



## INVITATION TO BID TENDER COVER PAGE

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF JOHANNESBURG WATER

BID NUMBER: JW OPS 036/20R

CLOSING DATE: 28 JULY 2022

CLOSING TIME: 10:30

DESCRIPTION: SUPPLY, DELIVERY, STRIP, QUOTE AND REPAIR OF ELECTRIC MOTORS AND SUBMERSIBLE PUMPS ON AN 'AS AND WHEN' REQUIRED BASIS FOR A PERIOD OF THIRTY-SIX (36) MONTHS

Bidders are encouraged to attend a non-compulsory tender briefing session on 07 July 2022 at 10:00 to 11:00 on Microsoft Teams: [Click here to join the meeting](#)

The successful bidder will be required to fill in and sign a written Contract Form (MBD 7).

BID DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT GROUND FLOOR

TURBINE HALL  
65 NTEMI PILISO STREET  
NEWTOWN  
JOHANNESBURG  
2001

SUPPLIER INFORMATION				
NAME OF BIDDER				
POSTAL ADDRESS				
PHYSICAL ADDRESS				
TELEPHONE NUMBER				
CELLPHONE NUMBER				
E-MAIL ADDRESS				
VAT REGISTRATION NUMBER				
TAX COMPLIANCE STATUS	TCS PIN		CSD No	
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]				
The 80/20 point scoring system will be applicable to this tender, i.e.80 points for Price and 20 points for Preferential procurement (BBBEE).				
TOTAL BID PRICE				R
TOTAL NUMBER OF DOCUMENTS SUBMITTED				
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:			TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT	Supply Chain Management		DEPARTMENT	Operations
CONTACT PERSON	Gcina Ndela		CONTACT PERSON	Nosipho Mokoena
TELEPHONE NUMBER	011 688 1796		TELEPHONE NUMBER	011 688 1585
E-MAIL ADDRESS	<a href="mailto:gcina.ndela@jwater.co.za">gcina.ndela@jwater.co.za</a>		E-MAIL ADDRESS	<a href="mailto:nosipho.mokoena@jwater.co.za">nosipho.mokoena@jwater.co.za</a>



## TERMS AND CONDITIONS FOR BIDDING

### 1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED TO THE CORRECT ADDRESS BY THE STIPULATED TIME . LATE BIDS WILL NOT BE ACCEPTED
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED)**
- 1.3. **TENDERERS ARE REQUIRED TO SUBMIT ONE ORIGINAL HARD COPY PLUS A SOFT COPY IN A USB**
- 1.4. **THIS BID IS SUBJECT TO JOHANNESBURG WATER SCM POLICY VERSION 11**
- 1.5. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.6. TENDERS WILL BE OPENED IN PUBLIC SOON AFTER CLOSING TIME AND RECORDING OF RECEIVED DOCUMENTS BUT NOT LATER THAN 11:00 AT THE TENDER OFFICE LOCATED AT TURBINE HALL, 65 NTEMI PILISO, NEWTOWN, 2001, GROUND FLOOR. TENDERERS NAMES AND TOTAL PRICES, WHERE PRACTICAL WILL BE, READ OUT.

### 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 VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.
- 2.4 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.5 BIDDER MUST BE REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.

### 3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

- |   |  |
|---|--|
| 3.1. DOES THE ENTITY HAVE A BRANCH IN THE RSA?                  | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3.2. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3.3. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?      | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3.4. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?  | <input type="checkbox"/> YES <input type="checkbox"/> NO |

**IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.**

**NB: NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.**

**SIGNATURE OF BIDDER:** .....

**CAPACITY UNDER WHICH THIS BID IS SIGNED:** .....

**DATE:** .....

## ACKNOWLEDGEMENT OF BID CONDITIONS

1. I/We hereby bid to supply all or any of the supplies and/or to render all or any of the services described in the attached documents to Johannesburg Water ( SOC ) Ltd on the terms and conditions and in accordance with the specifications stipulated in the bid documents (and which shall be taken as part of, and incorporated into, this bid) at the prices and on the terms regarding time for delivery and/or execution inserted therein.
2. I/We agree that -
  - (a) the offer herein shall remain binding upon me/us and open for acceptance by Johannesburg Water ( SOC ) Ltd during the validity period indicated and calculated from the closing time of the bid;
  - (b) this bid and its acceptance shall be subject to the terms and conditions embodied herein with which I am/we are fully acquainted;
  - (c) if I/we withdraw my/our bid within the period for which I/we have agreed that the bid shall remain open for acceptance, or fail to fulfil the contract when called upon to do so, Johannesburg Water ( SOC ) Ltd, without prejudice to its other rights, agree to the withdrawal of my/our bid or cancel the contract that may have been entered into between me/us and Johannesburg Water ( SOC ) Ltd and I/we will then pay to Johannesburg Water ( SOC ) Ltd any additional expense incurred by having either to accept any less favourable bid or, if fresh bids have to be invited, the additional expenditure incurred by the invitation of fresh bids and by the subsequent acceptance of any less favourable bid; Johannesburg Water ( SOC ) Ltd shall also have the right to recover such additional expenditure by set-off against moneys which may be due or become due to me/us under this or any other bid or contract or against any guarantee or deposit that may have been furnished by me/us or on my/our behalf for the due fulfilment of this or any other bid or contract and pending the ascertainment of the amount of such additional expenditure to retain such moneys, guarantee or deposit as security for any loss Johannesburg Water ( SOC ) Ltd may sustain by reason of my/our default;
  - (d) if my/our bid is accepted the acceptance may be communicated to me/us by letter or order by ordinary post or registered post and that SA Post Office Ltd shall be regarded as my/our agent, and delivery of such acceptance to SA Post Office Ltd shall be treated as delivery to me/us;
  - (e) the law of the Republic of South Africa shall govern the contract created by the acceptance of my/our bid.
3. I/We furthermore confirm that I/we have satisfied myself/ourselves as to the correctness and validity of my/our bid; that the price(s) and rate(s) quoted cover all the work/item(s) specified in the bid documents and that the price(s) and rate(s) cover all my/our obligations under a resulting contract and that I/we accept that any mistakes regarding price(s) and calculations will be at my/our risk.
4. I/We hereby accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me/us under this agreement as the Principal(s) liable for the due fulfilment of this contract.
5. I/We agree that any action arising from this contract may in all respects be instituted against me/us and I/we hereby undertake to satisfy fully any sentence or judgement which may be pronounced against me/us as a result of such action.

SIGNATURE(S) OF BIDDER OR ASSIGNEE(S).....

DATE:.....

Capacity and particulars of the authority under which this bid is signed .....

Name of bidder.....

Postal address (in block letters) .....

Telephone No.(s) .....

Facsimile No: .....

Bid No. ....

Name of contact person (in block letters).....

## **INSTRUCTIONS TO BIDDERS**

NB: Each bid must be submitted in a separate, sealed envelope on which the NAME AND ADDRESS OF THE BIDDER, THE BID NUMBER, DESCRIPTION OF BID AND THE CLOSING DATE must be clearly endorsed. The bid must be addressed to Supply Chain Management Unit, Johannesburg Water (SOC) Ltd and deposited in the BID BOX situated at the entrance : Turbine Hall, 65 Ntemi Piliso street, Newtown, Johannesburg.

It is the responsibility of the bidder to ensure that their/his / her bid document is submitted in a sealed envelope and placed in the Bid Box in good time so as not to miss the official deadline of 10:30 on the closing date.

Bid documents submitted via courier services will be acceptable provided that the bidder instructs such courier company or its representative to deposit the documents in the bid box. Documents should under no circumstances be handed to an employee of Johannesburg Water as it may not be held accountable in the event of any loss thereafter.

Bid documents may not be submitted via the South African Post Office as only bid documents received in the Bid Box at the time of closing will be taken into account.

## **IMPORTANT CONDITIONS**

1. Bid documents must be completed using non-erasable black ink. Bids that are received contrary to this requirement will be disqualified. This condition applies to bid documents purchased as well as bid documents downloaded from the eTender portal.
2. Bids should be submitted on the official forms provided. Should any conditions of the bid be qualified by the bidder, Johannesburg Water may disqualify the bid.
3. If any of the conditions on this bid form are in conflict with any special conditions, stipulations or provisions incorporated in the bid, such special conditions, stipulations or provisions shall apply.
4. Bids received after the closing time and date will not be accepted and will be returned to the bidder unopened.
5. All bid documents must be in sealed envelopes and deposited in the Official Bid Box situated at Turbine Hall, 65 Ntemi Piliso Street, Newtown. Bidders are required to submit soft copy tender documents in a form of USB.
6. Bids should as far as possible be submitted in their entirety. Such bid documents should also comply with submission requirements as described therein, and should be bound in such a way that pages will not go missing.
7. Tender documents may be completed electronically without altering or tampering with any of the terms, conditions, specifications etc. in the tender documents.
8. It is an absolute requirement that the bidder's tax matters are in order. To this effect, the bidder must furnish their Tax Compliance Status Pin or CSD MAAA number for bids as requested elsewhere in the bid document.
9. Tenderers will be afforded a period of three (3) days to complete the following returnable documents (MBD Forms) in instances where such forms are incomplete.
10. Pricing schedule must be completed and signed. Bids that are received contrary to this requirement will be disqualified.
11. The evaluation on price alteration must be conducted as follows:
  - 11.1. Where the tender award strategy is to evaluate and award per item or category, the following must apply:
    - (i) If there is an alteration on the rate but no alteration on the total for the item or category, the bidder will not be disqualified
    - (ii) If there is an alteration on the total for the item/s without authentication, bidders will only be disqualified for alteration per item or category.
  - 11.2. Where the tender award strategy is to evaluate and award total bid offer, the following must apply:
    - (i) If there is an alteration on the rate, total for the line item, sub-total/ sum brought/carried forward for the section but no alteration on the total bid offer, the bidder will not be disqualified.
    - (ii) If there is an alteration on the total bid offer on form of offer then the amount in words must be considered or vice-versa.
    - (iii) If there is an alteration on the total bid offer and the amount in words without authentication, the bidders will be disqualified for the entire tender.
12. Tenderers are allowed to offer selective items (not all items as per BOQ) where applicable. Items that are left blank will be regarded as non-offered items.

### CHECK-LIST FOR TENDER SUBMISSION

Completion of this check-list will assist the Tenderer in ensuring that they have complied with all the requirements for submission of this tender.

#	Description	Complied	
		Yes	No
<b>1</b> Contact details provided	Name of tenderer		
	Contact person		
	Telephone No.		
	Fax No.		
	Email address		
	Cell No.		
<b>2</b> Completion of documentation (Forms)	Provide an Authority to sign tender Annexure B		
	Completed and signed (Acknowledgement of conditions)		
	Completed and signed Tender form and Pricing schedule		
	Completed MBD 3..1 - Firm Prices		
	Alterations (if any ) authenticated		
	Completion of form MBD 6.1 – (Preference points claim)		
	Complete and sign MBD 4- Declaration of any potential Conflict of Interest		
	Complete and sign MBD 8- past Supply Chain Management Practices Form		
	Complete and sign MBD 5 (Declaration for Procurement above R10m)*		
	Complete and sign MBD 9- Certificate of Independent bid Determination		
	JV Agreement (if Applicable)		
<b>3</b> Submission of documents	Completed Banking Details		
	Valid Tax Compliance Status Pin/ CSD MAAA number for Tenders		
	Valid BBBEE certificate (SANAS/CIPC) or Sworn affidavit signed by the EME representative and attested by a Commissioner of oaths.		
	Certified copy of a consolidated Valid BBBEE certificate for JV (if applicable)		
	Confirmation that you have no municipal commitments overdue for more than 90 days**(for both the bidder/company and for the directors)		
	Confirmation that suitable arrangements in place for arrear municipal obligations with your local municipality		
	Annual Financial statements for past 3 years (AFS) *		
<b>4</b> Qualifications	Is your tender subject to any qualifications? If Yes, reference to such qualification/s and must be indicated below:  _____		

\* for tenders with an estimated total value exceeding R10m (VAT included)

\*\* for all tenders regardless of value

Name of tenderer \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_



**CERTIFICATE OF AUTHORITY**

Indicate the status of the Tenderer by ticking the appropriate box hereunder. The Tenderer must complete the certificate set out below for the relevant category.

(I) COMPANY	(II) CLOSE CORPORATION	(III) PARTNERSHIP	(IV) JOINT VENTURE	(V) SOLE PROPRIETOR

**(I) Certificate For Company**

I, ....., chairperson of the Board of Directors of ....., hereby confirm that by resolution of the Board taken on ....., Mr/Ms ....., acting in the capacity of ....., was authorized to sign all documents in connection with tender JW..... and any contract resulting from it on behalf of the company.

**Chairman:** .....

**As Witnesses:** 1.....

2.....

**Date:** .....



(II) **Certificate For Close Corporation**

We, the undersigned, being the key members in the business trading as .....  
..... hereby authorize Mr/Ms ..... , acting in the capacity of  
....., to sign all documents in connection with the  
tender and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

***Note : This certificate is to be completed and signed by all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.***



### (III) Certificate For Partnership

We, the undersigned, being the key partners in the business trading as, ..... , hereby authorize Mr/Ms ..... , acting in the capacity of ..... , to sign all documents in connection with the tender and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

***Note : This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Partnership as a whole.***





#### (IV) Certificate For Joint Venture

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms . . . . . , authorised signatory of the company . . . . . , acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORIZED SIGNATORY
Lead partner		Signature. . . . . Name . . . . . Designation
		Signature. . . . . Name . . . . . Designation
		Signature. . . . . Name . . . . . Designation

***Note : This certificate is to be completed and signed by all of the key partners upon whom rests the direction of the affairs of the Joint Venture as a whole.***



**(V) Certificate For Sole Proprietor**

I, ....., hereby confirm that I am the sole owner of the Business  
trading as .....and the person authorised  
hereunder is duly authorized to sign all documents related to tender JW.....  
and contract resulting therefrom.

**Signature** of Sole owner: .....

As Witnesses:

1.....

2. ....

Date: .....

**EVALUATION CRITERIA**

The tender will be evaluated and adjudicated in terms of the Municipal Finance Management Act (MFMA). Preferential Procurement Regulations 2017, Supply Chain Management Policy of Johannesburg Water (JW) and applicable Supply Chain Management Treasury Regulations.

Administrative Returnable document

1. SARS one-time TAX PIN,
2. municipal statement of account for both Director and Company (not older than three [03] months or a valid lease agreement),
3. annual financial statements (AFS) three [03] years, (if required, audited financial statements)
4. Joint Venture / Consortium Agreement signed by all parties.
5. Valid BBBEE Certificate or certified copy thereof or a valid sworn affidavit
6. A completed and signed Invitation to Bid form MBD 1
7. A completed and signed Declaration of Interest form MBD 4
8. A completed and signed Declaration for procurement above R10 million (VAT included) form MBD 5
9. A completed and signed Preference Points Claim Form MBD 6.1
10. A completed and signed Declaration of Bidder's Past Supply Chain Management Practices MBD 8
11. A completed and signed Certificate of Independent Bid Determination (MBD 9)

**B-BBEE validation requirements:**

- a) Valid original BBBEE certificate or certified copy of valid BBBEE certificate (Only Valid BBBEE certificate must be accredited by SANAS) or valid Sworn Affidavit

- issued by the DTIC or the CIPC or in a similar format complying with commissioner of oath Act.
- b) In case of a JV, the tenderer must provide a joint venture agreement signed by all parties and proof of a consolidated valid original BBEE Certificate or certified copy of BBEE Certificate and scorecard of a joint venture is required. (both the agreement and the consolidated valid original BBEE Certificate or valid certified copy of BBEE Certificate must be submitted
  - c) A Bidder who qualifies as an Exempted Micro Enterprises (EME's) must submit a valid sworn affidavit.
  - d) A Bidder who qualifies as a Qualifying Small Enterprises (QSE's) and is more than 51% black owned must submit a sworn affidavit.
  - e) A Bidder who qualifies as a Qualifying Small Enterprises (QSE's) and is less than 51% black owned must submit a B-BBEE verification certificate issued by an Agency accredited by SANAS (South African National Accreditation System) which has to be valid, original or certified as a true copy of the original or the Bidder must submit an affidavit stipulating that their annual Total Revenue was between R10,000,000.00 (Ten Million Rand) and R50,000,000.00 (Fifty Million Rand) based on their latest Financial Statements/Management Accounts and other information available thereon. A Bidder must submit their latest Annual Financial Statements signed off by the professional Accountant or Auditor.
  - f) Bidders who do NOT qualify as EME's and QSE's as outlined in (c) and (d) above, must submit B-BBEE verification certificates that are issued by an Agency accredited by SANAS.
  - g) Public entities and tertiary institutions must also submit B-BBEE Status Level Verification Certificates together with their tenders.
  - h) Bidders who fail to submit a valid original or certified copy of their B-BBEE Certificate or Valid Sworn Affidavit will be disqualified. Valid Sworn Affidavits or certified copy of B-BBEE Certificate must comply with the requirements outlined in the Justices of the Peace and Commissioners of Oaths Act, no 16 of 1963 and its Regulations promulgated in Government Notice GNR 1258 of 21 July 1972 Justices of the Peace and Commissioners of Oaths Act, No. 16 of 1963.

**i.e**

- (i) The deponent shall sign the declaration in the presence of the commissioner of oaths (COA).
- (ii) Below the deponent's signature the COA shall certify that the deponent has acknowledged that he knows and understands the contents of the declaration and the COA shall state the manner, place, and date of taking the declaration.
- (iii) The COA shall sign the declaration and print his full name and business address below his signature; and State his designation and the area for

which he holds his appointment, or the office held by him if he holds his appointment ex officio.

**N.B. Copy of certified copies will not be accepted.** Mandatory Requirement

1. Registration with CSD,
2. Certified copy of a Valid Compensation of Injury Diseases Act (COIDA).

Local Production and Content: **See the attached MBD 6.2 form and Annexure C form.**

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### **3. Functionality:**

The following aspects will be considered during the Technical evaluation:

#### **3.1 For Strip, Quote and Repair of Electric Motors**

- 3.1.1 The Tenderer (Company) must have a minimum of 3 years' experience where repair or maintenance of electric motors was completed successfully.
- 3.1.2 The Tenderer (Company) is required to assign a minimum number of key personnel with the stipulated qualifications and experience to execute the works
- 3.1.3 The Tenderer must submit the CV of the Artisan Fitter and Electrician that will be allocated to this contract. The one Artisan Fitter and Electrician allocated by the tenderer to this contract must have a minimum of 3 relevant work experience. The required experience must be after obtaining a trade test certificate.
- 3.1.4 A site visit will be conducted at the tenderer's premises to evaluate the tenderer's equipment.

#### **3.2 For the Supply, and Delivery of Electric Motors**

- 3.2.1 The Tenderer (Company) must have a minimum of 3 years' experience in the supply, delivery and offloading of various size electric motors.

### **3.3 For the Supply and Delivery of Submersible Pumps**

- 3.3.1 The Tenderer (Company) must have a minimum of 3 years' experience in the supply, delivery and offloading of various submersible pumps.

### **3.4 For Strip, Quote and Repair of Submersible Pumps**

- 3.4.1 The Tenderer (Company) must have a minimum of 3 years' experience where repairs or maintenance of submersible pumps was completed successfully.
- 3.4.2 The Tenderer (Company) is required to assign a minimum number of key personnel with the stipulated qualifications and experience to execute the works.
- 3.4.3 The Tenderer must submit the CV's of the Artisan Fitter and Electrician that will be allocated to this contract. The one Artisan Fitter and one Electrician allocated by the tenderer to this contract must both have a minimum of 3 years' relevant work experience. The required experience must be after obtaining a trade test certificate
- 3.4.4** A site visit will be conducted at the tenderer's premises to evaluate the tenderer's equipment.



## EVALUATION CRITERIA



### Gatekeepers (Technical)

**Note:** Tenderer will need to comply with the respective criteria for their area of expertise as indicated on the price schedule it is what they will be tendering for.

#### EVALUATION 1 – FOR STRIP, QUOTE AND REPAIR OF ELECTRIC MOTORS

##### PART A: TENDERER'S EXPERIENCE, QUALIFICATION AND EXPERIENCE OF KEY PERSONNEL

Criteria No.	Criteria	Description	Documentary Evidence	Submission Compliant (Yes/No)
1.1	<b>Tenderer's Experience</b>	The tenderer (Company) must have <b>minimum of 3 years' experience where repair or maintenance of electric motors was completed successfully.</b>	<p>The tenderer (Company) must provide relevant reference letter(s) with proof that they have executed the required works in rendering services for the repair or maintenance work of electric motors successfully.</p> <p><i>The tenderer must request their client (where work was executed) to complete the templates attached in the tender document in full or provide reference letters in their client's letter head with all information as required per the template provided.</i></p>	Submission Compliant (Yes/No)
<b>The tenderer must achieve requirements for tenderer's experience in order to be considered for further evaluation.</b>				
1.2	<b>Key Personnel</b>	The tenderer (Company) is required to assign a minimum number of key personnel with the stipulated qualifications to execute the works.	<p>Tenderer (Company) is required to submit the stipulated qualifications for the minimum number of key personnel who will be assigned to this contract for the execution of the work.</p> <p>The following personnel will be required for this contract:</p>	Submission Compliant (Yes/No)



## EVALUATION CRITERIA



			<b>Artisan Fitter:</b> The Tenderer is required to provide a minimum of one (1) artisan fitter with a Fitter or Fitter & Turner trade test certificate	
			<b>Electrician:</b> The Tenderer is required to provide a minimum of one (1) electrician with an Electrician trade test certificate	Submission Compliant <b>(Yes/No)</b>
<b>The tenderer must achieve requirements for Key personnel in order to be considered for further evaluation</b>				
1.3	<b>Experience of Key Personnel</b>	<p>The tenderer's key personnel to be allocated for the execution of the contract must have experience on repair or maintenance work of electric motors.</p> <p><b>Note:</b> <i>The tenderer must complete and submit the attached</i></p>	<p>The tenderer must have the following personnel for the execution of the works required for this contract:</p> <ul style="list-style-type: none"> <li>- <b>Artisan Fitter</b> The Artisan Fitter is required to have a <b>minimum of 3 years</b> on the repair or maintenance of electric motors. The required experience must be after obtaining a trade test certificate.</li> </ul>	Submission Compliant <b>(Yes/No)</b>



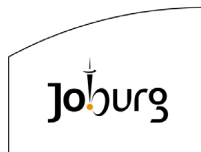
		<i>Curriculum Vitae template for their key personnel with relevant experience to the works required.</i> <i>The tenderer must provide a separate form for each key personnel as per the positions listed in the form.</i>	<b>- Electrician</b> The Electrician is required to have a <b>minimum of 3 years</b> on the repair or maintenance of electric motors. The required experience must be after obtaining a trade test certificate.	Submission Compliant <b>(Yes/No)</b>
The tenderer must achieve requirements for experience of key personnel in order to be considered for further evaluation				
1.4	Capacity Vehicles	of Tenderer must submit valid proof of ownership or proof of lease documents for hire that will be allocated for this contract (A minimum of 1 ton bakkie is required)	The tenderer must submit proof of ownership for vehicle(s) or letter of intent to hire if the intention is to hire the vehicle from the hiring company <b>(A minimum of 1 ton bakkie is required).</b>	Proof of ownership or Proof of lease document for vehicle Compliant <b>(Yes/No)</b>
The tenderer must achieve requirements for the capacity of vehicle in order to be considered for further evaluation				
PART B: SITE VISIT AT THE TENDERER'S PREMISES				



## EVALUATION CRITERIA



Criteria No.	Criteria	Description of Inspection	Evidence	Compliant (Yes/No)
1.5	<p>A site visit will be conducted at the tenderer's premises workshop facilities/ to evaluate tenderer's equipment.</p> <p><i>If other facilities and equipment are outsourced, the tenderer must make necessary arrangements prior to the site visit for inspections to be conducted at those facilities and for the equipment to be assessed.</i></p>	The tenderer must have electric motors testing facility/equipment	<p><b>The tenderer must have electric motors testing facility/equipment and must demonstrate how the testing is performed. The testing facility must have or be complemented by:</b></p> <ul style="list-style-type: none"><li>• Vibration meter</li><li>• Amp meter</li><li>• Infrared thermometer</li><li>• Insulation resistance tester</li></ul>	<p>Testing facility present and compliant. Demonstration performed</p> <p><b>(Yes/No)</b></p>
<b>The tenderer must achieve all requirements at the site visit in order to be considered for further evaluation.</b>				



## EVALUATION CRITERIA



### EVALUATION 2 – FOR SUPPLY, DELIVERY AND OFFLOADING OF ELECTRIC MOTORS

#### PART A: TENDERER'S EXPERIENCE

Criteria No.	Criteria	Description	Documentary Evidence	Submission Compliant (Yes/No)
2.1	<b>Tenderer's Experience</b>	The tenderer (Company) must have <b>minimum of 3 years' experience where supply and delivery of electric motors was completed successfully.</b>	<p>The tenderer must provide relevant reference letter(s) with proof that they have executed the required works in rendering services for the supply and delivery of electric motors was carried out successfully.</p> <p><i>The tenderer must request their client (where work was executed) to complete the templates attached in the tender document in full <b>or</b> provide reference letters in their client's letter head with all information as required per the template provided.</i></p>	Submission Compliant ( <b>Yes/No</b> )

**The tenderer must achieve requirements for tenderer's experience in order to be considered for further evaluation.**



## EVALUATION CRITERIA



### EVALUATION 3 – FOR SUPPLY, DELIVERY AND OFFLOADING OF SUBMERSIBLE PUMPS

#### PART A: TENDERER'S EXPERIENCE

Criteria No.	Criteria	Description	Documentary Evidence	Submission Compliant (Yes/No)
3.1	<b>Tenderer's Experience</b>	The tenderer (Company) must have <b>minimum of 3 years' experience where supply and delivery of submersible pumps was completed successfully.</b>	<p>The tenderer must provide relevant reference letter(s) with proof that they have executed the required works in rendering services for the supply and delivery of submersible pumps was carried out successfully.</p> <p><i>The tenderer must request their client (where work was executed) to complete the templates attached in the tender document in full <b>or</b> provide reference letters in their client's letter head with all information as required per the template provided.</i></p>	Submission Compliant <b>(Yes/No)</b>
<b>The tenderer must achieve requirements for tenderer's experience in order to be considered for further evaluation.</b>				



## EVALUATION CRITERIA



### EVALUATION 4 – FOR STRIP, QUOTE AND REPAIR OF SUBMERSIBLE PUMPS

#### PART A: TENDERER'S EXPERIENCE, QUALIFICATION AND EXPERIENCE OF KEY PERSONNEL

Criteria No.	Criteria	Description	Documentary Evidence	Submission Compliant (Yes/No)
4.1	<b>Tenderer's Experience</b>	The tenderer (Company) must have <b>minimum of 3 years' experience where repair or maintenance of submersible pumps was completed successfully.</b>	<p>The tenderer must provide relevant reference letter(s) with proof that they have executed the required works in rendering services for the repair or maintenance work of submersible pumps successfully.</p> <p><i>The tenderer must request their client (where work was executed) to complete the templates attached in the tender document in full or provide reference letters in their client's letter head with all information as required per the template provided.</i></p>	Submission Compliant (Yes/No)
<b>The tenderer must achieve requirements for tenderer's experience in order to be considered for further evaluation.</b>				
4.2	<b>Key Personnel Requirements</b>	The tenderer (Company) is required to assign a minimum number of key personnel with the stipulated qualifications to	Tenderer (Company) is required to submit the stipulated qualifications for the minimum number of key personnel who will be assigned to this contract for the execution of the work.	Submission Compliant (Yes/No)

		execute the works.	<p>The following personnel will be required for this contract:</p> <p><b>Artisan Fitter:</b> The Tenderer is required to provide a minimum of one (1) artisan fitter with a Fitter or Fitter &amp; Turner trade test certificate</p>	
			<p>- <b>Electrician:</b> The Tenderer is required to provide a minimum of one (1) electrician with an Electrician trade test certificate</p>	Submission Compliant <b>(Yes/No)</b>
The tenderer must achieve requirements for Key personnel in order to be considered for further evaluation				
4.3	Experience of Key Personnel	<p>The tenderer's key personnel to be allocated for the execution of the contract must have experience on repair or maintenance work of submersible pumps.</p> <p><b>Note:</b> <i>The tenderer must complete and submit the attached Curriculum Vitae template for their key personnel with relevant</i></p>	<p>The tenderer must have the following personnel for the execution of the works required for this contract:</p> <p>- <b>Artisan Fitter</b> The Artisan Fitter is required to have a <b>minimum of 3</b> on the repair or maintenance of submersible pumps. The required experience must be after obtaining a trade test certificate</p>	Submission Compliant <b>(Yes/No)</b>
			<p>- <b>Electrician</b> The Electrician is required to have a <b>minimum of 3 years</b> on the repair or maintenance of</p>	Submission Compliant <b>(Yes/No)</b>



## EVALUATION CRITERIA



		<p>experience to the works required. The tenderer must provide a separate form for each key personnel as per the positions listed in the form.</p>	<p>submersible pumps. The required experience must be after obtaining a trade test certificate</p>	
<p><b>The tenderer must achieve requirements for experience of key personnel in order to be considered for further evaluation</b></p>				
4.4	Capacity of Vehicles	<p>Tenderer must submit valid proof of ownership or proof of lease documents for hire that will be allocated for this contract (A minimum of 1 ton bakkie is required)</p>	<p>The tenderer must submit proof of ownership for vehicle(s) or letter of intent to hire if the intention is to hire the vehicle from the hiring company (<b>A minimum of 1 ton bakkie is required</b>).</p>	<p>Proof of ownership or Proof of lease document for vehicle Compliant (Yes/No)</p>
<p><b>The tenderer must achieve requirements for the capacity of vehicle in order to be considered for further evaluation</b></p>				



## EVALUATION CRITERIA



### PART B: SITE VISIT AT THE TENDERER'S PREMISES

Criteria No.	Criteria	Description of Inspection	Evidence	Compliant (Yes/No)
4.5	<p>A site visit will be conducted at the tenderer's premises/ workshop facilities to evaluate the tenderer's equipment.</p> <p><i>If other facilities and equipment are outsourced, the tenderer must make necessary arrangements prior to the site visit for inspections to be conducted at those facilities and for the equipment to be assessed.</i></p>	The tenderer must have submersible pumps testing facility/equipment	<p><b>The tenderer must have submersible pumps testing facility/equipment and must demonstrate how the testing is performed. The testing facility or equipment must have or be complemented by:</b></p> <ul style="list-style-type: none"><li>• <b>Pressure gauge</b> with a valid calibration certificate</li><li>• <b>Amp meter</b></li><li>• <b>Insulation resistance meter</b></li></ul>	<p>Testing facility present and compliant. Demonstration performed</p> <p><b>(Yes/No)</b></p>

*The tenderer must achieve all requirements at the site visit in order to be considered for further evaluation.*

*The tenderer must achieve all requirements at the site visit in order to be considered for further evaluation.. Further for the requirement of the site visit, the tenderer will be required to achieve all requirements at the site visit in order to be considered for the next stage of Pricing.*

*This shall apply to all the above set criteria as indicated on table 1, 2, and 3.*



---

**4. Financial offer:**

The following aspects will be considered in the financial offer:

- 4.1. Costing for all items as described in the Pricing Schedule
- 4.2. Review of financial offer and discrepancies between total and calculations
- 4.3. Identify any parameters that may have a bearing on the financial offer, e.g. contract period, price escalations or adjustments required and life cycle costs.

When the value of the bid is estimated to not exceed R50 000 000 (all applicable taxes included) the 80/20 preference point system shall be applicable,

**The maximum points for this bid are allocated as follows:**

PREFERENCE POINT SYSTEM	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE	100

## Points awarded for B-BBEE Status Level of Contribution

In terms of Regulation 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

## AWARD STRATEGY

The intention is to award the contract to the highest scoring tenderer based on their area of expertise and per category.

## Curriculum Vitae of Key Personnel

Provide separate forms for each key personnel as per the position listed in the form:

### Artisan Fitter

Name:	Date of birth:
Profession:	Nationality:
Qualifications:	
Professional Registration Number:	
Name of Employer (firm):	
Current position:	Years with firm:
<b><u>Employment Record:</u></b>	
<b><u>Experience Record Pertinent to Required service:</u></b>	

### Certification:

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
*Signature of person named in the schedule*

.....  
*Date*

## Curriculum Vitae of Key Personnel

*Provide separate forms for each key personnel as per the position listed in the form:*

## Electrician

[illegible]**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
Signature of person named in the schedule

.....  
*Date*

## Curriculum Vitae of Key Personnel

*Provide separate forms for each key personnel as per the position listed in the form:*

## Artisan Fitter

[illegible]

**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
Signature of person named in the schedule

.....  
Date

## Curriculum Vitae of Key Personnel

*Provide separate forms for each key personnel as per the position listed in the form:*

## Electrician

[illegible]

**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
Signature of person named in the schedule

.....  
Date

## Curriculum Vitae of Key Personnel

*Provide separate forms for each key personnel as per the position listed in the form:*

## Artisan Fitter

[illegible]

**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
Signature of person named in the schedule

.....  
Date

## Curriculum Vitae of Key Personnel

*Provide separate forms for each key personnel as per the position listed in the form:*

## Electrician

[illegible]

**Certification:**

I, the undersigned, certify that, to the best of my knowledge and belief, this data correctly describes me, my qualifications and my experience.

.....  
Signature of person named in the schedule

.....  
Date



## CONTACTABLE REFERENCE

To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorised to do so, hereby furnish a reference to Johannesburg Water relative to tender Contract No. **JW OPS 036/20R** for **Supply, Delivery, Strip, Quote and Repair of Electric Motors and Submersible Pumps**

Name of Tenderer:.....

Description of Goods / Services provided

.....  
.....  
.....  
.....

Duration: Year-Month-Day when the Goods / Services were provided:

Start Date.....

End Date.....

Was their performance satisfactory?

Yes / No\*

\*If No to any of the questions above, please furnish details.

.....  
.....  
.....

Name of authorised person: .....

Signature:..... Date .....

Telephone: ..... Mobile: .....

Email: .....

Completed on behalf (name of business) .....

*NB: This document must be completed in full by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with **all** the above requirements. A separate form must be completed for each reference as required in the evaluation criteria. Failure to adhere to this requirement will result in such tender being prejudiced. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.*

## CONTACTABLE REFERENCE

To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorised to do so, hereby furnish a reference to Johannesburg Water relative to tender Contract No. **JW OPS 036/20R** for **Supply, Delivery, Strip, Quote and Repair of Electric Motors and Submersible Pumps**

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Description of Goods / Services provided

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Duration: Year-Month-Day when the Goods / Services were provided:

Start Date.....

End Date.....

Was their performance satisfactory?

Yes / No\*

\*If No to any of the questions above, please furnish details.

.....  
.....  
.....

Name of authorised person: .....

Signature:..... Date .....

Telephone: ..... Mobile: .....

Email: .....

Completed on behalf (name of business) .....

*NB: This document must be completed in full by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with **all** the above requirements. A separate form must be completed for each reference as required in the evaluation criteria. Failure to adhere to this requirement will result in such tender being prejudiced. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.*

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Name of Tenderer:.....

Description of Goods / Services provided

.....  
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Duration: Year-Month-Day when the Goods / Services were provided:

Start Date.....

End Date.....

Was their performance satisfactory?

Yes / No\*

\*If No to any of the questions above, please furnish details.

.....  
.....  
.....

Name of authorised person: .....

Signature:..... Date .....

Telephone: ..... Mobile: .....

Email: .....

Completed on behalf (name of business) .....

*NB: This document must be completed in full by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with **all** the above requirements. A separate form must be completed for each reference as required in the evaluation criteria. Failure to adhere to this requirement will result in such tender being prejudiced. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.*

## CONTACTABLE REFERENCE

To Johannesburg Water (SOC) Ltd

I, the undersigned being duly authorised to do so, hereby furnish a reference to Johannesburg Water relative to tender Contract No. **JW OPS 036/20R** for **Supply, Delivery, Strip, Quote and Repair of Electric Motors and Submersible Pumps**

Name of Tenderer:.....

Description of Goods / Services provided

.....  
.....  
.....  
.....

Duration: Year-Month-Day when the Goods / Services were provided:

Start Date.....

End Date.....

Was their performance satisfactory?

Yes / No\*

\*If No to any of the questions above, please furnish details.

.....  
.....  
.....

Name of authorised person: .....

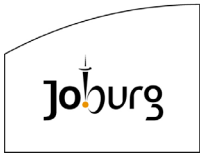
Signature:..... Date .....

Telephone: ..... Mobile: .....

Email: .....

Completed on behalf (name of business) .....

*NB: This document must be completed in full by the referee and included in the tender submission. Alternatively, the client's letterhead may be used for this purpose provided it complies with **all** the above requirements. A separate form must be completed for each reference as required in the evaluation criteria. Failure to adhere to this requirement will result in such tender being prejudiced. Information provided will be verified and if found to be false or misrepresented, punitive measures will be instituted against the respective party including blacklisting and restriction from participating in any future government tender.*



TECHNICAL SPECIFICATIONS

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**TECHNICAL INFORMATION AND SPECIFICATION**

**1. CONTRACT DESCRIPTION:**

The contract is for the supplying and deliver, stripping, quoting and repairing of various low voltage electric motors and submersible pumps on an as and when required basis at various wastewater treatment plants, water and sewer pump station and other sites as identified by JW during the full period of the contract.

**The technical specifications of the electrical motors and submersible pumps to be repaired is as per the attached Annexure A (E01 – Electrical Motors) and Annexure B (M18 – Centrifugal Pumps).**

**2. REQUIRED INFORMATION FOR TENDERER'S REPRESENTATIVE**

The tenderer is to complete the required details below for their representative who will be the point of contact for any technical requirements for the duration of the contract.

**NAME OF TENDERER'S REPRESENTATIVE  
FROM WHOM FURTHER TECHNICAL  
DETAILS MAY BE OBTAINED:**

\_\_\_\_\_

**CONTACT DETAILS OF REPRESENTATIVE:**

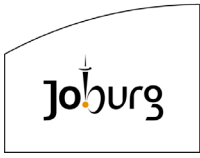
\_\_\_\_\_

**COMPANY NAME:**

\_\_\_\_\_

**SIGNATURE OF TENDERER:**

\_\_\_\_\_



CONTRACT NO. JW OPS 036/20R

SUPPLY, DELIVERY AND OFFLOADING OF ELECTRIC MOTORS  
AND  
STRIP QUOTE AND REPAIR OF ELECTRIC MOTORS



TECHNICAL SPECIFICATIONS

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# ANNEXURE A

**JOHANNESBURG WATER (SOC) Ltd.**

**BULK WASTEWATER**

**PARTICULAR SPECIFICATION**

**E01 : ELECTRICAL MOTORS**



Johannesburg Water (SOC) Ltd.  
PO Box 61542  
Marshalltown  
2107

Revision 4

August 2019




## DOCUMENT CONTROL SHEET

**Document Title:** Particular Specification – E01 : Electrical Motors

**JW Reference:** BWW523C

**Document Ref. No:** E01

### DOCUMENT APPROVAL

ACTION	FUNCTION	NAME	DATE	SIGNATURE
Prepared	Senior Electrical Engineer	B Pieterse	August 2019	
Reviewed	Director	R Baard	August 2019	
Approved	Regional Maintenance Manager	T Thabeng	August 2019	

### RECORD OF REVISIONS

Date	Revision	Author	Comments
4	2019-08-20	B Pieterse	Review of Electrical Standards, plus New Design Guidance
3	2014-06-03		Review of Mechanical / Electrical and Control / Instrumentation Standards, plus New Design Guidance
2	2012-05-30		Review of Mechanical / Electrical and Control / Instrumentation Standards, plus New Design Guidance
1	2009-05-12		Review of Mechanical / Electrical and Control / Instrumentation Standards, plus New Design Guidance



## **PARTICULAR SPECIFICATION: VOLUME E01: ELECTRICAL MOTORS**

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City of Johannesburg  
Johannesburg Water (SOC) Ltd

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## **E01.1 SCOPE**

This specification shall cover all electric motors to be designed, supplied installed and tested that shall drive any of the items of equipment to be supplied under the contract. This specification shall be read together with those specifying the mechanical driven equipment.

## **E01.2 INTERPRETATIONS**

### **E01.2.1 Abbreviations**

In this Specification, the following abbreviations will apply:

ANSI	:	American National Standards Institute
ASTM	:	American Society for Testing and Materials
BS	:	British Standards Institution
SANS	:	South African National Standards

### **E01.2.2 Standards**

The latest edition, including all amendments to until the date of tender, of the following particular national and international specifications, publications and codes of practice shall be read in conjunction with this specification and shall be deemed to form part thereof:

- (a) SANS 1804-2 : Low-voltage three-phase standard motors
- (b) SANS 60529 : Degrees of protection provided by enclosures (IP code)
- (c) SANS 60034 : Rotating electrical machines
- (d) BS 1486-2 : Heavy duty lubricating nipples
- (e) SANS 60034-1 : Rotating electrical machines Part 1: Rating and performance
- (f) ISO 281 : Rolling bearings - dynamic load ratings and rating life

## **E01.3 GENERAL REQUIREMENTS**

- (a) Electric motors shall be manufactured in South Africa and shall comply with the requirements of SANS 1804-2.
- (b) Imported motors shall be accepted only if they form an integral part of the equipment offered. Where imported motors are offered they shall be submitted to the South African Bureau of Standards to be tested in accordance with the requirements of SANS 1804-2.
- (c) The Engineer shall be provided with the appropriate certificates obtained from the South African National Standards stating that such motors do comply, prior with the installation of the motors. However, where tests reveal that motors do not comply, it shall be the responsibility of the Contractor to supply alternative motors that comply with the requirements of SANS 1804-2.
- (d) Where imported motors are not normally kept in stock in South Africa, written proof shall be provided of the availability of replacement parts as well as the delivery period of the parts after placing the orders.
- (e) All motors shall be standard catalogue models and shall be readily available.
- (f) All motors shall where possible, be from the same manufacturer and shall have the same interchangeable frames. Variations in type and size shall, where possible, be limited to prevent stocking a variety of special spares.
- (g) All motors shall be wound for direct-on-line (DOL) type of starting.

#### **E01.4 WORKING VOLTAGE AND SUPPLY SYSTEMS**

- (a) The motors shall be capable of operating within  $\pm 10\%$  of the nominal supply voltage without risk of damage. All motors shall be suitable for operating continuously at the specified 3-phase voltage system under actual service conditions, including the  $\pm 10\%$  voltage tolerance, without exceeding the specified temperature rise determined by the resistance on a basic full load heat run.
- (b) All motors shall be capable of operating continuously under actual service conditions at any supply frequency between 48 and 51 Hz together with any voltage between  $\pm 5\%$  of the nominal supply voltage.
- (c) The slip-in speed of any motor at 80 percent of the nominal voltage at 50Hz shall not exceed a percentage agreed on by the engineer, and the motors shall be capable of operating at this voltage for a period of five minutes without deleterious heating.

#### **E01.5 TEMPERATURE RISE**

The temperature rise, as determined by resistance, of all motors, shall not exceed the following derated values:

Insulation class	E	B	F	H
Temperature rise (K)	50	60	80	100

#### **E01.6 EFFICIENCY AND POWER FACTOR**

- (a) All motors supplied will be energy-efficient as described in SANS 60034-31: Selection of energy-efficient motors
- (b) The efficiency of all motors shall be guaranteed by the contractor. Deviations from the guaranteed efficiency shall be within the limits specified in SANS 1804-2.
- (c) The guaranteed efficiency of each motor size and rating shall be as determined in accordance with SANS 60034. A basic test certificate of efficiency will be accepted for a motor of identical size and rating or a basic test of efficiency shall be conducted if no certificate is available.
- (d) The power factor of motors with a capacity of 20 kW or more shall not be less than 0,85 under all operating conditions.

#### **E01.7 VIBRATION**

- (a) Motors shall be statically and dynamically balanced.
- (b) All motors shall be checked for inadvertent vibration without load, and at full rated voltage at the manufacturer's works, and the vibration amplitude as measured shall be in accordance with SANS 60034-1.
- (c) The ratio of axial to radial vibration shall not exceed 0,5.

#### **E01.8 NOISE LEVEL**

Unless specified differently all motors shall be of 'normal sound power', in compliance with SANS 60034.

#### **E01.9 ENCLOSURE AND FRAME**

- (a) Each motor shall be ingress protected to the degree required by its application, and its enclosure shall be designed for the system of cooling associated therewith.
- (b) Notwithstanding the requirements above, the minimum degree of protection shall be IP 55 to SANS 60529, or alternatively specified. Motors shall preferably be of the totally enclosed fan-cooled (TEFC) type.
- (c) The motor cooling system must be of an aerodynamic design with minimal noise levels and superb airflow distribution over the frame with superior mechanical strength. All motor

cooling fan covers will be constructed in metal.

- (d) All motors of the vertical-spindle type and exposed to the weather, shall be provided with a robust canopy of approved design by the Engineer.

#### **E01.10 MOTOR TYPE**

Motors shall be of the squirrel-cage induction type. Slip-ring induction motors or other approved types will be considered if the contractor is of the opinion that better results could be obtained by using such motors. Full electrical and mechanical details of each alternative shall be submitted with the tender documents. Alternative motors must be accepted by the Engineer in writing.

When motors are connected to VFD's with variable torque loads operated under usual service conditions, inverter-ready general-purpose motors must be supplied (IEC 60034-1)

When motors are connected to VFD's operating at extremely low speeds and/or with a constant torque load, or when operating over base speed, definite-purpose, inverter-duty motors must be supplied (IEC 60034-1).

Larger inverter-duty motors must be equipped with a constant speed auxiliary blower to provide adequate cooling at low motor operating speeds. The contractor must submit a statement from the motor supplier on the need for an auxiliary blower when omitted.

Inverter-duty motors above the 500 frame size should have both bearings insulated, and be equipped with a shaft grounding brush with a ground strap from the motor to the drive case. For frame sizes below 500, the contractor must check with the motor manufacturer regarding requirements for motor bearing insulation.

#### **E01.11 RATING AND STARTING REQUIREMENTS**

- (a) Motors shall be adequately rated for the service for which they are intended, and due allowance shall be made for the temperature, altitude, climatic conditions and variations in the supply voltage. Motors shall not exceed 120% of the required capacity without prior approval from the Engineer.
- (b) Not only shall motors be based on the full load requirements, but also the motor capacity and starting characteristics shall be compatible with the requirements of the driven equipment.
- (c) Where motors are required to drive high inertia loads, the starting torque of the motor and the torque curve of the driven load shall be submitted to the Engineer for approval prior to manufacture. Such motors shall be capable of at least three starts per hour, with two consecutive starts from normal operating temperature, or more frequently if required by the Engineer.
- (d) Motors shall be of the continuously running duty class S1 unless otherwise specified in the detailed specification or if a more onerous duty is dictated by the drive requirement.
- (e) All squirrel-cage induction motors shall be suitable for direct on line starting at full voltage. Single-speed motors shall conform to SANS 60034-12, Design B characteristics unless approved by or dictated by the drive requirements.
- (f) Unless otherwise approved, the 15% tolerance on locked-rotor torque permitted by SANS 60034-1 will not be accepted and shall be limited to 10%.
- (g) Documentation shall include performance curves to suit the designed working conditions.
- (h) When making a selection of the motor size for driven equipment, motor power shall be over-rated by a factor of thirty percent (30%) more than the demand of the driven equipment.

#### **E01.12 BEARINGS**

- (a) All motors shall, wherever possible, be provided with pre-lubricated sealed bearings.
- (b) Re-greasable bearings shall require only one lubrication per year. Grease lubrication of ball or roller bearings, where approved, shall be by means of hexagonal button-type grease

nipples to BS 1486- 2, Nos. 21A or 21B (industrial type).

- (c) Grease-lubricated bearings shall have relief holes to ensure that the bearings have been correctly packed, which holes shall be positioned so that the excess grease can be easily removed. Cups shall be fitted to contain excess grease.
- (d) Bearings shall be protected against eddy currents and shall be capable of withstanding vibrations caused by unbalanced loads.
- (e) All bearings shall be designed for a minimum  $L_{10h}$ , basic life rating of 50 000 hours at the rated load and speed for the application in accordance with ISO 281.

#### **E01.13 EARTHING**

All motors shall be provided with a machined or spot-faced boss earth point, tapped to receive a bolt of not less than 10 mm in diameter for earthing purposes. This earth point must be located on one side of the motor, between the mounting feet.

A protective earth cable must be installed between the MCC earth bar and the motor earth point, sized in accordance with SANS1042-1.

Earth bonding must be installed between the motor frame and the motor support structure as well as the cable support structure.

#### **E01.14 HEATERS AND DRAINAGE**

Non-submersible motors that will be located outdoors or in a damp location such as in a drainage sump shall be provided with suitable means of drainage to prevent the accumulation of water due to condensation. They shall also be fitted with anti-condensation heaters suitable for a 220V AC supply if considered advisable by the manufacturer.

All motors shall be supplied with anti-condensation heaters (220V AC supply) to keep the motor temperature at 23°C when the motor is not operational to prevent moisture from condensing in the motor unless specified otherwise.

Heater terminal boxes shall be fitted on the motor frame and shall be of robust design, liberally sized and complete with suitable terminal block and mechanical cable gland or conduit entry.

#### **E01.15 TERMINAL ARRANGEMENTS**

- (a) All motor terminal boxes must be oversized to fit a cable one size bigger than the standard cable as a minimum
- (b) The terminal box must be installed with an OME supplied seal between the terminal box and the motor chassis
- (c) Motor cable termination blocks must confirm to the IEC 60034-1 standard
- (d) The line connections of each motor shall be brought out to a terminal box located in an approved position. In the case of two-speed motors, separate terminal boxes shall be provided for each speed.
- (e) Terminal boxes shall be of the totally enclosed type designed to exclude the ingress of dust and moisture and sealed from the internal circuit of the motor, and shall be manufactured from sand-cast metal. The wall thickness of the terminal boxes and the dimension of the cable inlet shall be as specified in SANS 1804-2. The terminal box shall be so designed that the cable entry may be made in any one of four positions placed at right angles to one another.
- (f) Winding termination in the motor terminal boxes shall be properly secured or fastened to avoid hot connections during operation.
- (g) Terminal boxes shall be of ample size to allow the cable to be terminated in the box. Under no circumstances shall the cable be allowed to be in contact with the inside of the box or lid.
- (h) Terminals shall be of a substantial design and shall be suited to receive cable lugs. Pinch-screw connections will not be accepted.

- (i) The terminal arrangement shall permit the motor to be disconnected from its supply cable without damaging the cable tails and shall allow the supply cable and motor windings to be tested separately.
- (j) The electrical clearance and creepage distances, with the correct cable terminations in position, shall comply with the requirements of SANS 60034.
- (k) Terminal markings shall be clear and permanent. Irrespective of the direction of rotation required on the site, the connections shall be such that, when the supply leads L1 - L2 - L3 are connected to the motor terminals U - V - W respectively, the motor shall rotate in a clockwise direction when viewed from the driving end.
- (l) Motors suited for only one-directional rotation, shall be clearly marked as such by an arrow fixed to the motor frame at the driving end.
- (m) Before the contractor orders terminal boxes for electrical equipment, he shall supply details of the proposed boxes to the engineer for approval. These precautions are necessary to ensure that the size of the connecting blocks installed is sufficient to accommodate the cables supplied and connected by another contractor, and that sufficient space exists within the box to route cables conveniently.

#### **E01.16 MOTOR/LOAD COUPLING**

- (a) Motors shall be coupled direct to the equipment to be driven by means of approved couplings and/or gearboxes unless specified differently. Refer to the relevant sections for specific specifications on transmission couplings and gearboxes. Vee-belt and chain drives will be considered only if direct coupling of the motor to the equipment is impossible or impractical.  
  
Motors driving vee-belt or chain drives shall be fitted with heavy-duty bearings suited to the full side thrust at 120% of full load torque and short-term overloads of up to 250% of the full load torques during starting. The stiffness of the rotor shaft shall be checked to ensure that resonance and fatigue do not occur.
- (b) Where applicable, the flanges of the motors and equipment shall be identical.
- (c) The precision tolerance class shall apply to all flange-mounted motors with regard to concentricity, perpendicularity and shaft run-out.

#### **E01.17 INFORMATION PLATES FOR MOTORS**

In addition to the information required by SABS 948-1 the following shall also be marked on the nameplates:

- (a) Year of manufacture,
- (b) The order number,
- (c) Total mass of motor in kilogram,
- (d) Diagram indicating the number, type and positions of heaters and temperature detectors if applicable,
- (e) Bearing types and sizes, and
- (f) Bearing grease interval or bearing replacement interval where pre-packed bearings are used.

#### **E01.18 ADDITIONAL SPECIFICATIONS FOR TWO-SPEED MOTORS**

The following additional specifications apply to all two-speed motors:

- (a) Terminal markings shall be as per SANS 1804-2.
- (b) The starting current shall not exceed six times the full load current of the high-speed rating.

#### **E01.19 SUBMERSIBLE MOTORS**

The following additional requirements apply specifically to all submersible motors:

All submersible motors shall be suited for submersion up to a depth of 1,5 times the depth of submersion shown on the drawings for each application, or as specified in the detail specifications.

All submersible motors shall have dynamically balanced rotors supported by maintenance-free, sealed-for-life ball bearings.

All motors shall be suitably coated to ensure the satisfactory operation of the motor under the specified class of service.

All terminal boxes shall be waterproof and suited for submersion up to the depth as specified for the motors.

An adequate length of waterproof cable, purpose-made for submersion, shall be supplied with each submersible motor. The coupling of this cable to the normal power-distribution cable, which usually is of the PVC type with steel-wire armour, shall be placed at least 1 m above the maximum water level by means of a purpose-made, weatherproof, outdoor junction box. The submerged cable shall be supported to minimize any movement of the cable, which results from turbulence caused by the operation of the equipment or the flow of the water.

Thermistor protection temperature switches shall be provided for submersible motors.

Seal monitors shall be provided for submersible motors, together with the required seal monitor relays. The cost for the seal monitor relays shall be deemed included in the rates tendered for the equipment.

#### **E01.20      ADDITIONAL REQUIREMENTS**

- (a) The rotation speed of motors shall not exceed 1 500 rpm unless approved by the Engineer.
- (b) Thermistor protection shall be provided for each winding of each motor. Motors rated below 22kW shall have no thermistor and heater protection devices installed on them. Motor rated 22kW and above shall have both thermistor and heater protection devices installed on them.
- (c) Motors below 55kW shall be started by the DOL type method of starting. Motors including 55kW and above shall be started by the softer-starter type method of starting.
- (d) A separate thermistor and heater terminal box shall be fitted on the motor frame next to the power terminal box and shall be of robust design, liberally sized and complete with suitable terminal block and mechanical cable gland or conduit entry.
- (e) The minimum preferred class of insulation is Class F, derated in accordance with the relevant clause above.

#### **E01.21      TECHNICAL DATA SHEETS**

Details of all individual electric machines and equipment requiring electrical energy shall be indicated on the technical data sheet provided for in the tender Schedules (included in the technical data sheets).

#### **E01.22      TESTING**

Tests on completion (commissioning tests) shall be performed as described below in this specification.

##### **E01.22.1      Performance Tests**

- (a) One motor of every type shall be tested for temperature rise and excess torque. Type test certificates on identical motors will be acceptable in lieu of these tests. Should type test certificates not be available, the first motor of each size manufactured shall be tested. All tests shall be in accordance with SANS 60034.
- (b) The measurement of the temperature rise of the stator windings of motors for use on voltages up to 1 000 volts shall be by the increase in resistance method as is now permitted by SANS 60034.



**E01.22.2**      Routine Tests

- (a) Each motor shall be tested at the manufacturer's works for light-run, locked rotor, insulation resistance, high voltage, air-gap clearances and Tan Delta on each complete stator.
- (b) All tests shall be in accordance with SANS 60034.

**E01.22.3**      Test Certificates

- (a) Four copies of all test certificates, showing the results of all tests performed, shall be supplied at a date not later than the delivery date of the motors.
- (b) The test certificates shall contain power factor and efficiency figures for 125%, 100%, 75%, 50% and 25% of full load conditions as calculated from the test results.

**E01.22.4**      Witnessing of Tests

All type and routine tests on motors larger than 45 kW shall be witnessed by the Engineer.

**E01.22.5**      Testing of Terminal Box Assembly

- (a) Proof shall be given to show that a prototype terminal and cable box assembly of the type being supplied on medium voltage motors has been tested under internal short-circuit conditions and that the pressure relief diaphragm ruptured protecting the case of the terminal box from serious damage. In addition, that a through fault current test was made to demonstrate that the complete assembly is capable of handling the short-circuit current without damage. The fault current for these tests shall have been 45 000 ampere for a duration of 0.25 seconds.
- (b) These type tests shall have been witnessed by an independent authority.

**E01.23**      **DRAWINGS FOR APPROVAL**

The following drawings shall be submitted for approval:

- (a) Dimensioned outline and foundation drawings of the motors. (Shaft diameter, shaft height and motor weight to be clearly shown).
- (b) Detailed drawings of the bearing arrangement, showing all lubrication pipes, coolers and pumps.
- (c) Cross-sectional dimensioned drawings of the cable boxes.
- (d) Detailed drawings of the motor base plate showing full constructional details with dimensions.
- (e) For motors of 250 kW and larger fully dimensioned drawings of the shaft showing all tolerances.
- (f) For motors designed for voltages of 3.3 kV and above, drawings showing the end winding bracing arrangements.

**E01.24**      **STORAGE**

The contractor must ensure that the storage requirements as specified by the manufacturer are adhered to strictly so as avoid voiding of the warranty. Every effort must be taken to ensure the motor is protected against ingress of water, vermin or anything that may affect its future operation. The following are only given as guidelines, the contractor is expected to exercise due care in the storage and handling of electric motors.

- (a) The motor should be store upright in its normal position, free of dust, dirt, gasses and corrosive atmospheres.
- (b) Motors should be stored under roof on a concrete base, normally in a store environment. Do not remove the motor from the wooden pallet.
- (c) For bigger units, which cannot be housed in a store or relevant building, shed must be built with a proper concrete floor. Do not remove the motor from the wooden pallet.

- (d) Store the bigger units close to the final position within access with overhead crane or mobile crane.
- (e) Do not stack any objects on top of or against the motor.
- (f) Motors must be stored in places free from vibrations in order to avoid damage to the bearings.
- (g) The motors space heaters/ anti condensation heaters and similar accessories must be switched on at all times to avoid condensation and corrosion within the enclosure.
- (h) If painting has been damaged during transportation, it must be repainted to avoid rusting.
- (i) Ensure all machined surfaces and shaft extensions are covered with grease or a rust inhibiting substance.
- (j) For slip-ring motors, the brushes must be lifted to avoid condensation between contact surfaces and slip rings.
- (k) Before operation all brushes and contact surfaces have to be inspected and brush seating confirmed.
- (l) When any motor is kept for extended period, the shaft must be manually turned on monthly intervals.
- (m) For big machines with frames greater than or equal to 400mm, the shaft should be rotated monthly at any number of turns and then put at rest at 180 degrees difference from previous stationary position.
- (n) When a motor is not immediately required in operation, it should be protected against moisture, high temperature and impurities in order to avoid damage to the insulation system.
- (o) If the ambient contains high humidity, periodical insulation resistance inspection is recommended during storage.
- (p) The following guidelines show the approximate insulation resistance values that can be expected from a clean and dry motor at 40° Celsius ambient.
- (q) Minimum insulation resistance = rated voltage (kV) + 1 (Mega ohm) using 2 times the rated voltage.
- (r) These periodical measurements should be recorded and be available prior to installation.

## **E01.25 ERECTION AND INSTALLATION**

### **E01.25.1 Erection**

- (a) When motors are erected, care shall be taken to ensure that adequate tolerance margins are made available to ensure interchangeability with replacement motors.
- (b) A minimum of 10 mm of packers shall be provided under the motor frame or motor bedplate to allow for adjustments in height.
- (c) Before holding-down bolts are grouted in, the motor shall be lined up and the bolts shall be properly centred in the hole of the bedplate.
- (d) The bending radius of the motor supply cable should not be exceeded when installing the cable (SANS10142-1).
- (e) Motor supply cables must be supported and should not hang from the terminal box/gland.

### **E01.25.2 Bearing Inspection**

- (a) The Engineer shall inspect motors having ball/roller bearings.
- (b) The grease shall be examined to ensure that it is not hard.
- (c) Providing that no roughness is felt when the shaft is rotated by hand and that the motor runs without undue noise or vibration, the bearings will be considered acceptable.
- (d) Should the bearings fail or exhibit the symptoms of brinelling during the guarantee period,

the Contractor, free of charge, without delay, shall change them.

E01.25.3 Alignment

- (a) After erection, the alignment of the half-couplings between the motor and the driven machine shall be measured. In the case of a pedestal, bearing motor the air gap clearance between the rotor and the stator shall also be measured. A record shall be kept of these figures and they shall be submitted to the Engineer for approval.
- (b) A horizontal sleeve bearing or limited end-float roller bearing motor shall be run uncoupled from its load to ensure that it rotates at the axial position indicated on the shaft and that the rotor is free to move to either side of this position. Particular attention shall be paid to ensure that the free running position and the rotor end-float are in agreement with the axial movement of the flexible coupling.

E01.25.4 Drying Out

- (a) The Contractor shall dry out all motors larger than 100 kW and all smaller motors which have stood in the open during rain or have been flooded or whose cold insulation resistance is below 1.5 MΩ, before they are connected to the supply. If a motor is flooded, the motor bearings shall be replaced as a matter of urgency.
- (b) The method of drying the motor shall be by placing the motor in a heating oven.  
  
Sufficient heat shall be applied to produce a temperature of 60°C but not greater than 80°C for a Class A or 90° C for Class B insulation systems. Insulation resistance measurements and temperature readings shall be taken regularly every half hour at the start of dry-out until the motor attains an even temperature and thereafter every hour.  
  
The characteristic dry-out curve of insulation resistance versus temperature shall be plotted and dry-out may be considered complete four hours after the resistance readings have started to rise from the steady minimum value, providing that the winding temperatures have remained steady during this period.
- (c) The Contractor shall provide all equipment and the personnel required for the drying-out operation.
- (d) In the case of motor smaller than 100kW, the onus remains on the Contractor to satisfy himself that a motor is dry before it is connected to the supply.
- (e) Any motor, which fails as a result of being commissioned in a damp condition, shall be repaired at the cost of the Contractor.

E01.25.5 Double Shaft Extensions

The unused shaft extensions of a double-ended shaft motor shall be covered with an approved rust preventative after the motor is commissioned.

**E01.26 TESTING AND COMMISSIONING**

The contractor must supply a Manufacturers Test Certificate with each motor supplied.

The contractor must do a visual inspection as well as an insulation test on each motor before installation.

The contractor must do a direction test on each motor before handing the installation over. Where equipment can be damaged when rotated in an incorrect direction, the equipment must be disconnected from the motor before the direction check is done.

All test results must recorded and submitted to the Engineer for approval. The Engineer must be informed timeously off all tests to allow witnessing.

**E01.27 MEASUREMENT AND PAYMENT**

No separate payment will be made for electric motors for equipment unless otherwise specified in the detail specifications. All direct and indirect costs associated with such motors shall be deemed included in the rates tendered for the equipment.

Where separate payment is required for electric motors and specified as such in the detail

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specifications, the following payment items shall be applicable:

<u>Item</u>	<u>Unit</u>
Supply and delivery electric motors .....	No

The unit of measurement shall be the number of motors supplied.

The tendered rate shall include full compensation for the design, manufacture, corrosion protection, supply, handling, transport, testing and delivery of each complete motor as specified in the detail specification to ensure satisfactory operation after installation.

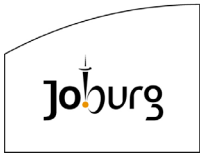
Separate items will be scheduled for different sizes/types of motors required.

<u>Item</u>	<u>Unit</u>
Installation, test and commission of electric motors .....	No

The unit of measurement shall be the number of motors installed.

The tendered rate shall include full compensation for the installation and coupling of the motor to the required load. The tendered rate shall include full compensation for all required installation material.

Separate items will be scheduled for different sizes/types of motors required.



CONTRACT NO. JW OPS 036/20R

SUPPLY, DELIVERY AND OFFLOADING OF ELECTRIC MOTORS  
AND  
STRIP QUOTE AND REPAIR OF ELECTRIC MOTORS



TECHNICAL SPECIFICATIONS

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# ANNEXURE B



a world class African city



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## PARTICULAR SPECIFICATION

### M18: MECHANICAL CENTRIFUGAL PUMPS

3	2012-07-30	General review	Y Pillay	
2	2010-02-16	General review	J Ritchie	
1	2009-05-12	Review of Mechanical / Electrical and Control / Instrumentation Standards, plus New Design Guidance		
<b>Rev</b>	<b>Date</b>	<b>Description</b>	<b>Signature: JW Wastewater Partnership</b>	<b>Signature: Approval from Johannesburg Water</b>

## PARTICULAR SPECIFICATION M18: MECHANICAL CENTRIFUGAL PUMPS

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## **M18.1 SCOPE**

This specification covers the detailed design parameters, manufacture, supply, installation, test and commissioning of Centrifugal Pumps. The Specification shall be read in conjunction with that of the Project Specification.

## **M18.2 INTERPRETATIONS**

### **M18.2.1 Abbreviations**

In this Specification the following abbreviations will apply:-

ANSI	:	American National Standards Institute
ASTM	:	American Society for Testing and Materials
BS	:	British Standards Institution
SANS	:	South African National Standards
SIS	:	Swedish Institute of Standards
DIN	:	Deutsch Industry Normen
ISO	:	International Organisation for Standardization
ASME	:	American Society of Mechanical Engineers
SAECC	:	South African Electrolytic Corrosion Committee
AGMA	:	American Gear Manufactures Association

### **M18.2.2 Standards**

All design standards for the centrifugal pumps shall be subject to the latest amendments and editions of the following standard specifications:-

SANS 10400	:	National Building Regulations
BS 5304	:	Code of practice for safeguarding of machinery
SANS 9096-1: 1994	:	Testing of welders, where applicable to the type of welding required
BS 292 Part 1: 1987	:	Dimensions of ball bearings, cylindrical and spherical roller bearings
SANS 10162-4	:	Structural use of Steel Part 4: The design of cold-formed stainless steel structural
SANS 1044-3	:	Welding Part 3: The fusion of steel (including stainless steel): Tests for the approval of welding procedures
SANS 10044-4	:	Welding Part 4: The fusion welding of steel (including austenitic stainless steel): Tests for the approval of welders working where weld procedure approval is not required.
SANS 10064	:	The preparation of steel surfaces for coating
SANS 10102-4	:	Selection of pipes for buried pipelines Part 1: General Provisions
SANS 10104	:	Hand railing and balustrading (safety aspects)
SANS 10111-2-1	:	Engineering Drawing Part 1: General principles Engineering Drawing Part 2: Geometric Tolerancing Section 1

SANS 10341	: Installation and maintenance of bearings – General guidelines
SANS 1700-5-9	: Fasteners Part 5: General requirements & material properties Section 8: Corrosion resistant stainless steel fasteners-Bolts, Screws & Studs
SANS 1700-5-10	: Fasteners Part 5: General requirements & material properties Section 8: Corrosion resistant stainless steel fasteners-Nuts
BS EN ISO 14847:1999	: Rotary positive displacement pumps. Technical requirements
BS EN 734:1995	: Pumps and pump units for liquids. Common safety requirements
BS EN 12162:2001	: Liquid pumps. Safety requirements. Procedure for hydrostatic testing
BS EN 60041:1995	: Field acceptance tests to determine the hydraulic performance of hydraulic turbines, storage pumps and pump-turbines.
BS EN 60994:1993	: Guide for field measurement of vibrations and pulsations in hydraulic machines (turbines, storage pumps and pump-turbines)
BS EN 22858:1993	: End-suction centrifugal pumps (rating 16 bar). Designation, nominal duty point and dimensions
BS EN 23661:1993	: End-suction centrifugal pumps. Baseplate and installation dimensions
BS EN 733:1995	: End-suction centrifugal pumps, rating with 10 bar with bearing bracket. Nominal duty point, main dimensions, designation system
SANS 1123	: Pipe Flanges
ISO 281	: Rolling bearings -- Dynamic load ratings and rating life
BS 4999	: General requirements for rotating electrical machines. Specification for standard dimensions
SIS 05 59 00	: Pictorial Surface Preparation Standards for Painting Steel Surface
BS 5316 Part 2	: Pump test codes

#### M18.2.3 General Requirements

This specification must be read in conjunction with the following specifications:-

M08: Particular Specification for Gearboxes

M21: Particular Specification for Pressure Pipework

E01: Particular Specification for Electric Motors

G01: Particular Specification for Colour Codes

G02: Particular Specification for Corrosion Protection

Automation and Control Design Standards Volume 8: Flow Measurement

Automation and Control Design Standards Volume 11: Temperature Measurement

### **M18.3 PUMPS**

#### M18.3.1 Design Parameters

Centrifugal pumps shall have stable non-overloading characteristics and the shaft speed shall not exceed 1500 rpm.

The pumps shall be of the highest quality and shall be suitable for continuous operation over long periods with a minimum amount of maintenance at high-sustained efficiency.

In all applications, with exception of clear water pumps, non-clogging impellers must be used. Pumps shall be designed as to remove the impeller cover without moving the pump, pipe work or motor. Each pump shall have a drip tray with a 20 mm diameter galvanised drain pipe to the nearest drainage point.

The pump design shall make adequate provision for the balancing of residual axial thrust. Pumps shall be supplied complete with suction and delivery pressure gauges complete with air-bleed and isolating cocks, shaft couplings and guards, gland leakage piping, base plates, foundation bolts and other necessary equipment.

Detailed performance curves for the pump type shall be provided at the time of tendering.

The curves shall indicate the following:

- Head (metres) vs. flow (litres/second) - 0% to 120% duty flow
- Power absorbed in kW - 50% to 120% of duty flow
- Pump efficiency – 0% to 120% duty flow
- Net positive suction head curves required by the pumps at the specified flow rate.

The efficiency curve shall be flat over a wide range in order to provide efficient working at various pump operating conditions.

Pumps shall be able to operate without cavitation over a full range as specified without throttling. Pumps are required to operate continuously at an ambient temperature of 40°C.

The following quantities shall be guaranteed by the Contractor:

- Minimum flow rate of the pump at the specified total head.
- Maximum power demand at the specified total head.
- Minimum efficiency at the specified total head.
- Maximum net positive suction head required by the pump at the specified flow rate.

#### *Multiple Units*

Unless specified arrangements incorporating multiple units coupled in series in order to achieve the duty specified for each complete pump set shall only be offered as an alternative.

The mechanical equipment to be supplied under this Contract shall be installed, tested and commissioned on concrete structures, constructed by others, to the dimensions indicated on the construction detail drawings.

#### M18.3.2

##### Pump Casing

The pump casings shall be manufactured from cast iron or cast steel depending on the stresses corresponding to the required test pressures. Unless otherwise stated the dimensions and drilling of the suction and discharge flanges shall be SANS 1123 to the design pressures as specified but with a minimum of 10 Bar.

The pressure rating of the flanges shall at least be equal to the maximum static pressure plus the pump shut-off pressure.

Casings shall be designed for not less than the following working pressures or 1.5 times the actual working total discharge pressure, whichever is the greater.

Horizontal Split casing	:	1000 kPa
End Suction type	:	1000 kPa
Vertical Split Casing	:	600 kPa
Multistage	:	1.5 times working pressure.

#### *End suction pumps*

End suction pumps are arranged with a central suction connection and a tangential discharge connection. Both these connections shall be suitably flanged.

The casings shall be split at right angles to the shaft to enable the easy withdrawal of the impeller assembly. The volute casing shall be preferably a separate casing from the pump bearing and base assembly, but bolted and spigoted thereto.

For end suction pumps of more than 5.5l/s and not more than 70 l/s capacity, the casing shall be arranged to have a removable casing cover on the motor side so that the pump may be dismantled without disturbing the suction or delivery piping.

#### *Horizontally split casings*

These shall be double entry type casings, which are split on the axial centreline. The suction and delivery branches must be cast integral with the part of the pump incorporating the pump base.

The other half of the casing must be easily removable for an internal examination of the pump without the necessity of disturbing either the suction or delivery pipe work or rotating assembly.

The casing shall be fitted with suitable renewable corrosion resisting wearing rings and bushes in all positions where fine clearances require to be maintained. Wearing rings shall be made of high quality bronze or stainless steel.

All casings must be fitted with ceramic or stainless steel neck rings where fine clearances must be maintained between stationary and moving parts, to suit the fluid pumped.

#### *Semi-concentric back pull-out design casings*

The pump casing shall be semi-concentric back pull-out design, with the first half of the circumference after the pump outlet being cylindrical. The remaining circumference shall spiral outwards towards the flanged centreline discharge. The casing shall be manufactured from cast iron.

All casings shall be provided with the following tappings as a minimum requirement:-

- One suction pressure gauge tapping
- One discharge pressure gauge tapping
- One bleeder cock tapping
- One filling point tapping
- Suitable tapping or, where possible, internal drilling to provide water for the glands.

All casings shall be heavily ribbed and strengthened as necessary to resist hydraulic forces, and internal passages shall be smoothly finished to minimize hydraulic forces.

### M18.3.3

#### Pump Impeller

Each impeller after machining and dressing shall be independently statically balanced and the

complete rotating assembly with coupling shall be dynamically balanced.

All impellers shall be of a non over loading design.

Impellers shall be securely keyed and fixed to the shaft by means of suitable shaft nuts and locking sleeves.

All bolting devices must be securely locked so that they cannot accidentally come loose. Bolting devices shall be made of corrosion resistant materials.

#### M18.3.4 Pump Shaft

The pump shafts shall be of sufficient dimension in order to avoid excessive torsional or bending stresses and deflection.

The pump shaft shall be designed so that the critical speed of the rotating assembly is well above the maximum pump operating speed.

The impeller shall be secured to the shaft in such a way that it can be readily removed without any damage to the impeller and the shaft.

The shafts shall be protected by replaceable sleeves manufactured from non-corrosive material. The shaft shall be manufactured from stainless steel.

#### M18.3.5 Shaft Coupling

The pump and motor shall be connected by a flexible coupling in such a way as to prevent them from uncoupling regardless of which way the impeller may be rotating.

The coupling shall accommodate small axial, lateral and angular misalignments without imposing undue stresses on the shaft and bearings. The coupling shall be enclosed in a stationery solid-plate guard to the Engineers satisfaction.

### M18.4 **BEARINGS**

All bearings shall be suitable for shaft rotation in both directions. All bearings shall be designed for a life of at least 100 000 hours at an (L10) rating. Bearings for the output shaft shall be designed to withstand bending, up thrust, down pull, thermal expansion and radial loads imposed by the impeller.

The rotating assembly shall be positively located in the axial direction and thrust bearings will therefore be required.

For ease of lubrication all bearing grease pipes must be piped to grease nipples on the outer cover of the pump support frame.

#### M18.4.1 Bearing Housing

The bearing housing shall be manufactured from cast iron and shall be oil bath lubricated. Oil level sight glasses shall be provided with level markers for running and filling minimum and maximum positions respectively. These shall be arranged for easy viewing and shall take into account the angle of mounting.

The bearing housing and motor stool design shall provide accurate, self-aligning mounting for the flanged electric motor.

#### M18.4.2 Lubrication

In the case where oil lubrication is required, adequate provision shall be made for the cooling of

the oil. The bearings shall be required to operate at temperatures no higher than 60°C.

Oil reservoirs of sufficient capacity shall be fitted with easily accessible oil level indicators, which are to be clearly marked in order to indicate the oil standing and running levels.

#### **M18.5 GLANDS AND SEALS**

Low pressure glands of the stuffing box pattern shall allow repacking without having to dismantle the pump.

If mechanical seals are offered they shall be manufactured from 316 SS to prevent the pump from leaking and shall be cartridge-type seals with O-rings and silicon carbide or tungsten carbide faces.

The cartridge seal shall be pre-assembled and pre-tested, requiring no adjustments and settings from the installer. Any springs required to push the seal faces together shall be shielded from the fluid that is to be pumped. The cartridge shall include a heat treated sleeve and an iron seal gland.

Full details of the seals and glands indicating the materials, finishes, clearances etc. shall be submitted with the Tender.

A spare mechanical seal for each size and type shall be supplied.

#### **M18.6 VENT COCKS**

Vent cocks shall be fitted at all high points to the pump casing. These cocks shall be adequately sized in order to allow the trapped air to be released freely.

An automatic air vent shall be fitted to each pump casing if specified. This device shall be suitable for the remote operation of an indicator to show the open and closed positions of the air vent.

#### **M18.7 BASE PLATE**

The base plate of the pump and motor shall be rigid. The pump and motor shall be situated on the upper face of each base plate, which shall be machined flat and smooth to ensure that the pump and motor are bedded properly without the use of spacers.

The pump/motor base plate shall be completely aligned prior to grouting and provision shall be made to grout within the base plate itself to facilitate vibration-free operation.

Base plates which have a mass greater than 200 kg shall have two jacking bolts at right angles with a lock nut at every corner of the unit.

#### **M18.8 DRIVE UNIT**

The pump shall be driven by a fixed electric speed motor and a speed reducer. Refer to Particular Specification E01: Electric Motors for a detailed specification for Electric motors.

##### **M18.8.1 Gearbox / Motor Coupling**

The coupling shall be fully rated to transmit the motor full load power and tested to prove the above features together with static and dynamic balance. The motor shall be coupled to the gearbox input shaft with either a V-belt or a flexible coupling. V-belts and couplings are to be provided with protective cover guards.

**M18.9 GEARBOX**

Refer to M08: Volume M08: Mechanical Specification for Gearboxes.

**M18.10 MONITORING DEVICES**

Full detail of all monitoring devices offered must be submitted with the Tender.

**M18.11 PRESSURE GAUGES**

Pressure gauges shall be fitted with an isolating cock, shall be vibration and shock resistant and shall be calibrated to read with an accuracy of  $\pm 1\%$  of the indicated pressure. Three 20mm minimum diameter ball valves shall be employed to zero the gauge, to isolate it and to vent to atmosphere. A chemical seal shall be used to insulate the gauge from the media being measured.

The faceplate diameters of the pressure gauges shall be at least 100 mm. The gauges shall indicate the water pressure in kilopascal and shall have a range of a maximum of 50% higher than the normal maximum working pressure. All gauge glass must conform to internationally recognized standards. These standards include DIN 7081, BS 3463 and JIS B 8211.

A calibration certificate is to be provided with each pressure gauge.

**M18.12 TEMPERATURE DETECTORS**

If required oil lubricated bearings and glands offered shall be fitted with temperature detectors. The temperature detectors shall be PT100 – RTD's

If grease lubricated bearings are offered, the Tenderer will indicate in his Tender if temperature detectors can in fact be used. If temperature detectors are not feasible, an alternative means of monitoring bearings must be offered.

**M18.13 NO-FLOW PROTECTION**

- (a) Each pump shall be protected against no flow by a flow meter installed in the discharge line from the pump.

**M18.14 INDICATOR ON AUTOMATIC AIR VENT**

If an automatic air vent is required for the pump casing, it shall be fitted with an indicator to indicate the open and closed positions of the air vent. The air vent shall be suitable for remote operation and air vent control shall be mounted on the control panel inside the pump station.

**M18.15 GLAND LEAKAGE**

If a gland leakage device is required in order to monitor the gland leakage it shall be supplied and fitted with adjustable alarm contacts designed to close when gland leakage rises to a pre-set value.

**M18.16 PIPEWORK**

All suction and delivery pipes shall be connected to the pump casing by means of flexible connections. All flexible connections shall be installed as close to the pump's casings as possible, and in any event, shall be between the suction valve and the pump casing and delivery non-return valve and the pump casing. In all cases the flexible connection shall be in the section of piping of smallest diameter.

Double victualic joint are generally preferred for flexible connections, but approved re-enforced rubber bellow units are acceptable for low-pressure services.

All valves and pipework external to the pump casing and separated there from by means of flexible connections shall be securely anchored to prevent movement.

Refer to Particular Specification M21: Volume M21 Pressure Pipework for a detailed specification on pipework.

**M18.17      HOLDING DOWN BOLTS**

The contractor shall be responsible for the supply of all necessary holding down bolts for the machines supplied by him/her. The holding down bolts shall be manufactured from 316 SS.

All bolts necessary for assembling all equipment shall be supplied by the contractor.

**M18.18      VIBRATION AND NOISE**

The pumps as well as the motors will comply with the requirements of BS 4999. The Contractor may be requested by the Engineer to carry out vibration tests. The noise level shall not exceed 85 dBA at 1m.

**M18.19      CORROSION PROTECTION**

Refer to Particular Specification G02: Corrosion Protection

**M18.20      DESIGNATION AND INFORMATION PLATES**

Each pump shall be supplied with an information plate secured to the pump casing in a visible position indelibly marked with the following details:-

- Maker's name, pump type and serial number
- Year of manufacture
- Rated duty of pump in litres per second
- Head in metres at rated duty
- Pump speed in r/min
- Mass of completely assembled pump in kilogram

**M18.21      INTERCHANGEABILITY**

Where two or more similar pump units are required, these units will be identical in all respects.

All similar parts of items supplied will be interchangeable without any additional machining or fitting.

**M18.22      RECOMMENDED SPARE PARTS**

The Tenderer must submit details of spare parts recommended to be kept in store by the Employer with his Tender.

The detail will include a full description of the parts, part identification, number required, guaranteed delivery time and total price delivered to Site.

**M18.23      OPERATION AND MAINTENANCE MANUAL**

The Contractor shall hand over to the Engineer four sets of the Operation and Maintenance



Manual compiled for each installation not later than at the time of commissioning of the installation. These manuals are a prerequisite for final take over of the plant.

The Operation and Maintenance Manual will contain the following:

- (a) Brief description of the plant and installation.
- (b) Concise operating instructions.
- (c) Routine maintenance instruction.
- (d) Precautionary measures, elementary trouble location, rectifying measures and emergency actions.
- (e) Detailed information on equipment.
- (f) Lists of spare parts including names and addresses of suppliers.

#### **M18.24 DRAWINGS**

The drawings included in the Tender Documents are the Engineer's proposal for the plant layout. Should the Tenderer offer alternative layouts, he shall submit drawings with his Tender in order for it to be evaluated.

Before the Contractor carries out any work, he will submit detailed working drawings to be approved by the Engineer. Approval of these drawings does not relieve the Contractor from his responsibility for the correctness of the drawings.

#### **M18.25 INSTALLATION**

The pump and motor shall be aligned to within  $\pm 0.025$  mm full indicator movement on dial gauge, regardless of the coupling type. After the pump and motor feet are tightened down, ad pipework erected and tightened, both angular and parallel alignment shall be checked and recorded at each quarter revolution. These readings shall be submitted to the Engineer and is a prerequisite for handover.

Upon completion, dowel pins shall be fitted to facilitate relocation at any future time.

#### **M18.26 INSPECTION, TESTING AND COMMISSIONING**

##### **M18.26.1 Testing by Manufacturer**

The Manufacturer will carry out all tests on materials, quality control tests, dimensional checking and routine tests on parts to ensure that the pumps and materials conform to the requirements of the relevant SANS or BS specifications and to this Specification. The Engineer will not necessarily attend these tests but records must be kept and all test results will be made available to the Engineer.

##### **M18.26.2 Witnessed Testing**

In addition to the above, a number of performance tests will also be carried out in the testing facility of the supplier before equipment is transported to Site. These tests can be carried out in the workshop of the manufacturer/supplier if it is suitably equipped or another approved test facility.

The Engineer may witness these tests and the Contractor will notify the Engineer two weeks in advance of the date and place at which the equipment may be inspected and tested. When tests and inspections have met the satisfaction of the Engineer a certificate of workshop

acceptance will be issued. These certificates are a prerequisite before payment for "Materials on Site" can be passed. The Engineer's acceptance will in no way relieve the Manufacturer of any of his obligations to design, manufacture and supply pumps strictly in accordance with the Specification.

Performance tests shall include:-

- (a) Hydraulic tests on the pump casing. The test pressure will be equal to 1½ times the maximum working pressure at the delivery end of the pump. The testing will be done with blank flanges bolted onto the flanges. The pressure will be maintained for at least 15 minutes. No sign of sweating, leaking, undue deformation and stressing or defect of any kind will be evident during the test period.
- (b) Tests to prove that the rotating parts are dynamically balanced.
- (c) Performance tests on pump and driving unit.
- (d) NPSH requirements if called for in the Project Specifications.

A performance test shall be carried out in accordance with BS 5316 Part 2 - Class B tests if specified. Unless otherwise stated, the Contractor will be required to conduct the performance test on the combined pump/motor unit.

If a performance test of the pump and its driving unit is not possible at the manufacturer's works, this shall be stated in the Tender with reasons to allow the Engineer opportunity to make alternative proposals.

M18.26.3 Testing by an Independent Facility

The Employer may require that an independent testing facility or institution such as the South African Bureau of Standards carry out performance tests. A separate item for performance testing will be provided in the Schedule of Quantities to allow for this.

M18.26.4 Failure to Pass Performance Test

Should the pump unit fail the performance test, whether performed at the manufacturer's works or at an independent institution, the Engineer shall authorise any amendments to the plant which may be considered necessary to meet the guaranteed quantities within the permissible tolerances laid down in BS 5316 Part 2 - Class B tests and prove with further test that the equipment conform to the Specification.

All costs involved in the re-testing of pump units will be borne by the Contractor.

Should the pump unit fail to pass the test with more than 5% variation on the actual guaranteed figures, the engineer will reject the pump unit and request the Contractor to replace the unit so rejected.

Should the pump unit still fail to pass the test, but the actual figures do not vary by more than 5% from the actual guaranteed figures, the Engineer may :-

- (a) Request the Contractor to carry out amendments to ensure the compliance of the unit with the Specification; or
- (b) Accept the equipment but impose a penalty for non-compliance on the Contractor. A sum will be calculated based on the additional energy used over the life expectancy of the equipment and this will be deducted from the Contract price for each pump set for every kilowatt by which the gross demand exceeds the guaranteed figure with permissible tolerances.

**M18.26.5**      **Commissioning**

On completion of the installation the Contractor will check all items for satisfactory functioning. He will then inform the Engineer of his intention to commission the plant. The Engineer may request control measurements on pump alignment at this stage.

A detailed programme of his proposed commissioning procedures will be submitted not later than two weeks prior to the commissioning date.

After a successful running period of 4 hours (to be witnessed by the Engineer) the Contractor will hand over the installation to the Employer as well as the Operation and Maintenance Manuals. The Completion Certificate will only be issued after the units have been in successful operation for 14 consecutive days and the acceptance tests successfully completed.

During the first 14 days of operation, the Contractor will rectify any problems with the units on Site within 24 hours of being telephonically notified. During the remainder of the maintenance period, the Contractor will, within 14 days of being notified, commence rectifying any possible problems that the Employer may encounter with the equipment supplied under this Contract.

Should the Contractor fail to meet the above requirements, the Employer may appoint others to undertake the necessary repair work at the Contractor's cost.

**M18.26.6**      **Tests at the Site of the Works**

The Engineer may require that site tests are performed to verify performance figures guaranteed by the Contractor. Flow rate, total head and power input to the pump/motor units shall be determined, as accurate as Site conditions permit, for one or more points on the pump curves close to the specified duty point. The Contractor shall provide suitable instruments with recent calibration certificates.

Should these measured and calculated quantities differ from those guaranteed by more than the tolerances allowed by BS 5316 Part 1 - re-testing of the unit at any testing facility, or the recalibration of the measuring instruments.

Should the subsequent test results still fall outside the allowable tolerances, Clause M18.28.4 shall apply, and call costs shall be borne by the Contractor. In the event of the subsequent test being successful, costs shall be borne by the Employer.


**M18.27**      **COLOUR CODES**

The standard final colour codes for equipment supplied under this Contract shall be in accordance with Particular Specification G01.

## **M18.28 MEASUREMENT AND PAYMENT**

Payment under scheduled items shall be made per complete installation as specified, electrical connections, etc and grouting, etc. Measurement and payment will distinguish between supply / delivery and installation / commissioning of the equipment.

The tendered rates or sums shall cover the cost of design, drawings, manufacture, supply, testing at the manufacturers works, delivery to site, off loading, installation, site testing, setting into operation, the supply of O & M manuals, commissioning and maintenance during the warranty period of all equipment specified and also for anything not specifically mentioned but obviously required, (e.g. all ancillaries, including all bolts, fastenings and brackets, safety guards and any work or material required for the proper installation of such equipment) to enable the equipment to be installed and/or function safely and correctly as specified. No claims whatsoever for extras will be allowed on the grounds that a necessary piece of equipment or a part thereof is not specifically mentioned.

	SAFETY, HEALTH & ENVIRONMENTAL (SHE) SPECIFICATION	
	TENDER NUMBER:	JW OPS 036/20R
	PROJECT LOCATION:	Various areas within CoJ
	PROJECT DESCRIPTION:	Supply, Delivery, Offloading, Strip, Quote and Repairs Electric Motors & Submersible Pumps

## Returnable Annexure A: Acknowledgement of SHE Specification & Annexures

### DECLARATION BY CONTRACTOR

I, the undersigned, and representing the tenderer as indicated hereby acknowledge that I have obtained copies of the following listed documentation and confirm that I fully understand the contents thereof and confirm compliance thereto in the event of being successful:

- OHS Specification (Volume 2)
- Annexure 1: Baseline Risk Assessment
- Annexure 2: Medical Screening Policy
- Annexure 3: Contractor Competency Evaluation
- Annexure 4: Sign off form
- Annexure 5: Environmental Management Plan
- Annexure 6: Waste Management Plan
- Annexure 7: COVID-19 Guideline
- Annexure 8: Risk Assessment

We furthermore commit to:

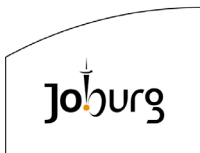
- Comply with all applicable SHE related legal and other requirements.
- Inform all staff of their role in managing environmental impacts and safety hazards on site.

Signed at ..... on this ..... Day of ..... 20.....

Name of tenderer	
Name of Authorized person	
Authorized Signature*	

\*Signature must be as per form JW 3.3 as applicable

**NB: Failure to complete this form in full and have it signed as required will result in elimination**



**SPECIAL CONDITIONS**

**SPECIAL CONDITIONS**

**GENERAL:**

**NB:** The attention of the tenderer is drawn to the fact that General Conditions of Contract (JW13) shall apply, where applicable, to this contract.

**DEFINITIONS:**

- 1.1 That "Johannesburg Water (SOC) Ltd" shall herein after be referred to as "JW".
- 1.2 The "Managing Director" shall mean the Managing Director: Johannesburg Water (SOC) Ltd or his authorised representative.
- 1.3 "VAT" shall mean Value Added Tax in terms of the Value Added Tax Act 89 of 1991 as amended.
- 1.4 "Regional Maintenance Manager" shall mean the JW Maintenance Manager of one of the JW sites or his authorised representative.
- 1.5 "Contractor or Service Provider" shall mean the recommended tenderer who has been awarded the tender and has entered into a formal contract with JW upon acceptance of the appointment.

**PRICE:**

- 2.1 All prices shall exclude Value Added Tax at the standard rate as gazetted from time to time by the Minister of Finance in terms of the Value Added Tax Act 89 of 1991 as amended.
- 2.2 The pricing schedule must be completed in full and all alterations must be authenticated with a signature.

*Alterations to the prices offered must be signed or initialled next to the alteration by the tenderer's authorised signatory.*

- 2.3 The service provider will be required to include the cost of consumables in their price with the exception of those listed in the Pricing Schedule

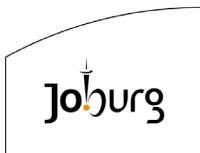
These are consumables that will be used during the repairs of the equipment.

- 2.4 The "strip and quote" rate will be quoted as a Sum and the rate must include labour and consumables (i.e. stripping, measurement, quoting and cleaning).

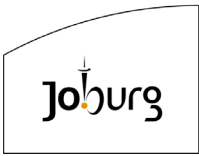
- 2.5 The "assemble" rate will be quoted as a Sum and the rate must include labour and consumables (i.e. painting, fitting, conducting tests and formulating and submitting tests reports).

**CONTRACT PRICE  
ADJUSTMENT:**

- 3.1 A firm price tender will be required for the duration of the contract, for tender evaluation and budgeting purposes.

**SPECIAL CONDITIONS**

<b><u>SURETY BOND:</u></b>	4.1	No surety bond shall be required in terms of this contract as the contract is on an "as and when" required basis.
<b><u>COMPLIANCE WITH LEGISLATION:</u></b>	5.1	The Contractor shall comply with all Municipal By-laws, and any other Laws, Regulations or Ordinances and shall give all notices and pay all fees required by the provisions of such By-laws and Regulations specified therein.
	5.2	The Contractor shall comply with all the requirements prescribed in the technical specification, unless otherwise stated.
<b><u>SAFETY:</u></b>	6.1	Without derogation from the generality of Clause 5.1, or from any other provision of this contract, the Contractor shall comply in all respects with the safety and other requirements of the Occupational Health Safety Act 85 of 1993 and the regulations applicable.
	6.2	The service provider shall also comply with all Occupational Health and Safety requirements as prescribed at JW sites and premises; whether conducting work on site or merely collecting equipment.
	6.3	The tenderer(s) will be required to compile and submit a Health and Safety File for approval by the JW OHS Department prior to commencement of the contract.
<b><u>INSURANCE AND INDEMNIFICATION:</u></b>	7.1	In addition to any insurance required to be held by the Contractor in terms of the Occupational Injuries and Diseases Act no.130 of 1993, the Contractor must be fully insured against all accidents, loss or damage arising out of the conditions or operation of the vehicles or execution of any work including all third party risks.
	7.2	The Contractor hereby indemnifies and agrees to keep JW indemnified throughout the period of the contract against all claims by third parties or the Contractor's own employees resulting from the operations carried out by the Contractor under this contract up until the date of acceptance.
	7.3	A current certificate of good standing in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 must be furnished by the Contractor within 21(twenty one) days of notification of acceptance of the tender. Proof of renewal or extension of insurance cover must be furnished by the Contractor whenever required by JW.
	7.4	The Contractor shall be liable for any damages or injury of whatever nature caused directly or indirectly as a result of his operations, to any of JW's or Municipal Government or Private Property or to his own vehicles and personnel.
		Any insurance required by the tenderer in respect of the units under this contract must be included in the charge.
<b><u>REMEDIES, BREACH, WHOLE AGREEMENT.</u></b>	8.1	If the supplier or any person employed or associated with him or in the case of a Company, a Director or shareholder or person similarly associated with such Company, either directly or indirectly gives or offers



**SPECIAL CONDITIONS**

**WAIVER VARIATION  
AND INDULGENCES:**

to give any gratuity, reward or commission or other bribe to any person in the employ of JW this contract shall be avoidable at the instance of JW.

8.2 If the Contractor has not complied with the Managing Director's requirements or if he is in breach of any of the Conditions of this contract and:

8.2.1 fails to remedy such breach within 14 (fourteen) days of receipt of written notice requiring it to do so (or if not reasonably possible to remedy the breach within 14 (fourteen) days, within such further period as may be reasonable in the circumstances, provided that the Contractor furnishes evidence within the period of 14 (fourteen) days reasonably satisfactory to JW, that it has taken whatever steps are available to it to commence remedying the breach), then the JW shall be entitled, without notice and in addition to any other remedy available to it at law or under this agreement, including obtaining an interdict, to cancel this agreement or to claim specific performance of any obligation whether or not the due date for performance has arrived, in either event without prejudice to JW's right to claim damages.

8.2.2 Should JW elect to cancel the contract then and in such instance a certificate presented by the Managing Director of JW shall constitute proof of the contractor's indebtedness to JW.

8.3 This agreement constitutes the entire agreement between the parties relating to the matter hereof.

8.4 No amendment or consensual cancellation of this agreement or any provision or term hereof or of any agreement, bill of exchange or other document issued or executed pursuant to or in terms of this agreement and no settlement of any dispute arising under this agreement and no extension of the time, waiver or relaxation or suspension of any of the provisions or terms of this agreement or of any agreement, bill of exchange or other document issued pursuant to or in terms of this agreement shall be binding unless recorded in a written document signed by the parties. Any such extension, waiver or relaxation or suspension, which is so given or made, shall be strictly construed as relating to the matter in respect whereof it was made or given.

**DISPUTES:**

9.1 In the event of any dispute arising between JW and the Contractor in connection with or arising out of the contract, it shall be referred to the Managing Director of JW who shall state his decision in writing and give notice of the same to the Contractor within 28 days of the dispute having been submitted to the Managing Director of JW. Such decision shall be binding upon the Contractor subject to clause 9.2.

9.2 Should the Contractor be dissatisfied with the decision of the Managing Director he/she may, within 28 days after receiving notice of such decision, require that the issue or issues be referred to a single arbitrator to be agreed upon between the parties or, failing agreement, to be



**SPECIAL CONDITIONS**

nominated by the Chairman of the Association of Arbitrators and any such reference shall be deemed to be submission to the arbitration of a single arbitrator in terms of the Arbitration Act, 1965. The award of the arbitrator shall be final and binding on both parties.

- 9.3 Not later than one week after receipt of notice calling for arbitration, JW may give notice to the Contractor that the dispute or disputes be settled by Court of Law having jurisdiction.

**SCOPE OF  
CONTRACT:**

- 10.1 The Contractor be required to supply, deliver and offload and/or strip, quote and repair low voltage electric motors and/or submersible pumps at/from the various JW wastewater treatment works, pump stations and any other specified JW sites on an "as and when" required basis for a period of thirty-six (36) months.

- 10.1.1 The Contractor will be required to complete and sign the equipment collection and delivery form when collecting any equipment for repairs at the JW sites.

This form shall also be completed and signed when delivering / returning that particular equipment to the JW sites.

- 10.1.2 The relevant authorised JW representative will also sign that same form (referred herein clause 10.1.1) during collection and delivery of equipment.

- 10.1.3 A copy of the form (referred herein clause 10.1.1 and 10.1.2), will then be issued to the contractor upon delivery of the equipment to JW.

- 10.2 The tenderer will be required to strip the equipment (motor/submersible pump) and provide JW with a comprehensive (detailed) quotation of work required and the costs breakdown.

Within five (5) working days after collecting the equipment.

- 10.3 An Authorised JW Representative will issue the Contractor with a Purchase Order / Purchase Instruction detailing the repairs/maintenance that the JW Representative has listed to be carried out on specific equipment (Motor/Submersible Pump).

- 10.4 After receiving the Purchase Order /Purchase Instruction, the Contractor must verify that all the items stipulated in the Purchase Order / Purchase Instruction herein clause 10.2 constitutes all the items that need to be repaired. Thereafter, the Contractor shall:

- 10.4.1 Issue the JW Representative with a notice that all items for the repair/maintenance are covered and the Contractor will be with the repair/maintenance set out in the Purchase Order/ Purchase Instruction

### SPECIAL CONDITIONS

- 10.4.2 Issue the JW Representative with a notice that not all items are accounted for. The notice must include a detailed list of items that require repair/maintenance. The contractor may only commence approval by the relevant JW Divisional Manager or his delegated Representative. This approval will be done through a written letter.
- 10.4.3 Issue the JW Representative with a job card which shall include the equipment's serial number, equipment type, make and size of equipment. The job card shall include an efficiency test report performed on the motor after the repair done.
- 10.5 JW reserves the right to inspect the stripped equipment prior to approval of the work.
- 10.6 The comprehensive quotation (referred to herein Clause 10.2) must include a "pre-quotation", for Submersible Pump, from the OEM (Original Equipment Manufacturer) or their agent for the components / parts / spares which the service provider intends to use when carrying out any repair and maintenance work.
- 10.7 Every comprehensive repair quote (referred to herein Clause 10.2 (ii)) must also include / indicate the Total Cost of Replacement of the equipment.
- 10.8 Upon completion of works (repairs and/or maintenance), the service provider shall deliver the equipment to the respective JW sites.
  - 10.8.1 The service provider shall include a comprehensive job card and detailed invoice outlining all work done and consumables used, as well as any parts fitted or replaced on the equipment.
  - 10.8.2 For every work / job that entails replacement of parts, the detailed invoice (referred to herein Clause 10.3 (i)), must include a letter or certificate from the OEM as proof that only OEM or OEM Approved parts were used for the repair and/or replacement work.
  - 10.8.3 The detailed invoice (referred to herein Clause 10.3 (i)) must also include the Test Report confirming the operational assessment condition of the equipment post repair / maintenance / replacement and must also be accompanied by pre-invoice in the case of Submersible Pumps .
  - 10.8.4 The detailed invoice (referred to herein Clause 10.3 (i)) must also include Warrantee Certificates for every repair and replacement work.
  - 10.8.5 The detailed invoice (referred to herein Clause 10.3 (i)) must also include the signed Delivery Note as stipulated in Clause 10.1 (i).

### SPECIAL CONDITIONS

- 10.8.6 The detailed invoice (referred to herein Clause 10.3 (i)) must be accompanied by **All** replaced parts upon delivery of the equipment to the respective JW sites.
- Failure to do so shall result in the non-signing of the Delivery Note (i.e. the JW Representative will not endorse the work done by the service provider) and will result in non-payment of the service provider.
- 10.8.7 Equipment must be rendered of “good condition” in whole and not in parts.
- 10.8.8 The comprehensive job card (referred to herein in Clause 10.3 (i)) must include the equipment’s serial number, equipment type, make and size of equipment.
- 10.9 In an Emergency, work will be authorised by email or a letter instructing the service provider to undertake specified work and Overtime rates will be effected.
- The email or letter must be written by either the respective JW Regional Maintenance Manager or Electromechanical Manager.
- 10.10 For any additional work (not covered under the contract) that might be required on the equipment at the time of repairs/maintenance, the contractor shall only commence written approval by the relevant JW Senior Manager or his delegated Representative in the specific JW site.
- This approval will be done through a **written letter**.
- 10.11 All equipment repaired by the contractor, must be pre-filled with oil and greased by the Contractor prior to delivering the equipment to JW. Only oil and grease that is recommended by the relevant equipment manufacturer may be used. The authorised JW representative will confirm that this has been done by signing the equipment collection and delivery form.
- 10.12 For supply, delivery and offloading of new electric motors, the contractor must supply JW with a quotation within three (3) days of receipt of an official request for service.
- 10.13 Contractor must supply a new motor as per this contract which is compatible with the existing motor or submersible pump being replaced. The new supplied motor or submersible pump must not in any way require JW to make any modifications on existing systems.
- 10.14 Contractor will be expected to use their own facilities, vehicles and equipment to deliver and offload new electric motors or submersible pump being supplied.

**SPECIAL CONDITIONS**

**WARRANTY:**

- 11.1 The provisions of this contract shall be subject to the warranties that apply to new parts supplied by the contractor for repairs of the electric motors for the duration of the contract.
- Therefore if the rectification of a defect in these assets or the replacement of a part is covered by warranty, such rectification/replacement shall be done at no cost to JW.
- 11.2 The warranty period referred herein Clause 11.1 above, will be for a period of twelve (12) months from the time that the equipment installed at the applicable JW site and is in use.
- 11.3 For the equipment that has a run hour meter, the warranty will be equivalent to operational hours as per run hour meter from the time of installation.
- 11.4 For new electric motors which are supplied by the contractor, the warranty will be as follows (1) 12 months from date of installation and (2) 18 months from date of supply or whichever comes first.

**QUANTITIES:**

- 12.1 No quantities are given due to the nature of this contract.
- It is the tenderer's responsibility to conduct a thorough assessment to understand the condition and age of the equipment to be repaired or maintained.
- Also, the tenderer is encouraged to familiarise themselves with all JW sites (wastewater treatment works, pump stations, etc.) and the distances to be travelled when collecting and delivering equipment as well as when conducting site work.

**VALIDITY OF  
TENDER:**

- 13.1 The Tender shall be valid for a period of ninety (90) days from the date of closing of Tenders.

**ADJUDICATION OF  
TENDERS:**

- 14.1 The highest, lowest or any tender will not necessarily be accepted by JW. JW reserves the right to adjudicate the Tender to its best interest and will not necessarily award the tender in whole or in part and to more than one tenderer.
- 14.2 JW will inspect the premises of the tenderers for the purpose of adjudication.

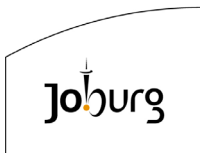
**COMPLETENESS:**

- 15.1 Failure to complete forms required for this tender will render the tender liable to rejection on the grounds of being incomplete.

**PAYMENT:**

- 16.1 The method and conditions of payment to be made to the service provider(s) under this contract shall be in accordance to JW's conditions of payment.

The attention of the service provider is brought to the following additional requirements:

**SPECIAL CONDITIONS**

16.1.1 The service provider is required to submit a comprehensive job card and detailed invoice as prescribed under Clause 10.3 and all its requirements. Failure to provide these documents will result in non-payment of the invoices.

16.1.2 Invoices must be submitted within 7 days from the date of delivery of the repaired equipment to JW 7 days from delivery of new motor to JW as per this contract.

16.1.3 The service provider shall submit the invoice for work done to the relevant JW site and representative for which services were rendered for.

Payment will be based on the invoices subject to any adjustment by the Regional Maintenance Manager or authorised JW Representative in respect of errors, downtime, penalties or any other claim that 'JW' may have in respect of this contract.

16.1.4 Payment will be made within approximately thirty (30) days from the date of the statement.

16.1.5 Invoices for payment must be submitted under the contractor's name.

**INSPECTIONS:**

17.1 The Regional Maintenance Manager, the relevant Works Manager or any official of JW on their behalf may at any time by appointment with the contractor inspect the material and workmanship relating to maintenance work performed by the contractor.

**REPLACEMENT PARTS:**

18.1 All spare parts used for repairs, must be parts approved by the original equipment manufacturer or SANS approved.

18.2 All spare parts used for repairs, must not be of inferior quality. Where they be found to be defective prior to the prescribed

Warranty period (herein referred to in clause 11.1), clause 11.2 will be applied.

18.3 All new motors supplied must be SABS compliant.

**RESPONSE TIMES:**

19.1 The contractor's response times for collection of equipment for normal repairs will be 24 hours and for emergency repairs will be 4 hours, from the time of receiving the request from JW.

**TURNAROUND TIME:**

20.1 The turnaround time for repairing equipment shall be 24 hours (for emergencies) and 3 days (for normal repairs). Where the replacement parts are found to be defective prior to the prescribed warranty period (herein referred to in clause 11.1), clause 11.2 will be applied.

20.2 Supply, delivery and offloading of new electric motor as per JW request must be completed by the contractor within two (2) weeks of receipt of an

### SPECIAL CONDITIONS

official Purchase Order by JW. This sub-clause shall not apply to motors which require special orders such as some of Ex-rated motors.

#### **PENALTIES:**

21.1 Instead of exercising its rights in terms of Clause 23 of the General Conditions of Contract, the relevant Manager may, at his discretion impose the following penalties:

21.1.1 If the service provider fails to meet the 4 hours (for emergencies) and to 24 hours (for normal work) response times from the official time of order, the service provider will incur penalties amounting to 10% (ten percent) of their total invoice for that specific job.

This 10% penalty will be charged per day of delay in returning the repaired equipment to JW up to a maximum of 5 days.

21.1.2 If the Service provider fails to meet the 24 hours (for emergencies) to 3 days (for normal work) turnaround times from the official time of order, the service provider will incur penalties amounting to 15% (fifteen percent) of their total invoice for that specific job.

This 15% penalty will be charged per day of delay in returning the repaired equipment to JW up to a maximum of 5 days.

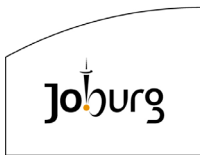
21.1.3 In all cases where there are delays in completing the job (normal jobs or emergency jobs), the Service provider must supply written explanations prior to the job deadline, indicating the cause thereof.

If in the opinion of the Regional Maintenance Manager, Senior Manager or Authorised JW representative the delay was unavoidable, no penalties will be deducted in effecting payment for that invoice and the deadline will be extended as per agreement with the Regional Maintenance Manager, Senior Manager or Authorised JW representative.

21.1.4 Where, in the opinion of the relevant Regional Maintenance Manager, Divisional Manager or Authorised JW representative any delays could reasonably have been avoided, the penalties shall be exercised as stipulated above on clauses 21.1.1 and 21.1.2.

21.1.5 Penalties above shall also apply to supply of new electric motors with exception of references to emergencies

21.2 If a contractor has repeatedly defaulted (more than 3 occasions within a space of 1 year) and the level of service has a history of being consistently poor, the Divisional Manager may reduce the quantities of jobs issued to this contractor, and request that another contractor from the tendered list provide the service.



**SPECIAL CONDITIONS**

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Alternatively, JW may also terminate the services of the Contractor for poor performance.

**FURTHER  
INFORMATION:**

- 22.1 Should the tenderer have any queries regarding the technical aspects of this tender; he/she can contact the following person:

**Nosipho Mokoena**

**Email:** [nosipho.mokoena@jwater.co.za](mailto:nosipho.mokoena@jwater.co.za)

**Tell:** (011) 688 1585, during working hours between 07:30am and 04:00pm within the first two week of the tender advert.

**NOTICE:**

- 23.1 Any NOTICE or communication required or permitted to be given in terms of this agreement shall be valid and effective only if in writing and may be given in one or more of the following manners:-

23.1.1 Sent by prepaid registered post (by airmail if appropriate) in an envelope correctly addressed to it at an address chosen as its domicilium citandi et executandi to which post it is delivered, in which event such notice shall be deemed to have been received on the 7th (seventh) business day after posting (unless the contrary is proved);  
or

23.1.2 Delivered by hand to a responsible person during ordinary business hours at the physical address chosen as its domicilium citandi et executandi, in which event such notice shall be deemed to have been received on the day of delivery; or

23.1.3 Sent by telefax to its chosen telefax number, in which event such notice shall be deemed to have been received on the date of dispatch (unless the contrary is proved).

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## Tender Form and Price Schedules

To: Johannesburg Water (SOC) Ltd.

Having examined the Tender documents including Addenda Nos \_\_\_\_\_ [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer **JW OPS 036/20R: Supply, Delivery, Offloading, Strip, Quote and Repairs Electric Motors & Submersible Pumps for a period of 36 months** as specified in conformity with the said Tender documents and as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Tender.

### **Details of my / our offer are / are as follows:**

We undertake, if our Tender is accepted, execute the contract in accordance with the requirements as specified.

We agree to abide by this Tender for a period of ninety (90) days from the date fixed for Tender opening, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Tender, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that Johannesburg Water is not bound to accept the lowest or any tender it may receive, and that the contract may be awarded in whole or in part and to more than one tenderer.

Should my/our tender be successful, it be understood that a contract will come into existence for a period of 36 months which will commence from the date indicated in the letter of acceptance.

### **SCHEDULE OF PRICES**

**NB: The evaluation on price alteration will be conducted as follows:**

**Where the tender award strategy is to evaluate and award per item or category, the following must apply:**

- (i) If there is an alteration on the rate but no alteration on the total for the item or category, the bidder will not be disqualified
- (ii) If there is an alteration on the total for the item/s without authentication, bidders will only be disqualified for alteration per item or category.

**Where the tender award strategy is to evaluate and award total bid offer, the following must apply:**

- (i) If there is an alteration on the rate, total for the line item, sub-total/ sum brought/carried forward for the section but no alteration on the total bid offer, the bidder will not be disqualified.
- (ii) If there is an alteration on the total bid offer on form of offer then the amount in words must be considered or vice-versa.
- (iii) If there is an alteration on the total bid offer and the amount in words without authentication, the bidders will be disqualified for the entire tender.



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**ANY COMPLETION OF THE TENDER DOCUMENT IN PENCIL, ERASABLE INK OR OVERTYPING WILL NOT BE ACCEPTED AND WILL DISQUALIFY THE TENDER**

**Tender documents may be completed electronically without altering or tampering with any of the terms, conditions, specifications etc. in the tender documents. Bids that are received contrary to this requirement will be disqualified.**

**I/We, the undersigned hereby acknowledge myself/ourselves fully conversant with the details and conditions of the Contract and hereby agree to the JW OPS 036/20R: Supply, Delivery, Offloading, Strip, Quote and Repairs Electric Motors & Submersible Pumps for a period of 36 months as described in accordance therewith :-**

**Also note:**

1. All rates offered on the pricing schedule must be **Exclusive of VAT**.
2. The tender rates for Section 1A and 1B of the Pricing Schedule shall include the full cost for the supply of all labour cost, overheads and any other items which the Tender deems fit for the **supply, delivery and offloading** of electric motors and submersible pumps.
3. The tender rates for Section 2 & 3 of the Pricing Schedule shall include the full cost for the supply of all labour cost, tools, consumable, equipment, logistic costs required to obtain spare parts required for use in this contract and any other item the Contractor deems fit for the executing of the repair activity.
4. Extra for repair works carried out in an emergency is a sum and will only be charged once per electric motor and submersible pumps. Further, the allowable percentage for this item shall not exceed 10% of the overall total per category.
5. The transport rate shall be measured as a distance from a contractually agreed contractor's premises (up to a maximum of 200km return) to the respective Johannesburg Water site. When collecting or delivery of the equipment to be repairs the Contractor shall only is permitted to charge a maximum of 100km for collection and 100km for delivery. Transport to collect equipment from JW and delivering equipment to JW (upon completion for repairs), will be paid as per the applicable AA rates at the time of travelling.
6. The percentage for mark-up on spares is inclusive of all logistic costs required to obtain the spare parts required for use in this contract shall be 10% for year 1, 12.5% for year 2 and 15% for year 3.

**PRICING SCHEDULE**  
**SECTION 1A- SUPPLY, DELIVERY AND OFFLOADING OF ELECTRIC MOTORS**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.1	REPLACE MOTOR – 3 Phase						
1.1.1	SUPPLY AND DELIVERY OF REPLACEMENT MOTOR UP TO AND INCLUDING 3kW (IE3)						
1.1.1.1	0.18kW	No.	1	R	R	R	R
1.1.1.2	0.25kW	No.	1	R	R	R	R
1.1.1.3	0.37kW	No.	1	R	R	R	R
1.1.1.4	0.55kW	No.	1	R	R	R	R
1.1.1.5	0.75kW	No.	1	R	R	R	R
1.1.1.6	1.1kW	No.	1	R	R	R	R
1.1.1.7	1.5kW	No.	1	R	R	R	R
1.1.1.8	2.2kW	No.	1	R	R	R	R
1.1.1.9	3kW	No.	1	R	R	R	R
Sub-Total							R

**NB: Motor must be equipped with thermistors and anti-condensation heaters**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.2	REPLACE EXPLOSIVE-PROTECTED MOTOR – 3 Phase						
1.2.1	SUPPLY AND DELIVERY OF REPLACEMENT MOTOR UP TO AND INCLUDING 22kW-(Ex d IIC T4 Gb or better protection) -Flameproof						
1.2.1.1	0.18kW	No.	1	R	R	R	R
1.2.1.2	0.25kW	No.	1	R	R	R	R
1.2.1.3	0.37kW	No.	1	R	R	R	R
1.2.1.4	0.55kW	No.	1	R	R	R	R
1.2.1.5	0.75kW	No.	1	R	R	R	R
1.2.1.6	1.1kW	No.	1	R	R	R	R
1.2.1.7	1.5kW	No.	1	R	R	R	R
1.2.1.8	2.2kW	No.	1	R	R	R	R
1.2.1.9	3kW	No.	1	R	R	R	R
1.2.1.10	4kW	No.	1	R	R	R	R
1.2.1.11	5.5kW	No.	1	R	R	R	R
1.2.1.12	7.5kW	No.	1	R	R	R	R
1.2.1.13	11kW	No.	1	R	R	R	R
1.2.1.14	15kW	No.	1	R	R	R	R
1.2.2.15	18.5kW	No.	1	R	R	R	R
1.2.1.16	22kW	No.	1	R	R	R	R
Sub-Total							R

**NB: Motor must be equipped with thermistors and anti-condensation heaters**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.2.2	SUPPLY AND DELIVERY OF REPLACEMENT MOTOR UPTO AND INCLUDING 22kW (Ex nAc IIC T5 or better protection) – non-sparking						
1.2.2.1	0.18kW	No.	1	R	R	R	R
1.2.2.2	0.25kW	No.	1	R	R	R	R
1.2.2.3	0.37kW	No.	1	R	R	R	R
1.2.2.4	0.55kW	No.	1	R	R	R	R
1.2.2.5	0.75kW	No.	1	R	R	R	R
1.2.2.6	1.1kW	No.	1	R	R	R	R
1.2.2.7	1.5kW	No.	1	R	R	R	R
1.2.2.8	2.2kW	No.	1	R	R	R	R
1.2.2.9	3kW	No.	1	R	R	R	R
1.2.2.10	4kW	No.	1	R	R	R	R
1.2.2.11	5.5kW	No.	1	R	R	R	R
1.2.2.12	7.5kW	No.	1	R	R	R	R
1.2.2.13	11kW	No.	1	R	R	R	R
1.2.2.14	15kW	No.	1	R	R	R	R
1.2.2.15	18.5kW	No.	1	R	R	R	R
1.2.2.16	22kW	No.	1	R	R	R	R
Sub-Total							R

**NB: Motor must be equipped with thermistors and anti-condensation heaters**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.2.3	SUPPLY AND DELIVERY OF REPLACEMENT MOTOR UPTO AND INCLUDING 22kW (Ex eb IIC T5 Gb or better protection) –increased safety						
1.2.3.1	0.18kW	No.	1	R	R	R	R
1.2.3.2	0.25kW	No.	1	R	R	R	R
1.2.3.3	0.37kW	No.	1	R	R	R	R
1.2.3.4	0.55kW	No.	1	R	R	R	R
1.2.3.5	0.75kW	No.	1	R	R	R	R
1.2.3.6	1.1kW	No.	1	R	R	R	R
1.2.3.7	1.5kW	No.	1	R	R	R	R
1.2.3.8	2.2kW	No.	1	R	R	R	R
1.2.3.9	3kW	No.	1	R	R	R	R
1.2.3.10	4kW	No.	1	R	R	R	R
1.2.3.11	5.5kW	No.	1	R	R	R	R
1.2.3.12	7.5kW	No.	1	R	R	R	R
1.2.3.13	11kW	No.	1	R	R	R	R
1.2.3.14	15kW	No.	1	R	R	R	R
1.2.3.15	18.5kW	No.	1	R	R	R	R
1.2.3.16	22kW	No.	1	R	R	R	R
Sub-Total							R

**NB: Motor must be equipped with thermistors and anti-condensation heaters**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.2.4	SUPPLY AND DELIVERY OF REPLACEMENT MOTOR UPTO AND INCLUDING 22kW (Ex ec IIC T5 Gb or better protection) –increased safety						
1.2.4.1	0.18kW	No.	1	R	R	R	R
1.2.4.2	0.25kW	No.	1	R	R	R	R
1.2.4.3	0.37kW	No.	1	R	R	R	R
1.2.4.4	0.55kW	No.	1	R	R	R	R
1.2.4.5	0.75kW	No.	1	R	R	R	R
1.2.4.6	1.1kW	No.	1	R	R	R	R
1.2.4.7	1.5kW	No.	1	R	R	R	R
1.2.4.8	2.2kW	No.	1	R	R	R	R
1.2.4.9	3kW	No.	1	R	R	R	R
1.2.4.10	4kW	No.	1	R	R	R	R
1.2.4.11	5.5kW	No.	1	R	R	R	R
1.2.4.12	7.5kW	No.	1	R	R	R	R
1.2.4.13	11kW	No.	1	R	R	R	R
1.2.4.14	15kW	No.	1	R	R	R	R
1.2.4.15	18.5kW	No.	1	R	R	R	R
1.2.4.16	22kW	No.	1	R	R	R	R
Sub-Total							R

**NB: Motor must be equipped with thermistors and anti-condensation heaters**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.3	REPLACE MOTOR 3Phase						
1.3.1	SUPPLY AND DELIVERY OF REPLACEMENT MOTOR (IE3, flange or foot mount)						
1.3.1.1	4kW	No.	1	R	R	R	R
1.3.1.2	5.5kW	No.	1	R	R	R	R
1.3.1.3	7.5kW	No.	1	R	R	R	R
1.3.1.4	9.2kW	No.	1	R	R	R	R
1.3.1.5	11kW	No.	1	R	R	R	R
1.3.1.6	15kW	No.	1	R	R	R	R
1.3.1.7	18.5kW	No.	1	R	R	R	R
1.3.1.8	22kW	No.	1	R	R	R	R
1.3.1.9	30kW	No.	1	R	R	R	R
1.3.1.10	37kW	No.	1	R	R	R	R
1.3.1.11	45kW	No.	1	R	R	R	R
1.3.1.12	55kW	No.	1	R	R	R	R
1.3.1.13	75kW	No.	1	R	R	R	R
1.3.1.14	90kW	No.	1	R	R	R	R
1.3.1.15	110kW	No.	1	R	R	R	R
1.3.1.16	132kW	No.	1	R	R	R	R
1.3.1.17	160kW	No.	1	R	R	R	R
1.3.1.18	185kW	No.	1	R	R	R	R
1.3.1.20	200kW	No.	1	R	R	R	R
1.3.1.21	220kW	No.	1	R	R	R	R
1.3.1.22	282kW	No.	1	R	R	R	R
1.3.1.23	500kW	No.	1	R	R	R	R
Sub-Total							R

**NB: Motor must be equipped with thermistors and anti-condensation heaters**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.4	REPLACE MOTOR DIRECT CURRENT (DC)						
1.4.1	SUPPLY AND DELIVERY OF REPLACEMENT MOTOR (, flange or foot mount)						
1.4.1.1	282kW	No.	1	R	R	R	R
Sub-Total							R

**NB: Where applicable, motor must be equipped with thermistors and anti-condensation heaters**

#### **SECTION 1B- SUPPLY, DELIVERY AND OFFLOADING OF SUBMERSIBLE PUMP**

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.5	REPLACE SUBMERSIBLE PUMP – 3 Phase						
1.5.1	SUPPLY AND DELIVERY OF REPLACEMENT SUBMERSIBLE PUMP UPTO AND INCLUDING 1.1kW(SEWAGE AND SOLIDS)						
1.5.2	0.25kW	No.	1	R	R	R	R
1.5.3	0.75kW	No.	1	R	R	R	
1.5.4	1.1kW	No.	1	R	R	R	
Sub-Total							R

Item	Description	Unit	QTY	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
1.6	REPLACE SUBMERSIBLE PUMP – 1 Phase						
1.6.1	SUPPLY AND DELIVERY OF REPLACEMENT SUBMERSIBLE PUMP UPTO AND INCLUDING 1.1kW (SEWAGE AND SOLIDS)						
1.6.2	0.25kW	No.	1	R	R	R	R
1.6.3	0.75kW	No.	1	R	R	R	
1.6.4	1.1kW	No.	1	R	R	R	
Sub-Total							R



## SECTION 2 – STRIP, QUOTE AND REPAIR OF ELECTRIC MOTORS

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.1	For Motor size from 3 – 5kW (3kW, 4kW)						
2.1.1	Strip and Re-assemble	No.	1	R	R	R	R
2.1.2	Clean	No.	1	R	R	R	R
2.1.3	Bake	No.	1	R	R	R	R
2.1.4	Rewind	No.	1	R	R	R	R
2.1.5	Replace Bearings	No.	1	R	R	R	R
2.1.6	Replace Fan	No.	1	R	R	R	R
2.1.7	Replace Fan Cover	No.	1	R	R	R	R
2.1.8	Balance rotor	No.	1	R	R	R	R
2.1.9	Balance fan	No.	1	R	R	R	R
2.1.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.1.11	Repair of End Shield	No.	1	R	R	R	R
2.1.12	Replace Shaft	No.	1	R	R	R	R
2.1.13	Repair Shaft keyway	No.	1	R	R	R	R
2.1.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.1.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.1.16	Fasteners	No.	1	R	R	R	R
2.1.17	Replace V-Rings	No.	1	R	R	R	R
2.1.18	Replace O-Rings	No.	1	R	R	R	R
2.1.19	Replace Couplings	No	1	R	R	R	R
2.1.20	Replace thermistors	Sum	1	R	R	R	R
2.1.21	Replace heaters	Sum	1	R	R	R	R
2.1.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.2	For Motor size between 5.1 – 10kW (5.5kW, 7.5kW, 9.2kW)						
2.2.1	Strip and Re-assemble	No.	1	R	R	R	R
2.2.2	Clean	No.	1	R	R	R	R
2.2.3	Bake	No.	1	R	R	R	R
2.2.4	Rewind	No.	1	R	R	R	R
2.2.5	Replace Bearings	No.	1	R	R	R	R
2.2.6	Replace Fan	No.	1	R	R	R	R
2.2.7	Replace Fan Cover	No.	1	R	R	R	R
2.2.8	Balance rotor	No.	1	R	R	R	R
2.2.9	Balance fan	No.	1	R	R	R	R
2.2.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.2.11	Repair of End Shield	No.	1	R	R	R	R
2.2.12	Replace Shaft	No.	1	R	R	R	R
2.2.13	Repair Shaft keyway	No.	1	R	R	R	R
2.2.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.2.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.2.16	Fasteners	No.	1	R	R	R	R
2.2.17	Replace V-Rings	No.	1	R	R	R	R
2.2.18	Replace O-Rings	No.	1	R	R	R	R
2.2.19	Replace Couplings	No	1	R	R	R	R
2.2.20	Replace thermistors	Sum	1	R	R	R	R
2.2.21	Replace heaters	Sum	1	R	R	R	R
2.2.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.3	For Motor size between 11 – 15kW (11kW, 15 kW)						
2.3.1	Strip and Re-assemble	No.	1	R	R	R	R
2.3.2	Clean	No.	1	R	R	R	R
2.3.3	Bake	No.	1	R	R	R	R
2.3.4	Rewind	No.	1	R	R	R	R
2.3.5	Replace Bearings	No.	1	R	R	R	R
2.3.6	Replace Fan	No.	1	R	R	R	R
2.3.7	Replace Fan Cover	No.	1	R	R	R	R
2.3.8	Balance rotor	No.	1	R	R	R	R
2.3.9	Balance fan	No.	1	R	R	R	R
2.3.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.3.11	Repair of End Shield	No.	1	R	R	R	R
2.3.12	Replace Shaft	No.	1	R	R	R	R
2.3.13	Repair Shaft keyway	No.	1	R	R	R	R
2.3.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.3.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.3.16	Fasteners	No.	1	R	R	R	R
2.3.17	Replace V-Rings	No.	1	R	R	R	R
2.3.18	Replace O-Rings	No.	1	R	R	R	R
2.3.19	Replace Couplings	No	1	R	R	R	R
2.3.20	Replace thermistors	Sum	1	R	R	R	R
2.3.21	Replace heaters	Sum	1	R	R	R	R
2.3.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates Per Item
				Rate	Rate	Rate	
2.4	For Motor size between 15 – 20kW (18.5kW)						
2.4.1	Strip and Re-assemble	No.	1	R	R	R	R
2.4.2	Clean	No.	1	R	R	R	R
2.4.3	Bake	No.	1	R	R	R	R
2.4.4	Rewind	No.	1	R	R	R	R
2.4.5	Replace Bearings	No.	1	R	R	R	R
2.4.6	Replace Fan	No.	1	R	R	R	R
2.4.7	Replace Fan Cover	No.	1	R	R	R	R
2.4.8	Balance rotor	No.	1	R	R	R	R
2.4.9	Balance fan	No.	1	R	R	R	R
2.4.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.4.11	Repair of End Shield	No.	1	R	R	R	R
2.4.12	Replace Shaft	No.	1	R	R	R	R
2.4.13	Repair Shaft keyway	No.	1	R	R	R	R
2.4.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.4.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.4.16	Fasteners	No.	1	R	R	R	R
2.4.17	Replace V-Rings	No.	1	R	R	R	R
2.4.18	Replace O-Rings	No.	1	R	R	R	R
2.4.19	Replace Couplings	No	1	R	R	R	R
2.4.20	Replace thermistors	Sum	1	R	R	R	R
2.4.21	Replace heaters	Sum	1	R	R	R	R
2.4.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.5	For Motor size between 21 – 25kW (22kW)						
2.5.1	Strip and Re-assemble	No.	1	R	R	R	R
2.5.2	Clean	No.	1	R	R	R	R
2.5.3	Bake	No.	1	R	R	R	R
2.5.4	Rewind	No.	1	R	R	R	R
2.5.5	Replace Bearings	No.	1	R	R	R	R
2.5.6	Replace Fan	No.	1	R	R	R	R
2.5.7	Replace Fan Cover	No.	1	R	R	R	R
2.5.8	Balance rotor	No.	1	R	R	R	R
2.5.9	Balance fan	No.	1	R	R	R	R
2.5.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.5.11	Repair of End Shield	No.	1	R	R	R	R
2.5.12	Replace Shaft	No.	1	R	R	R	R
2.5.13	Repair Shaft keyway	No.	1	R	R	R	R
2.5.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.5.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.5.16	Fasteners	No.	1	R	R	R	R
2.5.17	Replace V-Rings	No.	1	R	R	R	R
2.5.18	Replace O-Rings	No.	1	R	R	R	R
2.5.19	Replace Couplings	No	1	R	R	R	R
2.5.20	Replace thermistors	Sum	1	R	R	R	R
2.5.21	Replace heaters	Sum	1	R	R	R	R
2.5.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.6	For Motor size between 26 – 30kW (30kW)						
2.6.1	Strip and Re-assemble	No.	1	R	R	R	R
2.6.2	Clean	No.	1	R	R	R	R
2.6.3	Bake	No.	1	R	R	R	R
2.6.4	Rewind	No.	1	R	R	R	R
2.6.5	Replace Bearings	No.	1	R	R	R	R
2.6.6	Replace Fan	No.	1	R	R	R	R
2.6.7	Replace Fan Cover	No.	1	R	R	R	R
2.6.8	Balance rotor	No.	1	R	R	R	R
2.6.9	Balance fan	No.	1	R	R	R	R
2.6.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.6.11	Repair of End Shield	No.	1	R	R	R	R
2.6.12	Replace Shaft	No.	1	R	R	R	R
2.6.13	Repair Shaft keyway	No.	1	R	R	R	R
2.6.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.6.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.6.16	Fasteners	No.	1	R	R	R	R
2.6.17	Replace V-Rings	No.	1	R	R	R	R
2.6.18	Replace O-Rings	No.	1	R	R	R	R
2.6.19	Replace Couplings	No.	1	R	R	R	R
2.6.20	Replace thermistors	Sum	1	R	R	R	R
2.6.21	Replace heaters	Sum	1	R	R	R	R
2.6.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.7	For Motor size 37kW						
2.7.1	Strip and Re-assemble	No.	1	R	R	R	R
2.7.2	Clean	No.	1	R	R	R	R
2.7.3	Bake	No.	1	R	R	R	R
2.7.4	Rewind	No.	1	R	R	R	R
2.7.5	Replace Bearings	No.	1	R	R	R	R
2.7.6	Replace Fan	No.	1	R	R	R	R
2.7.7	Replace Fan Cover	No.	1	R	R	R	R
2.7.8	Balance rotor	No.	1	R	R	R	R
2.7.9	Balance fan	No.	1	R	R	R	R
2.7.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.7.11	Repair of End Shield	No.	1	R	R	R	R
2.7.12	Replace Shaft	No.	1	R	R	R	R
2.7.13	Repair Shaft keyway	No.	1	R	R	R	R
2.7.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.7.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.7.16	Fasteners	No.	1	R	R	R	R
2.7.17	Replace V-Rings	No.	1	R	R	R	R
2.7.18	Replace O-Rings	No.	1	R	R	R	R
2.7.19	Replace Couplings	No.	1	R	R	R	R
2.7.20	Replace thermistors	Sum	1	R	R	R	R
2.7.21	Replace heaters	Sum	1	R	R	R	R
2.7.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.8	For Motor size 45kW						
2.8.1	Strip and Re-assemble	No.	1	R	R	R	R
2.8.2	Clean	No.	1	R	R	R	R
2.8.3	Bake	No.	1	R	R	R	R
2.8.4	Rewind	No.	1	R	R	R	R
2.8.5	Replace Bearings	No.	1	R	R	R	R
2.8.6	Replace Fan	No.	1	R	R	R	R
2.8.7	Replace Fan Cover	No.	1	R	R	R	R
2.8.8	Balance rotor	No.	1	R	R	R	R
2.8.9	Balance fan	No.	1	R	R	R	R
2.8.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.8.11	Repair of End Shield	No.	1	R	R	R	R
2.8.12	Replace Shaft	No.	1	R	R	R	R
2.8.13	Repair Shaft keyway	No.	1	R	R	R	R
2.8.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.8.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.8.16	Fasteners	No.	1	R	R	R	R
2.8.17	Replace V-Rings	No.	1	R	R	R	R
2.8.18	Replace O-Rings	No.	1	R	R	R	R
2.8.19	Replace Couplings	No	1	R	R	R	R
2.8.20	Replace thermistors	Sum	1	R	R	R	R
2.8.21	Replace heaters	Sum	1	R	R	R	R
2.8.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R



Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.9	For Motor size 55kW						
2.9.1	Strip and Re-assemble	No.	1	R	R	R	R
2.9.2	Clean	No.	1	R	R	R	R
2.9.3	Bake	No.	1	R	R	R	R
2.9.4	Rewind	No.	1	R	R	R	R
2.9.5	Replace Bearings	No.	1	R	R	R	R
2.9.6	Replace Fan	No.	1	R	R	R	R
2.9.7	Replace Fan Cover	No.	1	R	R	R	R
2.9.8	Balance rotor	No.	1	R	R	R	R
2.9.9	Balance fan	No.	1	R	R	R	R
2.9.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.9.11	Repair of End Shield	No.	1	R	R	R	R
2.9.12	Replace Shaft	No.	1	R	R	R	R
2.9.13	Repair Shaft keyway	No.	1	R	R	R	R
2.9.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.9.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.9.16	Fasteners	No.	1	R	R	R	R
2.9.17	Replace V-Rings	No.	1	R	R	R	R
2.9.18	Replace O-Rings	No.	1	R	R	R	R
2.9.19	Replace Couplings	No.	1	R	R	R	R
2.9.20	Replace thermistors	Sum	1	R	R	R	R
2.9.21	Replace heaters	Sum	1	R	R	R	R
2.9.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.10	For Motor size 75kW						
2.10.1	Strip and Re-assemble	No.	1	R	R	R	R
2.10.2	Clean	No.	1	R	R	R	R
2.10.3	Bake	No.	1	R	R	R	R
2.10.4	Rewind	No.	1	R	R	R	R
2.10.5	Replace Bearings	No.	1	R	R	R	R
2.10.6	Replace Fan	No.	1	R	R	R	R
2.10.7	Replace Fan Cover	No.	1	R	R	R	R
2.10.8	Balance rotor	No.	1	R	R	R	R
2.10.9	Balance fan	No.	1	R	R	R	R
2.10.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.10.11	Repair of End Shield	No.	1	R	R	R	R
2.10.12	Replace Shaft	No.	1	R	R	R	R
2.10.13	Repair Shaft keyway	No.	1	R	R	R	R
2.10.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.10.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.10.16	Fasteners	No.	1	R	R	R	R
2.10.17	Replace V-Rings	No.	1	R	R	R	R
2.10.18	Replace O-Rings	No.	1	R	R	R	R
2.10.19	Replace Couplings	No.	1	R	R	R	R
2.10.20	Replace thermistors	Sum	1	R	R	R	R
2.10.21	Replace heaters	Sum	1	R	R	R	R
2.10.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.11	For Motor size 90kW						
2.11.1	Strip and Re-assemble	No.	1	R	R	R	R
2.11.2	Clean	No.	1	R	R	R	R
2.11.3	Bake	No.	1	R	R	R	R
2.11.4	Rewind	No.	1	R	R	R	R
2.11.5	Replace Bearings	No.	1	R	R	R	R
2.11.6	Replace Fan	No.	1	R	R	R	R
2.11.7	Replace Fan Cover	No.	1	R	R	R	R
2.11.8	Balance rotor	No.	1	R	R	R	R
2.11.9	Balance fan	No.	1	R	R	R	R
2.11.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.11.11	Repair of End Shield	No.	1	R	R	R	R
2.11.12	Replace Shaft	No.	1	R	R	R	R
2.11.13	Repair Shaft keyway	No.	1	R	R	R	R
2.11.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.11.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.11.16	Fasteners	No.	1	R	R	R	R
2.11.17	Replace V-Rings	No.	1	R	R	R	R
2.11.18	Replace O-Rings	No.	1	R	R	R	R
2.11.19	Replace Couplings	No.	1	R	R	R	R
2.11.20	Replace thermistors	Sum	1	R	R	R	R
2.11.21	Replace heaters	Sum	1	R	R	R	R
2.11.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.12	For Motor size 93kW						
2.12.1	Strip and Re-assemble	No.	1	R	R	R	R
2.12.2	Clean	No.	1	R	R	R	R
2.12.3	Bake	No.	1	R	R	R	R
2.12.4	Rewind	No.	1	R	R	R	R
2.12.5	Replace Bearings	No.	1	R	R	R	R
2.12.6	Replace Fan	No.	1	R	R	R	R
2.12.7	Replace Fan Cover	No.	1	R	R	R	R
2.12.8	Balance rotor	No.	1	R	R	R	R
2.12.9	Balance fan	No.	1	R	R	R	R
2.12.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.12.11	Repair of End Shield	No.	1	R	R	R	R
2.12.12	Replace Shaft	No.	1	R	R	R	R
2.12.13	Repair Shaft keyway	No.	1	R	R	R	R
2.12.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.12.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.12.16	Fasteners	No.	1	R	R	R	R
2.12.17	Replace V-Rings	No.	1	R	R	R	R
2.12.18	Replace O-Rings	No.	1	R	R	R	R
2.12.19	Replace Couplings	No.	1	R	R	R	R
2.12.20	Replace thermistors	Sum	1	R	R	R	R
2.12.21	Replace heaters	Sum	1	R	R	R	R
2.12.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total for Y1, Y2 & Y3 Rates per Item
				Rate	Rate	Rate	
2.13	For Motor size 110kW						
2.13.1	Strip and Re-assemble	No.	1	R	R	R	R
2.13.2	Clean	No.	1	R	R	R	R
2.13.3	Bake	No.	1	R	R	R	R
2.13.4	Rewind	No.	1	R	R	R	R
2.13.5	Replace Bearings	No.	1	R	R	R	R
2.13.6	Replace Fan	No.	1	R	R	R	R
2.13.7	Replace Fan Cover	No.	1	R	R	R	R
2.13.8	Balance rotor	No.	1	R	R	R	R
2.13.9	Balance fan	No.	1	R	R	R	R
2.13.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.13.11	Repair of End Shield	No.	1	R	R	R	R
2.13.12	Replace Shaft	No.	1	R	R	R	R
2.13.13	Repair Shaft keyway	No.	1	R	R	R	R
2.13.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.13.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.13.16	Fasteners	No.	1	R	R	R	R
2.13.17	Replace V-Rings	No.	1	R	R	R	R
2.13.18	Replace O-Rings	No.	1	R	R	R	R
2.13.19	Replace Couplings	No.	1	R	R	R	R
2.13.20	Replace thermistors	Sum	1	R	R	R	R
2.13.21	Replace heaters	Sum	1	R	R	R	R
2.13.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.14	For Motor size 132kW						
2.14.1	Strip and Re-assemble	No.	1	R	R	R	R
2.14.2	Clean	No.	1	R	R	R	R
2.14.3	Bake	No.	1	R	R	R	R
2.14.4	Rewind	No.	1	R	R	R	R
2.14.5	Replace Bearings	No.	1	R	R	R	R
2.14.6	Replace Fan	No.	1	R	R	R	R
2.14.7	Replace Fan Cover	No.	1	R	R	R	R
2.14.8	Balance rotor	No.	1	R	R	R	R
2.14.9	Balance fan	No.	1	R	R	R	R
2.14.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.14.11	Repair of End Shield	No.	1	R	R	R	R
2.14.12	Replace Shaft	No.	1	R	R	R	R
2.14.13	Repair Shaft keyway	No.	1	R	R	R	R
2.14.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.14.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.14.16	Fasteners	No.	1	R	R	R	R
2.14.17	Replace V-Rings	No.	1	R	R	R	R
2.14.18	Replace O-Rings	No.	1	R	R	R	R
2.14.19	Replace Couplings	No.	1	R	R	R	R
2.14.20	Replace thermistors	Sum	1	R	R	R	R
2.14.21	Replace heaters	Sum	1	R	R	R	R
2.14.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.15	For Motor size 185kW						
2.15.1	Strip and Re-assemble	No.	1	R	R	R	R
2.15.2	Clean	No.	1	R	R	R	R
2.15.3	Bake	No.	1	R	R	R	R
2.15.4	Rewind	No.	1	R	R	R	R
2.15.5	Replace Bearings	No.	1	R	R	R	R
2.15.6	Replace Fan	No.	1	R	R	R	R
2.15.7	Replace Fan Cover	No.	1	R	R	R	R
2.15.8	Balance rotor	No.	1	R	R	R	R
2.15.9	Balance fan	No.	1	R	R	R	R
2.15.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.15.11	Repair of End Shield	No.	1	R	R	R	R
2.15.12	Replace Shaft	No.	1	R	R	R	R
2.15.13	Repair Shaft keyway	No.	1	R	R	R	R
2.15.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.15.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.15.16	Fasteners	No.	1	R	R	R	R
2.15.17	Replace V-Rings	No.	1	R	R	R	R
2.15.18	Replace O-Rings	No.	1	R	R	R	R
2.15.19	Replace Couplings	No.	1	R	R	R	R
2.15.20	Replace thermistors	Sum	1	R	R	R	R
2.15.21	Replace heaters	Sum	1	R	R	R	R
2.15.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.16	For Motor size 282kW						
2.16.1	Strip and Re-assemble	No.	1	R	R	R	R
2.16.2	Clean	No.	1	R	R	R	R
2.16.3	Bake	No.	1	R	R	R	R
2.16.4	Rewind	No.	1	R	R	R	R
2.16.5	Replace Bearings	No.	1	R	R	R	R
2.16.6	Replace Fan	No.	1	R	R	R	R
2.16.7	Replace Fan Cover	No.	1	R	R	R	R
2.16.8	Balance rotor	No.	1	R	R	R	R
2.16.9	Balance fan	No.	1	R	R	R	R
2.16.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.16.11	Repair of End Shield	No.	1	R	R	R	R
2.16.12	Replace Shaft	No.	1	R	R	R	R
2.16.13	Repair Shaft keyway	No.	1	R	R	R	R
2.16.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.16.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.16.16	Fasteners	No.	1	R	R	R	R
2.16.17	Replace V-Rings	No.	1	R	R	R	R
2.16.18	Replace O-Rings	No.	1	R	R	R	R
2.16.19	Replace Couplings	No.	1	R	R	R	R
2.16.20	Replace thermistors	Sum	1	R	R	R	R
2.16.21	Replace heaters	Sum	1	R	R	R	R
2.16.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R



Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.17	For Motor size 380kW						
2.17.1	Strip and Re-assemble	No.	1	R	R	R	R
2.17.2	Clean	No.	1	R	R	R	R
2.17.3	Bake	No.	1	R	R	R	R
2.17.4	Rewind	No.	1	R	R	R	R
2.17.5	Replace Bearings	No.	1	R	R	R	R
2.17.6	Replace Fan	No.	1	R	R	R	R
2.17.7	Replace Fan Cover	No.	1	R	R	R	R
2.17.8	Balance rotor	No.	1	R	R	R	R
2.17.9	Balance fan	No.	1	R	R	R	R
2.17.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.17.11	Repair of End Shield	No.	1	R	R	R	R
2.17.12	Replace Shaft	No.	1	R	R	R	R
2.17.13	Repair Shaft keyway	No.	1	R	R	R	R
2.17.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.17.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.17.16	Fasteners	No.	1	R	R	R	R
2.17.17	Replace V-Rings	No.	1	R	R	R	R
2.17.18	Replace O-Rings	No.	1	R	R	R	R
2.17.19	Replace Couplings	No.	1	R	R	R	R
2.17.20	Replace thermistors	Sum	1	R	R	R	R
2.17.21	Replace heaters	Sum	1	R	R	R	R
2.17.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.18	For Motor size 385kW						
2.18.1	Strip and Re-assemble	No.	1	R	R	R	R
2.18.2	Clean	No.	1	R	R	R	R
2.18.3	Bake	No.	1	R	R	R	R
2.18.4	Rewind	No.	1	R	R	R	R
2.18.5	Replace Bearings	No.	1	R	R	R	R
2.18.6	Replace Fan	No.	1	R	R	R	R
2.18.7	Replace Fan Cover	No.	1	R	R	R	R
2.18.8	Balance rotor	No.	1	R	R	R	R
2.18.9	Balance fan	No.	1	R	R	R	R
2.18.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.18.11	Repair of End Shield	No.	1	R	R	R	R
2.18.12	Replace Shaft	No.	1	R	R	R	R
2.18.13	Repair Shaft keyway	No.	1	R	R	R	R
2.18.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.18.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.18.16	Fasteners	No.	1	R	R	R	R
2.18.17	Replace V-Rings	No.	1	R	R	R	R
2.18.18	Replace O-Rings	No.	1	R	R	R	R
2.18.19	Replace Couplings	No.	1	R	R	R	R
2.18.20	Replace thermistors	Sum	1	R	R	R	R
2.18.21	Replace heaters	Sum	1	R	R	R	R
2.18.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.19	For Motor size 500kW						
2.19.1	Strip and Re-assemble	No.	1	R	R	R	R
2.19.2	Clean	No.	1	R	R	R	R
2.19.3	Bake	No.	1	R	R	R	R
2.19.4	Rewind	No.	1	R	R	R	R
2.19.5	Replace Bearings	No.	1	R	R	R	R
2.19.6	Replace Fan	No.	1	R	R	R	R
2.19.7	Replace Fan Cover	No.	1	R	R	R	R
2.19.8	Balance rotor	No.	1	R	R	R	R
2.19.9	Balance fan	No.	1	R	R	R	R
2.19.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.19.11	Repair of End Shield	No.	1	R	R	R	R
2.19.12	Replace Shaft	No.	1	R	R	R	R
2.19.13	Repair Shaft keyway	No.	1	R	R	R	R
2.19.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.19.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.19.16	Fasteners	No.	1	R	R	R	R
2.19.17	Replace V-Rings	No.	1	R	R	R	R
2.19.18	Replace O-Rings	No.	1	R	R	R	R
2.19.19	Replace Couplings	No.	1	R	R	R	R
2.19.20	Replace thermistors	Sum	1	R	R	R	R
2.19.21	Replace heaters	Sum	1	R	R	R	R
2.19.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.20	Repair geared motors-sizes 0 to 3kW (0.18kW, 0.25kW, 0.37kW, 0.75kW, 1.1kW, 1.5kW, 2.2kW)						
2.20.1	Strip and Re-assemble	No.	1	R	R	R1	R
2.20.2	Clean	No.	1	R	R	R	R
2.20.3	Bake	No.	1	R	R	R	R
2.20.4	Rewind	No.	1	R	R	R	R
2.20.5	Replace Bearings	No.	1	R	R	R	R
2.20.6	Replace Fan	No.	1	R	R	R	R
2.20.7	Replace Fan Cover	No.	1	R	R	R	R
2.20.8	Balance rotor	No.	1	R	R	R	R
2.20.9	Balance fan	No.	1	R	R	R	R
2.20.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.20.11	Repair of End Shield	No.	1	R	R	R	R
2.20.12	Replace Shaft	No.	1	R	R	R	R
2.20.13	Repair Shaft keyway	No.	1	R	R	R	R
2.20.14	Replace Terminal Box	No.	1	R	R	R	R
2.20.15	Replace Terminal Block	No.	1	R	R	R	R
2.20.16	Fasteners	No.	1	R	R	R	R
2.20.17	Replace V-Rings	No.	1	R	R	R	R
2.20.18	Replace O-Rings	No.	1	R	R	R	R
2.20.19	Replace pinion	No	1	R	R	R	R
2.20.20	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.21	For sizes 0 to 3kW						
2.21.1	Strip and Re-assemble	No.	1	R	R	R	R
2.21.2	Clean	No.	1	R	R	R	R
2.21.3	Bake	No.	1	R	R	R	R
2.21.4	Rewind	No.	1	R	R	R	R
2.21.5	Replace Bearings	No.	1	R	R	R	R
2.21.6	Replace Fan	No.	1	R	R	R	R
2.21.7	Replace Fan Cover	No.	1	R	R	R	R
2.21.8	Balance rotor	No.	1	R	R	R	R
2.21.9	Balance fan	No.	1	R	R	R	R
2.21.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.21.11	Repair of End Shield	No.	1	R	R	R	R
2.21.12	Replace Shaft	No.	1	R	R	R	R
2.21.13	Repair Shaft keyway	No.	1	R	R	R	R
2.21.14	Replace Terminal Box	No.	1	R	R	R	R
2.21.15	Replace Terminal Block	No.	1	R	R	R	R
2.21.16	Fasteners	No.	1	R	R	R	R
2.21.17	Replace V-Rings	No.	1	R	R	R	R
2.21.18	Replace O-Rings	No.	1	R	R	R	R
2.21.19	Replace pinion	No.	1	R	R	R	R
2.21.20	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.22	For DC Motor size 282kW						
2.22.1	Strip and Re-assemble	No.	1	R	R	R	R
2.22.2	Clean	No.	1	R	R	R	R
2.22.3	Bake	No.	1	R	R	R	R
2.22.4	Rewind	No.	1	R	R	R	R
2.22.5	Replace Bearings	No.	1	R	R	R	R
2.22.6	Replace Fan	No.	1	R	R	R	R
2.22.7	Replace Fan Cover	No.	1	R	R	R	R
2.22.8	Balance rotor	No.	1	R	R	R	R
2.22.9	Balance fan	No.	1	R	R	R	R
2.22.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.22.11	Repair of End Shield	No.	1	R	R	R	R
2.22.12	Replace Shaft	No.	1	R	R	R	R
2.22.13	Repair Shaft keyway	No.	1	R	R	R	R
2.22.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.22.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.22.16	Fasteners	No.	1	R	R	R	R
2.22.17	Replace V-Rings	No.	1	R	R	R	R
2.22.18	Replace O-Rings	No.	1	R	R	R	R
2.22.19	Replace Couplings	No.	1	R	R	R	R
2.22.20	Replace thermistors	Sum	1	R	R	R	R
2.22.21	Repair 5.5kw AC Blower	Sum	1	R	R	R	R
2.22.22	Repair Tachog generators	Sum	1	R	R	R	R
2.22.23	Replace Carbon Brushes	Sum	1	R	R	R	R
2.22.24	Replace Commutators	Sum	1	R	R	R	R
2.22.25	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.23	For Motor size 200kW						
2.2.1	Strip and Re-assemble	No.	1	R	R	R	R
2.23.2	Clean	No.	1	R	R	R	R
2.23.3	Bake	No.	1	R	R	R	R
2.23.4	Rewind	No.	1	R	R	R	R
2.23.5	Replace Bearings	No.	1	R	R	R	R
2.23.6	Replace Fan	No.	1	R	R	R	R
2.23.7	Replace Fan Cover	No.	1	R	R	R	R
2.23.8	Balance rotor	No.	1	R	R	R	R
2.23.9	Balance fan	No.	1	R	R	R	R
2.23.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.23.11	Repair of End Shield	No.	1	R	R	R	R
2.23.12	Replace Shaft	No.	1	R	R	R	R
2.23.13	Repair Shaft keyway	No.	1	R	R	R	R
2.23.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.23.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.23.16	Fasteners	No.	1	R	R	R	R
2.23.17	Replace V-Rings	No.	1	R	R	R	R
2.23.18	Replace O-Rings	No.	1	R	R	R	R
2.23.19	Replace Couplings	No.	1	R	R	R	R
2.23.20	Replace thermistors	Sum	1	R	R	R	R
2.23.21	Replace heaters	Sum	1	R	R	R	R
2.23.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
2.24	For Motor size 220kW						
2.24.1	Strip and Re-assemble	No.	1	R	R	R	R
2.24.2	Clean	No.	1	R	R	R	R
2.24.3	Bake	No.	1	R	R	R	R
2.24.4	Rewind	No.	1	R	R	R	R
2.24.5	Replace Bearings	No.	1	R	R	R	R
2.24.6	Replace Fan	No.	1	R	R	R	R
2.24.7	Replace Fan Cover	No.	1	R	R	R	R
2.24.8	Balance rotor	No.	1	R	R	R	R
2.24.9	Balance fan	No.	1	R	R	R	R
2.24.10	Repair to Bearing Journals	No.	1	R	R	R	R
2.24.11	Repair of End Shield	No.	1	R	R	R	R
2.24.12	Replace Shaft	No.	1	R	R	R	R
2.24.13	Repair Shaft keyway	No.	1	R	R	R	R
2.24.14	Replace Terminal Boxes	No.	1	R	R	R	R
2.24.15	Replace Terminal Blocks	No.	1	R	R	R	R
2.24.16	Fasteners	No.	1	R	R	R	R
2.24.17	Replace V-Rings	No.	1	R	R	R	R
2.24.18	Replace O-Rings	No.	1	R	R	R	R
2.24.19	Replace Couplings	No.	1	R	R	R	R
2.24.20	Replace thermistors	Sum	1	R	R	R	R
2.24.21	Replace heaters	Sum	1	R	R	R	R
2.24.22	Extra for repair works carried out in an emergency	Sum	1	R	R	R	R
Sub-Total							R



### SECTION 3 – REPAIR SUBMERSIBLE PUMPS (ALL SIZES)

Item	Description	Unit	QYT	Year 1	Year 2	Year 3	Total Rates for Y1, Y2 & Y3 per Item
				Rate	Rate	Rate	
3.1	REPAIR SUBMERSIBLE PUMPS (ALL SIZES)						
3.1.1	Labour Artisan (Fitter/Electrician)	Hour	1	R	R	R	R
3.1.2	Labour Assistant	Hour	1	R	R	R	R
3.1.3	Mark-up on spares	%	%	10%	12.5%	15%	
Sub-Total							R

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## SECTION 4-TRANSPORT

Item	Description	Unit	QYT	Year 1	Year 2	Year 3
				Rate	Rate	Rate
4.1	Transportation					
4.1.1	Transports (to and from)	km	1	Applicable AA Rates	Applicable AA Rates	Applicable AA Rates

### Note:

- Transportation rates are applicable for the supply and delivery as well as for the strip, quote and repair and they should not be priced as AA rates will be applicable
- The percentage for mark-up on spares is inclusive of all logistic costs required to obtain the spare parts required for use in this contract and it shall be 10% for year 1, 12.5% for year 2 and 15% for year 3.

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### AREA OF SPECIALISATION

The tenderer must indicate the company's area of specialization which he tenders for by ticking in the applicable block blow:

Item	Description	Tick where applicable
3.1	Strip, Quote and Repair of Electric Motors	
3.2	Supply, Delivery and Offloading of Electric Motors (Including Ex-rated motors)	
3.3	Supply, Delivery and Offloading of Submersible Pumps (Including Ex-rated motors)	
3.4	Strip, Quote and Repair of Submersible Pumps	

**All prices MUST include any other costs incurred to render the service. Additional charges post acceptance cannot be submitted as these will be rejected. All rates must exclude VAT.**

NB: Failure to complete and sign this form in full and authenticate alterations with a full signature or initial will result in the elimination of the tender.

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**Failure to adhere to this requirement will prejudice your tender**

Name of tenderer (in full): \_\_\_\_\_

Telephone number: \_\_\_\_\_

e-mail: \_\_\_\_\_

Name of person authorized  
to sign this tender: \_\_\_\_\_  
(BLOCK LETTERS)

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ 2022

## 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.....
Closing Time .....	Closing Date .....

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

ITEM NO.	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY **(ALL APPLICABLE TAXES INCLUDED)
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- |   |  |                 |
|---|--|-----------------|
| - | Required by:                                     | .....           |
| - | At:  | .....           |
|   |  | .....           |
| - | Brand and Model                                  | .....           |
| - | Country of Origin                                | .....           |
| - | Does the offer comply with the specification(s)? | *YES/NO         |
| - | If not to specification, indicate deviation(s)   | .....           |
| - | Period required for delivery                     | .....           |
|   |  | *Delivery: 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

## **DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS**

This Municipal Bidding Document (MBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

### **1. General Conditions**

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) on the date of advertisement of the bid as indicated in paragraph 3.1 below.

**The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.**

- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;

**2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

Item no.	Description of goods	Stipulated minimum threshold
1.5.2	0.25kW 3-phase submersible pump	70%
1.5.3	0.75kW 3-phase submersible pump	70%
1.5.4	1.1kW 3-phase submersible pump	70%
1.6.2	0.25kW 1-phase submersible pump	70%
1.6.3	0.75kW 1-phase submersible pump	70%
1.6.4	1.1kW 1-phase submersible pump	70%

- 3.** Does any portion of the goods or services offered have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

- 3.1** If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on [www.resbank.co.za](http://www.resbank.co.za)

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

- 4.** Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

**LOCAL CONTENT DECLARATION**  
**(REFER TO ANNEX B OF SATS 1286:2011)**

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

**IN RESPECT OF BID NO. ....**

**ISSUED BY:** (Procurement Authority / Name of Institution):  
.....

NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on [http://www.thedti.gov.za/industrial\\_development/ip.jsp](http://www.thedti.gov.za/industrial_development/ip.jsp). Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ..... (full names),  
do hereby declare, in my capacity as .....  
of .....(name of bidder  
entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
  - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

**If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.**



**The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.**

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

**SIGNATURE:** \_\_\_\_\_

**WITNESS No. 1** \_\_\_\_\_

**DATE:** \_\_\_\_\_

**WITNESS No. 2** \_\_\_\_\_

**DATE:** \_\_\_\_\_

(C1)	<b>Tender No:</b>	JW OPS 036/20R	
(C2)	<b>Tender description:</b>	Supply, Deliver, Off-load, Strip, Quote and Repair of Motors and Submersible Pump	
(C3)	<b>Designated product(s)</b>		
(C4)	<b>Tender Authority:</b>		
(C5)	<b>Tendering Entity name:</b>	Johannesburg Water	
(C6)	<b>Tender Exchange Rate:</b>	USD <input type="text"/>	EU <input type="text"/>
(C7)	<b>Specified local content %</b>	70%	

[illegible]

(C21) Total Exempt imported content	R 0
(C22) Total Tender value net of exempt imported content	R 0
(C23) Total Imported content	
(C24) Total local content	R 0
(C25) Average local content % of tender	

---

## Annex D

## Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.  
 (D2) Tender description:  
 (D3) Designated Products:  
 (D4) Tender Authority:  
 (D5) Tendering Entity name:  
 (D6) Tender Exchange Rate:

Note: VAT to be excluded from all calculations

USD

EU

GBP

## A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C 21

## B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

## C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

## D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments	
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)	
						R 0
						R 0
						R 0
						R 0
						R 0
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					R 0	

Signature of tenderer from Annex B

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

Date:

This total must correspond with Annex C - C 23

## Local Content Declaration - Supporting Schedule to Annex C

**Note: VAT to be excluded from all calculations**

(E9) Total local products (Goods, Services and Works)	R 0	#####
---	-----	-------

(E12)	<b>Administration overheads and mark-up</b>	(Marketing, insurance, financing, interest etc.)	R 0 #####
-------	---	--	-----------

**This total must correspond with Annex C - C24**

Date: \_\_\_\_\_

## MBD 4

### DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state<sup>1</sup>.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

**3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

3.1 Full Name of bidder or his or her representative:.....

3.2 Identity Number: .....

3.3 Position occupied in the Company (director, trustee, hareholder<sup>2</sup>):.....

3.4 Company Registration Number: .....

3.5 Tax Reference Number:.....

3.6 VAT Registration Number: .....

3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.

3.8 Are you presently in the service of the state? **YES / NO**

3.8.1 If yes, furnish particulars. ....

.....

<sup>1</sup>MSCM Regulations: "in the service of the state" means to be –

(a) a member of –

- (i) any municipal council;
- (ii) any provincial legislature; or
- (iii) the national Assembly or the national Council of provinces;

(b) a member of the board of directors of any municipal entity;

(c) an official of any municipality or municipal entity;

(d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);

(e) a member of the accounting authority of any national or provincial public entity; or

(f) an employee of Parliament or a provincial legislature.

<sup>2</sup> Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.9 Have you been in the service of the state for the past twelve months? .....**YES / NO**

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? ..... **YES / NO**

3.10.1 If yes, furnish particulars.

.....

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.11.1 If yes, furnish particulars

.....

.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars.

.....

.....

3.13 Are any spouse, child or parent of the company's directors trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.13.1 If yes, furnish particulars.

.....

.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract. **YES / NO**

3.14.1 If yes, furnish particulars:

.....

.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

.....  
**Signature**

.....  
**Date**

.....  
**Capacity**

.....  
**Name of Bidder**

## DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (VAT INCLUDED)

**For all procurement expected to exceed R10 million (VAT included), bidders must complete the following questionnaire:**

- \*1 Are you by law required to prepare annual financial statements for auditing? YES / NO

*\*In the event the Annual Financial Statements submitted with this tender reflect that the tenderer is not required by law to have such statement audited, Johannesburg Water reserves the discretion to interpret your selection of "Yes" as a "No" and analyse it accordingly.*

- 1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years. YES / NO

.....

.....

2. If the bidder is not required by law to prepare annual financial statements for auditing, they shall be required to furnish their Annual Financial Statements -

- i. for the past three years , or
- ii. since their establishment if established during the past three years

3. Do you have any outstanding undisputed commitments for municipal services towards a municipality or any other service provider in respect of which payment is overdue for more than 30 days? YES / NO

- 3.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days.

- 3.2 If yes, provide particulars.

.....



4. Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?

4.1 If yes, furnish particulars

.....  
 .....

5. Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic?

**YES / NO**

5.1 If yes, furnish particulars

.....  
 .....

### **CERTIFICATION**

**I, THE UNDERSIGNED (NAME)** .....

**CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.**

**I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.**

.....  
 Signature

.....  
 Date

.....  
 Position

.....  
 Name of Bidder

## PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.**

### 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- 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

- a) The value of this bid is estimated to **not exceed** R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable
- b) The 80/20 preference point system will be applicable to this tender

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
<b>PRICE</b>	80
<b>B-BBEE STATUS LEVEL OF CONTRIBUTOR</b>	20
<b>Total points for Price and B-BBEE must not exceed</b>	<b>100</b>

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

### 2. DEFINITIONS

- (a) “**B-BBEE**” means broad-based black economic empowerment as defined in section

1 of the Broad-Based Black Economic Empowerment Act;

- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“price”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
  - 1) B-BBEE Status level certificate issued by an authorized body or person;
  - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
  - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

### 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

#### 4. POINTS AWARDED FOR PRICE

#### 4.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

**80/20 or 90/10**

$$P_S = 80 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right) \text{ or } P_S = 90 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

Where

Ps = Points scored for price of bid under consideration

Pt = Price of bid under consideration

$P_{min}$  = Price of lowest acceptable bid

#### 4.2 FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME-GENERATING PROCUREMENT

#### 4.3 POINTS AWARDED FOR PRICE

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

**80/20** or **90/10**

$$P_s = 80 \left( 1 + \frac{P_t - P_{max}}{P_{max}} \right) \text{ or } P_s = 90 \left( 1 + \frac{P_t - P_{max}}{P_{max}} \right)$$

Where

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

## 5. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

- 5.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

## 6. BID DECLARATION

- 6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

## 7. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

- 7.1 B-BBEE Status Level of Contributor: . = .....(maximum of 10 or 20 points)  
 (Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

## 8. SUB-CONTRACTING

- 8.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

- 8.1.1 If yes, indicate:

i) What percentage of the contract will be

- subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE  
**(Tick applicable box)**  

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------
- v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at least 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
<b>OR</b>		
Any EME		
Any QSE		

**9. DECLARATION WITH REGARD TO COMPANY/FIRM**

9.1 Name ..... of  
company/firm:.....

9.2 VAT ..... registration  
number:.....

9.3 Company ..... registration  
number:.....

**9.4 TYPE OF COMPANY/ FIRM**

- ☐ Partnership/Joint Venture / Consortium
- ☐ One person business/sole propriety
- ☐ Close corporation
- ☐ Company
- ☐ (Pty) Limited

[TICK APPLICABLE BOX]

**9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....

.....

.....

.....

.....

**9.6 COMPANY CLASSIFICATION**

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional service provider
- ☐ Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

9.7 **MUNICIPAL INFORMATION**

**Municipality**                      **where**                      **business**                      **is**                      **situated:**

.....

**Registered Account Number:** .....

**Stand Number:**.....

9.8 Total number of years the company/firm has been in business:.....

9.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we 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 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the bidding 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 bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

WITNESSES

1. ....

2. ....

.....  
SIGNATURE(S) OF BIDDERS(S)

DATE: .....

ADDRESS .....

.....  
.....

## CONTRACT FORM - PURCHASE OF GOODS/WORKS

**THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SUCCESSFUL BIDDER (PART 1) AND THE PURCHASER (PART 2). BOTH 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.**

### PART 1 (TO BE FILLED IN BY THE BIDDER)

1. I hereby undertake to supply all or any of the goods and/or works described in the attached bidding documents to (name of institution)..... in accordance with the requirements and specifications stipulated in bid number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the purchaser during the validity period indicated and calculated from the closing time of bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
  - (i) Bidding documents, viz
    - Invitation to bid;
    - Tax clearance pin;
    - Pricing schedule(s);
    - Technical Specification(s);
    - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2017;
    - Declaration of interest;
    - Declaration of bidder's past SCM practices;
    - Certificate of Independent Bid Determination;
    - Special Conditions of Contract;
  - (ii) General Conditions of Contract; and
  - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

#### WITNESSES

1 .....

2. ....

DATE: .....

**CONTRACT FORM - PURCHASE OF GOODS/WORKS****PART 2 (TO BE FILLED IN BY THE PURCHASER)**

1. I..... in my capacity as..... accept your bid under reference number .....dated.....for the supply of goods/works indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating delivery instructions is forthcoming.
3. I undertake to make payment for the goods/works delivered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice accompanied by the delivery note.

ITEM NO.	PRICE (ALL APPLICABLE TAXES INCLUDED)	BRAND	DELIVERY PERIOD	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

4. I confirm that I am duly authorized to sign this contract.

SIGNED AT .....ON.....

NAME (PRINT) .....

SIGNATURE .....

OFFICIAL STAMP

WITNESSES

1. ....

2. ....

DATE .....



# CONTRACT FORM - RENDERING OF SERVICES

**THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.**

## PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)..... in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
  - (i) Bidding documents, viz
    - Invitation to bid;
    - Tax clearance pin;
    - Pricing schedule(s);
    - Filled in task directive/proposal;
    - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2017;
    - Declaration of interest;
    - Declaration of Bidder's past SCM practices;
    - Certificate of Independent Bid Determination;
    - Special Conditions of Contract;
  - (ii) General Conditions of Contract; and
  - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

### WITNESSES

1 .....

2 .....

DATE: .....

**CONTRACT FORM - RENDERING OF SERVICES****PART 2 (TO BE FILLED IN BY THE PURCHASER)**

1. I..... in my capacity as..... accept your bid under reference number .....dated.....for the rendering of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

4. I confirm that I am duly authorised to sign this contract.

SIGNED AT ..... ON .....

NAME (PRINT) .....

SIGNATURE .....

OFFICIAL STAMP

WITNESSES

1 .....

2 .....

DATE: .....

## DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
  - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
  - b. been convicted for fraud or corruption during the past five years;
  - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
  - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p><b>The Database of Restricted Suppliers now resides on the National Treasury's website(<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	<p>If so, furnish particulars:</p>   		
4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?</p> <p><b>The Register for Tender Defaulters can be accessed on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	<p>If so, furnish particulars:</p>   		
4.3	<p>Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.3.1	If so, furnish particulars:		
<b>Item</b>	<b>Question</b>	<b>Yes</b>	<b>No</b>
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

### CERTIFICATION

**I, THE UNDERSIGNED (FULL NAME) .....  
CERTIFY THAT THE INFORMATION FURNISHED ON THIS  
DECLARATION FORM TRUE AND CORRECT.**

**I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT,  
ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION  
PROVE TO BE FALSE.**

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**

## **CERTIFICATE OF INDEPENDENT BID DETERMINATION**

- 1 This Municipal Bidding Document (MBD) must form part of all bids<sup>1</sup> invited.
  
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).<sup>2</sup> Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
  
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
  - a. take all reasonable steps to prevent such abuse;
  - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
  - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
  
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
  
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.

<sup>2</sup> Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid:

---

(Bid Number and Description)

in response to the invitation for the bid made by:

---

(Name of Municipality / Municipal Entity)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: \_\_\_\_\_ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
  - (a) has been requested to submit a bid in response to this bid invitation;
  - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
  - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder

6. 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 consortium<sup>3</sup> will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;
  - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
  - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. 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.

<sup>3</sup> 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.

10. 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.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder





**JOHANNESBURG WATER (SOC) LTD**

**GENERAL CONDITIONS OF  
CONTRACT**

## **TABLE OF CLAUSES**

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**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 goods 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 goods 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 "Supplier" means the successful bidder who is awarded the contract to maintain and administer the required and specified service(s) to the State.

1.26 "Tort" means Delict

1.27 "Turnkey" means a procurement process where one service provider assumes total responsibility for all aspects of the project and delivers the full end product / service required by the contract.

1.28 "Written" or "in writing" means hand-written 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 (excluding professional services related to the building and construction industry), 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 goods, 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 Invitations to bid are usually published in locally distributed news media and on the municipality/municipal entity website.

**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.

6.2 When a supplier develops documentation / projects for the municipal owned entity (MOE), the MOE shall retain ownership of any written opinion, advice, presentation or other deliverable that the supplier produces for the MOE in its tangible form on payment of all fees due, owing and payable to the supplier. The ownership of the intellectual property rights in the services, products of the services and the methodology and technology used to perform the services and all its working papers shall be retained by the supplier.

#### **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.

## **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 goods to be produced or services to be rendered should at any stage be subject to inspections, tests and analyses, the bidder or contractor's premises shall be open, at all reasonable hours, for inspection by a representative of the purchaser or organization acting on behalf of the purchaser.

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

8.6 Goods 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 goods may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected goods 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 goods, which do comply with the requirements of the contract. Failing such removal the rejected goods shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute goods forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected goods, purchase such goods 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 22 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 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, and in any subsequent instructions ordered by the purchaser.

## **10. Delivery and documents**

10.1 Delivery of the goods and arrangements for shipping and clearance obligations, shall be made by the supplier in accordance with the terms specified in the contract.

## **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.

## **12. Transportation**

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

## **13. Incidental Services**

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

(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, 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.

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 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, 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.

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

16.3 Payment shall be made within 30 days of receipt of the supplier statement, provided the statement submitted is correct and submitted to Johannesburg Water before the end of the month. The invoice for which payment is required must be correct, must be reflected on the statement referred to above and also be submitted by no later than the end of the month.

16.4 Payment will be made in Rands unless otherwise stipulated.

## **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 or in the purchaser's request for bid validity extension, as the case may be.

## **18. Variation in contractual hours**

18.1 In the event that work to be performed in terms of this contract be completed in less than the envisaged time, or in the event that the duration of such work exceeds the envisaged time pursuant to the approval by JW of an exception report referred to in clause 8 of the Scope of Work, the rate per hour payable to the contractor shall remain the same.

**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 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 goods are required, or the supplier's services are not readily available.

21.4 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 22.2 without the application of penalties.

21.5 Upon any delay beyond the delivery period in the case of a goods contract, the purchaser shall, without cancelling the contract, be entitled to purchase goods 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 judgement 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 supplier as having no objection and proceed with the restriction.

23.5 . Any restriction imposed on any person by the purchaser will, at the discretion of the purchaser, 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 purchaser 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. Antidumping 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 supplier to the purchaser or the purchaser may deduct such amounts from moneys (if any) which may otherwise be due to the supplier in regard to goods 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 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 for goods delivered and / or services rendered according to the prescripts of the contract.

## **28. Limitation of Liability**

28.1 Except in cases of criminal negligence or wilful 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.

**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 SARS must have certified that the tax matters of the preferred bidder are in order.

32.4 No contract shall be concluded with any bidder whose municipal rates and taxes and municipal services charges are in arrears.

### **33. Transfer of contracts**

33.1 The contractor shall not abandon, transfer, cede assign or sublet a contract or part thereof without the written permission of the purchaser

### **34. Amendment of contracts**

34.1 No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force unless such agreement to amend or vary is entered into in writing and signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing, shall also be in writing.

### **35. Prohibition of restrictive practices**

35.1 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.

35.2 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 section 59 of the Competition Act No 89 Of 1998.

35.3 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.

## BANKING DETAILS FOR ELECTRONIC FUNDS TRANSFER

### Requirements

- All fields below must be completed and only the completed original authorised form will be accepted. (Faxed and emailed copies are not accepted).
- This form must be accompanied by an original **cancelled cheque** or an **original signed and stamped letter from your bank** (date must be not older than 3 months). Alternatively this form can be stamped by your bank.

<b>Supplier Name</b>	
<b>Contact Person</b>	
<b>Email Address</b>	
<b>Telephone Number</b>	
<b>Fax Number</b>	

### Bank Information

<b>Name of Payee</b> (Must be the same as your supplier name)	
<b>Name of Bank</b>	
<b>Account Number</b>	
<b>Branch Code</b> -(to be confirmed with your bank for EFT payments)	
<b>Branch Name</b>	
<b>Reference (if applicable)</b>	

In the event my tender is successful, I hereby authorise Johannesburg Water SOC Ltd, to make all payments by EFT into the above bank account and I have attached the required documents as requested. I have the authority to provide and authorise the above information on behalf of the corporation/organization/payee.

### Authorised representative of supplier

Name & Surname: \_\_\_\_\_ Date: \_\_\_\_\_

Signature : \_\_\_\_\_ Designation \_\_\_\_\_