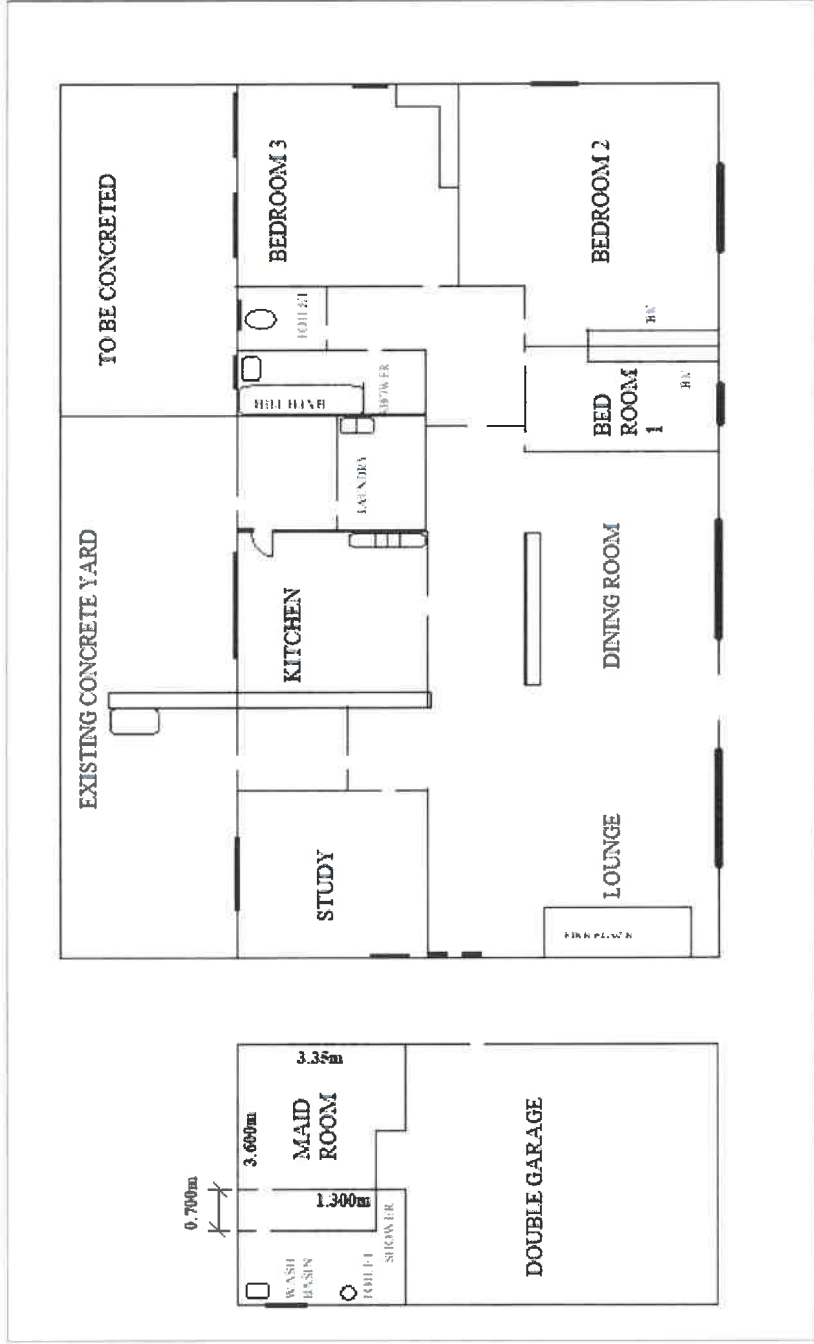
9. DRAWINGS AND SPECIFICATIONS:

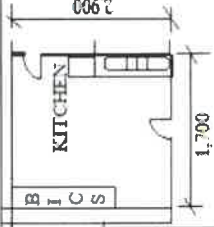
Please find attached drawings for house Number 5-7

TYPICAL SET UP EXTERIOR VIEW



TYPICAL PLAN LAYOUT



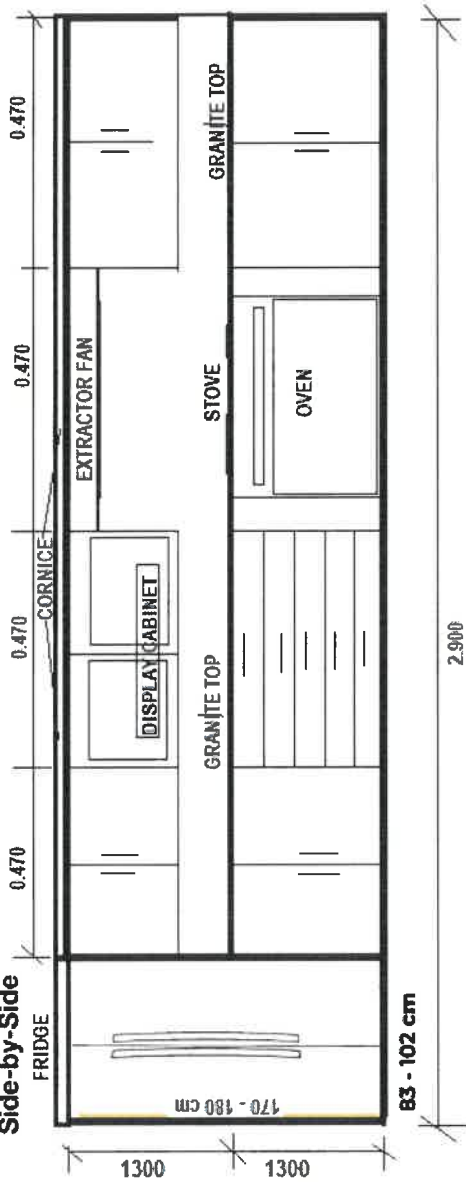


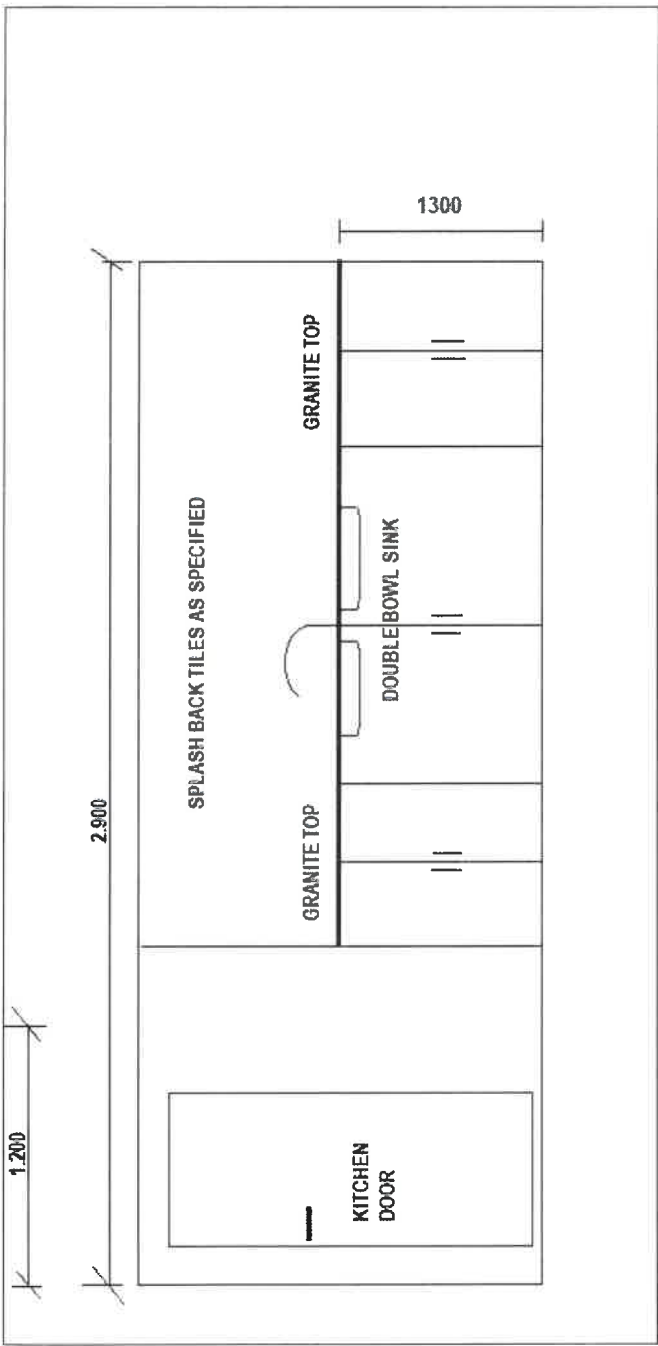
WORK TO BE DONE KITCHEN

- 1) REMOVE AND REPLACE OLD BUILT-IN CUPBOARDS, TO COVER FLOOR OVER EXISTING UNITS
- 2) UNITS TO INCLUDE PLACE FOR DEFTY 4 PLATE HOB, OVEN AND EXTRACTOR
- 3) UNITS TO INCLUDE PLACE FOR DOUBLE DOOR FRIDGE
- 4) DOUBLE BOWL SINK TO BE BUILT INTO UNITS AROUND EXISTING PLUMBING
- 5) SPLASHBACK TO BE INSTALLED AROUND SINK
- 6) CEILING TO BE STRIPPED OF OLD PAINT AND PAINTED TO SPECIFICATIONS
- 7) ROLLER BLINDS TO BE INSTALLED OVER KITCHEN WINDOWS.
- 8) KITCHEN DOOR AND FRAME TO BE SANDPAPERED AND VARNISHED



Side-by-Side





Specifications for Kitchen Units



Pull handle mild steel fit 12mm x 96mm Black or silver

Product labelcupboard hinge - 165 degree

Gross weight (kg)1.00

Product width in cm10

Product depth in cm10

Product height in cm10

Drawer ball bearing slide 45x350mm (payload 45kg) FIT

White melamine shelving 16mm x 1830mm
Shelves to be supported by strips on all four sides

SENSEA Remix blue fford available in sheets

Doors to cut to specifications

Chambervalue matt amber granite squareline postform top 600 x 3600 x 32mm Cut and fitted to size

Tiles to be replaced around the double bowl wash basin as splash back

Area specified in drawing above

Price quotation to include, bonding liquid, tile fix and grout SABBS standards apply

Stainless Steel Drop-In Double Centre Bowl Sink 1500 x 500mm DC1550L/DCB

Heavy Duty Kitchen Tap Mixer with Self-Retracting Pullout Faucet
BA6832



- Eye Level Static Oven
- A-Energy rating
- Removable inner glass
- Wire shelf with roaster included
- 4 solid plates with 1 high-speed plate
- Heat switches with indicator lights
- 2 Year warranty
- 3 Speed Setting Fan Speeds
- 2 Aluminium Filter
- 600mm Size
- 2 year(s) warranty

Work to be done on Maid room/bathroom

1. Bedroom: Ceiling dimension $3.6 \times 3.35 = 12.06 \text{ m}^2$
Ceiling to be painted
Cornices filled with polyfilla, rubbed to smooth finish and painted
2. Build-in cupboards 1, 5m W X 2.6m H
3. Wooden door & frame to be sandpapered and repainted
4. Mortice lockset to be installed
5. Steel window catch to be replaced

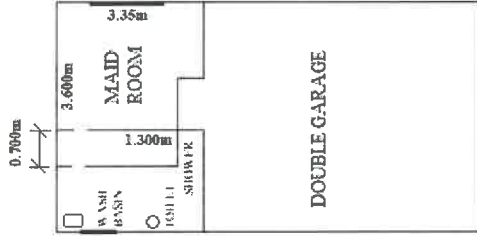
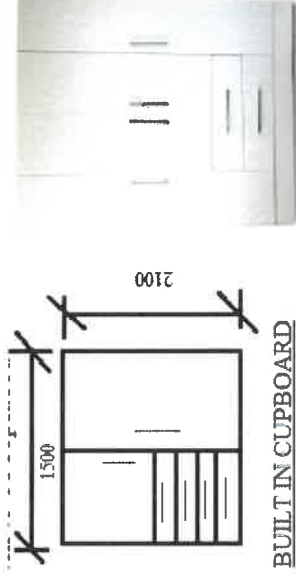


Photo: Sane Grey Mzali - 205 x 255 mm

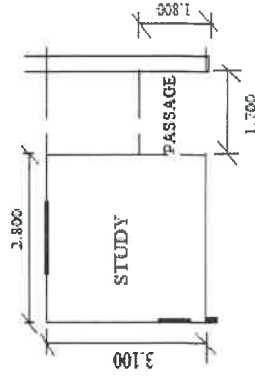


Bathroom:

To Tile walls: $(2\text{m} \times 2.35) + (1.28\text{m} \times 2.35) + (1.4\text{m} \times 2.35) = 10.998 \text{ m}^2$

To Tile floors: $(1.37\text{m} \times 1.97) + \text{Shower cubicle } 1.2 \times 0.75 = 3.6 \text{ m}^2$

To paint Ceiling dimension: $(2\text{m} \times 1.28\text{m}) + (1.4\text{m} \times 1.28) = 4.096 + \text{passage } (0.7 \times 1.3) = 5.006 \text{ m}^2$



WORK TO BE DONE IN STUDY AND PASSAGE:

- 1) Paint Ceiling: Room $3.1 \times 2.8 + \text{Passage } (1.700 \times 1.800) = 12.28 \text{ m}^2$
old paint to be stripped, cornices / cracks to be filled and ceiling to be painted to specification.
- 2) Burglar bars to be stripped of old paint, a rust coat is to be applied and finally a gloss paint to be applied
- 3) Window catch 19mm steel to be replaced on one window

Specifications for study and passage

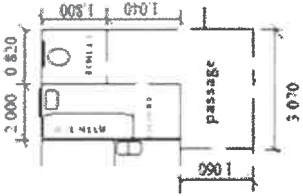
Metal window sliding stay 175mm



Interior/Exterior White only Application For ceilings and cornices Finish Interior/exterior **Features:** ColourWhiteSize5L Product/Packaging Information Product Weight5.41 kg Product Dimensions185mm(L) x 185mm(W) x 239mm(H)Shipping Weight5.41 kg Shipping Dimensions185mm(L) x 185mm(W) x 239mm(H)



ANTI RUST is a superior acrylic based corrosion resistant primer for use on new metal, galvanized iron and already rusted surface To be used on all window-frames and burglar guards



Work to be done: Toilet, bathroom and Passage

Ceiling: $(3.070 \times 1.060) - (1.040 \times 0.820) - (1.800 \times 0.820) = 14.41 \text{ m}^2$
All ceiling to be stripped of old paint, cracks filled, sandpapered and painted to specs.
Toilet pedestal and cistern. bathroom washbasin and bath tub ~ shower head to be replaced. Bath tub current size 1.78m X 0.740m



WASH BASIN MIXER



SHOWER MIXER

SHOWER HEAD



Beta Iqwa White Dual Top Flush Toilet Suite - Incl. Seat



BATH TUB MIXER

Specifications for Bathroom and Toilet

Interior/Exterior White only Application For ceilings and cornices Finish Interior/exterior **Features:** ColourWhiteSize5L Product/Packaging Information Product Weight5.41 kg Product Dimensions185mm(L) x 185mm(W) x 239mm(H)Shipping Weight5.41 kg Shipping Dimensions185mm(L) x 185mm(W) x 239mm(H)
ANTI RUST is a superior acrylic based corrosion resistant primer for use on new metal, galvanized iron and already rusted surface



To be used on all window-frames and burglar guards

White Acrylic Built-In with Handles 170x70cm

Base to be built to support tub, plumbing to be connected to existing plumbing, testing to be done at each stage of the tub installation.

Acrylic Set must include:

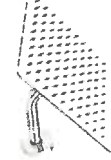
- 1 x pan
- 1 x cistern
- 1 x mechanism
- 1 x basin
- 1 x pedestal



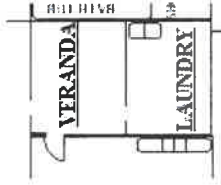
- Twin Hole Bath Filler Tap - with handheld shower head. Solid brass body - Chrome finish. Cross Head Knobs. Hand-held shower head 1.5 metre - shower hose. High-Quality Material - This bath tap is made of high-precision copper and is durable & crack-resistant. Durable Ceramic Cartridge - Our bath mixer tap has a high-quality ceramic cartridge that can not only smoothly adjust the temperature and water volume but also effectively withstand high temperature and long-term wear, ensuring a long service life for your bathroom fitting. 2 Functions - Gently pull the diverter left and right to switch between the bath spout and shower



- Body and spout made of brass suitable for high-quality faucets. Ceramic cartridge closure system. Includes aerator for a more comfortable jet. Especially for sinks embedded or with a tap support system. Surface is free of defects or scratches. Product tested to resist oxidation or corrosion. Proper operation from 20 to 125 PSI.



Showerhead and shower arm are made of stainless steel, and shower mixer is brass bodies. It's high quality and durability.
Specifications: Colour: Chrome-plated; 1 x 6" Square Showerhead; 1 x 30cm Square Shower Arm; 1 Set Square Handle Shower Mixer



Work to be done at Laundry room and Veranda

LAUNDRY ROOM:

Ceiling to be painted area: $2.1 \times 1.85 = 3.885\text{m}^2$

Old shelving to be removed

Walls to be painted: area $2(2.1 \times 1.85) + 2(2.65 \times 1.85) = 17.575\text{m}^2$

Splashback tiles to be installed around sink:

area $1.060 \times 0.460 + 0.660 \times 0.460 = 0.530\text{m}^2$ tiles required..

Verandah:

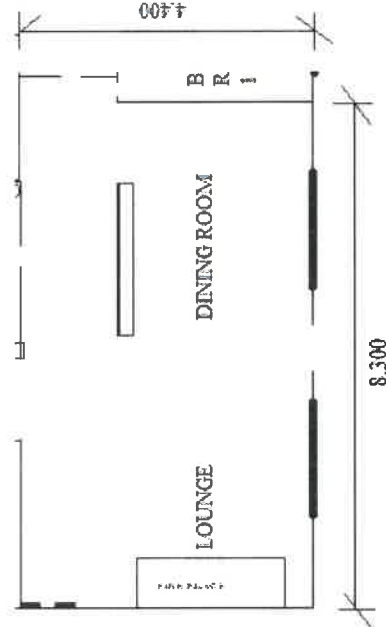
Ceiling: 4m^2

Walls : $1.4 \times 2.9\text{m} = 4.06\text{m}^2$

Wooden door and frame needs sandpaper and varnish

Summary:

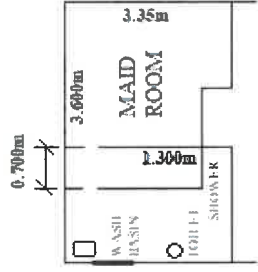
1. Laundry room ceilings painting
2. Laundry room wall painting
3. Tiling around wash trough
4. Veranda ceiling painting
5. Veranda walls



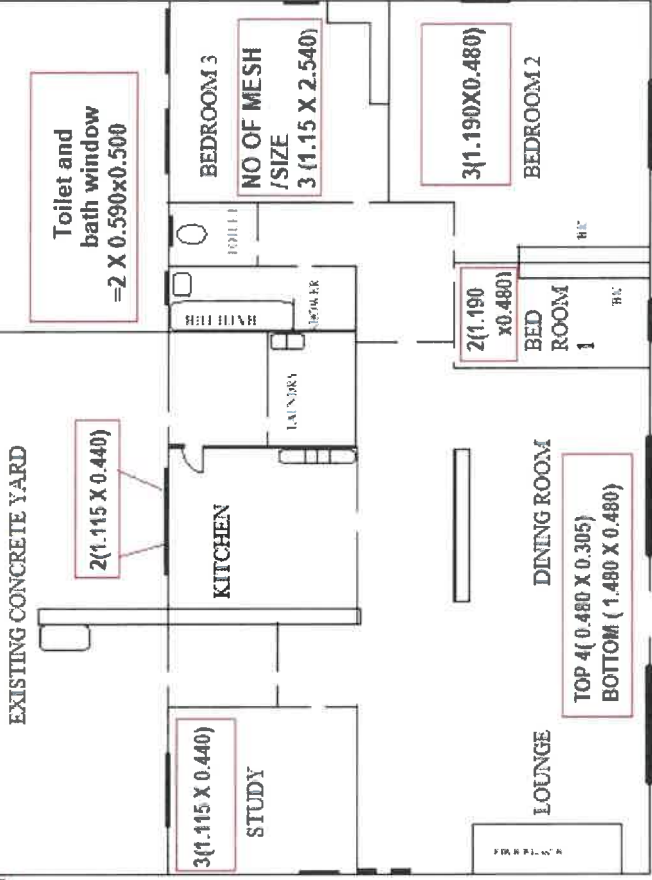
Summary of work to be done Lounge & diningroom

1. Ceiling to be painted area $8.300 \times 4.400 = 36.52\text{m}^2$
2. Lounge window glass 1.440×0.440 to be replaced
3. Old ceiling paint to be stripped, cracks filled especially around cornices and ceiling painted to specifications
4. Small Passage to bedroom $1.07 \times 1.38 \times 2 = 2.95\text{m}^2$ ceiling to be painted
5. Window / burglar bars to be stripped of old painted, painted with rust coat and painted to specifications

WINDOWS WITH ANTI FLY/
MOSQUITO NETS TO BE INSTALLED



TO BE CONCRETED

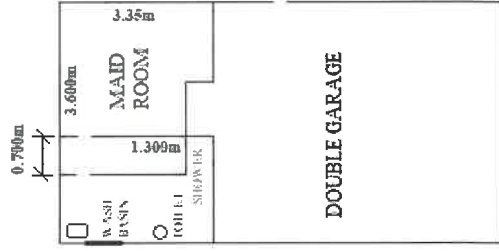


SPECIFICATIONS FOR SCREEN

Sunsan Anti fly/mosquito window mesh screen
Easy to install and clean

fly screen size: 1.5m x 1.3mthe screen can also be cut to size with an ordinary pair of scissors.

WORK TO BE DONE ON BEDROOMS



EXISTING CONCRETE YARD

TO BE CONCRETED

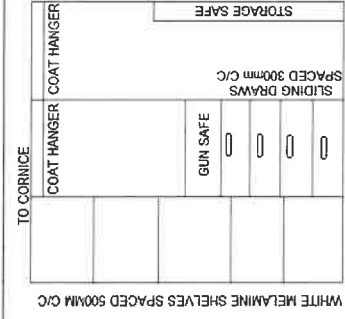




Style color and Finish of Built in cups in Bedroom 1 & 2



Style color and finish in Bedroom 3



Specifications of work to be done on Bedroom1, 2 & 3

	Interior/Exterior White only Application cornices Finish Interior/exterior Product/Packaging Information Product Weight5.41 kg Product Dimensions185mm(L) x 185mm(W) x 239mm(H)Shipping Weight5.41 kg Shipping Dimensions185mm(L) x 185mm(W) x 239mm(H)	For ceilings and cornices ColourWhiteSize5L
	ANTI RUST is a superior acrylic based corrosion resistant primer for use on new metal, galvanized iron and already rusted surface To be used on all window-frames and burglar guards	
	Black or silver	
	Pull handle mild steel fit 12mm x 96mm Product labelcupboard hinge – 165 degree Gross weight (kg)1.00 Product width in cm10 Product depth in cm10 Product height in cm10	
	Drawer ball bearing slide 45x350mm (payload 45kg) FIT	
	White melamine shelving 16mm x 1830mm Shelves to be supported by strips on all four sides	
	SENSEA Remix blue fford available in sheets Doors to cut to specifications	



Contract No. :
7 Midmar Dam
of Quantities

ITEM NO	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A		SECTION 1 - PRELIMINARY AND GENERAL (GENERAL SMALL WORKS)				
1	8.3	SANS 1200 AA				
		SCHEDULE FIXED CHARGE AND VALUE RELATED ITEMS				
	8.3.1	Contractual Requirements	Sum	1		
	8.3.2	Provision of Facilities on site				
		b) Facilities required by contractor				
		(i).....				
		(ii).....				
		(iii).....				
		(iv).....				
	8.3.3	General responsibilities and other Fixed-charge obligations	Sum	1		
		(i).....				
		(ii).....				
		(iii).....				
		(iv).....				
	8.3.4	Removal of Site Establishment	Sum	1		
		SECTION OHS 193 SAFETY SPECIFICATION				
		1. Appointment of a Health and Safety officer for the duration of the project.	Sum	1		
		2. OHS Compliance according to the OHS Act no. 85 of 1993 and Regulations.	Sum	1		

AMOUNT CARRIED FORWARD



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Contract No. :

Maintenance Work at Houses 5-7 Midmar Dam Pricing Data - Bill of Quantities

ITEM NO	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B		SECTION 2 - BUILDING WORKS MAINTENANCE WORK				
		1. Site clearing and excavation Removal of grass, shrubs and trees Area Total 2000m ² -1Area of house, garage and shed) 417= 1583 m ²	m2	1583 X 3		
		2. Remove roof tiles , install waterproofing, put back roof tiles				
		3. Removal of roof tiles	m2	417 x3		
		4 Installation of water proofing membrane	m2	417x3		
		5. Install Roof tile	m2	417x3		
		6. High pressure cleaning of roof tiles 234 + 120 + 63	m2	417 X 3		
		7. Stripping off old paint from walls and ceilings 4+12.06+5.006+3.89+4.93+12.82+ 36.52+7.30+9.49+10.314+14.41	m2	121 X 3		
		8. Filling cracks in walls ceilings and cornices entire house / garage /maids	m2	10 X3		
		9. Stripping off paint from burglar guards, window frames and windows(replace broken glass, putty and paint over once dried	m2	10 X 3		
		10. Remove old Built in Cupboards/shelves from Kitchen & Bedrooms Built in cupboards kitchen (AS PER DRAWINGS AND SPECS) Built in cupboards in cut outs as per drawings in Bedroom1,2 & 3 Build in cupboard maids room (AS PER DRAWINGS AND SPECS)	units UNITS UNITS UNITS	12 3 9 3		
		11. Installation of appliances in kitchen Stove, hob, extractor Double bowl sink Roller blinds	UNITS	3		
		12. Paint ceilings entire house	m2	3 X 292		
		13. Paint interior walls main house17.575+4.06+1.7*2*2.6+(2*2.8*3.1 +2.95)+2(8.3*4.4*2)+2(2*2.6+1.5*2.6)+2*0.65*2.6*2.6)+(2*2.54*4.060* 2.6) .garage 2(7.64*2.6)+8(2.6)1.5 and maidsroom+bedroom 2(3.6*2 + 2(3.35*2.6) +2(0.7*2.6) + (1.3*2.6)	m2	3X 410		
		14. Paint exterior walls main house, garage 2(2.8*17)+2(12*3)+2(9.4)	m2	186 X3		
		15. Remove and Replace gutters, downpipes Barge boards house and garage (2*12+2*8) Fascia Boards 2*11+2*17	UNITS UNITS UNITS	3 3*40 3*54		
		16.Paint burglar guards, window and frames accordingly	m2	120		
		17.Remove and replace garage doors	UNITS	3		
		18.Install anti mosquito/fly screen all opening windows of main house, maids room	UNITS	3 X 18		
		19.Complete concrete slab as per drawings and specifications	m2	3X (6*6)		
		20.Wooden doors and frames to be sandpapered and varnished as per specs	UNITS	24 DOORS		



**Contract No. :
-7 Midmar Dam
of Quantities**

ITEM NO	PAY REF	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		21. Tiling and plumbing as prescribed in laundry room, kitchen, toilet and bathroom+	UNITS	3		
		22. Install driveway gate	UNITS	3		
		23. Tidy site and handover				

DATE:

SIGNATURE OF TENDERER:

4.

EVALUATION CRITERIA

The **80/20** preference points system as prescribed in the **Preferential Procurement Regulations 2022**, will be applied to evaluate this proposal. Quotations received will be evaluated in three (3) stages namely, Administrative and mandatory Compliance, Technical Compliance and Price and preference.

The evaluation process includes the following phases:

- Phase 1: Administrative and Mandatory compliance
- Phase 2: Technical Compliance
- Phase 3: Price and preference

Phase 1:

Administrative Compliance:

- Tax compliance with SARS (To be verified on CSD-Central Supplier Database and SARS)
- Completion, signing and submission of SBD forms with the bid documents (SBD 1, SBD 3.1, SBD 4, SBD 6.1 and Annexure C)
- Active registration with Company Intellectual Property Commission (to be verified through CSD and CIPC)

Mandatory Compliance:

Bidders are required to comply with the following listed below:

Failure to submit any of the compliance documents shall render your bid non-responsive and will be disqualified from further evaluation.

- Certificate of good standing in accordance with COIDA
- Attach valid CIDB certificate Grading 2GB /2CE
- Completed bill of quantities
- Signed Briefing Certificate. Bidder's name must appear on the attendance register.

Phase 2:

Technical Compliance:

Criteria	Sub-Criteria	Comply Yes/No
Team capability	Demonstrated skills and experience of key personnel for this project, limited to the Project Manager or Site agent. An Organogram with personnel relevant to the project (ie artisan/Plumber with trade test) Attach 1 page resume of Project Manager or Site Agent indicating, amongst others, relevant qualifications, experience, accreditation/affiliation (where relevant), etc. • PM or Site Agent with 2 or more years building experience.	
Proposed construction programme	Provides a detailed list of tasks necessary to complete the works, tasks a specific to the project and encompass construction milestones Appropriate timeline and time estimates	
Past relevant work experience	Two (2) award letters, completion certificates and verifiable completion certificates of which the scope of work is relevant to the project scope as prescribed in the project specification.	
Methodology	Items (a-g) must be clearly outlined in the detailed method statement. a) Work Sequence b) Time c) Resources d) Associated Health, Safety and Environmental Assessments e) Control Measures f) Welfare Facilities g) Work Method etc. • Content, Clear, detailed presentation of the scope of work with full understanding and a logical structure.	

Phase 3:

Price and Preference Goals:

80/20 Principle will be applied in terms of the new Preferential Procurement Regulations, 2022 pertaining to the PPPFA Act no 5 of 2000.

During this phase, quotations will be evaluated based on 80 points for price and 20 points for the listed specific goals. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

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

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 allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
TENDERERS THAT ARE FEMALE		5		
TENDERERS THAT HAVE A DISABILITY		5		
TENDERERS THAT ARE YOUTH		5		
LOCATION OF ENTERPRISE (LOCAL EQUALS PROVINCE)		2		
B-BBEE STATUS LEVEL CONTRIBUTORS FROM LEVEL 1 TO 2 WHICH ARE QSE OR EME		3		

**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)				
BID NUMBER:	WTE-0039ES	CLOSING DATE:	23 FEBRUARY 2023	CLOSING TIME: 11:00
DESCRIPTION	THE MAINTENANCE OF HOUSES AT MIDMAR DAM			
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)				
MIDMAR DAM WALL ENTRANCE				
SECURITY GUARDHUT				
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO		TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	NISHAN SINGH	CONTACT PERSON	NIRDOSH PUNCHUM	
TELEPHONE NUMBER		TELEPHONE NUMBER	0605874655	
FACSIMILE NUMBER		FACSIMILE NUMBER		
E-MAIL ADDRESS	SINGHN@DWS.GOV.ZA	E-MAIL ADDRESS	PUNCHUMN@DWS.GOV.ZAA	
SUPPLIER INFORMATION				
NAME OF BIDDER				
POSTAL ADDRESS				
STREET ADDRESS				
TELEPHONE NUMBER	CODE	NUMBER		
CELLPHONE NUMBER				
FACSIMILE NUMBER	CODE	NUMBER		
E-MAIL ADDRESS				
VAT REGISTRATION NUMBER				
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:	OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] ☐ Yes ☐ No	B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] ☐ Yes ☐ No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSES) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]				
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		☐ Yes ☐ No [IF YES, ANSWER PART B:3]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS				
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? 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. ☐ YES ☐ NO				

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:	1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION. 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, 2022, 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 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:

.....

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).
- a) The applicable preference point system for this tender is the 90/10 preference point system.

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

- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. 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	80
SPECIFIC GOALS	20
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 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

$$\begin{array}{ccc} 80/20 & \text{or} & 90/10 \\ P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) & \text{or} & P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) \end{array}$$

Where

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{min} = Price of lowest acceptable tender

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:

$$\begin{array}{ccc} 80/20 & \text{or} & 90/10 \\ P S = 80 \left(1 + \frac{P t - P \text{ max}}{P \text{ max}} \right) & \text{or} & P S = 90 \left(1 + \frac{P t - P \text{ max}}{P \text{ max}} \right) \end{array}$$

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 80/20 or 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 80/20 or 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 80/20 or 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 and 80/20 preference point system.

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

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
TENDERERS THAT ARE FEMALE		5		
TENDERERS THAT HAVE A DISABILITY		5		
TENDERERS THAT ARE YOUTH		5		
LOCATION OF ENTERPRISE (LOCAL EQUALS PROVINCE)		2		
B-BBEE STATUS LEVEL CONTRIBUTORS FROM LEVEL 1 TO 2 WHICH ARE QSE OR EME		3		

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 TENDERER(S)	
.....	
SURNAME AND NAME:	
DATE:	
ADDRESS:	
	
	
	
	

Industrial Procurement

Industrial Procurement

The revised Preferential Procurement Policy Framework Act (PPPFA) regulations which came into effect on the 7 December 2011 empower the Department of Trade, Industry and Competition (**the dtic**) to designate industries, sectors and sub-sectors for local production at a specified level of local content.

The following industries, sectors and sub-sectors have so far been designated for local production with minimum local content thresholds.

Industry/sector/sub-sector	Minimum threshold for local content
Buses (Bus Body)	80%
Textile, Clothing, Leather and Footwear	100%
Steel Power Pylons, Monopole Pylons, Steel Substation Structures, Powerline Hardware, Street Light Steel Poles, Steel Lattice Towers	100%
Canned / Processed Vegetables	80%
Pharmaceutical Products:	
• OSD Tender • Family Planning Tender	• 70% (volumes) • 50% value
Rail Rolling Stock	65%
Set Top Boxes (STB)	30%
Furniture Products:	
• Office Furniture • School Furniture • Base and Mattress	• 85% • 100% • 90%
Solar Water Heater Components	70%
Electrical and telecom cables	90%
Valves products and actuators	70%
Residential Electricity Meter :	
• Prepaid Electricity Meters • Post Paid Electricity Meters • SMART Meters	• 70% • 70% • 50%
Working Vessels/Boats (All types):	
• Components	• 10% – 100%

• Class 3 • Class 4	• 45% • 10%
• Components and conversion activities	• 50% – 100%
Solar PV Components:	
• Laminated PV Modules • Module Frame • DC Combiner Boxes • Mounting Structure • Inverter	• 15% • 65% • 65% • 90% • 40%
Two Way Radio Terminals and Associated Equipment:	
• Portable Radio • Mobile Radio • Repeater • Components	• 60% • 60% • 60% • 20% – 100%
Rail Signaling:	• 65%
• Components	• 40% – 100%
Wheely Bins:	100%
Fire Fighting Vehicle	30%
• Crew Cabin • Super Structure • Assembly	• 100% • 100% • 100%
Steel Products and Component for Construction	
Steel Value-added Products • Fabricated Structural Steel • Joining/Connecting Components • <i>Frames</i> • <i>Roof and Cladding</i> • <i>Fasteners</i> • <i>Wire Products</i> • Ducting and Structural pipework • Gutters, downpipes & launders •	• 100% • 100% • 100% • 100% • 100% • 100% • 100% • 100% • 100% • 100% • 100% • 100%
Steel Value-added Products • Plates • Sheets • Galvanised and Colour Coated Coils • Wire Rod and Drawn Wire • Sections • Reinforcing bars •	• 100% • 100% • 100% • 100% • 100% • 100% • 100%
Pumps, Medium Voltage (MV) Motor and Associated Accessories	70%
• Casting or Frame Fabrication • Fabrication and winding of the Rotor Core • Accessories • Assembly and testing of the fully-built unit	• 100% • 100% • 100% • 100%
Rail Permanent Way	90%
• Rails and rail joints • Ballasts • Ballastless • Turnouts/switches and crossings • Railway sleepers • Rail fastening and accessories • Railway maintenance of way plant & equipment • Assembly and testing of fully build unitst	• 100% • 100% • 100% • 100% • 100% • 100% • 70% • 100%
Plastic Pipes	100%
• Polyvinyl chloride (PVC) pipes • High density polyethylene (HDPE) pipes • Polypropylene (PP) pipes • Glass reinforced plastic (GRP) pipes	• 100% • 100% • 100% • 100%
Air Insulated MV Switchgear	50%

• Structural Steel • Rubber • Conveyor Belt • Pulleys	• 100% • 100% • 100% • 60%
Industrial lead Acid Batteries	
Cement	50%
• Cem I • Cem II • Cem III • Cem IV • Cem V • Masonry Cement	100% • 100% • 100% • 100% • 100% • 100% • 100%

To access the practice notes to the above designated sectors, please go to www.treasury.gov.za

Other industries, sectors and sub-sectors are still being considered for designation. Once a thorough research and consultations have been concluded a decision to designate will be communicated to the public.

Regulation 8(4) of the 2017 Preferential Procurement Regulations provides that if there is no designated sector, an organ of state may include, as a specific condition of the tender, that only locally produced services or goods or locally manufactured goods with a stipulated minimum threshold for local production and content, will be considered. The per the standard issued by National Treasury designated sectors circular number 11 of 2019/2020.

Please note that the Minister of Finance has approved the following instructions relating to the amendment of:

- Declaration Certificates for Local Production and Content for designated sectors (SBD 6.2 and MBD6.2); and
- National Treasury Instruction on: Invitation and evaluation of bids based on a stipulated minimum threshold for local production and content for Valve Products and Actuators

These instructions will be effective from the date of issue and can be accessed on the National Treasury website.

The standard bidding documents (SBD 6.2 or MBD 6.2) must be completed in line with the requirements of the SABS approved technical specification number [SABS approved standard SANS 1286:2017](#) and the [Guidance Document for the Calculation of Local Content](#) together with the Local Content Declaration Templates

- [Annexure C](#): Local Content Declaration – Summary Schedule,
- [Annexure D](#): Imported Content Declaration – Supporting Schedule to [Annexure C](#) and
- [Annexure E](#): Local Content Declaration – Supporting Schedule to [Annexure C](#).

All these documents are important for the calculation, measurement and verification of local content.

- [SABS approved standard SANS 1286:2017](#)
- [Guidance Document for the Calculation of Local Content](#)
 - [Annexures C, D and E](#) – Download in [PDF] or [XLS] format.
 - Examples of completed annexures
 - Buses
 - Canned vegetables
- [Preferential Procurement Regulations, 2017](#)
- [Process when requesting exemption letters](#)

For local content related enquiries, please call the helpline on +27 (12) 394 1435.

For technical enquiries please contact Ms Cathrine Malidza:

Director: Fleet Procurement

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Page 10



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Guidance Document for the Calculation of Local Content

1. DEFINITIONS

Unless explicitly provided in this guideline, the definitions given in SATS 1286:2011 apply.

2. GENERAL

2.1. Introduction

This guideline provides tenderers with a detailed description of how to calculate local content of products (goods, services and works) by components/material/services and enables them to keep an updated record for verification requirements as per the SATS 1286:2011 Annexure A and B.

The guideline consists of two parts, namely:

- a written guideline; and
- three declarations that must be completed:
 - Declaration C: “Local Content Declaration – Summary Schedule” (see Annexure C);
 - Declaration D: “Imported Content Declaration – Supporting Schedule to Annex C” (see Annexure D); and
 - Declaration E: “Local Content Declaration – Supporting Schedule to Annex C” (see Annexure E).

The guidelines and declarations should be used by tenderers when preparing a tender. A tenderer must complete Declarations D and E, and consolidate the information on Declaration C.

Annexure C must be submitted with the tender by the closing date and time as determined by the Tender Authority. The Tender Authority reserves the right to request that Declarations D and E also be submitted.

If the tender is successful, the tenderer must continuously update Declarations C, D and E with actual values for the duration of the contract.

NOTE:

Annexure A is a note to the purchaser in SATS 1286:2011; and
Annexure B is the Local Content Declaration IN SATS 1286:2011.

2.2. What is local content?

According to SATS 1286:2011, the local content of a product is the tender price less the value of imported content, expressed as a percentage. It is, therefore, necessary to first compute the imported value of a product to determine the local content of a product.

2.3. Categories: Imported and Local Content

The tenderer must differentiate between imported content and local content.

Imported content of a product by components/material/services is separated into two categories, namely:

- products imported directly by the tenderer; and
- products imported by a third party and supplied to the tenderer.

2.3.1. Imported Content

Identify the imported content, if any, by value for products by component/material/services. In the case of components/materials/services sourced from a South African manufacturer, agent, supplier or subcontractor (i.e. third party), obtain that information and Declaration D from the third party.

Calculate the imported content of components/materials/services to be used in the manufacture of the total quantity of the products for which the tender is to be submitted.

As stated in clause 3.2.4 of SATS 1286:2011: "If information on the origin of components, parts or materials is not available, it will be deemed to be imported content."

2.3.1.1. Imported directly by the tenderer:

When the tenderer import products directly, the onus is on the tenderer to provide evidence of any components/materials/services that were procured from a non-domestic source. The evidence should be verifiable and pertain to the tender as a whole. Typical evidence will include commercial invoices, bills of entry, etc.

When the tenderer procures imported services such as project management, design, testing, marketing, etc and makes royalty and lease payments, such payments relating to the tender must be included when calculating imported content.

2.3.1.2. Imported by a third party and supplied to the tenderer:

When the tenderer supplies components/material/services that are imported by any third party (for example, a domestic manufacturer, agent, supplier or subcontractor in the supply chain), the onus is on the tenderer to obtain verifiable evidence from the third party.

The tenderer must obtain Declaration D from all third parties for the related tender. The third party must be requested by the tenderer to continuously update Declaration D. Typical evidence of imported content will include commercial invoices, bills of entry etc.

When a third party procures imported services such as project management, design, testing, marketing etc. and makes royalty and lease payments, such payments relating to the tender must be included when calculating imported content.

2.3.1.3. Exempt Imported Content:

Exemptions, if any, are granted by the Department of Trade and Industry (**the dti**). Evidence of the exemptions must be provided and included in Annexure D.

2.3.2. **Local Content**

Identify and calculate the local content, by value for products by components/materials/services to be used in the manufacture of the total quantity of the products.

3. ANNEXURE C

3.1. Guidelines for completing Annexure C: Local Content Declaration – Summary Schedule

Note: The paragraph numbers correspond to the numbers in Annexure C.

- | | |
|--------------------------------------|---|
| C1. Tender Number | Supply the tender number that is specified on the specific tender documentation. |
| C2. Tender description | Supply the tender description that is specified on the specific tender documentation. |
| C3. Designated products | Supply the details of the products that are designated in terms of this tender (i.e. buses). |
| C4. Tender Authority | Supply the name of the tender authority. |
| C5. Tendering Entity name | Provide the tendering entity name (for example, Unibody Bus Builders (Pty) Ltd). |
| C6. Tender Exchange Rate | Provide the exchange rate used for this tender, as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2. |
| C7. Specified local content % | Provide the specified minimum local content requirement for the tender (i.e. 80%), as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MDB) 6.2. |
| C8. Tender item number | Provide the tender item number(s) of the products that have a local content requirement as per the tender specification. |

C9. List of items

Provide a list of the item(s) corresponding with the tender item number.
This may be a short description or a brand name.

Calculation of local content

C10. Tender price

Provide the unit tender price of each item excluding VAT.

C11. Exempted imported content

Provide the ZAR value of the exempted imported content for each item, if applicable. These value(s) must correspond with the value(s) of column D16 on Annexure D.

C12. Tender value net of exempted imported content

Provide the net tender value of the item, if applicable, by deducting the exempted imported content (C11) from the tender price (C10).

C13. Imported value

Provide the ZAR value of the items' imported content.

C14. Local value

Provide the local value of the item by deducting the Imported value (C13) from the net tender value (C12).

C15. Local content percentage (per item)

Provide the local content percentage of the item(s) by dividing the local value (C14) by the net tender value (C12) as per the local content formula in SATS 1286.

Tender Summary

C16. Tender quantity

Provide the tender quantity for each item number as per the tender specification.

C17. Total tender value

Provide the total tender value by multiplying the tender quantity (C16) by the tender price (C10).

C18. Total exempted imported content

Provide the total exempted imported content by multiplying the tender quantity (C16) by the exempted imported content (C11). These values must correspond with the values of column D18 on Annexure D.

C19. Total imported content

Provide the total imported content of each item by multiplying the tender quantity (C16) by the imported value (C13).

C20. Total tender value

Total tender value is the sum of the values in column C17.

C21. Total exempted imported content

Total exempted imported content is the sum of the values in column C18. This value must correspond with the value of D19 on Annexure D.

C22. Total tender value net of exempted imported content

The total tender value net of exempt imported content is the total tender value (C20) less the total exempted imported content (C21).

C23. Total imported content

Total imported content is the sum of the values in column C19. This value must correspond with the value of D53 on Annexure D.

C24. Total local content

Total local content is the total tender value net of exempted imported content (C22) less the total imported content (C23). This value must correspond with the value of E13 on Annexure E.

C25. Average local content percentage of tender

The average local content percentage of tender is calculated by dividing total local content (C24) by the total tender value net of exempted imported content (C22).

4. ANNEXURE D

4.1. Guidelines for completing Annexure D: “Imported Content Declaration – Supporting Schedule to Annexure C”

Note: The paragraph numbers correspond to the numbers in Annexure D.

- | | |
|----------------------------------|--|
| D1. Tender number | Supply the tender number that is specified on the specific tender documentation. |
| D2. Tender description | Supply the tender description that is specified on the specific tender documentation. |
| D3. Designated products | Supply the details of the products that are designated in terms of this tender (i.e. buses). |
| D4. Tender authority | Supply the name of the tender authority. |
| D5. Tendering entity name | Provide the tendering entity name (i.e. Unibody Bus Builders (Pty) Ltd). |
| D6. Tender exchange rate | Provide the exchange rate used for this tender, as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2. |

Table A. Exempted Imported Content

- | | |
|--|---|
| D7. Tender item number | Provide the tender item number(s) of the product(s) that have imported content. |
| D8. Description of imported content | Provide a list of the exempted imported product(s), if any, as specified in the tender. |

- D9. Local supplier**
Provide the name of the local supplier(s) supplying the imported product(s).
- D10. Overseas supplier**
Provide the name(s) of the overseas supplier(s) supplying the exempted imported product(s).
- D11. Imported value as per commercial invoice**
Provide the foreign currency value of the exempted imported product(s) disclosed in the commercial invoice accepted by the South African Revenue Service (SARS).
- D12. Tender exchange rate**
Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.
- D13. Local value of imports**
Convert the value of the exempted imported content as per commercial invoice (D11) into the ZAR value by using the tender exchange rate (D12) disclosed in the tender documentation.
- D14. Freight costs to port of entry**
Provide the freight costs to the South African Port of the exempted imported item.
- D15. All locally incurred landing costs and duties**
Provide all landing costs including customs and excise duty for the exempted imported product(s) as stipulated in the SATS 1286:2011.
- D16. Total landed costs excl VAT**
Provide the total landed costs (excluding VAT) for each item imported by adding the corresponding item values in columns D13, D14 and D15. These values must be transferred to column C11 on Annexure C.
- D17. Tender quantity**
Provide the tender quantity of the exempted imported products as per the tender specification.
- D18. Exempted imported value**
Provide the imported value for each of the exempted imported product(s) by multiplying the total landed cost (excl. VAT) (D16) by the

tender quantity (D17). The values in column D18 must correspond with the values of column C18 of Annexure C.

D19. Total exempted imported value

The total exempted imported value is the sum of the values in column D18. This total must correspond with the value of C21 on Annexure C.

Table B. Imported Directly By Tenderer

D20. Tender item numbers

Provide the tender item number(s) of the product(s) that have imported content.

D21. Description of imported content:

Provide a list of the product(s) imported directly by tender as specified in the tender documentation.

D22. Unit of measure

Provide the unit of measure for the product(s) imported directly by the tenderer.

D23. Overseas supplier

Provide the name(s) of the overseas supplier(s) supplying the imported product(s).

D24. Imported value as per commercial Invoice

Provide the foreign currency value of the product(s) imported directly by tenderer disclosed in the commercial invoice accepted by the South African Revenue Service (SARS).

D25. Tender rate of exchange

Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

D26. Local value of imports

Convert the value of the product(s) imported directly by the tenderer as per commercial invoice (D24) into the ZAR value by using the tender exchange rate (D25) disclosed in the tender documentation.

D27. Freight costs to port of entry

Provide the freight costs to the South African Port of the product(s) imported directly by the tenderer.

D28. All locally incurred landing costs and duties

Provide all landing costs including customs and excise duty for the product(s) imported directly by the tenderer as stipulated in the SATS 1286:2011.

D29. Total landed costs excl VAT

Provide the total landed costs (excluding VAT) for each item imported directly by the tenderer by adding the corresponding item values in columns D26, D27 and D28.

D30. Tender quantity

Provide the tender quantity of the product(s) imported directly by the tenderer as per the tender specification.

D31. Total imported value

Provide the total imported value for each of the product(s) imported directly by the tenderer by multiplying the total landed cost (excl. VAT) (D29) by the tender quantity (D30).

D32. Total imported value by tenderer

The total value of imports by the tenderer is the sum of the values in column D31.

Table C. Imported by Third Party and Supplied to the Tenderer

D33. Description of imported content

Provide a list of the product(s) imported by the third party and supplied to the tenderer as specified in the tender documentation.

D34. Unit of measure

Provide the unit of measure for the product(s) imported by the third party and supplied to tenderer as disclosed in the commercial invoice.

D35. Local supplier

Provide the name of the local supplier(s) supplying the imported product(s).

D36. Overseas supplier

Provide the name(s) of the overseas supplier(s) supplying the imported products.

D37. Imported value as per commercial invoice

Provide the foreign currency value of the product(s) imported by the third party and supplied to the tenderer disclosed in the commercial invoice accepted by SARS.

D38. Tender rate of exchange

Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

D39. Local value of imports

Convert the value of the product(s) imported by the third party as per commercial invoice (D37) into the ZAR value by using the tender exchange rate (D38) disclosed in the tender documentation.

D40. Freight costs to port of entry

Provide the freight costs to the South African Port of the product(s) imported by third party and supplied to the tenderer.

D41. All locally incurred landing costs and duties

Provide all landing costs including customs and excise duty for the product(s) imported by third party and supplied to the tenderer as stipulated in the SATS 1286:2011.

D42. Total landed costs excluding VAT

Provide the total landed costs (excluding VAT) for each product imported by third party and supplied to the tenderer by adding the corresponding item values in columns D39, D40 and D41.

D43. Quantity imported

Provide the quantity of each product(s) imported by third party and supplied to the tenderer for the tender.

D44. Total imported value

Provide the total imported value of the product(s) imported by third party and supplied to the tenderer by multiplying the total landed cost (D42) by the quantity imported (D43).

D45. Total imported value by third party

The total imported value from the third party is the sum of the values in column D44.

Table D. Other Foreign Currency Payments

D46. Type of payment

Provide the type of foreign currency payment. (i.e. royalty payment for use of patent, annual licence fee, etc).

D47. Local supplier making the payment

Provide the name of the local supplier making the payment.

D48. Overseas beneficiary

Provide the name of the overseas beneficiary.

D49. Foreign currency value paid

Provide the value of the listed payment(s) in their foreign currency.

D50. Tender rate of exchange

Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

D51. Local value of payments

Provide the local value of each payment by multiplying the foreign currency value paid (D49) by the tender rate of exchange (D50).

D52. Total of foreign currency payments declared by tenderer and/or third party

The total of foreign currency payments declared by tenderer and/or a third party is the sum of the values in column D51.

D53. Total of imported content and foreign currency payment

The total imported content and foreign currency payment is the sum of the values in column D32, D45 and D52. This value must correspond with the value of C23 on Annexure C.

5. ANNEXURE E

5.1. Guidelines to completing Annexure E: “Local Content Declaration-Supporting Schedule to Annexure C”

The paragraph numbers correspond to the numbers in Annexure E

- E1. Tender number**
Supply the tender number that is specified on the specific tender documentation.
- E2. Tender description**
Supply the tender description that is specified on the specific tender documentation.
- E3. Designated products**
Supply the details of the products that are designated in terms of this tender (for example, buses/canned vegetables).
- E4. Tender authority**
Supply the name of the tender authority.
- E5. Tendering entity name**
Provide the tendering entity name (for example, Unibody Bus Builders (Pty) Ltd) Ltd).

Local Goods, Services and Works

- E6. Description of items purchased**
Provide a description of the items purchased locally in the space provided.
- E7. Local supplier**
Provide the name of the local supplier that corresponds to the item listed in column E6.
- E8. Value**
Provide the total value of the item purchased in column E6.

E9. Total local products (Goods, Services and Works)

Total local products (goods, services and works) is the sum of the values in E8.

E10. Manpower costs:

Provide the total of all the labour costs accruing only to the tenderer (i.e. not the suppliers to tenderer).

E11. Factory overheads:

Provide the total of all the factory overheads including rental, depreciation and amortisation for local and imported capital goods, utility costs and consumables. (Consumables are goods used by individuals and businesses that must be replaced regularly because they wear out or are used up. Consumables can also be defined as the components of an end product that are used up or permanently altered in the process of manufacturing, such as basic chemicals.)

E12. Administration overheads and mark-up:

Provide the total of all the administration overheads, including marketing, insurance, financing, interest and mark-up costs.

E13. Total local content:

The total local content is the sum of the values of E9, E10, E11 and E12. This total must correspond with C24 of Annexure C.

Annex C

Local Content Declaration - Summary Schedule

Note: VAT to be excluded from all

calculations

(C1)	Tender No.
(C2)	Tender description:
(C3)	Designated product(s)
(C4)	Tender Authority:
(C5)	Tendering Entity name:
(C6)	Tender Exchange Rate:
(C7)	Specified local content %

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Signature of tenderer from Annex B

Date: _____

(C20) Total tender value	R 0
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(C21) Total Exempt imported content	
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(C22) Total Tender value net of exempt imported content

(C23) Total imported content	
------------------------------	--

(C24) Total local content

(C25) Average local content % of tender

Note: VAT to be excluded from all calculations

DATE

imported value **R 0**

Calculation of imported content

(D32) Total imported value by tenderer R 0

Calculation of imported content

(D45) Total imported value by 3rd party	R 0
---	-----

payments of foreign currency

Signature of tenderer from Annex B

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above



BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

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

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

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

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

Full Name	Identity Number	Name of institution	State

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

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

2.2.1 If so, furnish particulars:

.....

.....

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

2.3.1 If so, furnish particulars:

.....

.....

3 DECLARATION

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

- 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 not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.
- 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.
- 3.4 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.

² Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

3.5 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.

3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

..... Signature

..... Date

..... Position

..... Name of bidder

PRICING SCHEDULE – FIRM PRICES
(PURCHASES)

NOTE:

ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of bidder.....	Bid number: WTE-0039ES
Closing Time 11:00	Closing date: 23 FEBRUARY 2024

OFFER TO BE VALID FOR 120 DAYS FROM THE CLOSING DATE OF BID.

ITEM NO	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY **(ALL APPLICABLE TAXES INCLUDED)
1	1	• THE MAINTENANCE OF HOUSES AT MIDMAR DAM-NO. 5-7	R _____
VAT			
TOTAL R			

- Brand and modelN/A.....
- Country of originN/A.....
- Does the offer comply with the specification(s)?*YES/NO
- If not to specification, indicate deviation(s).....
- Period required for delivery.....
*Delivery: Firm/not firm
- Delivery basis.....

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

** "all applicable taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable

THE NATIONAL TREASURY

Republic of South Africa



GOVERNMENT PROCUREMENT: GENERAL CONDITIONS OF CONTRACT

July 2010

GOVERNMENT PROCUREMENT
GENERAL CONDITIONS OF CONTRACT
July 2010

NOTES

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

- The General Conditions of Contract will form part of all bid documents and may not be amended.
- Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

TABLE OF CLAUSES

1.	Definitions
2.	Application
3.	General
4.	Standards
5.	Use of contract documents and information; inspection
6.	Patent rights
7.	Performance security
8.	Inspections, tests and analysis
9.	Packing
10.	Delivery and documents
11.	Insurance
12.	Transportation
13.	Incidental services
14.	Spare parts
15.	Warranty
16.	Payment
17.	Prices
18.	Contract amendments
19.	Assignment
20.	Subcontracts
21.	Delays in the supplier's performance
22.	Penalties
23.	Termination for default
24.	Dumping and countervailing duties
25.	Force Majeure
26.	Termination for insolvency
27.	Settlement of disputes
28.	Limitation of liability
29.	Governing language
30.	Applicable law
31.	Notices
32.	Taxes and duties
33.	National Industrial Participation Programme (NIPP)
34.	Prohibition of restrictive practices

General Conditions of Contract

1. Definitions

1. The following terms shall be interpreted as indicated:
 - 1.1 “Closing time” means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 “Contract” means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 “Contract price” means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
 - 1.4 “Corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 “Countervailing duties” are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
 - 1.6 “Country of origin” means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
 - 1.7 “Day” means calendar day.
 - 1.8 “Delivery” means delivery in compliance of the conditions of the contract or order.
 - 1.9 “Delivery ex stock” means immediate delivery directly from stock actually on hand.
 - 1.10 “Delivery into consignees store or to his site” means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
 - 1.11 “Dumping” occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the

RSA.

- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 "GCC" means the General Conditions of Contract.
- 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such

obligations of the supplier covered under the contract.

- 1.25 “Written” or “in writing” means handwritten in ink or any form of electronic or mechanical writing.

2. Application

- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

- 2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.

- 3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za

4. Standards

- 4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

- 5.1 The supplier shall not, without the purchaser’s prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

- 5.2 The supplier shall not, without the purchaser’s prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.

- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier’s performance under the contract if so required by the purchaser.

- 5.4 The supplier shall permit the purchaser to inspect the supplier’s records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights

- 6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the goods or any part thereof by the purchaser.

7. Performance security

7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.

7.3 The performance security shall be denominated in the currency of the contract, or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:

- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
- (b) a cashier's or certified cheque

7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

8.1 All pre-bidding testing will be for the account of the bidder.

8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department.

8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.

8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.

8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.

8.7 Any contract supplies may on or after delivery be inspected, tested or

analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

9. Packing

9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.

10.2 Documents to be submitted by the supplier are specified in SCC.

11. Insurance

11.1 The goods supplied under the contract shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental services

13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;

- (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 As specified in SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take

such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated in SCC.

17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized in SCC or in the purchaser's request for bid validity extension, as the case may be.

18. Contract amendments

18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

19. Assignment

19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

20. Subcontracts

20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.

21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the

supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without canceling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services using the current prime interest rate calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
- (b) if the Supplier fails to perform any other obligation(s) under the contract; or
- (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any

person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.

23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:

- (i) the name and address of the supplier and / or person restricted by the purchaser;
- (ii) the date of commencement of the restriction
- (iii) the period of restriction; and
- (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, No. 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidized import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall on demand be paid forthwith by the contractor to the State or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which

may be due to him

25. Force Majeure

25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if and to the extent that his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

25.2 If a force majeure situation arises, the supplier shall promptly notify the purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve amicably such dispute or difference by mutual consultation.

27.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 Notwithstanding any reference to mediation and/or court proceedings herein,

- (a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
- (b) the purchaser shall pay the supplier any monies due the supplier.

28. Limitation of liability

28.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6;

- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and

- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language	29.1	The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.
30. Applicable law	30.1	The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.
31. Notices	31.1	Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice
	31.2	The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.
32. Taxes and duties	32.1	A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
	32.2	A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
	32.3	No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.
33. Industrial Participation Programme	33.1	The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.
34 Prohibition of Restrictive practices	34.1	In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
	34.2	If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.

34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.