

	<b>REQUEST FOR BID</b> <b>ENGINEERING PROCUREMENT AND</b> <b>CONSTRUCTION / TURNKEY</b>		Form No: RW SCM 00048 F
			Revision No: 07
			Effective Date: 16 Sept 2022

**BID NUMBER: RW010400960/22**

**TURNKEY TENDER FOR REFURBISHMENT OF VARIOUS CHAMBERS ACROSS  
THE RAND WATER NETWORK – Package 9 (Chambers)**

**MINIMUM CIDB CONTRACTOR GRADING FOR THIS BID: 9CE**

ISSUE DATE:	Thursday, 12 January 2023		
NON-COMPULSORY BRIEFING SESSION DATE:	N/A		
BRIEFING SESSION VENUE:	N/A		
CLOSING DATE:	Tuesday, 02 May 2023	AT 12 :00 pm	
SITE VIEWING DATE/S:	REFER TO T1.1 BID NOTICE AND INVITATION		

BIDDER INFORMATION				
BIDDER NAME				
POSTAL ADDRESS				
STREET ADDRESS				
TELEPHONE NUMBER	CODE		NUMBER	
CELLPHONE NUMBER				
E-MAIL ADDRESS 1				
E-MAIL ADDRESS 2				
VAT REGISTRATION NUMBER			CIDB GRADING	
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		CENTRAL SUPPLIER DATABASE No:	MAAA.....
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	[TICK APPLICABLE BOX]  <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS SWORN AFFIDAVIT (EMEs and QSEs)	[TICK APPLICABLE BOX]  <input type="checkbox"/> Yes <input type="checkbox"/> No

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:	
E-MAIL ADDRESS (Submissions must be made to this address)	<a href="mailto:iepenquiries@randwater.co.za">iepenquiries@randwater.co.za</a>

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## SECTION A: BID

### PART T1: BIDDING PROCEDURES

#### T1.1. BID NOTICE AND INVITATION TO BID

<p>Rand Water invites bids for the turnkey tender for refurbishment of various chambers across the Rand Water network (Package 9).</p> <p>The technical requirements for the <i>works</i> are fully stated in the employers' requirement / bid documentation.</p>	
Minimum Contractor CIDB Grading Required	<p><b>Grade 9CE</b></p> <p>Contractors shall have a Contractor grading equal to a contract grading designated above.</p>
Contracting Strategy	<b>EPC / Turnkey</b>
Classification	<b>Complex work</b>
Procurement Procedure	Rand Water uses a single volume approach.
Awarding Strategy	The maximum number of suppliers to be awarded this bid is <b>01</b> . Rand Water reserves the right to award to multiple bidders.
Access to the Bid Documents	<p>The bid documents are downloadable on the National Treasury e-Tender Publication portal which can be accessed through the following link: <a href="http://www.etenders.treasury.gov.za">http://www.etenders.treasury.gov.za</a></p> <p>No bid documents will be issued to Contractors at site meetings. Please ensure that bid documents have been downloaded from the National Treasury e-Tender Publication portal prior to the site meeting date.</p> <p>Bids shall only be submitted on the bid documentation that is issued by the Employer. This bid document (as issued through the National Treasury e-Tender Publication portal) must be submitted in full together with the returnable documents.</p>
Bid Clarifications	<p>Bidders can seek clarification by no later than <b>fifteen (15)</b> calendar days before the bid closing date.</p> <p>Rand Water will provide a final response on clarifications by no later than <b>ten (10)</b> calendar days before the closing date.</p>
Bid Addenda	Rand Water shall issue addenda, where applicable, by no later than <b>ten (10)</b> calendar days before the closing date. Bid addenda will be published on the eTender Publication Portal.
Bid Submission Location	<p>Bids must be submitted before or on closing date and time at the following address:</p> <p><b>Main Reception, 522 Impala Road, Glenvista</b></p>
Bid Validity	To be valid for <b>180</b> days after closing date

	Rand Water reserves the right to extend the validity period for a period reasonable for business requirements.
<b>Subcontracting</b>	<p>Bidders must utilise the National Treasury's Central Supplier Database (CSD) for identification of potential subcontractors from the pool of EMEs or QSEs to advance designated groups.</p> <p>The responsibility to subcontract with competent and capable subcontractors rests with the main contractor/ supplier.</p> <p>As far as possible, the bidder must consider subcontractors from the area/s where the project will be taking place.</p> <p>Where CIDB related works are subcontracted, each Subcontractor must also be registered with the appropriate CIDB grading in accordance with the value of the work to be undertaken by that Subcontractor.</p>
<b>Rotation of Suppliers</b>	In the spirit of providing equal opportunities to potential suppliers and in view of not supporting monopolies, Rand Water shall apply rotation of suppliers to ensure equitable share in Rand Water's awarded contracts.
<b>Site Viewing Date/s, Time and Venue</b>	<p>The schedule for site viewing will be issued on or before the 31 January 2023</p> <p><b>THE RELEVANT PPE IS REQUIRED TO ENTER THE STATION</b></p>

## T1.2. BID DATA

The conditions of this bid are the Standard Conditions of Tender as contained in the document CIDB Standard for Uniformity in Engineering and Construction Works Contracts (August 2019) Annexure C and may be obtained from the CIDB.

The Standard Conditions of Tender for Procurement make several references to the Bid Data for details that apply specifically to this bid. The Bid Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

The contractor shall achieve in the performance of the contract the Contract Skills Development Goal (CSDG) established in the Standard for Developing Skills through Infrastructure Contracts (published in GN 43495 of 20 March 2020).

Each item of data given below is cross-referenced to the Clause in the CIDB Standard Conditions of Tender to which it mainly applies.

CLAUSE NUMBER (CIDB)	BID DATA
C.1.1	The Employer is Rand Water.
C.1.2	The bid documents issued by the Employer are detailed on the contents page of this bid document.
C.1.4	The <i>Bid</i> Employer's Representative/s is stated on the cover page of this bid document.
C.1.6.3	The Employer shall evaluate this bid in accordance with the evaluation criteria stated in this bid.
C.2.1	<p>Only those Bidders who are registered with the cidb or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a <b>9CE</b> class of construction work, are eligible to have their tenders evaluated.</p> <p>Joint ventures are eligible to submit bids provided that:</p> <ol style="list-style-type: none"> <li>every member of the joint venture is registered with the cidb;</li> <li>the lead partner has a contractor grading designation in the <b>9CE</b> class of construction work; or not lower than one level below the required grading designation in the class of works construction works under considerations and possess the required recognition status.</li> <li>the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a or <b>9CE</b> class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.</li> </ol>
C.2.7	The arrangement for a non-compulsory site meeting (where applicable) is as stated in the Notice and Invitation to Bid.

C.2.8	The due date for seeking clarification is as stated in the Bid Notice and Invitation to Bid.
C.2.12	<p>In addition to the information appearing in C2.12 of the CIDB Standard Conditions of Tender, the following statements shall apply:</p> <ul style="list-style-type: none"> <li>• Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative bid offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals.</li> <li>• Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions.</li> <li>• Pricing Data must reflect all assumptions in the development of the pricing proposal.</li> <li>• The pricing of the alternative bid offer may not exceed the pricing of the main bid offer.</li> </ul> <p>Acceptance of an alternative bid offer will mean acceptance in principle of the offer. In the event that the alternative bid offer is accepted, it will be a contractual obligation for the Bidder to accept full responsibility and liability that the alternative bid offer complies in all respects with the Employer's standards and requirements.</p>
C.2.13.5 C.2.13.7	<p>Bidders must submit <b>one (1)</b> copy of the bid document and returnable documents <b>AND</b> <i>Compact disc (CD) or USB flash drive with pdf format of the bid document and returnable documents.</i></p> <p>The Employer's address for delivery of the bid offers is stated in the Bid Notice and Invitation to Bid.</p> <p>The bid submission must be sealed and endorsed with both the bid number and the description of the bid, as it appears on the front cover of this bid.</p>
C.2.13.9	Telephonic, telegraphic, telex, facsimile or e-mailed bid offers will not be accepted.
C.2.15	The closing time for submission of bid offers is as stated in the Bid Notice and Invitation to Bid.
C.2.16	<p>The bid offer validity period is as stated in the Bid Notice and Invitation to Bid.</p> <p>No bid substitutions will be allowed after the closing date and time.</p>
C.2.23	See 2.1 List of Returnable Documents for a comprehensive list of certificates and additional documents required for submission with this bid.
C.3.4	Rand Water will make available the names, prices and preference points for submissions to interested parties who make request for such information, at least one (1) week after the closing date. (CIDB Best Practice Guideline #A3 Evaluation tenders offers, February 2008)

C.3.11

Rand Water's evaluation process comprises of the following steps. Specific criteria to be utilised for this bid are contained in T1.3 Evaluation Criteria

**a) Test for responsiveness/ Pre- Qualifiers**

Refer to the criteria as stated in T1.3 of this bid document. All pre-qualifiers must be met in order for the bid submission to be considered further.

**b) Functionality evaluation**

Refer to the criteria as stated in T1.3 of this bid document. A minimum score of **70 percent** must be obtained for the bid submission to be considered further.

**c) Price**

**i. Price Analysis**

Rand Water uses a Financial Tolerance Range in order to assess how reasonable the market response prices are. These ranges will assist with eliminating bid prices that are deemed to be excessively high or low to complete the works. The higher limit ensures that Rand Water does not pay more than it believes the value of service or goods is worth, and the lower limit ensures that Rand Water is not exposed to risk of work not being completed or prices increasing subsequent to the award because the award price was too low to complete said scope.

**d) Preference Points**

**WHERE PROCUREMENT VALUE IS R0 < R50 000 000 (INCL. VAT):**

**WHERE PROCUREMENT RAND VALUE IS >= R50 000 000 (INCL. VAT):**

$$P_s = 90 * \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

The following table will be used to calculate the points out of 10 for BBEE:

B-BBEE Status Level of Contributor	Number of Points
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

Where:

Ps = Points scored for comparative price of bid or offer under consideration

Pt = Comparative price of bid or offer under consideration

Pmin = Comparative price of lowest acceptable bid or offer.

***Rand Water does not bind itself to accept the bid with the lowest price***

**BBBEE STATUS (P<sub>P</sub> = 10/20 maximum)**

Quantification of procurement contribution to B-BBEE

Points will 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 point (90/10 system)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

Bidders will not be disqualified from the bidding process for not submitting a certificate substantiating the B-BBEE status level of contribution or is a non-compliant contributor. ***Such a bidder will score zero (0) out of maximum of 10 for B-BBEE***

**SUMMARY**

The total number of functionality/ quality (P<sub>F</sub>) shall be the sum total of the product of quality criteria by weight allocated.

The total number of adjudication points (P<sub>T</sub>) shall equal the sum of the bid price points (P<sub>S</sub>) and the BBBEE status points (P<sub>P</sub>) i.e.

$$P_T = P_S + P_P$$

**Rand Water does not bind itself to accept the bid with the highest number of adjudication points.**

C.3.17

The number of paper copies of the signed contract to be provided by the Employer is 1 (one).



## T1.3. EVALUATION CRITERIA

### T1.3.1. TEST FOR RESPONSIVENESS / PRE-QUALIFIERS

1. Fully completed and signed Form of Offer.
2. Letter of Good Standing from the Department of Labour or an Accredited Institution.
3. Bidder must subcontract a minimum of 30% of the value of the contract to a multi QSE/s or EME that is a minimum 51% black owned.

*The following evidence must be submitted:*

- Subcontracting agreement stipulating the percentage to be subcontracted
- CSD report/s for Subcontractor/s
- CIDB Registration for Subcontractor/s, where CIDB related works are subcontracted

*Where CIDB related works are subcontracted, each Subcontractor must also be registered with the appropriate CIDB grading in accordance with the value of the work to be undertaken by that Subcontractor. Where the CIDB requirement for subcontracted work is not met, this pre-qualifier has not been met.*

- Proof of B-BBEE status for Subcontractor/s
4. The use of correction fluid or any other similar substance to make corrections is not permitted.
  5. Bidders must be registered with the CIDB or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the CIDB grading of this bid; in accordance with the CIDB prescripts.

Sub-contractors must be registered with the CIDB in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the portion of the works that are sub-contracted.

6. Fully completed Local Content Declaration SBD 6.2 and Annexure C Forms for each of the designated sectors as provided and minimum stipulated thresholds for this bid, as outlined in Schedule T2.2.1.
7. Submission of Socio-Economic Development (SED) proposal in accordance with Rand Water's requirements and targets in T2.2.9 and the signing of the SED schedule in its entirety.

8. The bidding entity must have the ability to execute all required Engineering Consulting services in accordance with the Engineering Act of SA, Engineering Profession Act 46 of 2000. Proof of employment or signed contract agreement with the relevant Engineering Consultant or Consulting company must be submitted with the tender.
9. In the case of a Joint Venture, Consortium or a similar entity, a signed agreement or letter of intent between members/partners must be submitted together with the bid. It is a condition of this bid that Joint Ventures, Consortium or similar entities must, upon award, incorporate its entities within a prescribed time period (per the conditions precedents contained in the bid document).

	<p align="center"><b>REQUEST FOR BID ENGINEERING PROCUREMENT AND CONSTRUCTION / TURNKEY</b></p>	<p>Form No: RW SCM 00048 F Revision No: 07 Effective Date: 16 Sept 2022</p>
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### T1.3.2. FUNCTIONALITY EVALUATION

Bid submissions will be evaluated on the criteria outlined in items (A-H) below. Each Item (A to H) has an assigned “Weight” and “Rating” scale. During the evaluation process, Bidders shall be assigned a “Rating” for each item in A to H.

The maximum “Score” that a Bidder can achieve will be equal to the “Weight” for a particular item. The Total Scores of each functionality criterion will be multiplied by its weight and then the total score summed up to a total score out of 100.

A detailed description of the “Rating” scales and associated adjudication documentation are as follows:

CRITERION	RETURNABLE SCHEDULE REFERENCE	WEIGHT	RATING SCALE			
			GOOD (100%)	MODERATE (66.7%)	WEAK (33.33%)	NONE (0%)
A. RECORD OF PREVIOUS EXPERIENCE: (15)	Experience must be relevant to the current scope/ work (with contactable client ref.) This is based on contractor history and managing projects of a similar nature and size to this bid. The reference must be written confirmation from clients and may include a completion certificate.					
A.1 Designs	T2.2.10	5	Minimum of three project completion certificates which include experience on designs of multidisciplinary projects	Minimum of two project completion certificates which include experience on designs of multidisciplinary projects	Minimum of one project completion certificate which include experience on designs of multidisciplinary projects	No submission or submission that does not at least meet weak requirements.
A.2 Construction / Installation	T2.2.10	10	Minimum of three project completion certificates of projects of a similar nature and size to this bid.	Minimum of two project completion certificates of projects of a similar nature and size to this bid.	Minimum of one project completion certificates of projects of a similar nature and size to this bid.	No submission or submission that does not at least meet weak requirements.
B. HUMAN RESOURCE CAPACITY (20)	Adjudicated based on Human Resource Capacity Schedule (including company's Project Team vs. Company Organogram; Project Team Member List including CV's, resource allocation). The purpose is to establish an overall picture of the company's human resource capacity and ability to undertake the work. Proof of current employment such as valid three months bank statement / Payslips and signed contract for each and every key resource/personnel must be submitted over and above the requirements below (B.1. and B.11). The three months base date is the Bid closing date, which means the resource must have been employed by the company/JV/Consortium for a minimum of three months at Bid submission date					

CRITERION	RETURNABLE SCHEDULE REFERENCE	WEIGHT	RATING SCALE			
			GOOD (100%)	MODERATE (66.7%)	WEAK (33.33%)	NONE (0%)
<b>B.1. Construction Manager</b>	T2.2.11	4	B.Sc., B.Eng. Or B.Tech. Certificate in built environment and 10 years project and construction management work experience with SACPCMP professional registration as Pr.CM or Pr. CPM	B.Sc., B.Eng. Or B.Tech. Certificate in built environment and 9 years project and construction management work experience with SACPCMP professional registration as Pr.CM or Pr. CPM	B.Sc., B.Eng. Or B.Tech. Certificate in built environment and 8 years project and construction management work experience with SACPCMP professional registration as Pr.CM or Pr. CPM	No submission or submission that does not at least meet weak requirements.
<b>B.2. Construction Supervisor</b>	T2.2.11	2	National Diploma in built environment certificate with a minimum of 10 years construction supervision experience and registered with SACPCMP as a Candidate PrCM	National Diploma in built environment certificate with a minimum of 9 years construction supervision experience and without registration SACPCMP as a Candidate PrCM	National Diploma in built environment certificate with a minimum of 8 years construction supervision experience and without registration with SACPCMP as a Candidate PrCM	No submission or submission that does not at least meet weak requirements.
<b>B.3. Construction Health and Safety Officer</b>	T2.2.11	2	SHE Diploma or SAMTRAC or equivalent qualification with 6 years SHE Officer construction working experience and registered with SACPCMP as CHSO / CHSM.	SHE Diploma or SAMTRAC or equivalent qualification with 4-5 years SHE Officer construction working experience and registered with SACPCMP as CHSO / CHSM.	SHE Diploma or SAMTRAC or equivalent qualification with 1-3 years SHE Officer construction working experience and registered with SACPCMP as CHSO / CHSM.	No submission or submission that does not at least meet weak requirements.
<b>B.4. Quality Officer</b>	T2.2.11	2	Qualification in quality management with 8 years quality management systems experience	Qualification in quality management with 7 years quality management systems experience	Qualification in quality management with 6 years quality management systems experience	No submission or submission that does not at least meet weak requirements.
<b>B.5. Environmental Officer</b>	T2.2.11	1	National Diploma in Environ Sciences or BSc in Environmental Management or equivalent, with 5 years appropriate Environmental Control Officer experience and in-field experience with monitoring of Construction types of projects	National Diploma in Environ Sciences or BSc in Environmental Management or equivalent, with 4 years appropriate Environmental Control Officer experience and in-field experience with monitoring of Construction types of projects	National Diploma in Environ Sciences or BSc in Environmental Management or equivalent, with 3 years appropriate Environmental Control Officer experience and in-field experience with monitoring of Construction types of projects	No submission or submission that does not at least meet weak requirements.

CRITERION	RETURNABLE SCHEDULE REFERENCE	WEIGHT	RATING SCALE			
			GOOD (100%)	MODERATE (66.7%)	WEAK (33.33%)	NONE (0%)
<b>B.6. Civil Engineer/Technologist (Structures)</b>	T2.2.11	3	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 10 years water engineering experience in particular structures.	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 9 years water engineering experience in particular structures	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 8 years water engineering experience in particular structures	No submission or submission that does not at least meet weak requirements.
<b>B.7. Civil Engineer/Technologist (Water)</b>	T2.2.11	2	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 10 years water engineering experience in particular big diameter pipelines	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 9 years water engineering experience in particular big diameter pipelines	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 8 years water engineering experience in particular big diameter pipelines	No submission or submission that does not at least meet weak requirements.
<b>B.8. Electrical Engineer/Technologist</b>	T2.2.11	2	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 10 years' experience in heavy current application in water utility	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 9 years' experience in heavy current application in water utility	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 8 years' experience in heavy current application in water utility	No submission or submission that does not at least meet weak requirements.
<b>B.9. Mechanical Engineer/Technologist</b>	T2.2.11	2	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 10 years' experience in big diameter pipelines valves and related <b>mechanical</b> equipment.	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 9 years' experience in big diameter pipelines valves and related mechanical equipment.	B.Sc. or B.Eng. or B.Tech. Certificate, Pr. Eng or Pr. Tech. Eng and 8 years' experience in big diameter pipelines valves and related mechanical equipment.	No submission or submission that does not at least meet weak requirements.
<b>C. PLANT AND EQUIPMENT RESOURCE CAPACITY (10)</b>	Adjudicated based on Equipment Resource Capacity (i.e. office space and requisite tools, vehicles and working tools). The purpose is to establish an overall picture of the company's equipment resource capacity and ability to undertake the work. Rand Water will confirm the information submitted when conducting due diligence.					

CRITERION	RETURNABLE SCHEDULE REFERENCE	WEIGHT	RATING SCALE			
			GOOD (100%)	MODERATE (66.7%)	WEAK (33.33%)	NONE (0%)
<b>C.1 Design Phase</b>	T2.2.12	2	Proof of ownership for: Design office space, possession either hardcopies or electronic copies of the relevant Design Codes excluding the SANS 1200, plotters for the printing of drawings, relevant licensed software e.g. AUTOCAD, Prokon, etc. and associated hardware capable of running software for 3D designs.	Proof of ownership and Lease agreement. Design office space, possession either hardcopies or electronic copies of the relevant Design Codes excluding the SANS 1200, plotters for the printing of drawings, relevant licensed software e.g. AUTOCAD, Prokon, etc. and associated hardware capable of running software for 3D designs.	Proof of only letter of lease intent for: Design office space, possession either hardcopies or electronic copies of the relevant Design Codes excluding the SANS 1200, plotters for the printing of drawings, relevant licensed software e.g. AUTOCAD, Prokon, etc. and associated hardware capable of running software for 3D designs.	No submission or submission that does not at least meet weak requirements.
<b>C.2 Construction Phase</b>	T2.2.12	8	Proof of ownership or availability (lease agreement / letter of lease intent) of equipment relevant to this bid	Proof of ownership or availability (lease agreement / letter of lease intent) of equipment relevant to this bid	Proof of ownership or availability (lease agreement / letter of lease intent) of equipment relevant to this bid	No submission or submission that does not at least meet weak requirements.
<b>D. PROJECT RISK MANAGEMENT (5)</b>	As per risk register provided. Provide a full report on the risks response plan					
<b>D.1. Response to tender document risks register</b>	T2.2.16	5	Responded to 100% of risks on the risks register including filling of all the response actions and response strategies for each and every risk.	Responded to above 80% of risks on the risks register including filling of all the response actions and response strategies for each and every risk.	Responded to above 60% of risks on the risks register including filling of all the response actions and response strategies for each and every risk.	No submission or submission that does not at least meet weak requirements.

CRITERION	RETURNABLE SCHEDULE REFERENCE	WEIGHT	RATING SCALE			
			GOOD (100%)	MODERATE (66.7%)	WEAK (33.33%)	NONE (0%)
E. DETAILED PROJECT PROGRAMME (15)	Aligned with employer’s completion dates with the following specifications.					
E.1. Programme Schedule	R1.17	15	Integrated level 3 MS project schedule with durations (start and finish dates), indication of critical path. Programme schedule to be aligned to ECSA Stage 1 to Stage 6 or SACPCMP stages	Integrated level 2 MS project schedule with durations (start and finish dates), indication of critical path. Programme schedule to be aligned to ECSA Stage 1 to Stage 6 or SACPCMP stages	Integrated level 1 MS project schedule with durations (start and finish dates), indication of critical path. Programme schedule to be aligned to ECSA Stage 1 to Stage 6 or SACPCMP stages	No submission or submission that does not at least meet weak requirements.
F. METHOD STATEMENT (20)	Specific method statement in accordance with the scope of work, Aligned with Contractual requirements, logical and aligned to the scope of work.					
F.1. Designs	R1.18	6	Details of Design and Engineering Plan- sequence of designs across all 4 relevant engineering disciplines.	Details of Design and Engineering Plan- sequence of designs across 3 relevant engineering disciplines.	Details of Design and Engineering Plan- sequence of designs across 2 relevant engineering disciplines.	No submission or submission that does not at least meet weak requirements.
F.2 Equipment and Construction	R1.18	6	Plant, Labour, equipment, and material management plan including list of long lead items. Construction and Equipment Acidity plan including sequencing of activities to ensure plant is always running	Plant, Labour, equipment, and material management plan including list of long lead items. Construction and Equipment Acidity plan <u>excluding</u> sequencing of activities to ensure plant is always running	Not Applicable	No submission or submission that does not at least meet weak requirements.
F.3 Quality Control and Assurance	R1.18	5	Detailed methodology on how quality control and assurance will be managed plus sample of QCP	Detailed methodology on how quality control and assurance will be managed <u>without</u> a sample of QCP	Not Applicable	No submission or submission that does not at least meet weak requirements.

CRITERION	RETURNABLE SCHEDULE REFERENCE	WEIGHT	RATING SCALE			
			GOOD (100%)	MODERATE (66.7%)	WEAK (33.33%)	NONE (0%)
F.4. Safety Management	R1.18	3	Detailed methodology on how safety will be managed with a sample of typical task-based risk assessment	Detailed methodology on how safety will be managed but without a sample of typical task-based risk assessment	Less detailed methodology on how safety will be managed but without a sample of typical task-based risk assessment	No submission or submission that does not at least meet weak requirements.
G. SHERQ (5)	Adjudicated based on Contractors Health, Environment, Risks, Safety and Quality Policy, Plan and documentation submitted					
G.1. SHEQ MANAGEMENT SYSTEMS (5)	R1.11	5	ISO 9001, ISO 45001 and ISO 14001 certificates	No ISO but have internal management system for health and safety, quality and environmental, <u>coupled</u> with signed SHEQ Plan, signed SHE Policy and signed Quality Policy	No ISO but have internal management system for health and safety, quality and environmental, <u>without</u> signed SHEQ Plan, signed SHE Policy and signed Quality Policy	No submission or submission that does not at least meet weak requirements.
H. FINANCIAL HEALTH (10)	<p><b>Financial Health- If an entity will be funding itself, it is to submit valid three years financial statements. In the event that an entity having a funder, a valid stamped letter from the funder indicating that they will fully fund your contract is to be submitted.</b></p> <p><b>When the valid three years financial statements are submitted, H1 and H2 will be calculated for scoring. If a valid stamped letter from the funder indicating that they will fully fund your contract is to be submitted the Bidder will obtain full score for H1 &amp; H2.</b></p>					
H.1. Liquidity	R1.8	2	Current assets / Current liabilities; Current assets - Inventory / Current liabilities ratios both equal to 1 while Cash generated from operations / Debt ratio is greater than 0.4501	Current assets / Current liabilities; Current assets - Inventory / Current liabilities ratios both are equal to 1 while Cash generated from operations / Debt ratio is between 0.21 and 0.4501	Current assets / Current liabilities; Current assets - Inventory / Current liabilities ratios both are less than 1 while Cash generated from operations / Debt ratio is less than 0.21	No submission or submission that does not at least meet weak requirements.
H.2. Debt, gearing and solvency	R1.8	2	Long-term debt / Equity of less than 0,345; Long term debt/EBITDA of less than 1,95 and Total Assets/Total liabilities of more than 1,5	Long-term debt / Equity between 0,345 and 0,505; Long term debt/EBITDA between 1,95 and 3,95 and Total Assets/Total liabilities between 1 and 1,5	Long-term debt / Equity of more than 0,505; Long term debt/EBITDA of more than 3,95 and Total Assets/Total liabilities of less than 1	No submission or submission that does not at least meet weak requirements.



CRITERION	RETURNABLE SCHEDULE REFERENCE	WEIGHT	RATING SCALE			
			GOOD (100%)	MODERATE (66.7%)	WEAK (33.33%)	NONE (0%)
H.3. Financial Management Plan	R1.8	6	Comprehensive Financial Management Plan, including cash flows incorporating all the activities of the contract for its duration.	Basic Financial Management Plan, including cash flows incorporating all the activities of the contract for its duration.	Basic Financial Management Plan, including cash flows not incorporating activities of the contract for its duration.	No submission or submission that does not at least meet weak requirements.



## REQUEST FOR BID ENGINEERING PROCUREMENT AND CONSTRUCTION / TURNKEY

Form No: RW SCM 00048 F  
Revision No: 07  
Effective Date: 16 Sept 2022

### T1.3.3. PRICE

Rand Water uses a Financial Tolerance Range in order to assess how reasonable the market response prices are. These ranges will assist with eliminating bid prices that are deemed to be excessively high or low to complete the works. The higher limit ensures that Rand Water does not pay more than it believes the value of service or goods is worth, and the lower limit ensures that Rand Water is not exposed to risk of work not being completed or prices increasing subsequent to the award because the award price was too low to complete said scope.

The financial tolerance range for this bid is **-25% to 25%**.

### T1.3.4. OBJECTIVE CRITERIA

Rotation of suppliers for bids will be done on the following conditions:

- a) Aggregate value of R250 million (inclusive of all taxes) awarded.
- b) Where an award to be made to the supplier results in the cumulative value exceeding the rotation threshold for bids, that award can be made which will constitute the last award to the supplier in the financial year.
- c) As its objective criteria, Rand Water shall therefore not award to a Bidder that scores the highest points if such Bidder has already exceeded the rotation threshold for bids.

In making the determination on the aggregate value of work awarded to a supplier, Rand Water shall consider the supplier's relations and as such, where Rand Water had awarded work to entities and/or persons that are related and/or inter-related to the supplier, the value of such awards shall be used as a measure of assessing the aggregate value of the work awarded to the supplier.

- d) This bid document is one of approximately 48 IEP sub-packages/bids. Therefore, one Director is limited to a maximum of one award of IEP sub-packages/bid/contract. This means, if an Entity has a director/s awarded one IEP contract there will be no award of any other IEP contract to the entity.
- e) However, Rand Water reserves a right to award more than one bid to one entity or Director.
- f) No subcontracting of work to "own entities/subsidiaries"

## PART T2: RETURNABLE DOCUMENTS

### T2.1. LIST OF RETURNABLE DOCUMENTS

- T2.1.1** All documentation listed in table T2.1 below shall form part of the Contract. *The Bidder must utilise this list as a checklist prior to bid submission.*
- T2.1.2** Non-submission of any item listed only under the column "Required for Bid Evaluation" may result in the bid being rejected by the Employer.
- T2.1.3** Attach additional pages if more space is required.

### T2.2. RETURNABLE SCHEDULES

**Table T2.1 List of Returnable Documents**

ITEM	DESCRIPTION OF DOCUMENT TO BE RETURNED	REQUIRED FOR BID EVALUATION	ONLY REQUIRED AFTER BID AWARD
<b>T2</b>	<b>Returnable schedules</b> (supplied with the bid document)		
T2.2.1	Compulsory Enterprise Questionnaire including SBD 4 and 6.1	•	
	<i>SBD 6.2 and Annexure C where local content designation if applicable</i>	•	
T2.2.2	Record of Addenda to Bid Documents	•	
T2.2.3	Proposed Subcontractors	•	
T2.2.4	Alternative Bid	•	
T2.2.5	Qualifications to Bid	•	
T2.2.6	Requirements with regard to fluctuations in the cost of labour and materials	•	
T2.2.7	FOB Prices of imported equipment/materials for which foreign exchange would be required and importing charges	•	
T2.2.8	Declaration of Insurance	•	
T2.2.9	Socio-Economic Development Plan	•	
T2.2.10	Record of Previous Experience, Quality of Workmanship and Safety	•	
T2.2.11	Human Resource Capacity Schedule	•	
T2.2.12	Equipment Resource Capacity (Plant and Equipment)	•	
T2.2.13	Safety, Health, and Environment	•	
T2.2.14	Details of Equipment (including manufacturer's data sheets and technical publications)	•	
T2.2.15	Recommended Spares, Special tools and servicing facilities	•	
T2.2.16	Project Risk Management	•	
T2.2.17	Penalty Table	•	
C1.1	Letter of Bid (Form of Offer and Acceptance)	•	

ITEM	DESCRIPTION OF DOCUMENT TO BE RETURNED	REQUIRED FOR BID EVALUATION	ONLY REQUIRED AFTER BID AWARD
C1.2	Contract Agreement		•
C2.2	Pricing Schedule / Bill of Quantities (BoQ) <b>The Bidder is required to submit the following:</b> <ul style="list-style-type: none"> <li>- Excel® format of the completed pricing schedule or BoQ in a compact disc (CD) or USB flash drive.</li> <li>- Printed format and signed version of the completed pricing schedule or BoQ.</li> </ul>	•	
C3.1	Dates for Delivery and Completion <b>NOTE: A DETAILED PROJECT PROGRAMME MUST BE INCLUDED WITH THE BID SUBMISSION</b>	•	
<b>R 1</b>	<b>Required documentation not issued with the bid document:</b>		
R 1.1	Certificate of Contractor Registration issued by CIDB OR A copy of the application form for registration in terms of the CIDB Act	•	
R 1.2	Proof of tax compliance status and a valid SARS Tax PIN		•
R 1.3	Letter of Good Standing from the Department of Labour or an Accredited Institution	•	
R 1.4	Performance Guarantee / Bond		•
R 1.5	Resolution Letter for the Main Contractor (a letter authorising the person completing the bid to sign on behalf of the company)	•	
R 1.6	Resolution Letter for the Subcontractor/s (a letter authorising the person completing the bid to sign on behalf of the company)	•	
R 1.7	<i>Signed</i> Subcontracting Agreement	•	
R 1.8	<i>3-year financial statements (audited where applicable)</i>	•	
R 1.9	Certified copy of B-BBEE Certificate or Certified copy of Sworn Affidavit for EMEs or QSEs	•	
R1.10	Main Contractor's internal Safety and Health Policy and Project Specific SHE Plan (compliance with the project specific SHE specification)	•	
R 1.11	Comprehensive SHEQ Plan (compliance with SHEQ Specification, including written agreement on Safety, Health and Environmental matters and all documents required for SHEQ compliance)		•
R1.12	Contractors' tools and Equipment Inventory		•
R1.13	Staff list		•
R1.14	Site Clearance Certificate		•
R1.15	Job Creation Report/Statistics (To be submitted Monthly)		•
R1.16	ISO 9001 Certification / proof of In-house Quality Management System (must include proof of a Document Control System and proof of a Non-conformity Management	•	

ITEM	DESCRIPTION OF DOCUMENT TO BE RETURNED	REQUIRED FOR BID EVALUATION	ONLY REQUIRED AFTER BID AWARD
	System) including Sample/template of Quality Control Plan and appointment of Quality Representative		
R1.17	Detailed Project Programme in the following: a) Gantt Chart Format b) Level 3 schedule activities c) Credible and Aligned to Rand Water's Programme d) Resource loaded schedule Monthly cash flows, project to completion.	•	
R1.18	Method Statement: <i>as per requirements under functionality.</i>	•	

**Table T2.1 List of Returnable Documents**

### T2.2.1. COMPULSORY ENTERPRISE QUESTIONNAIRE

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

<b>Section 1: Name of enterprise:</b>	
<b>Section 2: VAT registration number, if any:</b>	
<b>Section 3: CIDB registration number, if any:</b>	
<b>Section 4: CSD Number:</b>	

**Section 5: Particulars of sole proprietors and partners in partnerships:**

Name *	Identity Number *	Personal income tax number *

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

**Section 6: Particulars of companies and close corporations**

Company registration Number:	
Close Corporation number:	
Tax reference number:	

**Section 7: SBD 4 issued by National Treasury must be completed for this bid.**

**Section 8: SBD 6.1 issued by National Treasury must be completed for this bid.**

**Section 8: SBD 6.2 and Annexure C issued by National Treasury must be completed for this bid (if applicable).**

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

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

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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

**SBD 4**

**BIDDER'S DISCLOSURE**

**1. PURPOSE OF THE FORM**

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

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

**2. Bidder's declaration**

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</sup> in the enterprise, employed by the state? **YES/NO**

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

Full Name	Identity Number	Name of institution	State

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

- 2.2.1 If so, furnish particulars:

.....  
 .....

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

- 2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

YES/NO

- 2.3.1 If so, furnish particulars:

.....  
 .....

### 3 DECLARATION

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

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

<sup>2</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.





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

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

.....	.....
Signature	Date
.....	.....
Position	Name of bidder

## SBD 6.1

### 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 exceed R50 000 000 (all applicable taxes included) and therefore the 90/10. preference point system shall be applicable; or
  - b) Either the 80/20 or 90/10 preference point system will be applicable to this bid (*delete whichever is not applicable for this bid*).
- 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>   | 90         |
| <b>B-BBEE STATUS LEVEL OF CONTRIBUTOR</b>                | 10         |
| <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 Bidder to provide goods or services in accordance with specifications as set out in the bid documents.
- (g) **“prices”** 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. POINTS AWARDED FOR PRICE

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

A maximum of 90 points is allocated for price on the following basis:  
 90/10

$$P_s = 90 \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

- P<sub>s</sub> = Points scored for price of bid under consideration
- P<sub>t</sub> = Price of bid under consideration
- P<sub>min</sub> = Price of lowest acceptable bid

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

- 4.1 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)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

#### 5. BID DECLARATION

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

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

- 6.1 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.

#### 7. SUB-CONTRACTING

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

(*Tick applicable box*)

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

- 7.1.1 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		

**In the case of more than one sub-contractors, submit a list of sub-contractors with the above details (7.1.1)**

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

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

**8.4 TYPE OF COMPANY/ FIRM**

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

[TICK APPLICABLE BOX]

**8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....

.....

.....

.....

**8.6 COMPANY CLASSIFICATION**

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

[TICK APPLICABLE BOX]

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

- 8.8 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.

Name of Bidder: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
 behalf of Bidder: \_\_\_\_\_ Capacity: \_\_\_\_\_

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

## SBD 6.2

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

This Standard Bidding Document (SBD) 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 bids 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 bids 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:

	<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold (%)</u>
1.	Steel products and components	100%
2.	Electrical and Telecom cables	90%
3.	Valves products and actuators	70%
4.	Ceml to cemv or Masory Cement	100%

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. RW010400960/22**

**ISSUED BY: RAND WATER**

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).

Name of Bidder: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
 behalf of Bidder: \_\_\_\_\_ Capacity: \_\_\_\_\_



BID NUMBER. RW010400960/22  
BID DESCRIPTION: TURNKEY TENDER FOR REFURBISHMENT OF VARIOUS CHAMBERS ACROSS THE  
RAND WATER NETWORK PACKAGE 9

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Date:

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SATS 1286.2011

## Annex C

### Local Content Declaration - Summary Schedule

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

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

Pula  EU  GBP [illegible]

**Signature of tenderer from Annex B**

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

(C20) Total tender value	R 0	
(C21) Total Exempt imported content	R 0	
(C22) Total Tender value net of exempt imported content	R 0	
(C23) Total Imported content		R 0
(C24) Total local content		R 0
(C25) Average local content % of tender		



#### T2.2.2. RECORD OF ADDENDA TO BID DOCUMENT

We acknowledge receipt of communications from the Employer amending the bid document before the submission of this bid offer. We confirm that these amendments have been taken into account in this bid offer.

Notice Number	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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

### T2.2.3. PROPOSED SUBCONTRACTORS

We notify the Employer that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then on official award of Contract by the Employer to us, this list duly signed below shall be binding between us.

**The appointment of the proposed Subcontractors shall be subject to the approval of the Employer.**

Please note it is compulsory to declare the percentage of work to be completed by the Subcontractor.

Name and Address of Proposed Subcontractor	Nature and Extent of Work	Previous Experience with Subcontractor	CIDB Grading
1)			
2)			
3)			
4)			
5)			

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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

#### T2.2.4. ALTERNATIVE BID

- T2.2.4.1. Alternative bids will be accepted on the conditions described in [T1.2 Bid Data](#) (CIDB Clause C2.12)
- T2.2.4.2. Should the Bidder wish to submit an alternative bid he shall set out his proposals clearly hereunder or alternatively state them in a covering letter attached to his bid and referred to hereunder, failing which the bid will be deemed to be unqualified.
- T2.2.4.3. If no departures or modifications are described, the schedule shall be marked NIL and signed by the Bidder.

Page	Item	Proposed alternative	Price saving (if any) to the Employer if proposal is accepted

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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



Should the Bidder wish to qualify any aspect of the bid (e.g. limitations, assumptions, limited liability, etc.), he shall set out his terms clearly hereunder or alternatively state them in a covering letter attached to his bid and referred to hereunder, failing which the bid will be deemed to be unqualified.

If no qualifications are made, the schedule shall be marked NIL and signed by the Bidder.

[illegible]

Official Capacity:

#### T2.2.6. REQUIREMENTS WITH REGARD TO FLUCTUATIONS IN THE COST OF LABOUR AND MATERIALS

T2.2.6.1. The Bidder shall delete whichever of the following statements are not applicable to the bid. *Where the Bidder has not indicated the applicability of fluctuations, Rand Water shall regard the fluctuations as not applicable.*

FLUCTUATIONS IN - Wages and allowances: \*TO APPLY/NOT TO APPLY  
Price of materials: \*TO APPLY/NOT TO APPLY

\* Delete whichever is not applicable.

#### FORMULAE OR BASIS FOR THE ADJUSTMENT OF THE BID PRICE

If firm prices are not quoted the Bidder shall supply the following information:

T2.2.6.2. Formula by which the bid price is to be multiplied in order to arrive at the adjusted price:

.....  
.....

T2.2.6.3. Definition of all symbols used in the above formula:

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

T2.2.6.4. Any special materials or equipment to be excluded from the application of the formula stating the method and basis of price variation to be applied to such materials or equipment:

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

#### RECORDING OF WEATHER AND ABNORMAL RAINFALL

If during the time for completion of the works or any extension thereof abnormal rainfall or wet conditions shall occur then an extension of time in accordance hereof shall be granted by the Employer calculated in accordance with the formula given below for each calendar month or part thereof.



$$V = (Nw - Nn) + ((Rw - Rn)/X)$$

V	Extension of time in calendar days in respect of the calendar month under consideration.
Nw	Actual number of days during the calendar month on which a rainfall of Y mm or more has been recorded.
Nn	Average number of days, as derived from existing rainfall records, on which a rainfall of Y mm or more has been recorded for the calendar month.
Rw	Actual rainfall in mm recorded for the calendar month under consideration.
Rn	Average rainfall in mm for the calendar month as derived from existing rainfall records.

For purposes of the contract Nn, Rn, X and Y shall have those values assigned to them in the Contract Data and/or the Specification. The total extension of time shall be the algebraic sum of all monthly totals for the period under consideration, but if the total is negative the time for completion shall not be reduced due to subnormal rainfall. Extensions of time for part of a month to be calculated using pro rata values of Nn and Rn. This formula does not take account of flood damage that could cause further or concurrent delays and will be treated separately as far as extension of time is concerned.

The factor (Nw-Nn) shall be considered to represent a fair allowance for variations from the average number of days during which rainfall exceeds Y mm. The factor (Rw-Rn)/X shall be considered to represent a fair allowance for variations from the average in the number of days during which the rainfall did not exceed Y mm but wet conditions prevented or disrupted work.

The following average rainfall figures are applicable:

INFORMATION SOURCE: South African Weather Service  
Pretoria, Tel.: 082 233 8484

Y = 10 mm/24hour day; X = 20 mm

<b>STATISTICAL INFORMATION: (VEREENIGING Lat: - 26.5670 Long: 27.9500 Height: 1479m)</b>		
<b>STATION: 1991 - 2013 (Extracted 2014/09/04 08:15)</b>		
<b>Month</b>	<b>RAINFALL</b>	
	Nn = Average number of days during the calendar months in which a rainfall of more than Y-mm has been received	Rn = Average monthly rainfall
January	13.5	115.9
February	11.1	82.1
March	9.9	79.5
April	7.6	33.9
May	3.7	17.7
June	1.2	4.7
July	0.3	0.4
August	1.8	6.5
September	3.5	23.4
October	9.8	62.4
November	12.5	86.6
December	13.9	114.4
<b>Total</b>	<b>88.8</b>	<b>627.5</b>



The Contractor shall be permitted to take his own rainfall measurements on site subject to the Employer's representative approval, but access to the measuring gauge(s) shall be under the Employer's Representative 's control. The Contractor is to provide and install all the necessary equipment for accurately measuring the rainfall as well as to provide, erect and maintain a security fence plus gate, padlock and keys at each measuring station, all at his own cost.

Name of Bidder:

Signed by or on  
behalf of Bidder:

Official  
Capacity:

Date:

#### **T2.2.7. F O B PRICES OF IMPORTED EQUIPMENT/MATERIALS FOR WHICH FOREIGN EXCHANGE WOULD BE REQUIRED AND IMPORTING CHARGES**

- T2.2.7.1. The Bidder shall complete each schedule listing the F O B value of all items of equipment/materials for which foreign exchange would be required.
- T2.2.7.2. Bidders based on the supply of locally manufactured equipment and/or materials priced competitively, will be given preference by the Employer provided such equipment and/or materials, and the manufacture thereof, are of sufficiently high standard to meet the Employer's requirements.
- T2.2.7.3. If no items are to be imported or if firm prices are submitted the relevant section of the schedule shall be marked NIL. If the equipment contains imported equipment/materials then the Bidder shall complete the schedule listing the F O B value of all items of equipment/materials, which have been or are to be imported. Prices tendered for this imported equipment/material shall be quoted in **currency of origin**. It will therefore be the responsibility of the employer (Rand Water) to take out a Forward Cover for this imported equipment/material, when and if deemed prudent. All charges for the Employer's account referred to in the General Conditions of Contract and any changes in the rates of exchange will only be paid or allowed by the Employer in respect of items listed in this schedule. Bidder shall be expected to provide full documentation (i.e. Invoice, Bill of Lading, etc.) supporting foreign currency requirements for this imported equipment/material to support the Employer application to the SARB for the exchange control approval.
- T2.2.7.4. The Bidder shall sign each schedule.
- T2.2.7.5. For evaluation purposes, the prices of imported equipment/material sourced directly from outside South Africa quoted in currency of origin will be converted to Rand using the closing rate exchange rate published by SARB on the date, one week (7day calendar days) prior to the closing date for the Bidder.

"Imported content" means that portion of the price represented by the cost of components, parts or materials which have been, or are still to be imported (whether by the Bidder or his suppliers or Subcontractors) and which cost includes the overseas cost plus direct importation costs, such as freight, all landing charges, dock dues, import duties and the like at the South African port of entry, as well as inward transportation and handling to the factory in the Republic where the equipment offered is produced, manufactured, processed, assembled, packed or otherwise prepared.

The Bidder shall state in the appropriate column the F O B values of equipment/materials, which have already been imported, and which still have to be imported.

Item	Description and country of origin	Rate of exchange	F O B value	
			Already imported	To be imported
			R	R
Total F O B values				

**Table T2.2.7.1: F O B Prices**

The exchange rate to be used for conversion of the foreign content to local content shall be the closing exchange rate published by South African Reserve Bank (SARB) on the date, one week (7-day calendar days) prior to the closing date of the Bid.

IMPORT PERMIT: The Bidder shall state what arrangements have been or are to be made to obtain the necessary import permit(s).

Item	Rate	Total
PORT OF LANDING .....	R	R
Freight on ..... tons at		
Insurance on R .....		
Customs duty on R .....		
Landing charges on ..... tons at		
Wharfage on ..... tons at		
Forwarding and agency on ..... tons at		
Railage on ..... kg at		
Sundry importing charges .....		
TOTAL:		

**Table T2.2.7.2: F O B Prices**

Guaranteed date of shipping .....

Guaranteed date of delivery to railway authority .....

Name of Bidder: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
 behalf of Bidder: \_\_\_\_\_ Capacity: \_\_\_\_\_

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

#### T2.2.8. DECLARATION OF INSURANCES

I/We hereby declare that the insurance policies enumerated below have been effected by me/us in accordance with the Contract Data.

Cover effected	Insurer	Policy	Expiry date
COID			
Unemployment Insurance			
Employer's Liability			
Motor Vehicle Liability			
Contractor's Equipment			
Manufacturing/Fabrication Premises			
Professional Indemnity	as applicable		

**Table T2.2.8: Declaration of Insurance**

Copies of the abovementioned policies are attached.

In respect of COID, a copy of the current receipt and letter of good standing is attached.

Name of Contractor: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
 behalf of Contractor: \_\_\_\_\_ Capacity: \_\_\_\_\_

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

**NOTE:** This schedule shall be completed and submitted to Rand Water within 14 days from the commencement date of the contract and will serve as a condition precedent. The Contractor shall ensure that all policies are in place for the full period under the contract, and where policies need to be renewed and/or any changes effected, Rand Water is to be provided with the renewal confirmation and/or details of changes within 14 days of such renewal or changes.

## T2.2.9. SOCIO-ECONOMIC DEVELOPMENT

Rand Water intends to achieve the objective of promoting an environment that is health, safe, efficient, productive, harmonious, free from disruption and localises opportunities for communities in close proximity to the project. Such an environment will assist contractors in implementing the projects successfully. All contractors, subcontractors (including SMMEs) and site service providers within the project have a role and responsibility in achieving this objective. Accordingly, the Main Contractor is wholly responsible in ensuring the provision, implementation and maintenance of the required socio-economic deliverables, as approved by Rand Water.

The Bidder shall submit a plan with regard to SED targets set by Rand Water for each respective SED element during the Request for Bid (RFB) phase. Bidders have to submit SED plans as part of their proposals in reaction to the RFB. Bidders are required to demonstrate through their SED plans how the involvement of black persons and historically disadvantaged individuals (HDIs) will be secured, as well as their commitment to the respective SED elements.

Rand Water regards the **local-to-site area** as historically disadvantaged areas in the district municipality. In areas that are not demarcated according to district municipalities, the historically disadvantaged areas in the metropolitan municipalities shall be regarded as local-to-site areas.

Key performance areas and deliverables on SED are outlined as follows:

ITEM NO.	KEY PERFORMANCE AREAS	DELIVERABLES
1.	<b>Participation of Local Enterprises</b>	<ul style="list-style-type: none"> <li>The Bidder must ensure that in the project implementation plan the following target is prioritized and this must be clearly outlined in the declaration of intent:               <ul style="list-style-type: none"> <li><b>Work allocation to local enterprises</b>                    A minimum of 5% of the total work <del>will</del> be allocated to local black owned enterprises. The Bidder must specify in the SED plan the work items to be allocated to local enterprises that are minimum 51% black owned. This plan must also indicate the Rand value and the scope of work. Rand Water's Database of Local Business for the target area/s will be availed.</li> </ul> </li> </ul>
2.	<b>Job Creation</b>	<ul style="list-style-type: none"> <li>The Bidder's workforce in the project must consist of locals (historically disadvantaged) as follows:               <ul style="list-style-type: none"> <li>Unskilled Labourers: 100% (50% women, 50% youth)</li> <li>Semi-skilled: a minimum of 30% (50% women, 50% youth)</li> <li>Skilled: a minimum of 25% (50% women, 50% youth)</li> </ul> </li> <li>The method of recruitment must be pre-approved by Rand Water.</li> <li>It is acknowledged that people will be employed on a part-time basis in many instances. It is however required that employees who were employed at the unskilled level exit with a certificate of completion of accredited training.</li> </ul>

Commented [IM1]: Should this not be total contract value?

ITEM NO.	KEY PERFORMANCE AREAS	DELIVERABLES
		<ul style="list-style-type: none"> <li>A recruitment plan must be submitted which will indicate how the employment of local labour will be achieved versus the Bidder's existing (permanent) and seconded labour which will be assigned to the project.</li> </ul>
3.	<b>Skills Development</b>	<ul style="list-style-type: none"> <li>The Bidder must submit a proposed skills development programme targeting the following levels: <ul style="list-style-type: none"> <li>Unskilled to Semi-skilled (50% Youth, 50% Women)</li> <li>Undergraduate (50% Youth, 50% Women)</li> <li>Graduate (50% Youth, 50% Women)</li> </ul> </li> <li>The proposed programmes must be accredited, giving credit value to the beneficiaries. The programmes must incorporate workplace learning and/or on-the-job training with the theoretical knowledge provided.</li> <li>Programmes can only be implemented once approval has been provided by Rand Water.</li> </ul>
4.	<b>Social Responsibility</b>	<ul style="list-style-type: none"> <li>A programme must be structured to ensure effective delivery to address identified community needs in a significant and sustainable manner.</li> <li>The Bidder must submit proposed social responsibility initiative/s which could be rolled out across the project duration and must have impact beyond the project implementation. Examples may include Cooperative Development, NGO Support, School Support</li> <li>Programmes can only be implemented once approval has been provided by Rand Water.</li> </ul>
5.	<b>Social Facilitation</b>	<ul style="list-style-type: none"> <li>A key component in aiding the realisation of the SED objectives is effective community liaison with all the relevant role-players, structures, civic organisations and the community at large.</li> <li>Provision must be made for a Community Liaison Officer (CLO) for the duration of the project. The CLO must be sourced locally.</li> </ul>

The Bidder agrees to adhere to the Rand Water's SED requirements.

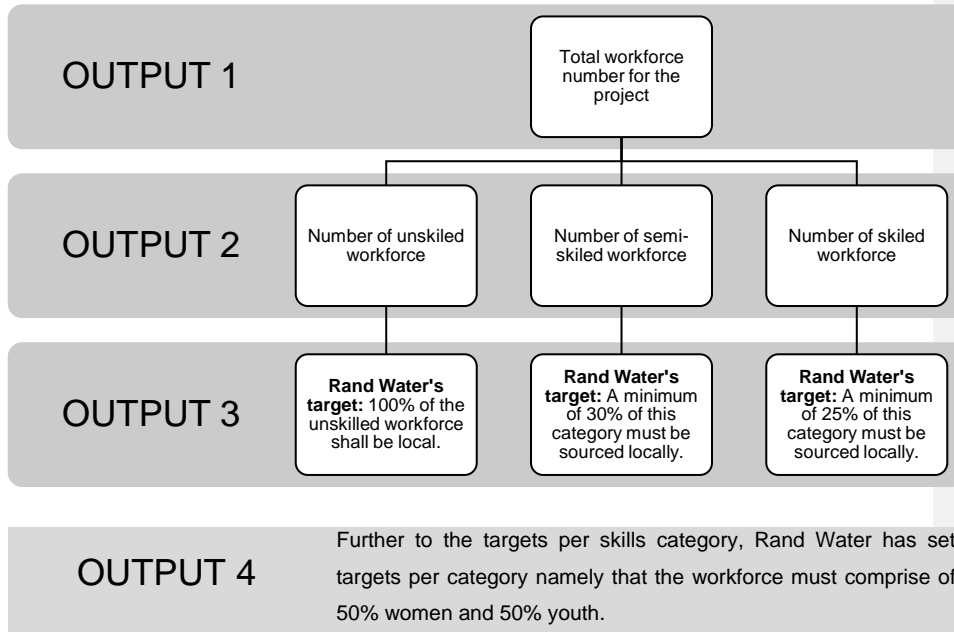
Name of Bidder: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
behalf of Bidder: \_\_\_\_\_ Capacity: \_\_\_\_\_

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

#### T2.2.9.1. JOB CREATION REQUIREMENT

The Bidder's recruitment plan must indicate the following information:



The Bidder must ensure that the required recruitment plan adheres to the requirements of this section and must also include a proposed method of recruitment.

The Bidder agrees to adhere to the Rand Water's SED requirements.

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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



### T2.2.9.2 SED MATRIX

KEY PERFORMANCE AREA	INDICATOR	MEASURE	TARGET	QUANTITY	COST	TIMELINE			COMMENTS
						START	END	DURATION	
<b>Job Creation</b>  <b>Total workforce number for the project:</b>  <i>(insert)</i>  .....	Employment: Unskilled  <b>Insert Rate:</b> .....	Percentage of total projected workforce in the skills category	100%						
	Employment: Semi-skilled  <b>Insert Rate:</b> .....	Percentage of total projected workforce in the skills category	Minimum 30%						
	Employment: Skilled  <b>Insert Rate:</b> .....	Percentage of total projected workforce in the skills category	Minimum 25%						
<b>Skills Development</b>	Accredited Training Programmes: Unskilled <b>(MANDATORY)</b>	Rand Value	Rand value in the BoQ						
		Number of unskilled people trained on accredited training	Number of unskilled indicated in the Bidder's recruitment plan						
	Work Integrated Learning: Undergraduates	Rand Value	Rand value in the BoQ						
		Number of undergraduates trained and provided workplace experience	Number of unskilled indicated in the Bidder's recruitment plan						
	Professionalisation Programmes: Graduates	Rand Value	Rand value in the BoQ						
		Number of graduates trained and provided	Number of unskilled indicated in the Bidder's						

KEY PERFORMANCE AREA	INDICATOR	MEASURE	TARGET	QUANTITY	COST	TIMELINE			COMMENTS
						START	END	DURATION	
		workplace experience	recruitment plan						
<b>Social Responsibility</b>	Community development initiatives	Rand value	Rand value in the BoQ						
<b>Social Facilitation</b>	Appointment of CLOs	Rand value	Rand value in the BoQ						
<b>Participation of Local Enterprises</b>	Work allocated to local enterprises that are 51% black owned	Rand value	Rand value in the BoQ						
	Procurement of non-core services and materials from local enterprises that are a minimum 51% black owned	Rand value	100%						
<b>TOTALS</b>					The Bidder must indicate the total cost				

Rand Water will commence the monitoring of SED implementation three (3) months after the acceptance of the letter of award by the successful Bidder. The Bidder agrees to adhere to the Rand Water's SED requirements.

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_

Official

Capacity: \_\_\_\_\_

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

### T2.2.9.3. SED CHECKLIST

All items in this checklist must be completed. If any of the items are not addressed as required (i.e. indicated as "No" or no attachment where an attachment is required), the Bidder's submission will be deemed non-responsive.

	ITEM	REQUIREMENT	YES	NO
1.	<b>Job Creation</b>	Attach the Recruitment Plan (refer to T2.2.13.1)		
2.	<b>Skills Development</b>	Attach a comprehensive proposal for training programmes for unskilled, undergraduate and graduate, as applicable.  The provision of accredited training for the unskilled group is a <b>mandatory</b> requirement.		
3.	<b>Social Responsibility</b>	Attach a comprehensive proposal for local community development.		
4.	<b>Participation of Local Enterprises</b>	<ul style="list-style-type: none"> <li>The work highlighted for Participation of Local Enterprises is work that must be issued to local enterprises that are a minimum 51% black owned. This is a minimum. The Bidder must ensure that the work to be allocated to local enterprises amounts to a minimum of 5% of the whole work. This must be indicated clearly in the Bidder's SED plan.</li> <li>The sourcing of local enterprise shall be a competitive process. The method of sourcing must be pre-approved by Rand Water.</li> <li>Attach a procurement plan for non-core services and materials required. Rand Water's target is that the Bidder must procure 100% of these services and materials from local enterprises that are a minimum 51% black owned.</li> </ul>		
5.	<b>Social Facilitation</b>	The Bidder must provide the costing with reference to BoQ.		

The Bidder agrees to adhere to the Rand Water's SED requirements.

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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

## T2.2.10. RECORD OF PREVIOUS EXPERIENCE, QUALITY OF WORKMANSHIP AND SAFETY

The Bidder shall provide details of **completed** works (similar to the work set out in this bid). Individuals listed as references must be contactable and willing to provide information relating to the performance of the Bidder (in terms of safety and health, workmanship, documentation, timeous completion, etc.) In order to verify the quality of workmanship, an inspection of the works may also be undertaken should Rand Water deem it necessary.

The Bidder must take into cognisance the functionality criteria in providing the record of previous experience. Information must be provided in the following format:

Description of Works	
Project Title :	
High level project description:	
Client :	
Contract No. :	
Contract Value (excl. VAT) :	
Role <sup>(Note 1)</sup> :	
Award Date :	
Completion Date :	
Location of Works :	
Project Manager :	
Construction Manager :	
Contact Details of Reference at Client Company	
Name :	
Position Held :	
Tel :	Cell :
Fax :	email :
<small>Note 1 – Role refers to the Contractor's responsibility w.r.t. the claimed experience. For example Single Contractor, Main Contractor but with electrical sub – contractor, Sub – contractor for civil construction etc.</small>	

Name of Bidder: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
behalf of Bidder: \_\_\_\_\_ Capacity: \_\_\_\_\_

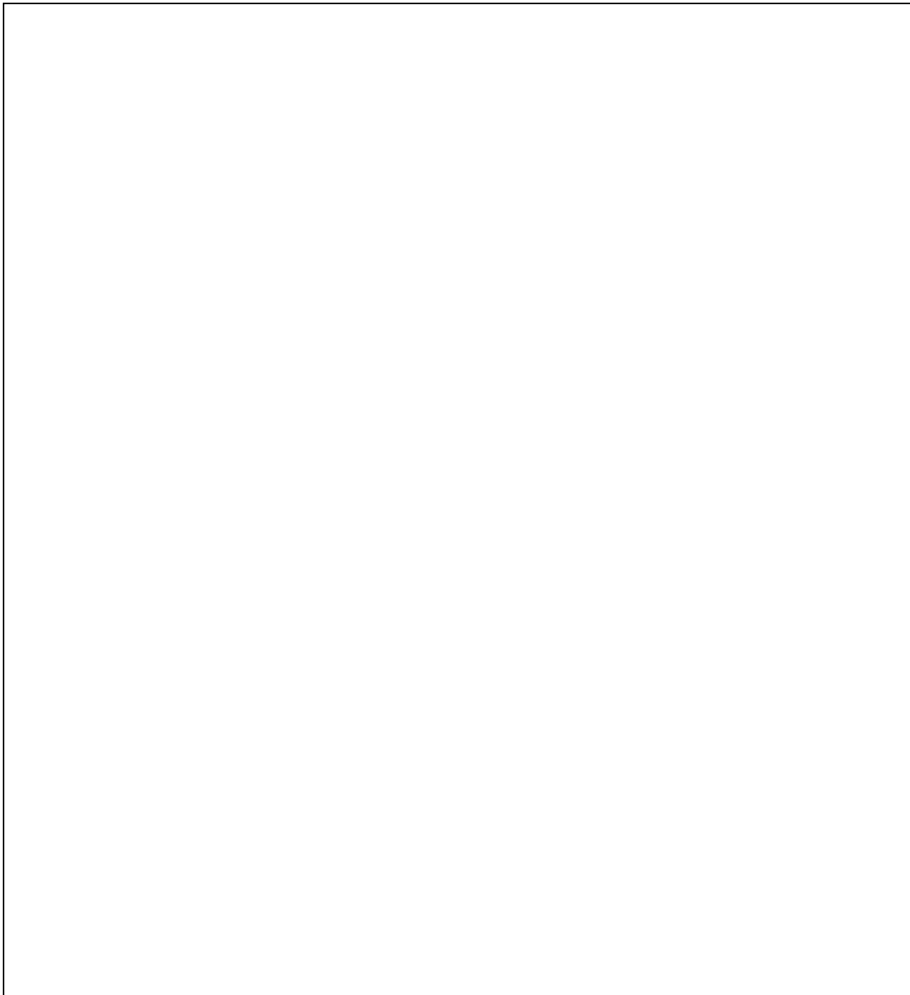
Date: \_\_\_\_\_

**T2.2.11. HUMAN RESOURCE CAPACITY SCHEDULE**

The aspects covered by T2.2.11.1, T2.2.12.2 and T2.2.12.3 will be viewed in conjunction with each other to establish an overall picture of the Bidder's capacity and ability to undertake the work specified in this document.

**T2.2.11.1. Project Team Organogram vs. Company Organogram**

The Bidder shall detail in the block below their company organogram and the Resources dedicated to this contract must be clearly indicated. In addition, sub-contractor and Joint-Venture arrangements must be clearly indicated:



cont.

[illegible]

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### T2.2.11.3. List of Current Contracts (Workload)

Contract or Work Title	Client	Contract Value (excl. VAT)	Role <sup>NOTE 1</sup>	Progress
				Award Date: Completion Date: % Complete: Stage <sup>NOTE2</sup> :
				Award Date: Completion Date: % Complete: Stage <sup>NOTE2</sup> :
				Award Date: Completion Date: % Complete: Stage <sup>NOTE2</sup> :
				Award Date: Completion Date: % Complete: Stage <sup>NOTE2</sup> :
				Award Date: Completion Date: % Complete: Stage <sup>NOTE2</sup> :
<p>NOTES</p> <p>1. Role refers to the Contractor's responsibility w.r.t. the claimed experience for example Single Contractor, Main Contractor but with Electrical subcontractor, Sub-contractor for civil construction etc.</p> <p>2. Stage refers to the current stage of the work (example design, procurement, construction, installation, commissioning, handed over, in Defects Liability Period etc.)</p> <p>3. Attach additional signed copies of this schedule if insufficient space is available.</p>				

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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



The following are lists of major items of relevant equipment that are presently owned / leased / hired or planned to be purchased / leased / hired and will be available for this contract if the bid is accepted:

[illegible]

Name of Bidder: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
behalf of Bidder: Capacity: \_\_\_\_\_

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



## T2.2.13. SAFETY, HEALTH, AND ENVIRONMENT

### 1. Safety, Health and Environment Policy

Bidders shall submit a copy of their company's internal Safety, Health and Environment Policy.

### 2. Safety, Health and Environment (SHE) Plan

Bidders shall submit the project specific SHE plan as per the project specific SHE Specification

### 3. Safety, Health and Environment (SHE) Risk assessment

Bidders shall submit the project specific SHE risk assessment.

### 4. Construction Health and Safety Manager / or Officer

Bidders shall submit the details of the name and particulars of the person proposed to be appointed as the Construction Health and Safety Manager/or Officer (include proof of registration with SACPCMP).

### 5. DIFR Status

Bidders shall furnish their DIFR Status for 2 years in the table below, based on the following formula.

$$DIFR \text{ (annual)} = \frac{(\text{Number of Disabling Injuries})(200000)}{(\text{Number of Hours Worked})}$$

Number of Hours Worked (annual) = Total Number of Employees x Average Hours Worked per Employee per Year

	Current Year	Last Year
Number of Disabling Injuries		
Total Number of Employees		
Average Hours Worked per Employee per Year		
Number of Hours Worked per Year		
Calculated DIFR		

Table T2.2.17: Safety, Health, and Environment

Name of Bidder:

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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

[illegible]

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**T2.2.15. RECOMMENDED SPARES, SPECIAL TOOLS AND SERVICING FACILITIES**

Number recommended	Description	Price each
		R

SERVICING FACILITIES (Name and address of depot and available facilities).

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

Special tools provided .....

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

Name of Bidder: \_\_\_\_\_

Signed by or on \_\_\_\_\_ Official  
behalf of Bidder: \_\_\_\_\_ Capacity: \_\_\_\_\_

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

### T2.2.16. PROJECT RISK MANAGEMENT

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
1	Feasibility stage	Delays in Access to sites	Encroachments by Private Property Owners	Chambers to be rehabilitated not accessible on time	Delays in commencement. Or increase in project costs	Medium	High		
2	Feasibility Stage	Interested and Affected parties	Stiff Opposition from I and A parties to project implementation	Regulatory Compliance required for the project to commence may not be acquired in time	Delays in commencement. Or increase in project costs	Medium	High		
3	Design Phase	Poor Performance of newly constructed assets, not able to perform their functional requirements	Lack of Design Experience for the Design Team	Incomplete Designs	Threat	Medium	Medium		

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
4	Design Phase	Intellectual property of the Organisation sitting with third party individuals	Lack of Non-Disclosure agreement at the start of the project	Loss of project information since the contractor will be handling bulk of the designs	Threat	Low	Medium		
5	Design Phase	Extended Design Review Period	Submission of poor design reports and packages by the contractor	Extension of time to complete the project Cost Overrun	Threat	Low	Medium		
6	Design Phase	Lack of integration across disciplines and across other linked projects	Submission of incoherent design reports and packages by the contractor	Re-work of the design to accommodate impact of design changes in one discipline.	Threat	Low	Medium		

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
7	Design Phase	Inadequacy of information	Lack of adequate existing information such as as-built drawings, service detection, geotechnical studies	Extended time during site verification, scoping of the works compilation	Threat	Medium	Medium		
8	Implementation Phase	Delay in obtaining Construction Permits from Dept of Labour	Lack of adequate information required by the Dept	Extended construction period	threat	Medium	Medium		
10	External	Community strike	Non agreement with local community requirements	Project delayed	Threat	Medium	Very High		

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
11	External	Community strike	Lack of proper communication	Delays, work stoppages Riots/strikes, vandalism, risk to property and personnel	Threat	Medium	Very High		
12	Construction	Community strike	Contractor damages Rand Water infrastructure during construction	Project cost increase	Threat	Medium	Very High		
13	Construction	Delay in delivery of equipment and machinery	Long lead times	Project delay	Threat	High	High		

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
14	Construction	Differing site conditions/ underground conditions	Unexpected services encountered construction/ unknown conditions	Increase cost	Threat	High	Medium		
15	Construction	Damage to the works	Flooding of the works due to major rainfall events/ leaking pipelines	Collapsing of trench walls, negative time impact due to re-work	Threat	Medium	High		
16	Construction	Interfacing with live pipeline	Delays in pipeline shutdowns	Project delay or project cost increase	Threat	High	High		



PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
17	Construction	Damage to property	Contractor damages Rand Water infrastructure during construction	Project cost increase	Threat	High	High		
18	Construction	Adverse weather conditions	Rain fall, winds and extreme cold weather	Delay	Threat	Medium	High		
19	Construction	Breakdown of critical equipment	Poor maintenance, quality of equipment, suitability of equipment	Negative time impact	Threat	Low	Medium		

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
20	Human Resources	Key staff resign	Working conditions, work pressure, remuneration	Negative time impact	Threat	Low	Medium		
21	Human Resources	Strike action by labour force	Union strike, site working conditions	Negative time impact	Threat	Medium	High		
22	Safety	Life threatening/ other injury to personnel	Not adhering to Safety Plan and/or OH & S Act or Construction Regulations	Loss of life, site closed	Threat	High	High		

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
23	Safety	Employees falling into trenches	Floods/ Insufficient PPE/ Unsafe Work area	Work disruption	Threat	Medium	High		
24	Safety	Moving Equipment injuring personnel	Construction Machinery moving Not adhering to the traffic plan	Loss of life, injury to personnel, site closed	Threat	High	High		
25	Safety	Drowning	Chamber flooded/ Unsafe Work area	Loss of life, injury to personnel, site closed	Threat	Medium	High		

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS
RISKS IDENTIFIED BY THE BIDDER									

PROJECT RISK MANAGEMENT REGISTER FOR CONTRACT									
Please fill in the blank columns labelled Response Strategy and Response Action for each Risk Event listed in the table below:									
RISK IDENTIFICATION						QUALITATIVE RISK ASSESSMENT		RISK RESPONSE PLAN	
#	RISK CATEGORY	RISK EVENT	CAUSE	EFFECT	THREAT OR OPPORTUNITY	PROBABILITY	IMPACT	RESPONSE STRATEGY	RESPONSE ACTIONS

Name of Bidder: \_\_\_\_\_

Signed by or on  
behalf of Bidder: \_\_\_\_\_

Official  
Capacity: \_\_\_\_\_

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

## T2.2.17. PENALTY TABLE

The Bidder is required to acknowledge the penalty table by signing this schedule.

PENALTY TABLES					
DELAYS ON ITEMS ATTRACTING PENALTIES	Value of Contract (Excl VAT.) in millions R				
	<1	≥1<5	≥5<20	≥20<50	≥50
PROGRAMME AND PRELIMINARY DOCUMENTS (Rand's per day delay)	1 000	5 000	10 000	10 000	10 000
DRAWINGS AND DESIGN PACK (Rand's per day delay)	2 500	10 000	15 000	20 000	25 000
SECTIONAL COMPLETION	1% of the value of the outstanding work/ week				
OVERALL COMPLETION	1% of the value of the outstanding work/ week				
COMMISSIONING (Rand's per day delay)	5 000	10 000	15 000	20 000	25 000
REMEDYING OF DEFECTS					
a) Critical to asset functioning/ running (Rand's per day delay)	5 000	25 000	50 000	50 000	50 000
b) Not critical to asset functioning/ running (Rand's per day delay)	500	2 500	5 000	5 000	5 000
SHEQ					
a) SHEQ non-conformances, corrective and preventative actions not resolved within the agreed target dates	500	2 500	5 000	5 000	5 000
Agreed target dates exceeding 5 working days					
b) Non-reporting of SHEQ incidents and statistics within the required timeframe	500	2 500	2 500	5 000	5 000
Within a shift / Within 24 hrs					
c) Repeat SHEQ non conformances	1 000	5 000	10 000	10 000	10 000
d) Overtime Work without the required approvals during Construction phase (Rands)	1 000	5 000	10 000	10 000	10 000
SED Implementation					
Failure to implement SED objectives (Rands per day delay)	1 000	5 000	10 000	10 000	10 000

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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

## SECTION B: CONTRACT

### PART C1: AGREEMENT AND CONTRACT DATA

#### C1.1. FORM OF OFFER AND ACCEPTANCE

##### C1.1.1. LETTER OF BID

###### LETTER OF BID

DESCRIPTION: TENDER FOR REFURBISHMENT OF VARIOUS CHAMBERS ACROSS THE RAND WATER NETWORK

BID NO: RW 010400960/22

TO: The Bid Submission Box  
 Rand Water Head Office  
 522 Impala Road  
 Glenvista  
 Johannesburg  
 Attention: Sandisile Zulu

We have examined the Conditions of Contract, Specifications, Drawings, Schedules, the attached Appendix and Addenda No.'s ..... for the execution of the above named Works. We offer to execute and complete the Works and remedy any defects therein in conformity with this Bid which includes all said documents, for the total sum of in South **African Rand** (ZAR \_\_\_\_\_)

(\_\_\_\_\_)

**Amount in Words inclusive of all taxes)** or such other sum as may be determined in accordance with the Conditions of Contract.

The total ZAR value quoted above, to include the sum of imported equipment/material sourced directly from outside South Africa. The applicable currency of origin/s must be converted to South African Rand (ZAR) using the closing rate of exchange as published by SARB on the date, one week (7 day calendar days) prior to the closing date for the Bid.

**The Bidder shall further complete the offer/letter and stipulate the sum in the currency of origin (i.e. Euro, USD, GBP or any other currency) as noted below.**

for the sum of in **Euro** (€ \_\_\_\_\_)  
 (\_\_\_\_\_ **Amount in Words inclusive of all taxes\*)**

or such other sum as may be determined in accordance with the Conditions of Contract.



for the sum of in **USD** (\$ \_\_\_\_\_)  
( \_\_\_\_\_ **Amount in Words inclusive of all taxes**  
)  
)  
or such other sum as may be determined in accordance with the Conditions of Contract.

for the sum of in **GBP** (£ \_\_\_\_\_)  
( \_\_\_\_\_ **Amount in Words inclusive of all taxes**  
)  
)  
or such other sum as may be determined in accordance with the Conditions of Contract.

for the sum of in **any other currency** \_\_\_\_\_  
( \_\_\_\_\_ **Amount in Words inclusive of all taxes** \*)  
)  
or such other sum as may be determined in accordance with the Conditions of Contract.

**\*Applies to international suppliers that are registered for all taxes in South Africa**

We accept your suggestions for the appointment of the DAB.

We agree to abide by this Bid for a period of **180** days from the Submission Date and Time for Bids and it shall remain binding upon us and may be accepted at any time before that date. We acknowledge that the Appendix forms part of this Letter of Bid.

If this offer is accepted, we will provide the specified Performance Security, commence the Works as soon as is reasonably practicable after the Commencement Date, and complete the Works in accordance with the above-named documents within the Time for Completion.

Unless and until a formal Agreement is prepared and executed this Letter of Bid, together with your written acceptance thereof, shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Signature..... in the capacity of.....

duly authorized to sign bids for and on behalf of.....

Address: .....

Date:.....

Signature of Witness: \_\_\_\_\_

Signature of Witness: \_\_\_\_\_

Name of Witness: \_\_\_\_\_

Name of Witness: \_\_\_\_\_



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

#### C1.1.2. CONTRACT AGREEMENT

This Agreement made on the \_\_\_\_\_ day of (month) \_\_\_\_\_ (year) \_\_\_\_\_  
between

**RAND WATER**

(hereinafter called "the Employer")

And

\_\_\_\_\_  
(hereinafter called "the Contractor").

Whereas the Employer desires that the Works known as Tender for Refurbishment of Various Chambers across the Rand Water Network Package 9 should be executed by the Contractor, and has accepted a bid by the Contractor for the execution and completion of these Works and the remedying of any defects therein,

**The Employer and the Contractor agree as follows:**

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement:
  - a. The Letter of Award
  - b. The Letter of Bid
  - c. The Conditions of Contract
  - d. The Employer's Requirements
  - e. The Returnable Schedules
  - f. The Contractor's Proposal
  - g. The Bid Addenda (where applicable)
  - h. Additional Information Provided by Contractor (where applicable)

3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein, in conformity with the provisions of the Contract.

4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works and the remedying of defects therein, the Contract Price at the times and in the manner prescribed by the Contract.

Authorised signature of Employer

Authorised signature of Contractor

\_\_\_\_\_  
for and on behalf of the Employer

\_\_\_\_\_  
for and on behalf of the Contractor

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: **CHIEF EXECUTIVE**

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

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

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

In the presence of the undersigned witnesses:

Name: \_\_\_\_\_

Name: \_\_\_\_\_

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

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

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

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

## C1.2. CONTRACT DATA

### C1.2.1. GENERAL CONDITIONS

#### PREAMBLE:

This Engineering Procurement Construction ("EPC") template has been created for the purpose of providing a standardized document to be used in the sourcing of the Turnkey Contractor (s) for the execution of the infrastructure deliver sourcing model namely: Integrated Execution Programme;

Rand Water as the Employer uses a Red and Yellow Book as their conditions of contracts for infrastructure projects, however for the implementation of the Integrated Execution, the contracting strategy has changed as influenced by the complexity and the size of projects to be executed.

The Conditions of Contract are the "General Conditions" which form part of the "Conditions of Contract for EPC/Turnkey Projects ("Silver book") Second edition 2017" published by the Federation Internationale Des Ingenieurs – Conseils (FIDIC) and the "Particular Conditions" will be applicable and shall be used.

The Employer shall appoint a single contractor (meaning on contractor, a joint venture, or consortium) a turnkey contract, where an employer hands full responsibility over to the contractor for all design, engineering, and construction. This approach expects the employer to "wait for the keys" and to have little day-to-day management of the project as work progresses.

Now therefore, it is recorded as that the following approach to the procurement of Works has been adopted and should be recorded therein

- (i) where the Contractor is to take total responsibility for the design and execution of building or engineering works,
- (ii) At the onset, it is worth noting that the Employer's Requirements shall include an outline design for the Works, in that some of the packages have a significant amount of design work that has been done by the Employer from concept, preliminary to detailed design;
- (iii) In such circumstances, the Employer aver and notwithstanding the fact that this is a turnkey contract, the Employer elects to issue the aforementioned designs to the Contractor during the tender stage with the proviso that the Contractor shall be:
  - deemed to have scrutinized, verified and satisfied him/herself with the accuracy of the information;
  - shall take on full responsibility for such design; the contractor being responsible both for the integration of the design and the construction of the works.
  - the contractor shall make necessary amendments to the aforementioned design works;
  - the Employer shall not be responsible for any error, inaccuracy or omission of any kind in the Employer's Requirements and shall not be deemed to have given any representation of accuracy and completeness of data;
  - Full accountability and responsibility shall pass to the Contractor.

#### NB

#### PART 2 –

##### Joint Ventures / Consortiums:

- Bidder shall be a firm that is a private entity or a company or any combination of such entities in the form of a Joint Venture / Consortiums or a similar entity. In this case, a signed Joint Venture agreement or a letter of intent must be submitted as part of the returnable documents.

- Bidders who submit as a combined entity must ensure that they incorporate a Joint Venture upon award to ensure that the contract is executed by an entity with a legal *persona* (Please see conditions precedents below). There is no limit on the number of members in a JV.
- During the bidding process, the employer will accept unincorporated entities in the form of JV and Consortiums. However, signed agreements or a letter of intent must be submitted with the bid.
- In the case of a Joint Venture or Consortiums or similar entity, all members/partners shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms.
- The member/partners shall nominate a Representative who shall have the authority to conduct all business for and on behalf of all the members of the Joint Venture or Consortium or similar entity during the Bidding process.

#### CONDITIONS PRECEDENTS

- It is the employers' requirements that, in the event the Joint Venture, Consortium or similar entity is awarded the Contract, it shall within 30 days from the date of issuance of the letter of award, submit the following:
  1. In case of entities which only submitted letters of intent, bidders must submit signed agreements;
  2. Bidders must further submit proof of incorporation of the entity confirming incorporation either as Joint Venture, Consortium or similar entity.
- Failure to incorporate shall forthwith render the appointment and or award null and void and Rand Water shall terminate the agreement with immediate effect.

#### PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS

##### - General Conditions (GC)

This Section refers to the "General Conditions" which form part of the "Conditions of Contract for EPC/Turnkey Projects ("Silver book") "Second Edition 2017" published by the *Fédération Internationale des Ingénieurs-Conseils* (FIDIC). **The text of the certain identified clauses of these General Conditions shall be modified to align with business operations of the Employer.** **The appointed Contractor must obtain** an original copy of the above FIDIC "*Conditions of the Contract for EPC/Turnkey Projects*".

## Particular Conditions (PC)

The following Particular Conditions shall supplement the General Conditions. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions.

The General Conditions of Contract applicable to this Contract are the "General Conditions" which form part of the "Conditions of Contract for EPC / TURNKEY PROJECTS"

### *Second Edition 2017*

As published by the Federation Internationale des Ingenieurs-Conseils (FIDIC)

## C1.2.2. PARTICULAR CONDITIONS

The General Conditions shall be amended by the Particular Conditions of Contract as detailed herein.

The following clauses – of the Conditions of Contract for EPC / Turnkey Projects", First Edition 1999, published by the Federation Internationale des Ingenieurs-Conseils (FIDIC) shall be amended as stated below:

### 1. GENERAL PROVISIONS

#### 1.1 Definitions

##### 1.1.1 The Contract

1.1.1.2 Delete this definition and replace with the following:

"**Contract Agreement**" means the contract agreement referred to in Sub-Clause 1.6 [Contract Agreement].

##### 1.1.2 Parties and Persons

1.1.2.2 Delete this definition and replace with the following:

"**Employer**" means Rand Water which is a body corporate established in terms of Section 83 of the Water Services Act 107 of 1997.

##### 1.1.3 Dates, Tests, Periods and Completion

1.1.3.2 Delete this definition and replace with the following:

"**Commencement Date**" means the date notified under Sub-Clause 8.1 [Commencement of the Works] save where otherwise defined in the Contract Agreement.

##### 1.1.4 Money and Payment

1.1.4.1 Delete this definition and replace with the following: "**Accepted Contract Amount**" means the amount accepted in the Letter of Acceptance, or the amount recorded in the Contract Agreement if there is no Letter of Acceptance, for the execution and completion of the Works and the remedying of any defects.

##### 1.1.6 Other Definitions

1.1.6.2 Delete this definition and replace with the following:

"**Country**" means the Republic of South Africa.

1.1.6.7 Delete this definition and replace with the following:

"**Site**" means the places where the Permanent Works are to be executed and to which Plant and Materials are to be delivered.

#### 1.2 Interpretation

The following is added at the end of this Sub-Clause:

"In these Conditions, provisions including the expression "Cost plus reasonable profit" require this profit to be one-twentieth (5%) of this Cost."

#### 1.4 Law and Language

Delete this Sub-Clause and replace with the following:

"The Contract shall be governed, construed and interpreted in accordance with the Laws of the Republic of South Africa. The language of the Contract shall be English."

#### 1.6 Contract Agreement

Delete this Sub-Clause and replace with the following:

"The Contractor shall within a reasonable time after having been called upon to do so, enter into and execute a Contract Agreement."

#### 1.8 Care and Supply of Documents

Delete the first sentence of the second paragraph of this Sub-Clause and replace with the following:

"Each of the Contractor's Documents as well as the SHERQ File shall be in the custody and care of the Contractor, unless and until taken over by the Employer."

#### 1.10 Employer's Use of Contractor's Documents

Delete this Sub-Clause and replace with the following:

"For the purposes of this clause, Intellectual Property means statutory and common law proprietary rights in respect of patents, designs, copyright, know how, confidential information, domain names, drawings, data and all other rights in respect of Intellectual Property compiled, created or prepared in execution of the Works to be performed in terms of the Agreement.

As between the Parties, all rights, title and interest and copyright in and to any Intellectual Property, and other intellectual property rights in the Contractor's documents and other design documents made by (or on

behalf of) the Contractor and in and to any and all documents prepared in connection with the Agreement shall vest in the Employer."

#### **1.12 Confidential Details**

The following is added at the end of this Sub-Clause:

"Unless otherwise provided for in the Agreement, and with the exception of those matters set out herein below, the Parties warrant that each shall keep confidential all matters relating to the Works, and that the Parties, their employees, agents and servants shall not divulge or disclose to any organisation or any person any information, data, documents, secrets, dealings, transactions or affairs relating to or incidental to the Works.

The obligation of confidentiality shall not apply to the following:

- (a) any matter generally available in the public domain otherwise than as a result of a breach of this clause;
- (b) any disclosure which may reasonably be required for the performance of that Party's obligations under the Agreement;
- (c) disclosure of information which is required by statute, regulation or any other law;
- (d) the provision of information to contractors, consultants, sub-contractors or suppliers for purposes of executing the Works, provided that the obligations of confidentiality herein shall be imposed mutatis mutandis upon such contractors, consultants, sub-contractors or suppliers in their respective contracts; and
- (e) the provision of information to any third person with the express written permission of the other Party."

#### **1.13 Compliance with Laws**

The following is added at the end of this Sub-Clause:

"The Contractor shall at all times conform in all respects with the provisions of any Act of Parliament, Regulations, Bye-law of any Local or any other Statutory Authority or other Enactment having the force of law which may be applicable to the performance of its obligations under the Contract and shall indemnify, and keep indemnified the Employer, against damages that it may suffer as a result of any breach by the Contractor, its agents or employees, including any hired labour, of any such Act, Regulation, Bye-law or other Enactment and including all legal costs on the attorney and client scale which may be payable as a result of any claims or proceedings in respect of the Contract."

#### **THE FOLLOWING ADDITIONAL SUB-CLAUSES ARE ADDED TO THE END OF CLAUSE 1:**

##### **1.15 Whole Contract**

"This Contract is the entire agreement between the parties regarding the matters addressed in the Contract. No representation, terms, conditions or warranties not contained in this Contract shall be binding on the parties. No agreement, or addenda, varying, adding to, deleting or cancelling this Contract, including this Sub-Clause, shall be effective unless reduced to writing and signed non-electronically by both parties"

##### **1.16 Non-Waiver**

"No grant by either Party to the other of any indulgence, condonation, waiver or allowance shall, in respect of any specific event or circumstance other than that in respect of which the grant was made, constitute a waiver of rights of the grantor in terms of the Contract or an estoppel of the grantor's right to enforce the provisions of the Contract"

#### **2 THE EMPLOYER**

##### **2.4 Employer's Financial Arrangements**

This Sub-Clause is deleted in its entirety.

#### **3 The Employer's Representative**

##### **3.2 Delegation by the Employer's Representative**

The following is added at the end of this Sub-Clause:

"The authority to delegate expressly excludes the delegation of powers to vary the Works in terms of Sub-Clause 13.1 [Right to Vary]."

##### **3.4 Replacement of the Employer's Representative**

Delete this Sub-Clause and replace with the following:

"If the Employer intends to replace the Employer's Representative, the Employer shall give notice to the Contractor of the name, address and relevant experience of the intended replacement Employer's Representative."

#### **4 THE CONTRACTOR**

##### **4.2 Performance Security**

In the second paragraph of this Sub-Clause delete the period of "28 Days" and replace with "14 days".

The following is added at the end of this Sub-Clause:

"Should the Contractor fail to provide the said security within the specified time the Employer, in his sole discretion, may either:-

- (a) Withhold payment from the Contractor until the amount withheld is equal to 10% in value of Accepted Contract Amount, or
- (b) Proceed to issue notice in terms of Clause 15 [Termination by Employer]"

Delete the last paragraph of this Sub-Clause and replace with the following:

The employer shall return the Performance Security to the Contractor within 21 days after receiving a copy of the Taking-Over Certificate.

##### **4.3 Contractor's Representative**

The following is added at the end of this Sub-Clause:

"Without derogating from the generality of the foregoing, the Contractor's Representative shall, at the Contractor's cost, implement forthwith any additional safety precautions which the Employer's Representative may consider necessary for the proper protection of the Contractor's employees engaged in the Works. Work to which such additional precautions will apply shall be suspended pending the implementation of such precautions."

##### **4.8 Safety Procedures**

"Without derogating from the generality of the foregoing, the Contractor shall:-

- (a) comply strictly with the Employer's site SHERQ Specifications/Rules, applicable legislation, other requirements and regulations from time to time in force, a copy of which is incorporated into and shall be read as part of the Agreement;
- (b) be responsible for the safety and welfare of all its employees and shall comply with all relevant SHERQ requirements;
- (c) familiarize himself with all the Employer's internal SHERQ systems, regulations, policies and procedures and all legislative or statutory requirements with regard to the health and safety of the Contractor's employees;
- (d) ensure that all his personnel are fully briefed with regards to all relevant policies and safety procedures and that all personnel have attended the requisite inductions;
- (e) ensure that all personnel sign their acceptance of these procedures and regulations – which signed documents are to be kept in a register which is to be made available at all times for inspection;
- (f) at its own cost provide all of its employees with all necessary safety equipment, namely, safety boots, hard hats, overalls

etc. and will at all times adhere to the Employer's site rules and regulations, including his subcontractors and their employees, the South African safety regulations in particular, the Occupational Health and Safety Act (No. 85 of 1993) and relevant regulations and their latest revisions;

- (g) be responsible for the discipline of its employees and shall, at the Employer's request remove from the site any incompetent or undesirable employees."

#### **4.9 Quality Assurance**

The following is added at the end of this Sub-Clause:

"Without derogating from the generality of the foregoing, the Contractor shall maintain an effective quality management system in accordance with the requirements of ISO 9001 (or equivalent), in order to ensure and demonstrate that the Works and services conform to the specified requirements. A copy of the ISO 9001 Certification Certificate (or equivalent) must be submitted on request.

The Employer's Representative will have the right to visit the manufacturing location for the purpose of audit, surveillance or inspection during the manufacturing of the Materials/Plant to verify the Contractor's quality management.

In the event of the Material/Plant being rejected due to non-compliance with the specification, workmanship and/or other valid reasons, then the cost of rectification as well as re-inspection shall be for the account of the Contractor."

#### **4.11 Sufficiency of the Accepted Contract Amount**

The following is added at the end of this Sub-Clause:

"Without derogating from the generality of the foregoing, no claim by the Contractor for additional payment will be entertained which is consequent upon any misunderstanding or the allegation, or fact that it was supplied with incorrect information by any person, or its failure to obtain correct information as to any matter affecting its accepted bid or the execution of the Works to be provided, nor will any such misunderstanding, or the obtaining of incorrect information, or the failure to obtain correct information, relieve it from any risk or responsibility for the due fulfilment of its obligations in terms of the Contract."

#### **4.17 Contractor's Equipment**

The following is added at the end of this Sub-Clause:

"All Contractor's Equipment shall be subject to and comply with the operational and safety regulations of the Employer and, upon notice by the Employer's Representative, may at all times be inspected by relevant members of the Employer's Personnel for the purposes of ensuring compliance with the aforesaid regulations."

#### **4.18 Protection of the Environment**

The following is added at the end of this Sub-Clause:

"The Contractor's attention is directed to Employer's SHEQ Policy a copy of which is incorporated into and shall be read as part of the Agreement.

The Contractor shall comply with all requirements, stipulations and the like of any Environmental Authorisations undertaken and/or issued in respect of the Works."

#### **4.20 Employer's Equipment and Free-Issue Material**

The last paragraph of this Sub-Clause is deleted and replaced with the following:

"After this visual inspection, the free-issue materials shall come under the care, custody and control of the Contractor at which point, except where otherwise stated in the Contract, all risk in such free-issue materials shall also pass to the Contractor and shall remain with the

Contractor unless and until the said free-issue materials are returned to the custody and control of the Employer."

#### **4.22 Security of the Site**

The following is added at the end of this Sub-Clause:

"Without derogating from the generality of the foregoing the Contractor shall at all times remain responsible for the security of his own Equipment.

In addition, the Contractor shall fully acquaint himself and strictly comply with all the Employer's security regulations particularly with regard to personnel, Plant, Material and Equipment entering or leaving the Employer's property. All badging costs shall be borne by the Contractor."

**The following additional Sub-Clauses are added to the end of Clause 4:**

#### **4.25 Waiver of Contractor's Lien**

"The Contractor waives, in favour of the Employer, any lien or right of retention that is or may be held in respect of the Works to be executed on the Site. The Contractor shall ensure that it procures similar waivers from its subcontractors."

### **6. STAFF AND LABOUR**

#### **6.4 Labour Laws**

Delete this Sub-Clause and replace with the following:

"Without derogating from the generality of Sub-Clause 1.13 [Compliance with Laws] the Contractor shall comply with all the relevant labour Laws applicable to the Contractor's Personnel, including Laws relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights.

The Contractor shall require the Contractor's Personnel to obey all applicable Laws, including those concerning safety at work, and shall indemnify the Employer for the consequences of any failure by the Contractor's Personnel to obey all applicable Laws as aforesaid."

#### **6.10 Records of Contractor's Personnel and Equipment**

Without derogating from the generality of the foregoing the Contractor shall, render returns of all persons in their employ on site which returns shall be submitted to the Employer's Representative at the end of each month.

In addition no Statement submitted to the Employer's Representative for payment in terms of Clause 14 will be processed by the Employer's Representative unless such Statement is accompanied by a copy of the monthly labour return referred to above"

**The following additional Sub-Clauses are added to the end of Clause 6:**

#### **6.12 Key Personnel**

"The Contractor shall furnish the Employer's Representative with a list of addresses and telephone numbers of key personnel in the Contractor's organisation who may be contacted in any emergency both during and outside normal Working Hours."

#### **Commencement, Delays and Suspension**

#### **8.3 Programme**

The penultimate paragraph of this Sub-Clause is deleted and replaced with the following:

"The Contractor shall notify the Employer's Representative in writing of any event, circumstance or factor which may adversely affect the Works or the progress thereof, delay the execution of the Works or increase the Contract Price ("notified event"). Such notice shall be given as soon as possible, but in any event within not more than 7 days after the event, circumstance or factor in question was known or should reasonably

have been known to the Contractor. In such notice the Contractor shall provide:

- (a) detailed particulars of the notified event and the potential adverse effects; and
- (b) proposals for the steps to be taken by the Contractor to mitigate the potential adverse effects and meet the Time for Completion.

The Employer's Representative may also require the Contractor to submit a proposal under Sub-Clause 13.3 [Variation Procedure] in respect of any notified event.

A notification in terms of this Sub-Clause shall not constitute a notification of a claim for extension of time or additional cost pursuant to Clause 20 [Claims, Disputes and Arbitration] or otherwise under the Contract.

In the event of the Contractor making a claim for an extension of time or additional cost under Clause 20 the event relied upon shall be assessed as if the Contractor had complied with the 7 day notice period referred to above

#### **8.4 Extension of Time for Completion**

This Sub-Clause is amended as follows:

- Sub-paragraph (d) is deleted;
- Sub-Clause (e) is re-numbered as (d)'
- Add the following to the end of the first paragraph of this Sub-Clause:
- "The Contractor shall not however, be entitled to an extension of the Time for Completion to the extent that completion would, in the circumstances, in any event have been delayed by a cause not listed in (a) to (d) above."

#### **14 CONTRACT PRICE AND PAYMENT**

##### **14.3 Application for Interim Payment Certificates**

This Sub-Clause is amended as follows:

- Delete the words "end of the month" in the first paragraph and replace with "25th day of each month."
- Add the following at the end of this Sub-Clause:  
"In the event that the Contractor fails to submit a Statement by the 25th day of the month any late submission will only be evaluated in the next month."
- *Rand Water shall endeavour to make payment within 30 days from date of monthly statement, date of the aforesaid monthly statement should reflect the last day of the month wherein the services being invoiced were rendered.*

##### **14.9 Payment of Retention Money**

Delete this Sub-Clause and replace with the following:

*The two and a percent (2.5%) retention bond/ guarantee cash shall remain in full force until the takeover certificate has been issued for the works.*

*The remaining two and a half percent (2.5%) retention of money shall be paid promptly after the expiry date of the defects notification period.*

#### **16 SUSPENSION AND TERMINATION BY CONTRACTOR**

##### **16.1 Contractor's Entitlement to Suspend the Work**

The following words are deleted from the first paragraph of this Sub-Clause:

"or the Employer fails to comply with Sub-Clause 2.4 [Employer's Financial Arrangements]"

#### **18 INSURANCE**

##### **18.2 Insurance for Works and Contractor's Equipment**

Delete the final paragraph of this Sub-Clause and replace with the following:

"The insurance described in the first two paragraphs of this Sub-Clause, namely Works insurance, shall be effected and maintained by the Employer as Insuring Party in accordance with, and to the extent provided in the Employer's construction risks insurance policy.

The insurance described in the third paragraph of this Sub-Clause, namely insurance of the Contractor's Equipment, shall be effected and maintained by the Contractor as Insuring Party.

Notwithstanding anything to the contrary in this Clause 18 [Insurance] (and notwithstanding the definitions and other terms of the Contract), the scope and extent of insurance cover provided by the Employer as the Insuring Party, and the Employer's obligations as the Insuring Party under this Sub-Clause, are subject to the terms of the said policies. Without derogating from the foregoing, the obligations of the Employer as Insuring Party provided for under sub-paragraphs (c), (d) and (e) of this Sub-Clause are specifically subject to the provisions of the said policies.

The Contractor is the Insuring Party for all additional and other insurances under this Sub-Clause, including:

- a. for the Contractor's Equipment,
- b. for Plant and Materials during manufacture or fabrication to the extent not covered by the policies procured by the Employer as the Insuring Party, and
- c. to the extent that the Contractor considers it necessary, for other insurances for risks carried by the Contractor under the Contract (including for the Works, Plant, Materials and/or Contractor's Documents for risks which are not covered, or not sufficiently covered, as the case may be, by the Employer's policy(s)).

##### **18.3 Insurance against injury to Persons and Damage to Property**

Delete sub-paragraph (a) and replace with the following:

"shall be effected and maintained by the Employer as Insuring Party to the extent covered by the Employer's insurance policy(s)"

Add the following at the end of this Sub-Clause:

"Notwithstanding anything to the contrary in this Clause 18 [Insurance] (and notwithstanding the definitions and other terms of the Contract), the scope and extent of insurance cover provided by the Employer as the Insuring Party, and the Employer's obligations as the insuring Party under this Sub-Clause are subject to the terms of the said policies.

The Contractor is the insuring Party for all additional and other insurances under this Sub-Clause."

#### **20 CLAIM, DISPUTES AND ARBITRATION**

##### **20.4 Obtaining Dispute Adjudication Board's Decision**

The first paragraph of this Sub-Clause is deleted and replaced with the following:

"If a dispute (of any kind whatsoever) arises between the Parties in connection with, or arising out of, the Contract, including the validity of the Contract, or the execution of the Works, including any dispute as to any certificate, determination, instruction, opinion or valuation of the Employer's Representative, either Party may, within 28 days after such dispute arising, refer the dispute in writing to the DAB for its decision, with copies to the other Party and the Employer's Representative. Such reference shall state that it is given under this Sub-Clause. The other Party may within 28 days of receiving a submission to the DAB forward a written reply thereto to the DAB for its consideration prior to it issuing its decision, such reply shall be copied to the other Party and the Employer's Representative."

The fifth paragraph of this Sub-Clause is deleted and replaced with the following:



"The DAB may within 7 days of giving its decision correct in any clerical mistake or any patent error arising from any accidental slip or omission made in giving its decision.

If either Party is dissatisfied with the DAB's decision, then either Party may, within 14 days after receiving the decision or any correction thereto, give notice to the other Party of its dissatisfaction. If the DAB fails to give its decision within the period of 84 days (or as otherwise approved) after receiving such reference, then either Party may, within 14 days after this period has expired, give notice to the other Party of its dissatisfaction.

Neither Party shall be entitled to be represented by a practicing and/or admitted lawyer (including but not limited to attorneys, advocates or judges) in any proceedings before the DAB. The proceedings shall be conducted on the papers unless both parties agree that a hearing should be held, or the DAB otherwise directs. Each Party shall bear its own costs in regard to any matter referred to the DAB."

#### **20.5 Amicable Settlement**

"Where notice of dissatisfaction has been given under Sub-Clause 20.4 above, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, arbitration may be commenced on or after the twenty-eighth day after the day on which notice of dissatisfaction was given, even if no attempt at amicable settlement has been made."

#### **20.6 Arbitration**

The first paragraph of this Sub-Clause is deleted and replaced with the following:

"Unless settled amicably, any dispute in respect of which the DAB's decision (if any) has not become final and binding shall be finally settled by arbitration. Unless otherwise agreed by both Parties:

- (a) the dispute shall be finally settled under the Rules For The Conduct of Arbitrations as published by the Association of Arbitrators (Southern Africa) in force at the time of commencement of the arbitration,
- (b) the dispute shall be settled by one arbitrator to be appointed by the Chairman of the Association of Arbitrators (Southern Africa),
- (c) the arbitration shall be held in Johannesburg, and
- (d) the arbitration shall be conducted in the language for communications defined in Sub-Clause 1.4 [Law and Language].

For the purpose hereof the term "dispute" shall be interpreted in the widest sense and shall include any dispute or difference in connection with or in respect of the conclusion or existence of the Contract, the carrying into effect of the Contract, the interpretation or application of the provisions of the Contract, the Parties' respective rights and/or obligations in terms of and/or arising out of the Contract and/or the validity, enforceability, rectification, termination or cancellation, whether in whole or in part, of the Contract.

The arbitration shall not be construed as a review or appeal of any adjudicator's decision. Resolution of the dispute shall commence anew, as if no adjudication had taken place. The claimant in the adjudication shall be the claimant in the arbitration. The adjudicator's decision, or reasons, shall not be admissible in the arbitration.

Neither Party shall be limited in the proceedings before the arbitrator to the evidence or arguments previously put before the DAB to obtain its decision, or to the reasons for dissatisfaction given in its Notice of dissatisfaction.

Any member of the DAB shall not be eligible for subsequent appointment as the arbitrator nor shall any party have the right to call them as witnesses in the arbitration.

This Sub-Clause shall exist independently of this agreement to the extent necessary to resolve disputes that may arise out of or concerning this agreement, its validity or termination".

## **21 ADDITIONAL GENERAL PROVISIONS**

**The following additional provisions are added:**

### **21.1 Tax Invoices**

The Contractor shall issue an invoice to the Employer for all amounts to be paid to the Contractor under the Contract.

If VAT is payable on any amount certified by the Employer for payment under the Contract, the Contractor shall ensure that the invoice complies with the requirements of a Tax Invoice under the Value Added Tax Act no. 89 of 1991 (as amended). No payment shall be made by the Employer on invoices not meeting this requirement and the Employer shall not be liable for interest for such non-payment.

### **21.2 Employer's Right to Step-in**

If the Contractor fails to carry out any obligation under the Contract and fails to make good the failure and remedy it despite being required to do so by the Employer's Representative by notice under Sub-Clause 15.1 [Notice to Correct] (within the specified reasonable time), the Employer, without prejudice to its other rights, powers and remedies under the Contract or in law, shall be entitled to make good the failure and remedy it either himself or via other persons, and the reasonable costs of doing so shall be for the account of the Contractor.

The Contractor shall co-operate with the Employer and facilitate and permit the use of all required Goods, information, materials and other matter (including Contractor's Documents and all other drawings, CAD files, technical data, models, plans, designs, diagrams, evaluations, details, specifications, schedules, reports, calculation results, manuals or other documents or recorded information (electronic or otherwise) which have been or are at any time prepared by or on behalf of the Contractor under the Contract or otherwise for and/or in connection with the Works) and shall generally do all things required by the Employer's Representative to achieve this end.

Any information, materials and other matter made available by the Contractor under this Sub-Clause shall be used solely and exclusively for the purpose of making good and remedying the Contractor's failure and shall thereafter be returned to the Contractor. Any such information, materials and other matter which is made available by the Employer to other persons as contemplated in this Sub-Clause shall be made available strictly in accordance with the foregoing and subject to a confidentiality undertaking *mutatis mutandis* in accordance with the Contractor's confidentiality undertaking under Sub-Clause 1.12 [Confidential Details].

The Employer shall not, and shall procure that such other persons do not (save only to the extent that he or they may be entitled thereto by virtue of any other provision of the Contract), retain any records, copies or reproductions of any such information, materials and/or other matter.

### **21.3 Limitation of Entitlement where Contractor is culpable**

Notwithstanding anything to the contrary, the Contractor shall not be entitled to any extension of time or additional payment or other compensation if and to the extent:

- (a) the cause, event or circumstance giving rise thereto is attributable to the negligence, error or default of the Contractor or any Sub-contractor;
- (b) the Contractor fails to take all reasonable steps to mitigate the effects of the cause, event or circumstance giving rise thereto.

#### 21.4 Record and Data Keeping

The Contractor shall maintain all data, records, electronic communications and documentation relating to this Contract and keep full and proper records and accounts in connection with the Works (whether contained in documents or in electronic format), during the execution of the Works and for a period of 5 (five) years after the latest of the expiry dates of the Defects Notification Periods (or the earlier termination of the Contract for any reason whatsoever, as the case may be) and shall ensure that all Subcontractors do likewise.

The Employer's Personnel and the Employer's other authorised representatives and agents shall be entitled to examine, audit, copy and inspect all such books, records, systems, processes, procedures and documents at all reasonable times during the execution of the Works and during the said 5 (five) year period in order to verify compliance by the Contractor with its obligations, and/or to assess any entitlement or claimed entitlement of the Contractor under the Contract.

The Contractor shall provide access to all such books, records, systems, data and documents of the Contractor and to any premises

and personnel of the Contractor for this purpose and shall co-operate and render all assistance requested by the Employer's Personnel and the Employer's other authorised representatives and agents.

All data, communications, records and accounts are to be kept in a lockable storeroom and adequately protects against loss which includes, but is not limited to, fire, theft, vermin, etc.

#### 21.5 Damages for the Late Supply of Documentation

If the Contractor fails to provide any of the documents listed in the Bid [document](#) by the dates specified in the Contract the Contractor shall subject to Sub-Clause 2.5 [*Employer's Claims*] pay damages to the Employer for this default. These damages shall be the sum stated in the Bid [document](#), which shall be paid for each day which shall elapse between the time the document in question was to have been delivered and when it was actually delivered. These damages shall not relieve the Contractor from his obligations to provide the said document, or to complete the Works, or from any other duties, obligations or responsibilities which he may have under the Contract.

**Particular Conditions**

**Part A - Contract Data**

Conditions	Sub-Clause	Data
<i>1.1 Definitions</i>		
Contract Agreement	1.1.8	Delete the whole contents and replace with: <i>means the Contract Agreement, the Letter of Acceptance, the Letter of Tender, these Conditions, the Employer's Requirements, the Schedules, the Contractor's Proposal, and the further documents (if any) which are listed in the Contract Agreement or in the Letter of Acceptance.</i>
Insert new Clause.	1.1.8 (a)	"Contractor's Proposal" means the document entitled Proposal, which the Contractor submitted with the Letter of Tender, as included in the Contract. Such document may include the Contractor's preliminary design.
Employer	1.1.27	Delete the whole contents and replace with: <b>"Employer"</b> means Rand Water which is a body corporate established in terms of Section 83 of the Water Services Act 107 of 1997. Notwithstanding that Rand Water is the Employer. <u>Notwithstanding that Rand Water is the Employer, Rand Water shall delegate and name a person who shall be referred to as the Employer within 42 days after acceptance of the award.</u>
Employer's Representative	1.1.30	<u>To delete the words" the person named by the Employer in the Contract Data and replace with "The name is of the Employer's Representative shall be made known to the Contract within 14 days of accepting the award.</u> <b>OR</b> <u>Rand Water officially appointed personnel's, who shall be appointed as and when needed.</u>
JV Undertaking	1.1.40	To substitute the definition with: <i>means a Letter of Intention to incorporate a company within 30 days after award.</i> <i>The intention to incorporate must be signed in terms of the delegated authority / passed resolution.</i>
Site	1.1.67	<i>[Describe any other places as forming part of the Site]</i>
Time for Completion	1.1.76	To add the following words: <i>'the time for completion of the whole of the Works and the time for completion of sections, if applicable'.</i>

Conditions	Sub-Clause	Data
		<i>Time for completion shall be as per the officially approved project programme, by the Employers Representative.</i>
Works	1.1.79	<b>To insert the following:</b> means all design, engineering, procurement, construction, erection, installation, testing <i>commissioning, put into operation</i> , training, and activities and services necessary for a complete and operable Asset/ Facility as per the terms of this Agreement or as implied by the Agreement, and includes all activities and services which (although not mentioned in the Contract) are necessary for stability or for the completion, or safe and proper operation, of the Works.
Add the following clause: <b>Milestones</b>	1.1.81	<i>Milestone are control points in the project that help to chart progress. They are used as signal posts for a project's start or end date. Milestones may correspond to the completion of a key deliverable, allowing the next phase of the work to begin.</i>
Add the following definition: Cession	1.1.82	<i>Shall mean a bilateral juristic act whereby rights and/ obligations are being transferred from the cedent (the person transferring the rights) in favour of the Cessionary (the one who accepts transfer of personal rights and becomes the holder of that rights and the corresponding obligation(s))</i>
<b>1.3 Notices and Other Communications</b>		
Electronic transmission system	1.3 (a)(ii)	<i>Accepted electronic system by Employer, include email, electronic document may be shared through electronic storage devices viz. Compact Discs (CD), Flash Drives, electronic documentation sharing platforms viz WeTransfer, DropBox</i>
Address of Employer for communications	1.3 (d)	<i>The physical address is noted, but since communication is done electronically it should therefore be directed to the electronic address provided by the engineer officially, through employer's notices.</i>
Address of Employer's Representative for communications	1.3 (d)	To be given one the Employer's Representative is named or appointed.
Address of Contractor for communications	1.3 (d)	<i>The electronic address too should be communicated through official communication from officially appointment contractor personnel.</i>
<b>1.4 Law and Language</b>		
Governing Law	1.4	<i>At the end of the following paragraph "The Contract shall be governed by the law of the country (or other jurisdiction) stated in the</i>

Conditions	Sub-Clause	Data
		<i>Contract Data (if not stated, the law of the Country), excluding any conflict of law rules." add The Contractor shall also at all times conform in all respects with the provisions of any Act of Parliament, Regulations, Bye-law of any Local or any other Statutory Authority or other Enactment having the force of law which may be applicable to the performance of its obligations under the Contract and shall indemnify, and keep indemnified the Employer, against damages that it may suffer as a result of any breach by the Contractor, its agents or employees, including any hired labour, of any such Act, Regulation, Bye-law or other Enactment and including all legal costs on the attorney and client scale which may be payable as a result of any claims or proceedings in respect of the Contract."</i>
Ruling language	1.4	English
Language for communications	1.4	English
<b>1.6 Contract Agreement</b>		
Time for the Parties to sign a Contract Agreement	1.6	48 days after receipt of letter of acceptance
<b>1.8 Care and Supply of Documents</b>		
Number of additional paper copies of Contractor's Documents	1.8	One original document.
<b>1.14 Limitations of liability</b>		
Total liability of the Contractor to the Employer under or in connection with the Contract	1.14	Shall not exceed the contract value/price.
<b>2.1 Right of Access to the Site</b>		
Time for access to the Site	2.1	<p><i>To delete the clause and replace with:</i></p> <p><i>the right of access to and possession of all parts of the Site shall be given by "No later than the 42 days after Commencement Date"</i></p> <p><i>The contractor must meet all the site access requirements before being granted site access, these include permits, safety files, securities, insurances, approval by engineer of completion date (programme). Employer has no reason not granting site access except during construction such as plant shutdowns etc.</i></p> <p><i>[If it is not practical or feasible to give the right of access to and possession of all parts of the Site by the Commencement Date as per, Sub-Clause 2.1:</i></p>

Conditions	Sub-Clause	Data
		<p><i>The Employer shall give right of access within reasonable time as may be required to enable the Contractor to proceed in accordance with the Program or, if there is no Program at that time, the initial program submitted under Sub-Clause 8.3 [Program]</i></p> <p><i>In the instances where the Employer is aware of any reason(s) that may potentially delay the issuing of site on time as required, the Employer shall notify the Contractor within reasonable time before the actual date of expected Site Access Date. Upon receiving this notice, the contractor shall not be entitled to any delay damages"</i></p>
Employers Administration		
Employer's Representative	3.1	<p>The words "full authority" in paragraph 2 of the clause is deleted and replaced by:</p> <p>"The authority vested in the Employer's Representative expressly excludes the authority to issue variations of the Works as provided for in Sub-Clause 13.1 [Right to Vary]."</p>
Engineer's Duties and Authority	3.1(b)(ii)	<p>Variations resulting in an increase of the Accepted Contract Amount more than _20% shall require approval of the Employer.</p>
	4.2	Performance Security
Contractors Obligation(s)	4.2.1	<ul style="list-style-type: none"> <li>In the second paragraph of this Sub-Clause to add the following word".</li> </ul> <p>"The Contractor shall deliver the performance security/ guarantee in the form of a <i>"demand guarantee"</i> or <i>"performance bond"</i> issued by a reputable financial Services Provider".</p> <p>"The Contractor shall ensure that the performance guarantee shall remain valid and enforceable until the Issuance of the Completion or Takeover certificate has been issued and the works have been certified to have been completed".</p>
	4.2.1.1	

Conditions	Sub-Clause	Data
		<p>"The Guarantor hereby unconditionally and irrevocably guarantees to pay the Employer from time to time any or all monies due and owing to the Employer from the Contractor under the Agreement arising out of the default or non-performance by Contractor of its obligations thereunder, of which the Employer shall be the sole judge, provided that the liability thereto shall not exceed the sum equivalent to 10% of the contract value/ Amount".</p> <p>"Should the Contractor fail to provide the said security within the specified time the Employer, in his sole discretion, shall either:-</p> <p>(a) Withhold payment from the Contractor until the amount withheld is equivalent the required 10% value of Accepted Contract Amount, or</p> <p>(b) Proceed to terminate the contract forthwith.</p>
4.4 Subcontractors		
Maximum allowable accumulated value of work subcontracted (as a percentage of the Contract Price)	4.4(a)	30%
<i>Parts of the Works for which subcontracting is not permitted</i>	4.4(b)	None
4.19 Temporary Utilities		
Period of payment for temporary utilities	4.19	As per general payment terms (As per Preliminary and General, that are fixed, and time based)
4.20 Progress Reports		
Number of additional paper copies of progress reports	4.20	One paper copy for the Engineer
5.1 General Design Obligations		
General Design Obligations	5.1	(a) insert at the end of the sentence the following:

Conditions	Sub-Clause	Data
		<p>“they shall be registered with the Engineering Council of South Africa in their respective area of expertise and disciplines.</p> <p>(b) Substitute the Clause with “comply with the Design Procedures and Processes as stated in the Employer’s Requirements; and</p>
Design Obligations <i>conti</i>	5.1	<p>The paragraph of the subsection starting with the following word: However, the Employer shall be responsible for the correctness...amend the aforesaid by adding sub-paragraph (e).</p> <p>(e) Instance where outline technical information has been provided the Contractor shall use such information as Employer’s requirement.</p>
5.4 Contractor’s Undertaking		
Contractor’s Undertaking	5.3	<p>Insert sub-paragraph (c):</p> <p>(c) the works meet the performance criteria for testing.</p> <p>(d) <i>provide risk management through early warning process, through notifying the Employer of risks in reasonable time before they occur.</i></p>
5.5 Training		
Training	5.5	<p>Delete the Clause in its entirety and replace same with the following new Clause(s):</p> <p>5.5.1          The Contractor shall carry out the training of Employee’s of the Employer in the operation and maintenance of the Works, and any other aspect of the Works to the extent specified in the Employer’s Requirements.</p> <p>5.5.2          If the Contract specifies training which is to be carried out before taking-over, the Works shall not be FIDIC Particular Conditions of Contract 14 considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections] until this training has been completed.</p>
5.6 As-Built Records		
As - Built Records	5.6	<p>To add the following at the end of the paragraph:</p> <p>“The Contractor shall obtain the consent of the Engineer as to their size, the referencing system, and other relevant details.</p> <p>Prior to the issue of any Taking-Over Certificate, the Contractor shall supply to the Engineer the specified numbers and types of copies of the</p>



Conditions	Sub-Clause	Data
		relevant as-built drawings, in accordance with the Employer's Requirements. The Works shall not be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections] until the Engineer has received these documents".
6.5 Working hours		
Normal working hours	6.5	
Commencement of Works		
	8.1	Insert the words "design and" before the word "execution" ( Third paragraph)
8.3 Programme		
Number of additional paper copies of program:	8.3	as will be determined by the Engineer
8.8 Delay Damages		
Delay Damages payable for each day of delay	8.8	<i>To add at the end of the paragraph: Proven identified and proven actual costs incurred for that work (excluding profit) less estimated cost for the project. The penalty table in the tender document @ page shall be used to determine the applicable % to be imposed per day,</i>
Maximum amount of Delay Damages	8.8	Not exceeding 10% of the Accepted Contract Amount, less provisional sum.
13.4 Provisional Sums		
Percentage rate to be applied to Provisional Sums for overhead charges and profit	13.4(b)(ii)	10 %
14.2 Advance Payment		
Total Advance Payment	14.2	Delete advance payment does not apply.
Period of payment of Advance Payment to the Contractor	14.2.2	Delete
Repayment of Advance Payment	14.2.3	Delete
14.3 Application for Interim Payment		

Conditions	Sub-Clause	Data
Application for Interim Payment:	14.3	<p>The Clause is amended by deleting of the words "end of the period of payment" in the first sentence of the Clause and replace the words with "25th day of each month."</p> <p>And by Addition of the following wording at the end of the Sub-Clause:</p> <p>"In the event that the Contractor fails to submit a Statement by end of business day on the 25th day of the month. The submission shall be regarded as late submission and any late submission will only be evaluated in the following month."</p> <p><i>Rand Water shall endeavour to make payment within 30 days from date of monthly statement, date of the aforesaid monthly statement should reflect the last day of the month wherein the services being invoiced were rendered.</i></p> <p><b>The rest of the Sub-Clauses will remain unchanged.</b></p>
Number of additional paper copies of Statements	14.3(b)	
Percentage of retention	14.3(iii)	<ul style="list-style-type: none"> <li>To the extent to which monies are to be retained by the Employer. A maximum 5% of the contract value or amount shall be retained and a portion of the retention money (2.5%) will be released on achieving practical completion / issuance of Takeover certificate.</li> <li>and the balance (2.5%) shall be payable after the relevant defect's notification period has expired.</li> </ul>
Limit of Retention Money (as a percentage of Accepted Contract Amount)	14.3(iii)	5%
14.5 Plant and Materials intended for the Works		
Plant and Materials	14.5(b)(i)	If Sub-Clause 14.5 applies: Plant and Materials for payment when shipped <i>Package/ Project specific [list].</i>
	14.5(c)(i)	If Sub-Clause 14.5 applies: Plant and Materials for payment when delivered to the Site: <i>Applicable to all Material on Site (MOS), subject to approval by Engineer [list].</i>
14.7: Payment		
Minimum amount of interim payment	14.7 (a)	To be deleted. Advance payments are not applicable.

Conditions	Sub-Clause	Data
<b>14.7 Payment: To add the following words</b>		
Any payment due and payable to the contractor shall be made in accordance with Clause 14.3 above.		
<b>14.8 Delayed Payment</b>		
Financing charges for delayed payment (percentage points above the average bank short-term lending rate as referred to under sub-paragraph (a))	14.8	Delete
<b>14.9 Release of Retention Money</b>		
Release of Retention Money	14.9	<p>Deletion of the Sub-Clause and substitute with the following:</p> <p>The retention amount to be deducted from the submitted payment certificate shall be 5%, and shall be released as follows:</p> <ul style="list-style-type: none"> <li><i>The two and half percent (2.5%) cash retention shall remain be released at the issuance of the takeover certificate.</i></li> <li><i>The remaining two and a half percent (2.5%) retention of money shall be released after the expiry date of the defect's notification period.</i></li> </ul> <p>In the first paragraph, add after the words "issued for the Works," the following words:          " the Works have passed all specified tests (including the Tests after Completion, if any)"</p>
<b>17.2 Liability for Care of the Works</b>		
Forces of nature, the risks of which are allocated to the Contractor	17.2(d)	<p><b>Force Majeure Event:</b></p> <p><i>"If either party is prevented from performing any of its obligations in terms of this contract as a result of any event beyond its control including war, riots, earthquakes, hurricanes and or encroachments it shall not be liable for any failure to perform its obligations while such event persists and either party shall have the right to terminate the contract if the event persists for a period in excess of 30 days."</i></p> <p><i>upon invoking force majeure at the time of its occurrence, the contract is suspended for the duration of the force majeure event with a commensurate extension of the delivery schedule.</i></p>

Conditions	Sub-Clause	Data
<b>Sub-Clause 17.5: Indemnities</b>		
fourth paragraph add: construction or execution of the Works, (ii) the use of the Contractor's Equipment, or (iii) the proper use of he Works.		
<b>Insurance: Clause 19: 19.1 General Requirements</b>		
To add the following to the Clause on General Requirements	19.1	<ul style="list-style-type: none"> <li>Notwithstanding anything to the contrary in this <b>Clause 19 [Insurance]</b> (and notwithstanding the definitions and other terms of the Contract), the scope and extent of insurance cover provided by the Employer as the Insuring Party, and the Employer's obligations as the Insuring Party under this Sub-Clause, are subject to the terms of the Employers Insurance policies and in particular as reference in paragraph <b>C1.2.3. EMPLOYER'S INSURANCE MANUAL</b> of the Tender document.</li> <li>Without derogating from the foregoing, the obligations of the Employer as Insuring Party provided thereto and or in this Sub-Clause are specifically subject to the provisions of the said policies. The Clause shall be read in conjunction with the Employers Insurance Manual. Where there is conflict, the manual shall take precedence.</li> </ul>
<b>21 Disputes and Arbitration</b>		
The Employer shall establish a panel of independent adjudicators and Arbitrators to deal with the dispute avoidance and determinations as provided for in clause 3.5 and other related matters. The clauses dealing with Disputes and Arbitration will be amended, customized and a harmonized Edition will be issued as an Appendix to this Contract.		
<b>Cession And Assignment</b>		

Conditions	Sub-Clause	Data
imitation of Cession	New Clause	<p><b>CESSION AND ASSIGNMENT.</b></p> <p><i>Assignments of contracts:</i></p> <p>(a) <i>In line with National Treasury PFMA SCM INSTRUCTION NO. 8 OF 2022/2023 the assignment of contract is prohibited.</i></p> <p>(b) <i>The appointed bidder shall not <u>assign</u>, <u>abandon</u> or <u>transfer</u> any of its <u>rights</u> and/or <u>obligations</u> in <u>terms of this Agreement</u> (whether in part or in whole) or <u>delegate</u> any of its obligations in terms of this Agreement.</i></p> <p>(c) <i>National Treasury avers that action of assigning one's rights and obligations to another party is contrary to the prescript of section 217 of the Constitution.</i></p> <p><i>Cession Agreement:</i></p> <p>(a) <i>As per the Instruction Note 8 of 2022/2023 Cession of rights is only permissible wherein, the service provider cedes (transfer) its right to be paid for the services it rendered in terms of the contract to a third party.</i></p> <p><i>The Cession of right to be paid for services rendered is permissible on condition that the supplier is ceding to a Financial Services Provider (FSP) or a State Institution.</i></p>

### C1.2.3. EMPLOYER'S INSURANCE MANUAL

#### PRINCIPAL CONTROLLED INSURANCE CLAUSES - FOR USE WITH THE EMPLOYER'S CONTRACTS

##### PARTICULAR CONDITION 18

- 18.1 Insurance Effected by the Employer.
- 18.1.1 Notwithstanding anything elsewhere contained in this Contract and without limiting the obligations liabilities or responsibilities of the Contractor in any way whatsoever (including but not limited to any requirement for the provision by the Contractor of any other insurances) the **Employer** shall effect and maintain as appropriate in the joint names of the **Employer** the Contractor and where relevant subcontractors the following insurances which are subject to the terms limits exceptions and conditions of the Policy:
- a) **CONTRACT WORKS** Insurance - which will provide cover against accidental physical loss of or damage to the Works including temporary works, Plant and Materials intended to form part of the Permanent Works
- b) **SASRIA SPECIAL RISKS** Insurance - in respect of riot and associated risks of damage to the Works, including temporary works, Plant and Materials intended to form part of the Permanent Works.
- c) **PUBLIC LIABILITY** Insurance - which will provide indemnity against the insured parties legal liability in the event of accidental death of or injury to third party persons and/or accidental loss of or damage to third party property arising directly from the execution of the contract on or about the Site and occurring during the period of insurance with a limit of indemnity of R250,000,000 in respect of all claims arising from any one occurrence or series of occurrences consequent on or attributable to one source or original cause.
- 18.1.2 The **Employer** shall pay any premium due in connection with the insurance effected by the **Employer**. All of the aforementioned policies are renewed on an annual basis and are thus applicable for the year they are placed, that is, a 12-month period commencing 01 July and ending 30 June of the ensuing year. In terms of all details contained hereunder, they are thus applicable until 30 June. Policy terms, conditions and deductibles may change on the 01 July depending on the outcome of the renewal. This will thus be the case for every ensuing year of insurance.
- 18.1.3 The Contractor shall not include any premium charges for this insurance except to the extent that he may deem necessary in his own interests to effect supplementary insurance to the insurance effected by the **Employer**. The **Employer** reserves the right to call for full information regarding insurance costs included by the Contractor.
- 18.1.4 Any further clarification of the scope of cover provided by the Policies arranged by the **Employer** should be obtained from the **Employer**:
- Mr. Bafana Gamede  
 Tel: 011 682 0362  
 Fax: 011 682 0765  
 Email: [bgamede@randwater.co.za](mailto:bgamede@randwater.co.za)
- OR
- Ms. Lerato Mosweu  
 Tel: 011 682 0709  
 Fax: 011 682 0765  
 Email: [mmosweu@randwater.co.za](mailto:mmosweu@randwater.co.za)
- 18.1.5 In the event of any occurrence which is likely to or could give rise to a claim under the insurances arranged by the **Employer** the Contractor shall:
- a) In addition to any statutory requirement or other requirements contained in the Contract immediately notify the **Employer** by telephone and or e-mail giving the circumstances nature and an estimate of the loss or damage or liability.
- b) Complete a Claims Advice Form available from the **Employer** to whom the form must be returned without delay.
- c) Negotiate the settlement of claims with the Insurers through the **Employer's** Insurance Brokers and shall when required to do so obtain the **Employers** approval of such settlement.
- The **Employer** and Insurers shall have the right to make all and any enquiries on the site of the Works or elsewhere as to the cause and results of any such occurrence and the Contractor shall co-operate in the carrying out of such enquiries.
- 18.1.6 The Contractor will be liable for the amount of the Deductible (First Amount Payable) in respect of any claim made by or against the Contractor or Subcontractors under the insurances effected by the **Employer**.
- 18.1.7 The Contractor will be liable for the amount of the Deductible (First Amount Payable) in respect of any claim made by or against the Contractor or Subcontractors under the insurances effected by the **Employer**.

##### Insured Contracts

All contracts undertaken by the Insured involving Design, Construction, Testing, Commission in respect of new works, capital expenditure, Upgrade, modification, retrofitting, or alteration and/or additions to existing facilities undertaken by the Insured or other Insured Parties acting on their behalf but excluding.

i) Projects with an estimated period exceeding 36 months (excluding Defects Liability period)

ii) Projects exceeding R500 million at inception

iii) Contracts involving Tunnelling

All Sums Insured inclusive of VAT.

Where more than one Contractor is involved in the same claim the Deductible will be borne in pro-rata amounts by each Contractor in proportion to the extent of each Contractor's admitted claim.

**The Deductibles** (First Amount Payable) for which the Contractors are responsible and which are applicable in respect of each and every occurrence or series of occurrences attributable to one source or original cause giving rise to loss or damage or liability indemnifiable are as follows:

a) Under the **Contract Works Insurance** in respect of loss or damage

- Wet Risks:
- 10% of the claim with a minimum R10,000 and a maximum of R 500,000
- Maintenance:
- 10% of the claim with a minimum R10,000 and a maximum R500,000
- Other contracts:
- 10% of the claim with a minimum of R10,000 and maximum of R250,000

b) Under the **Sasria** (Special Risks) Insurance:

0.10% of the Contract Value in respect of loss by theft following an insured peril subject to a minimum of R2,500 and a maximum of R25,000

c) Under the Public Liability Insurance

in respect of loss of or damage to property R 25,000

d) Under any other insurances shall be as specified in such insurance policy.

18.1.7 Any amount which becomes payable to the Contractor or any of his Subcontractors as a result of a claim under the Contract Works Insurance shall if required by the **Employer** be paid net of the Deductible to the **Employer** who shall pay the Contractor from the proceeds of such payment upon rectification repair or reinstatement of the loss or damage but this provision shall not in any way affect the Contractor's obligations liabilities or responsibilities in terms of the Contract.

In respect of any amount which becomes payable as a result of a claim under any Public Liability Insurances the Contractor or his Subcontractors shall be required to pay the amount of the Deductible to the Insurer to facilitate settlement of such claim.

## 18.2 Insurance Effected by the Contractor.

18.2.1 Without in any way detracting from any requirements contained elsewhere in this contract the Contractor and Subcontractors shall where applicable provide as a minimum the following:

- a. Insurance of Contractors Equipment (including tools offices and other temporary structures and contents) and other things (except those intended for incorporation into the Works) brought onto the Site for a sum sufficient to provide for their replacement.
- b. Insurance in terms of the provisions of the Social Security Act as may be amended or in terms of any similar Workers Compensation and Unemployment Insurance enactments in the Contractors' or Sub Contractor's operational, manufacturing or assembly locations.
- c. Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability indemnity.
- d. Where the Contract involves manufacturing and/or fabrication of the Works or parts thereof at premises other than at the Site the Contractor shall satisfy the **Employer** that all Plant and Materials for incorporation in the Works are adequately insured during manufacture and/or fabrication. In the event of the **Employer** having an insurable interest in such Works during manufacture or fabrication then such interest shall be noted by endorsement to the relevant Policies of Insurance.

### Special Condition

e. **Only applicable if contracts works involves elements of design**

**PROFESSIONAL INDEMNITY** Insurance – of not less than R 1 000 000 for a period of insurance commencing on the date of award of the Contract. The Insurance shall include Retroactive cover to the date of Conceptual Design commencement and should be in effect for a period of 12 months after completion of the works.

**Notwithstanding the required limit as set out above, "Professional Indemnity" the contractor will be liable for the full amount of the claim arising out of their errors and omission.**

18.2.2 The insurances to be provided by the Contractor and his Sub-contractor shall

- a) Be effected with Insurers and on terms approved by the **Employer** – these terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause
- b) Be maintained in force for whatever period the perils to be insured by the Contractor are at risk (including any Defects Notification Period during which the Contractor is responsible for the care of the Works)
- c) Within the respective periods stated in the Bid [document](#) submit to the **Employer** the relevant Policy or Policies of Insurance or evidence acceptable to the Employer that such insurances have been effected.

18.2.3 In the event that the Contractor or his Subcontractor receives any notice of cancellation or restrictive modification to the insurance provided to them they shall immediately notify the **Employer** in writing of such cancellation or restriction and shall advise what action

the Contractor or his Sub-contractor will take to remedy such action.

If the Contractor fails to effect and keep in force the insurances referred to then the **Employer** may effect and keep in force any such insurances and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount paid by the **Employer** from any monies due or which may become due to the Contractor or recover same as a debt from the Contractor.

18.3

#### **Subcontractors.**

The Contractor shall:

- a) Ensure that all potential and appointed Subcontractors are aware of the whole contents of this clause, and
- b) Enforce the compliance by Subcontractors with this clause where applicable.



**APPENDIX**

**DECLARATION OF INSURANCE**

I hereby declare that the Insurances enumerated below have been effected in accordance with Conditions of Contract applicable to **Bid Number: RW010400960/22.**

I further declare that all premiums in respect of the insurances are fully paid up to date and that the insurances shall not be amended and/or cancelled without the prior knowledge and consent of the Employer.

Cover Effected	Clause No	Insurer and Policy Number	Expiry Date
a) Contractors Equipment	PC 18.2.1a)		
b COIDA	PC 18.2.1b)		
c) Motor Vehicle Liability	PC 18.2.1c)		
d) Manufacturing/Fabrication Premises	PC 18.2.1d)		
e) Professional Indemnity (Where Applicable)	PC 18.2.1e)		

N.B.: This Declaration of insurance must be completed and signed by

- i) The Contractor and.
- ii) The Insurer or Insurance Broker appointed by the Contractor

and returned to the Employer together with a letter of good standing from the Workman's Compensation Commissioner in respect of Item b) above.

**SIGNED:**

- i) For and on behalf of the Contractor

.....

Official Capacity:.....

**SIGNED:**

- ii) For and on behalf of the Insurer / Broker (delete whichever is not applicable)

.....

Official Capacity:.....

## PART C2: PRICING DATA

### C2.1. PRICING ASSUMPTIONS

1. The Activity Schedules (C2.2) shall be used to assist both parties in administering and agreeing any changes/variations, which may arise during the course of the Contract.
2. These Activity Schedules shall be used to calculate the value of work completed in the evaluation of interim/final payments.
3. The Contractor is deemed to have allowed opposite each item contained in these Activity Schedules whatever costs and charges it may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out in the Contract.
4. No claim whatsoever will be entertained in respect of errors or omissions in pricing due to the brevity of a description of any item contained in these Activity Schedules which items are fully described or can reasonably be inferred when read in conjunction with the relevant clauses provided for in the Conditions of Contract, Specifications, Drawings or other relevant documentation.
5. Any item left un-priced will be deemed to be provided for elsewhere and no claim for any extras arising out of the Contractor's omission to price any item will be entertained.
6. *The contractor shall determine the contract skills participation goals, expressed in Rand, which shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for Developing Skills through Infrastructure Contracts for the applicable class of construction works.*

**a. Payment to the contractor to accommodate Part/Full Occupational qualification and Trade qualifications**

- i. The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard for Developing Skills through Infrastructure Contracts and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.*

**b. Payment to the contractor to accommodate Work Integrated Learners and Candidates for professional registration**

- i. The contractor shall apportion the cost of accommodating work integrated learners (P1 and P2 learners) and candidates for professional registration by using Table 3 in the Standard for Developing Skills through Infrastructure*

*Contracts and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.*

**c. Payment to the contractor for supervision and mentoring Part/Full Occupational qualification and Trade qualifications learners**

- i. The employer shall make no provision for an additional payment item for the payment of the supervisor and/or mentors for the provision of training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule for the training of part/full time occupational learners and/or trade qualification learners.*

**d. Payment to the contractor for mentoring Work Integrated Learners and Candidates for professional registration**

- i. The contractor shall apportion the cost of mentoring work integrated learners (P1 and P2 learners) and candidates for professional registration by using Table 3 in the Standard for Developing Skills through Infrastructure Contracts and will form part of the cost as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule for training.*

## C2.2. ACTIVITY SCHEDULES

The Bidder must refer to **Annexure C2.2: Activity Schedules** provided with this bid document.

*In relation to in the Standard for Developing Skills through Infrastructure Contracts (published in GN 43495 of 20 March 2020):*

**Payment to the contractor to accommodate Part/Full Occupational qualification and Trade qualifications learners**

- a.** *Should the contractor select Part/Full Occupational qualification and/or Trade qualifications, then the employer shall make provision for payment to the contractor as indicated in Table 3 in the Standard for Developing Skills through Infrastructure Contracts as provided in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule for training.*

**2. Payment to the contractor to accommodate Work Integrated Learners and Candidates for professional registration**

- a.** *Should the contractor select Work Integrated Learners and/or Candidates for professional registration, then the employer shall make provision for payment to*

*the contractor as indicated in Table 3 in the Standard for Developing Skills through Infrastructure Contracts as provided in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule for training.*

**3. Payment to the contractor for Mentors to accommodate Work Integrated Learners and Candidates for professional registration**

- a. *Should the contractor select Work Integrated Learners and/or Candidates for professional registration, then the employer shall make provision for payment to the contractor as indicated in Table 3 in the Standard for Developing Skills through Infrastructure Contracts as provided in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule for training.*

**The Bidder is required to submit the following:**

- Excel® format of the completed pricing schedule or BoQ in a compact disc (CD) or USB flash drive.
- Printed format and signed version of the completed pricing schedule or BoQ.

## **PART C3: SCOPE OF WORK**

### **C3.1. DATES FOR DELIVERY AND COMPLETION**

1. It is estimated that the Contract will be placed on or before **01 June 2023** access to undertake work will only become available after the issue of the Site Access Certificate.
2. The Bidder shall state the proposed start and completion dates based on the above approximate date, these dates shall comply with the dates mentioned below in T2.2.1.4
3. The Bidder shall simultaneously fill in the period required to complete the work in days or weeks from the date of acceptance of the offer by the Employer. This shall be used to adjust dates should the Contract placement date vary.
4. All equipment and plant shall be handed over by **01 June 2026** and the Bidder's programme shall comply with this requirement by the Employer.

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1: Dates for delivery and completion**

**C3.1.1. DATES FOR DELIVERY AND COMPLETION – P.05055 RECONSTRUCTION AND UPGRADE OF CHAMBERS: EIKENHOF SYSTEM**

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1.1 Dates for delivery and completion for the reconstruction and upgrade of chambers: Eikenhof System**

**C3.1.2. DATES FOR DELIVERY AND COMPLETION – P.04616 REPAIR OF SUMP CHAMBER AT THE FLATS: VEREENIGING SYSTEM**

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months

<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month
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**Table C3.1.2 Dates for delivery and completion for the repair of sump chamber at the Flats: Vereeniging System**

**C3.1.3. DATES FOR DELIVERY AND COMPLETION – P.05056 RECONSTRUCTION AND UPGRADE OF CHAMBERS: MAPLETON SYSTEM**

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1.3 Dates for delivery and completion for the reconstruction and upgrade of chambers: Mapleton System**

### C3.1.4. DATES FOR DELIVERY AND COMPLETION – P.05097 RECONSTRUCTION AND UPGRADE OF CHAMBERS: RAW RATER SYSTEM

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1.4 Dates for delivery and completion for the reconstruction and upgrade of chambers: Raw Water System**

### C3.1.5 DATES FOR DELIVERY AND COMPLETION – P.05104 RECONSTRUCTION AND UPGRADE OF CHAMBERS: ZWARTKOPJES SYSTEM

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months



<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month
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**Table C3.1.5 Dates for delivery and completion for the reconstruction and upgrade of chambers: Zwartkopjes System**

**C3.1.6 DATES FOR DELIVERY AND COMPLETION – P.04612 REFURBISHMENT OF CHAMBERS ALONG ESSELEN PARK PIPELINES: PALMIET SYSTEM**

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1.6 Dates for delivery and completion for the refurbishment of chambers along Esslen Park Pipelines: Palmiet System**

### C3.1.7 DATES FOR DELIVERY AND COMPLETION – P.05057 RECONSTRUCTION AND UPGRADE OF CHAMBERS: PALMIET SYSTEM

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1.7 Dates for delivery and completion for the reconstruction and upgrade of chambers: Palmiet System**

### C3.1.8 DATES FOR DELIVERY AND COMPLETION – P.04983 RECONSTRUCTION OF SCOUR CHAMBERS AT THE PUMPING STATION: PALMIET SYSTEM

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months

<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month
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**Table C3.1.8 Dates for delivery and completion for the reconstruction of scour chambers at the pumping station: Palmiet System**

**C3.1.9 DATES FOR DELIVERY AND COMPLETION – P.04356 REPAIR AND REFURBISHMENT OF VALVE CHAMBERS IN SPRINGS: MAPLETON SYSTEM**

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1.9 Dates for delivery and completion for the repair and refurbishment of valve chambers in Springs: Mapleton System**

**C3.1.10 DATES FOR DELIVERY AND COMPLETION – P.05133 INSTALL STEELWORKS IN CHAMBERS AT KLIPRIVIERSBERG RESERVOIR: PALMIET SYSTEM**

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months
<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month

**Table C3.1.10 Dates for delivery and completion for the installation of steelworks in chambers at Klipriviersberg Reservoir: Palmiet System**

**C3.1.11 DATES FOR DELIVERY AND COMPLETION – P.04075 INSTALL ACCESS LADDERS AND PLATFORMS AT J10: MAPLETON SYSTEM**

Item	Start Date	Completion Date	Working Period
<b>PHASE 1:</b> Inception	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 2:</b> Concept and Viability (often called preliminary design)	06 Sept 2023	22 Nov 2023	2 Months
<b>PHASE 3:</b> Design Development (also termed detailed design)	22 Nov 2023	27 March 2024	4 Months
<b>PHASE 4:</b> Procurement of equipment, materials required for construction, chemicals for commissioning etc.	27 March 2023	27 Dec 2024	21 Months
<b>PHASE 5:</b> Contract Administration and Inspection	27 March 2023	27 Dec 2024	9 Months

<b>PHASE 6:</b> Close-Out Fulfil and complete the project close-out, including necessary documentation to facilitate effective completion, handover and operation of the project.	27 Dec 2023	31 Dec 2024	1 Month
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**Table C3.1.11 Dates for delivery and completion for the installation of access ladders and platforms at J10: Mapleton System**

**NOTE THAT A DETAILED PROJECT PROGRAMME MUST BE INCLUDED WITH THE BID SUBMISSION**

Name of Bidder: \_\_\_\_\_

Signed by or on behalf of Bidder: \_\_\_\_\_ Official Capacity: \_\_\_\_\_

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

### C3.2. SCOPE OF WORK

The proposed scope of work under this project entails conducting a detailed conditional assessment and refurbishment of chambers along each pipeline listed in *table C3.2* from chainage 0 to end chainage. All associated mechanical, pipeline, automations, cathodic protection, and electrical components and instruments form part of the scope. These includes but not limited to valves, tie-ins, cathodic protection and pipe specials. Work is to be done on six (6) Rand Water systems viz.:

- Eikenhof
- Mapleton
- Palmiet
- Raw Water
- Zwartkopjes
- Vereeniging

Table C3.2: Critical Chambers on various systems

SYSTEM	PIPELINE	STARTING POINT (Chainage 0m)	END POINT (End Chainage)	PIPE LENGTH (m)
<b>Eikenhof (EKZ) PPIR.05055</b>	A19	Conn. to B7/44	Eikenhof Pumping Station	50181
	B7	Zuikerbosch Pumping Station	Eikenhof Pumping Station	46819
	B9	No Data	No Data	No Data
	B14	No Data	No Data	No Data
	E2	Libanon Reservoir	Blyvooruitzicht	22784
	E4	Conn. to F4	Libanon Booster Station	20530
	E5	Libanon Booster Station	Conn. to E10	22632
	E6	Zuurbekom	Libanon Booster Station	19991
	E12	No Data	No Data	4156
	E15	Libanon Booster Station	Libanon Booster Station	500
	F5	Krugerdsorp Reservoir	Randfontein	12959
	F14	Conn. to F10/F8	Waterval Reservoir	5006
	F16	Conn. to F13	Conn. to F5	1520
	F19	No Data	No Data	No Data
	F25	Conn. to G22/G30	Waterval Reservoir	12539
	F29	Conn. to F5	Conn. to F28	7956
	F34	Conn. to Q2	Weltevreden Reservoir	9413
	F39	Conn. to F15	Conn. to Q3	9380
	F40	Conn. to F44/F32	Conn. to F5/P2	7177
	F47	No Data	No Data	No Data
	G29	Conn. to Q1/C18	Conn. to F30	9618
	G34	Meredale Reservoir	Conn. to F33	9932
	P1	Conn. to F5/F15	Rustenburg	86674
	P2	Conn. to F5/40	Rustenburg	81742

	P4	No Data	No Data	No Data
	Q2	Eikenhof Pumping Station	Conn. to F34	20820
	Q3	Eikenhof Pumping Station	Conn. to F39	13223
	Q5	Eikenhof Pumping Station	Conn. to F25	4223
	Meredale Reservoir 1 & 2 (in & outlet chambers)			
<b>Mapleton (MPZ)</b> <i>PPIR.05056;</i> <i>PPIR.04356;</i> <i>PPIR.04612</i>	H16	No Data	No Data	No Data
	H18	No Data	No Data	No Data
	H23	No Data	No Data	No Data
	H24	No Data	No Data	No Data
	H26	No Data	No Data	No Data
	H29	No Data	No Data	No Data
	L1	No Data	No Data	No Data
	L8	Brakpan Reservoir	Conn. to L10/L14	4312
	L10	Conn. to L8/L14	Modder East Reservoir	11505
	L14	Conn. to L8/L10	Conn. to L7/L12	1490
	M1	No Data	No Data	No Data
	M4	No Data	No Data	No Data
	M6	Selcourt Reservoir	Conn. to M8	9269
	M8	Selcourt Reservoir	Conn. to M9	5149
	M9	Conn. to M8	Brakpan Reservoir	4150
	N4	Selcourt Reservoir to Bloemendal Booster Station	Bloemendal Booster Station to Wildebeestfontein Reservoir	74057
	N6	Selcourt Reservoir to Bloemendal Booster Station	Bloemendal Booster Station to Wildebeestfontein Reservoir	73938
	R1	Conn. to S3	Bronberg Reservoir	34121
	S1	Mapleton Pump Station	Vlakfontein Reservoir	31263
	Wildebeest Reservoirs (in & outlet chambers)			
	Selcourt Reservoir			
<b>Palmiet (PMZ)</b> <i>PPIR.05057;</i> <i>PPIR.04878;</i> <i>PPIR.05133</i>	B6	Zuikerbosch Pumping Station	Palmiet Pumping Station	46342
	B10	Zuikerbosch Pumping Station	Palmiet Pumping Station	36221
	B12	Zuikerbosch Pumping Station	Eikenhof Pumping Station	5887
	B13	Zuikerbosch Pumping Station	Palmiet Pumping Station	12218
	C23	Conn. to C21	Conn. to C20	No Data
	G16	Conn. to G14	Conn. to G11	No Data
	G17	Conn. to G26	Conn. to J5/J5	9420
	G18	Conn. to G19	Conn. to G7/H4	8748

	G21	Conn. to G24/G33	Conn. to H3	12589
	G28	Conn. to G36/J6	Conn. to H3	3048
	G33	Conn. to G27	Conn. to G24/G21	3355
	G36	Conn. to O2	Conn. to J6	5417
	H3	Conn. to G7/J5 to Germiston Reservoir to Airfield Break Pressure	Airfield Break Pressure to Esselen Park Reservoir to Pretoria	49656
	H16	Conn. to H18/H23 to Srosranque Reservoir	Srosranque Reservoir to Ga-Rankuwa Reservoir	8160
	H18	Conn. to H22 to Hartebeesthoek Reservoir	Hartebeesthoek Reservoir to Conn. to H23/H16	12004
	H21	Klipfontein Reservoir	Conn. to H19	15361
	H22	Conn. to H19/H14	Conn. to H18	9592
	H23	Conn. to H18/H16	Ga-Rankuwa	6607
	H24	Conn. to H22	Pelindaba	15950
	H29	Conn. to H28/H14 to Hartebeesthoek Reservoir	Hartebeesthoek Reservoir to Srosranque Reservoir to Mabopane Reservoir	20087
	H35	Conn. to H33/H34	Conn. to H36/H24	No Data
	H36	Conn. to H35/H24	Hartebespoort	No Data
	H39	No Data	No Data	No Data
	O1	Palmiet Pumping Station	Klipriversberg Reservoir	No Data
	O2	Palmiet Pumping Station	Klipfontein Reservoir	32957
	O3	Palmiet Pumping Station	Klipriversberg Reservoir	No Data
	O5	Palmiet Pumping Station	Klipriversberg Reservoir	35119
	S1	Mapleton Pumping Station	Vlakfontein Reservoir	No Data
	S4	Mapleton Pumping Station	Conn. to S1/L16	No Data
<b>Raw Water (RW) PPIR.05097; P.03792</b>	A2	Intake 1 (from Vaal River)	Vereeniging Pumping Station	1340
	A3	Intake 1 (from Vaal River)	Vereeniging Pumping Station	1340
	A7	Intake 1 (from Vaal River)	Vereeniging Pumping Station	2385
	A11	Intake 1 (from Vaal River)	Vereeniging Pumping Station	385
	A15	Vereeniging Pumping Station	Sasolburg Pumping Station	17784
	A22	No Data	No Data	No Data
	B5	Raw water from Lethabo	Vereeniging Pumping Station	15244
	B11	Raw water from Lethabo	Vereeniging Pumping Station	7178
<b>Zwartkopjes (ZKZ)</b>	A10	Daleside Reservoir	Zwartkopjes Pumping Station	19050



<b>PPIR.05104</b>	A12	Vereeniging Pumping Station	Amanzimtoti	23720
	A14	Vereeniging Pumping Station	Zwartkopjes Pumping Station	26561
	A19	Vereeniging Pumping Station	Eikenhof Pumping Station	No Data
	B8	Zuikerbosch Pumping Station	Mapleton Pumping Station	No Data
	B13	No Data	No Data	No Data
	C16	Zwartkopjes Pumping Station	Meredale Reservoir	No Data
	C18	Zwartkopjes Pumping Station	Conn. to C16	No Data
	<b>Chambers inside Zwartkopjes Pumping Station</b>			
<b>Vereeniging (VGZ) PPIR.04616</b>	<b>Chambers inside Forest Hill Reservoir 2</b>			
	P.04616 Repair sump chamber at the flats at VGPS			

The breakdown of the scope according to the different disciplines is provided below.

### **C 3.2.1 Civil Scope of Work**

Refer to *Annexure 1 for Summaries of Work to Be Done on Chambers and Valves* viz condition assessment, refurbishment and re-construction

The civil scope of work envisioned for the contractor includes, but not limited to:

- Conduct safety inspection and detailed condition assessment of the structure (reinforced concrete and/ or masonry) and sundry items (steel access ladders, platforms, fibre reinforced plastic manhole cover and frame, and others) all the chambers along the pipelines listed in table 1, from start chainage to end chainage on each pipeline.
- Provide a conditional assessment report to Rand Water for approval prior to commencement of any work, stating the condition of all the chambers along the pipelines listed in *table 1*. Provide pictures, list the coordinates of the chambers, recommended remedial works required for each and any other relevant data.
- Coordination between the Pipeline, Mechanical and Civil design team for sizing of equipment (valves, meter, pipe specials and any other items to be housed in the chambers). Where the equipment is not meeting the functional requirements in terms of size of capacity, the existing chambers will be demolished and replaced with new ones.
- The chambers need to meet the structural integrity in terms of water retaining structures requirements in terms of BS8007, SANS 10160: 1-6, Health and Safety

and construction regulations 2014. Where the existing chambers fail to meet this requirement, they ought to be demolished and replaced with new ones.

- Design of cast in-situ valve chambers in accordance to Rand Water Functional Specification for Reinforced Concrete Valve Chambers (*where applicable*).
  - Reinforced concrete supports for all Non return valves
  - Reinforced concrete supports for all Isolation valves greater than and equal to 1400mm in diameter
- The chambers that are showing signs of deterioration and distress, should be demolished at the discretion of a Professional Engineer and communicated to Rand Water. Reconstruct using cast in-situ reinforced concrete for chambers housing meter connections, sluice gate, non-return and butterfly valves. For chambers housing air valves and scours valves, precast concrete shall be used, only in cases where the embedded depth is less than 5m, else use cast in-situ reinforced concrete. For scours and air valves inside or in the vicinity of wetlands, regardless of the embedded depth, use cast in-situ reinforced concrete. The Contractor's scope in this case will include the construction and design elements, including but not limited to the following (*where applicable*):
  - Provide a construction methodology to be approved by the Engineer;
  - Detection, re-routing (if required) and protection of services. Compiling and submission of a services detection report and drawings (AutoCAD and PDF) to Rand Water for acceptance prior to excavation;
  - Preliminary and detailed design reports;
  - Clearing and Grubbing;
  - Demarcation around the work site and fencing;
  - Removal of topsoil and stockpiling for later re-instatement;
  - Hand excavation to expose the underground services (where required);
  - Excavation for the cast in-situ reinforced concrete valve/meter connection chambers and precast valve chambers, disposing of spoil material and preparations of layer works;
  - Dismantling and storing of sundry items for later re-use if still in good condition (*where applicable*);
  - Demolition of the existing structures and dispose-off or stockpile of excess materials;

- Shoring and temporary works design and erections as part of formwork (through tieless formwork must be used for all the cast in-situ reinforced concrete chambers);
- Construction of the cast in-situ reinforced concrete chambers;
- Construction of the precast concrete valve chambers with cast in-situ base slab;
- Watertightness testing of the cast in-situ reinforced concrete chambers;
- Application of waterproofing membrane on the outer face chamber walls;
- Backfilling and compaction around the precast concrete and reinforced concrete chamber;
- Supply and install steel sundry items in the newly constructed valve chambers;
- Provide as-built drawings;
- Other components that the Contractor may deem necessary;
- Partial demolition of the structure and reconstruction (*where applicable*);
- Remedial work to be done on the existing chambers:
  - Remove existing damaged/ deteriorated steel sundry items and replace with new ones (wall mounted cat-ladders, grab rails, steel access platforms, manhole access cover and frame, etc.) in accordance to Rand Water standards;
  - Construction of access mass concrete steps in accordance to Rand Water standards;
  - Scanning for rebar of the reinforced concrete roof slab and conduct core drilling for the installation of PVC pipes in the cored openings above spindle tops (openings to be sealed and capped);
  - Construct/install a layer of reno-matress on the scour chambers (where applicable). The opening and reno-matress must be on the downhill side of the chamber;
- Re-instatement of the top soil;
- Reinstatement of structures damaged or relocated during construction to their preconstruction condition/location and making good of site;
- Rectification of all defects identified during the Defects Liability Period;

### C3.2.2 Mechanical and Pipeline Scope of Work

The Mechanical Scope of Work shall comprise of assessment, refurbishment or replacement of the valves. Assessment of valves shall provide the condition and state of valves and shall be carried out on an operational plant. In cases where isolation is required, detail method statement shall be furnished to Rand Water Engineer for acceptance by all stakeholder's prior the work being undertaken. Refer to *Annexure 1 for Summaries of Work To Be Done on Chambers and Valves*

The process to be adopted when conducting assessment of valves shall be undertaken as follows:

- a) Assess if replacement can be undertaken while valve is in-Situ, if it will not require system isolation or shutdown, should isolation be required:

Both upstream and downstream valves to be isolated and pump-out water in the area/s or chamber housing mechanical equipment.

- b) Should the valves require refurbishment, outline delivery timelines of the refurbishment work and ensure availability of critical valve spares for emergency.
- c) Where new valve to be installed, provide lead-times for the delivery of new valves.

It should be noted that removal, refurbishment and reinstallation of valve/s not to exceed 1.5 days.

Physical detail valve condition assessment shall also incorporate the requirements as outlined in detail below and Mechanical Assets or Engineer appointed shall be consulted where recommendations are made by the appointed contractor before any works can be undertaken on site.

Below, are components that require assessment while Identifying chamber for repairs in assessing why the chamber is filled with water. The following may be the cause:

- Valve glands leaking.
- Leakages through fittings.
- Leaking flanges.
- Corroded Casing.
- Ground water ingress.
- Pipe leaking.
- Rainwater from top.

The contractor shall assess on the affected valve (i.e. gate valves, butterfly valves, non-return valves, Laner Johnson PRV, Air Valves etc.) in the chambers. This

assessment shall include inspecting, operating (e.g. valve sealing and functions as intended).

**Valves shall be assessed as follows as a minimum:**

- Physical condition of the valve shall be established. The following shall be checked visually.
- That the valve is not broken.
- That the valve does not leak water from the body, flanges and the glands.
- Number of bolts is intact.
- That there is no corrosion on the valve. Painting of the valve body to be inspected.
- That the valve is supported.
- Functionability of the valve shall be established, that the valve seals in-situ.

**Refurbishment work that can be done in-situ will be as follows:**

- Replacement of the gate nut.
- Replacement of the gate.
- Replacement of the valve stem.
- Replacement and tightening of the valve glands.
- Painting and sandblasting of the valve in-Situ.
- Replacement of the hand wheel. (hand wheel can be replaced without isolating the line)

The above work will be done by isolating the downstream and upstream valves so that a valve in question can be worked on.

**The following will require a valve to be removed and taken out to a workshop for repairs:**

- Valve not sealing and requiring work on valve seat.

**The following will require the valve to be replaced:**

- Valve leaking from the body.
- All valves that are defective shall be repaired or replaced through the approval of the Rand Water Engineer.

**Information to be provided by the Contractor:**

- Valve number.
- Tag number.
- Type.
- Size, diameter and pressure.
- No of turns to open and close (if available).
- Indicator components.
- Torque to open and close.

**Information to be provided by the Employer to the Contractor:**

- Asset site.
- Site system.
- Plant status.
- WKS Number of chamber.
- GPS Co – ordinate.
- Year of manufacture.
- Date put into service.
- Design life span.
- Condition rating.
- Remaining life.
- Estimate replacement valve.
- General description on the condition of the valve.

### **C3.2.3 Electrical Scope of Work**

The Electrical Scope of work shall include the following, but not be limited to:

- A comprehensive test and assessment on the electrical installation and equipment shall be carried out by the contractor for each chamber with electrical services installed.
- Allow for the interface with all other disciplines to confirm if any additional equipment will be installed in chambers that needs to be included in the assessment parameters.
- A detailed report shall be issued to Rand Water regarding the test and assessment findings for each chamber.

- The test and assessment results shall be recorded and documented in a comprehensive report and the report shall include the following as a minimum, for each chamber:
  - Existing condition of installation at each chamber
  - Test report for each chamber complete with recommendations
  - Compilation of photographic evidence for each chamber
  - Details of existing power capacity
  - Spare power capacity available/required in the event that additional loads are added
  - Bill of quantities for the recommendations made per chamber
- Detail design, supply, manufacture, deliver, install, test and commission of complete electrical installations as per design criteria and Rand Water and National and International Standards.
- Replacement and upgrade of the non-compliant equipment and installations
- Decommissioning and removal of redundant equipment.
- Provide for new power requirements where other disciplines add larger or new loads such as actuators, sump pumps, etc.
- Based on the assessment findings where existing power supplies needs to be upgraded or new connections provided, the works shall include for the application process to the relevant supply authority, on behalf of Rand Water.
- Provision for power reticulation systems that can include underground cabling and overhead bundle conductor power lines, etc.
- Provision for Valve distribution boards at the points where valve actuators or a group of valve actuators will be installed by the Mechanical Engineer.
- Provision for sump pump control panels where pumps are installed by the Mechanical Engineer at the sites complete with level control systems.
- Provision for isolation panels at each actuator and sump pump.

- Cable installations complete with cable transit systems, cable racking and cable sealing systems.
- Cable excavations, backfilling and compaction in soft and rocky soil conditions.
- Earthing of all electrical installations complete with equipotential bonding off all equipment, panels and metal parts.
- Theft and vandal proofing of electrical infrastructure such as cables, earthing, distribution panels, isolation panels and sump pump control panels at chambers with a medium to high risk to vandalism and theft.
- The provision of all documentation, method statements, QCP's, test certificates, data sheets, equipment details, calculations, test reports, etc. forming part of the project complete with operating and maintenance manuals.
- Perform electrical certificate of compliance testing for each installation as per the latest requirements of SANS 10142-1.
- Provision for Auto Cad As built drawings, on the latest Rand Water templates, complete with WGS 29° coordinate site layouts indicating all cable routes and equipment positioning. All drawings and designs to be signed off by an ECSA registered Professional Electrical engineer. The drawings shall be supplied in Auto Cad Dwg files and PDF format.

#### **C3.2.4 Automation Scope of Work**

The Automation Scope of work for the various Rand Water chambers/ reservoir sites water balancing Valve Automation project shall include design, manufacture, supply, deliver, installation, configuration, testing and commission safely but not limited to the following:

- Provide a comprehensive test and assessment on the Automation installation and equipment shall be carried out by the contractor for each chamber with Automation services installed;
- Allow for the interface with all other disciplines to confirm if any additional equipment will be installed in chambers that needs to be included in the assessment parameters;



- A detailed report shall be issued to Rand Water regarding the test and assessment findings for each chamber;
- The test and assessment results shall be recorded and documented in a comprehensive report and the report shall include the following as a minimum, for each chamber:
- Existing condition of installation at each chamber;
- Test report for each chamber complete with recommendations;
- Compilation of photographic evidence for each chamber;
- Complete Automation network system detailed design;
- Complete Ethernet (Copper or Fibre) network system with all associated equipment's;
- Complete Profibus (Copper or Fibre) network system with all associated equipment's;
- Complete network system linking each new valve actuator for monitoring and control purposes;
- Bi-directional telemetry system at Central Depot to send close or open command to the Rand Water Reservoir sites actuators and receive status signals for each Rand Water site valve actuator;
- Telemetry system at Rand Water Reservoir sites to receive close or open command actuator signal from Central Depot Control Room and send valve actuator status signals to Central Depot and various District Superintendent;
- Remote I/O module that supports Ethernet to be hardwired to the sump pump and level sensor for each valve chamber;
- Level sensor to monitor water level on each valve chamber;
- Vandal theft proof Telemetry panel to locate the telemetry system;
- Vandal theft proof Junction Box to accommodate automation equipment's which will be located inside Automation Kiosk for each valve chamber;
- Vandal theft proof Automation Kiosk for each valve chamber to house the Junction Box;
- Cable installations complete with cable transit systems, cable racking and cable sealing systems;
- Cable excavations, backfilling and compaction in soft and rocky soil conditions;

- Earthing of all Automation installations complete with equipotential bonding off all equipment, panels and metal parts;
- SCADA software for Rand Water Reservoir sites valve actuators and deploy at Central Depot Control Room and various District Control Room;
- Update, Test and Commission existing historian system to log data of each monitoring equipment;
- Complete all the necessary Factory Acceptance Tests/Site Acceptance Tests (i.e. SCADA FAT) as stipulated in the RW specification;
- Conduct all relevant training to operators before project hand-over;
- Supply of all applicable maintenance, operating and technical manuals;

### C3.2.5 Cathodic Protection Scope of Work

The Cathodic Protection Scope of work shall include, but not limited to:

- AC mitigation design report to include : (Earth mats locations, Number of DC decouplers and locations, Number of voltages limiting device and locations) as per (RW ELS 00001 TS), Where applicable.
- Supply and install AC mitigation measures (earth mats, DC decouplers, Voltage limiting devices), Where applicable.
- Coating inspection
- Supply and install four Magnesium anodes per chamber (two either side) with a link panel.
- Supply and Install one Magnesium anodes at pipe's level inside the chamber to protect flooded valves
- Supply and install chamber monitoring point
- Supply and install Permanent Reference Electrolyte (PRE) and Coupon
- Supply and install Cross bonding across the valves (upstream and downstream)
- Supply and install IF kits with lightning arrestors, on the customer's tire-in points, actuated valves, magflow meters, where applicable.
- Supply and install Insulation material on the inlet and outlet to isolate the pipe from the chamber's re-bars.

Refer to *Annexure 1 for Summaries of Work to Be Done on Chambers and Valves*

### **C3.2.6 Rehabilitation of property**

No rehabilitation of any property in the project is anticipated at this phase of the project. Contractor to establish during the conditional assessment if rehabilitation of any property will be required and inform Rand Water.

### **C3.2.7 Road rehabilitation after the works**

Although it is anticipated that no road crossings will be affected by the refurbishment of the lining, however it is a possibility that there might be a need to open other road crossings due to unforeseen circumstances, therefore the following Road rehabilitation might be necessary:

- Establishment;
- Cut to spoil;
- Soft excavation.
- Ripping and compaction;
- G1 base stabilized material;
- G5 base stabilized material;
- Roadbed preparation;
- Asphalt;
- Prime coat;
- Road tests;

### **C3.2.8 Project Objectives**

The intent is to:

- Assess the condition of the concrete and masonry structures;
- Stop water leaks and attain water-tightness of the concrete structure;
- Attain/maintain structural integrity and service life of the concrete and masonry structure;
- Attain long-term serviceability (durability of the structure);
- Maintain pipeline functionality in its original state of design post repair work;
- Assess the condition of the mechanical equipment;
- Assess the condition of the pipeline equipment;

- Assess the condition of the electrical equipment and action where required;
- Assess the condition of the automation equipment;
- Assess the condition of the cathodic protection equipment;
- Do refurbishment for all identified defects and non-compliance according to relevant codes of practice and legislation/legal requirement;

### C3.2.9 Performance Requirements

The performance characteristics of completed works should be as follows:

- The refurbishment work shall not compromise the existing structure and their functionality thereof;
- Shutdown periods are often limited as Rand Water has a mandate to continuously supply water to meet its customers' needs. Thus, innovative designs and construction technologies are highly recommended;
- Materials used shall be quick setting and be sufficiently cured within the shutdown period.
- No leaks are permitted on completed concrete works;
- Completed works shall not have an adverse effect on the integrity and operations of the structure;
- All work is to be specified for long-term durability;

### C3.2.10 Project Constraints

The following project constraints have been identified:

- The contractor and his/her engineers shall undertake their own inspections to verify the information given to them and this shall be approved and agreed with the client/Rand Water prior to them starting actual work;
- Work will be done adjacent to or on an operating pipeline, or within existing services;
- Limited time to execute the tasks within the project, these include:
  - Shut down to be carried out in accordance with Rand Water Shutdown Protocol;

- Condition assessments including material integrity testing to establish the root cause of the leaks and deterioration;
- Executing the refurbishment work;
- Project unknowns due to limited information:
  - Limited information of the problem;
  - Limited information on the quantity of chambers;
- Accessibility and availability of adequate power points and capacity to power up relevant equipment to carry out the scope;

## PART C4: SITE INFORMATION

### C4. SITE INFORMATION

The Bidder must refer to **Annexure C4: Site Information** provided with this bid document.

**1. PROCUREMENT** (in relation to in the Standard for Developing Skills through Infrastructure Contracts (published in GN 43495 of 20 March 2020):

- a) The successful contractor may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).
- b) The successful contractor shall ensure that no single method shall contribute more than 75% of the CSDG for the contract.
- c) The successful contractor may only place 33% employed employees or that of his subcontractors contributing to the CSDG.
- d) The successful contractor must employ at least 60% of the learners from an FET / TVET college should the contractor select to have part/full occupational qualification learners and trade qualification learners contributing to the CSDG.
- e) The successful contractor shall employ at least **(number to be advised)** from eligible part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates in the employment of the employer.

**2. MANAGEMENT** (in relation to in the Standard for Developing Skills through Infrastructure Contracts (published in GN 43495 of 20 March 2020):

- a) The successful contractor must keep site records regarding the part/full occupational qualification learners', trade qualification learners', work integrated learners' or candidates' **(number to be advised)** progress, site attendance, hours worked and other relevant information as required by the Standard.
- b) The successful contractor shall provide the required number of appropriately qualified mentors to the maximum number of part/full occupational qualification learners, trade qualification learners, work integrated learners in the proportion as specified in the Standard.
- c) The successful contractor shall provide a supervisor to manage the training of the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates
- d) The successful contractor shall submit to the employer's representative a baseline training plan in the specified format (Pro-forma A2) for the part/full occupational

- qualification learners, trade qualification learners, work integrated learners, candidates within 30 days of start of the contract.*
- e) *The successful contractor shall submit to the employer's representative project interim report in the specified format (Pro-forma A3) on the progress of each of part/full occupational qualification learner, trade qualification learner, work integrated learner, candidate every three months.*
  - f) *The successful contractor shall submit to the employer's representative the names and particulars in the specified format (Pro-forma A4) of the supervisor, mentors for the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates **within** 30 days of start of the contract.*
  - g) *The successful contractor shall keep a daily record of all the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates on site and their daily activities and shall be made available to the employer's representative on request.*
  - h) *The successful contractor shall submit to the employer's representative the reports on the progress and status of the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates with the monthly invoice for the payment certificate.*
  - i) *The successful contractor shall have health and safety inductions for all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates*
  - j) *The successful contractor shall conduct entry and exit medical tests of all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates*
  - k) *The successful contractor shall provide personal protective equipment (PPE) to all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates at the start of their employment on site.*