



REQUEST FOR BID

BID NUMBER W 11397

ESTABLISHMENT OF A DATABASE FOR PROVISION OF THE LABORATORY SERVICES TO CONDUCT WATER QUALITY ANALYSIS FOR SURFACE, GROUND, DRINKING AND WASTEWATER SAMPLES FOR A PERIOD OF 36 MONTHS

ISSUE DATE:

01 FEBRUARY 2022

CLOSING DATE AND TIME

03 MARCH 2022 at 11H00

DUE TO COVID 19 RESTRICTIONS, THERE WILL BE NO BRIEFING SESSION

N.B: ALL PROSPECTIVE BIDDERS ARE REQUESTED TO SUBMIT/ PROVIDE BOTH HARD COPIES(x2) AND A SOFT COPY ON A USB OR DISC OF THEIR COMPLETE BID DOCUMENT. THIS IS DUE TO CURRENT PREDICAMENT WE FIND OURSELVES IN DUE TO COVID 19

SUBMIT TENDER DOCUMENT

POSTAL ADDRESS:
DIRECTOR-GENERAL: WATER AND
SANITATION
PRIVATE BAG X 313 PRETORIA, 0002

OR

TO BE DEPOSITED IN:
THE TENDER BOX AT THE
ENTRANCE OF ZWAMADAKA
BUILDING 157 FRANCIS BAARD STREET
(FORMERLY SCHOEMAN STREET)
PRETORIA
0002

Compulsory briefing session
N/A

TENDERER: (Company address and stamp)

**COMILED BY: MAPITSE WINNIE DOLAMO
DEPARTMENT OF WATER AND SANITATION**

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	W11397	CLOSING DATE:	03 March 2022	CLOSING TIME:	11H00
DESCRIPTION	ESTABLISHMENT OF A DATABASE FOR PROVISION OF THE LABORATORY SERVICES TO CONDUCT WATER QUALITY ANALYSIS FOR SURFACE, GROUND, DRINKING AND WASTEWATER SAMPLES FOR A PERIOD OF 36 MONTHS				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
TENDER BOX AT ZWAMADAKA BUILDING 157 FRANCIS BAARD STREET (FORMERLY SCHOEMAN STREET)					
PRETORIA, 0002					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Winnie Dolamo		CONTACT PERSON	Mr Paul Botes	
TELEPHONE NUMBER	012 336 8974		TELEPHONE NUMBER	082 881 1192	
FACSIMILE NUMBER	0864890777		FACSIMILE NUMBER	N/A	
E-MAIL ADDRESS	dolamow@dws.gov.za		E-MAIL ADDRESS	botes1P@dws.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).

2. TAX COMPLIANCE REQUIREMENTS

- 2.1. BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2. BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3. APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4. BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5. IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6. WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7. NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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

SIGNATURE OF BIDDER:

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

DATE:

PRICING SCHEDULE – FIRM PRICES
(Purchases)

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

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

Name of bidder.....	Bid number.....W 11397.....
Closing Time ... 11:00	Closing date..... 03 MARCH 2022.....

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

ANNEXURE A: DETERMINANTS, REPORTING UNITS AND PRICING (INCLUDING VAT)

ITEM #1

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.1			
GENERAL INORGANIC CONSTITUENTS			
• Ammonia as N	mg/l		
• Chloride (Cl ⁻)	mg/l		
• Calcium (Ca)	mg/l		
• Chemical Oxygen Demand (COD)	mg O ₂ /l		
• Colour	mg/l Pt		
• Corrosive Index	none		
• Dissolved Oxygen (DO)	mg/l		
• Dissolved solids	mg/l		
• EC (Electrical Conductivity)	mS/m at 25°C		
• Fluoride (F)	mg/l		
• Magnesium (Mg)	mg/l		
• Nitrate + nitrite as N	mg/l		
• Nitrate as N	mg/l		
• Nitrite as N	mg/l		

• Odour	TON	
• Orthophosphate as P	mg/l	
• Oxygen Absorbed (OA)	mg/l	
• pH (measured with a glass electrode)	pH units	
• Potassium (K)	mg/l	
• Silicates as Si	mg/l	
• Sodium (Na)	mg/l	

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
• Sodium Adsorption Ratio	SAR units		
• Sulphate (SO ₄ ²⁻)	mg/l		
• Suspended solids	mg/l		
• Taste	FTN		
• Total Alkalinity	mg CaCO ₃ /l		
• Total Dissolved Salts (TDS)	mg/l		
• Total Hardness	mg CaCO ₃ /l		
• Total Kjeldahl Nitrogen	mg/l		
• Total phosphate as P	mg/l		
• Turbidity	NTU		

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.2 a			
TRACE METALS (DISSOLVED)			
• Aluminium (Al)	mg/l or µg/l		
• Antimony (Sb)	mg/l or µg/l		
• Arsenic (As)	mg/l or µg/l		
• Beryllium (Be)	mg/l or µg/l		
• Boron (B)	mg/l or µg/l		
• Cadmium (Cd)	mg/l or µg/l		
• Chromium (Cr) (Cr ³⁺ and Cr ⁶⁺)	mg/l or µg/l		
• Chromium (Cr ⁶⁺) or Hexavalent Chromium	mg/l or µg/l		
• Cobalt (Co)	mg/l or µg/l		

• Copper (Cu)		mg/l or µg/l		
• Iron (Fe)		mg/l or µg/l		
• Lead (Pb)		mg/l or µg/l		
• Lithium (Li)		mg/l or µg/l		
• Manganese (Mn)		mg/l or µg/l		
• Mercury (Hg)		mg/l or µg/l		
• Molybdenum (Mo)		mg/l or µg/l		
• Nickel (Ni)		mg/l or µg/l		
• Selenium (Se)		mg/l or µg/l		
• Strontium (Sr)		mg/l or µg/l		
• Tin (Sn)		mg/l or µg/l		
• Uranium (U)		mg/l or µg/l		
• Vanadium (V)		mg/l or µg/l		
• Zinc (Zn)		mg/l or µg/l		
Price when full analysis group 1.2a request for a sample				

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.2 b			
• TRACE METALS (ACID SOLUABLE)			
• Aluminium (Al)	mg/l or µg/l		
• Antimony (Sb)	mg/l or µg/l		
• Arsenic (As)	mg/l or µg/l		
• Beryllium (Be)	mg/l or µg/l		
• Boron (B)	mg/l or µg/l		
• Cadmium (Cd)	mg/l or µg/l		
• Chromium (Cr) (Cr ³⁺ and Cr ⁶⁺)	mg/l or µg/l		
• Cobalt (Co)	mg/l or µg/l		
• Copper (Cu)	mg/l or µg/l		
• Iron (Fe)	mg/l or µg/l		
• Lead (Pb)	mg/l or µg/l		
• Lithium (Li)	mg/l or µg/l		
• Manganese (Mn)	mg/l or µg/l		
• Mercury (Hg)	mg/l or µg/l		
• Molybdenum (Mo)	mg/l or µg/l		
• Nickel (Ni)	mg/l or µg/l		
• Selenium (Se)	mg/l or µg/l		
• Strontium (Sr)	mg/l or µg/l		
• Tin (Sn)	mg/l or µg/l		
• Uranium (U)	mg/l or µg/l		
• Vanadium (V)	mg/l or µg/l		
• Zinc (Zn)	mg/l or µg/l		
Price when full analysis group 1.2b request for a sample			

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.3			
DISINFECTANTS AND TOXIC ANIONS:			
• Cyanide (total)	µg/l		
• Recoverable Cyanide as CN ⁻	µg/l		
• Free available chlorine	mg/l		
• Residual Chlorine	mg/l		
• Monochloramine	mg/l		
GROUP 1.4			
MICROBIOLOGICAL CONSTITUENTS:			
• Clostridia	counts/100ml		
• Cryptosporidium	counts/10l		
• Cytopathogenic viruses	counts/100l		
• E. coli	counts/100ml		
• Enteroviruses			
• Faecal coliforms	counts/100ml		
• Faecal streptococci	counts/100ml		
• Giardia	counts/10l		
• Heterotrophic Plate Count	counts/1ml		
• Salmonella species			
• Shigella species			
• Standard total plate count	counts/ml		
• Somatic Coliphages	counts/10ml		
• Total coliforms	counts/100ml		
• Vibrio species			

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.5			
• BIOLOGICAL CONSTITUENTS:			
• Algal Identification	Identified Algal Species		
• Biological Oxygen Demand (BOD)	mg/l		
• Chlorophyll a	mg/l or µg/l		
• Geosmin	µg/l		
• Microcystin (ELISA test)	µg/l		
GROUP 1.6			
• GENERAL ORGANIC CONSTITUENTS:			
• Dissolved Organic Content as C (DOC)	mg/l		
• Total Organic Content (TOC)	mg/l		

ITEM #2			
CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 2.1			
PARAMETERS FOR SOIL ANALYSES:			
• Cation-exchange capacity	c mol (+)/Kg		
• Dispersivity			
• pH	pH units		
• Electrical resistance of a soil paste	mS/m		
• Moisture			
• Particle size			
• Sodium absorption ratio / Sodicity			
• Exchangeable acidity	c mol (+)/Kg		
• P-extraction (Bray1 or Bray 2)	mg/Kg		
• Nitrogen determination			
• Extractable boron	mg/Kg		
• Total fluoride	mg/Kg		
• Water soluble cations of a saturation extract	mg/Kg		

ITEM #3

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 3.1			
ORGANIC CONSTITUENTS:			
• Soap, Oil and grease	mg/l		
Trihalomethanes (THMs)			
• Chloroform	µg/l		
• Bromoform	µg/l		
• Bromodichloromethane	µg/l		
• Dibromochloromethane	µg/l		
Volatile organic compounds (VOCs)			
• Carbon Tetrachloride	µg/l		
• 1,1,1-Trichloroethane	µg/l		
• Trichloroethylene	µg/l		
• Tetrachloroethylene	µg/l		
• 1,2-Dichloroethane	µg/l		
• 1,2-Dichloropropane	µg/l		
• Toluene	µg/l		
• Chlorobenzene	µg/l		
• 1,4-Dichlorobenzene	µg/l		
• 1,3-Dichlorobenzene	µg/l		
• Phenols (Total)	µg/l		

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
Polychlorinated Biphenyls (PCBs)			
• Arochlor 1254	µg/l		
• Arochlor 1260	µg/l		
Pesticides			
• Acetochlor	µg/l		
• Aldrin	µg/l		
• Atrazine	µg/l		
• BHC-alpha	µg/l		
• BHC-beta	µg/l		
• BHC-delta	µg/l		
• Chlordane cis (alpha)	µg/l		
• Chlordane trans (gamma)	µg/l		
• Chlordecone	µg/l		
• DDD 4,4'	µg/l		
• DDE 4,4'	µg/l		
• DDT 4,4'	µg/l		
• Dieldrin	µg/l		
• Endosulfan alpha	µg/l		
• Endosulfan beta			
• Endosulfan SO ₄	µg/l		
• Endrin	µg/l		
• Heptachlor	µg/l		
• Heptachlor-epoxide	µg/l		
• Lindane (BHC gamma)	µg/l		

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
• Methamidophos	µg/l		
• Mirex	µg/l		
• Monocrotophos	µg/l		
• Pentachlorobenzene	µg/l		
• Simazine	µg/l		
• Terbutylazine	µg/l		
• Toxaphene	µg/l		
PAH			
• Acenaphthylene	µg/l		
• Benzo (a) pyrene	µg/l		
• Fluoranthrene	µg/l		
• Naphthalene	µg/l		
• Phenanthrene	µg/l		
PHTHALATES			
• Di-butyl phthalate	µg/l		
• Di-ethyl phthalate	µg/l		
• Dihexyl phthalate	µg/l		
• Dimethyl phthalate	µg/l		
• Dioctyl phthalate	µg/l		
DIOXINS and FURANS			
• Carbofuran	µg/l		
• Dibenzofuran	µg/l		
• Pentafurans	µg/l		
PCB's (any combination of the congeners)			
• PCB-77,81,105,114,118,123,126,156,157,167,169,189	µg/l		
Flame Retardants			
• Hephta-BDE	µg/l		
• Hexa-BB (PBB)	µg/l		
• Hexabromocyclododecane (HBCD)	µg/l		

• Hexa-BDE	µg/l	
• Penta-BDE	µg/l	
• Tetra-BDE	µg/l	
PFOs		
• Perfluorooctane sulfonic acid (PFOS)	µg/l	
• Perfluorooctane sulfonyl fluoride (PFOS-F)	µg/l	
General qualitative organic compound scan	presence	

ITEM #4			
CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 4.1			
RADIOACTIVITY CONSTITUENTS:			
• Gross alpha activity	Bq/l		
• Gross beta activity	Bq/l		
• Uranium-234			
• Uranium-238			
• Radium-223			
• Radium-224			
• Radium-226			
• Radium-228			
• Thorium-228			
• Thorium-230			
• Thorium-232			
• Polonium-210			
• Lead-210			
• Chemical Uranium concentration	µg/l		

ITEM #5				
CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE	
GROUP 5.1				
PARAMETERS IN ESTUARINE WATER:				
• Ammonia as N	mg/l			
• Chlorophyll a	mg/l or µg/l			
• E. coli	counts/100ml			
• Enterococci	counts/100ml			
• Nitrate + nitrite as N	mg/l			
• Nitrate as N	mg/l			
• Nitrite as N	mg/l			
• Orthophosphate as P	mg/l			
• Silica	mg/l			

SIGNATURE OF BIDDER.....DATE.....

ANNEXURE B: DETECTION LIMITS and/or METHODS

Typical achievable detection limits must be given. Indicate the analytical method used and whether analysis is done in-house or by use of a subcontractor.

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
ITEM 1			
GROUP 1.1			
GENERAL INORGANIC CONSTITUENTS			
• Ammonia as N			
• Chloride (Cl ⁻)			
• Calcium (Ca)			
• Chemical Oxygen Demand (COD)			
• Colour			
• Corrosive Index			
• Dissolved Oxygen (DO)			
• Dissolved solids			
• EC (Electrical Conductivity)			
• Fluoride (F)			
• Magnesium (Mg)			
• Nitrate + nitrite as N			
• Nitrate as N			
• Nitrite as N			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN-HOUSE/SUBCONTRACTOR)
• Odour			
• Orthophosphate as P			
• Oxygen Absorbed (OA)			
• pH (measured with a glass electrode)			
• Potassium (K)			
• Silicates as Si			
• Sodium (Na)			
• Sodium Adsorption Ratio			
• Sulphate (SO_4^{2-})			
• Suspended solids			
• Taste			
• Total Alkalinity			
• Total Dissolved Salts (TDS)			
• Total Hardness			
• Total Kjeldahl Nitrogen			
• Total phosphate as P			
• Turbidity			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN-HOUSE/SUBCONTRACTOR)
GROUP 1.2 a and b			
TRACE METALS (DISSOLVED)			
• Aluminium (Al)			
• Antimony (Sb)			
• Arsenic (As)			
• Beryllium (Be)			
• Boron (B)			
• Cadmium (Cd)			
• Chromium (Cr) (Cr^{3+} and Cr^{6+})			
• Chromium (Cr^{6+}) or Hexavalent Chromium			
• Cobalt (Co)			
• Copper (Cu)			
• Iron (Fe)			
• Lead (Pb)			
• Lithium (Li)			
• Manganese (Mn)			
• Mercury (Hg)			
• Molybdenum (Mo)			
• Nickel (Ni)			
• Selenium (Se)			
• Strontium (Sr)			
• Tin (Sn)			
• Uranium (U)			
• Vanadium (V)			
• Zinc (Zn)			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN-HOUSE/SUBCONTRACTOR)
GROUP 1.3			
DISINFECTANTS AND TOXIC ANIONS:			
• Cyanide (total)			
• Recoverable Cyanide as CN ⁻			
• Free available chlorine			
• Residual Chlorine			
• Monochloramine			
GROUP 1.4			
MICROBIOLOGICAL CONSTITUENTS:			
• Clostridia			
• Cryptosporidium			
• Cytopathogenic viruses			
• E. coli			
• Enteroviruses			
• Faecal coliforms			
• Faecal streptococci			
• Giardia			
• Heterotrophic Plate Count			
• Salmonella species			
• Shigella species			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Somatic Coliphages			
• Total coliforms			
• Vibrio species			
GROUP 1.5			
BIOLOGICAL CONSTITUENTS:			
• Algal Identification			
• Biological Oxygen Demand (BOD)			
• Chlorophyll a			
• Geosmin			
• Microcystin (ELISA test)			
GROUP 1.6			
GENERAL ORGANIC CONSTITUENTS:			
• Dissolved Organic Content as C (DOC)			
• Total Organic Content (TOC)			
• E. coli			
• Faecal streptococci			
• <i>Salmonella</i> species			
CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Shigella species			
• Clostridia			
• Vibrio species			
• Enteroviruses			

ITEM 2			
GROUP 2.1			
PARAMETERS FOR SOIL ANALYSES:			
• Cation-exchange capacity			
• Dispersivity			
• pH			
• Electrical resistance of a soil paste			
• Moisture			
• Particle size			
• Sodium absorption ratio / Sodicity			
• Exchangeable acidity			
• P-extraction (Bray1 or Bray 2)			
• Nitrogen determination			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Extractable boron			
• Total fluoride			
• Water soluble cations of a saturation			
ITEM 3			
GROUP 3.1			
ORGANIC CONSTITUENTS:			
• Soap, Oil and grease			
Trihalomethanes (THMs)			
• Chloroform			
• Bromoform			
• Bromodichloromethane			
• Dibromochloromethane			
Volatile organic compounds (VOCs)			
• Carbon Tetrachloride			
• 1,1,1-Trichloroethane			
• Trichloroethylene			
• Tetrachloroethene			
• 1,2-Dichloroethane			
CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• 1,2-Dichloropropane			
• Toluene			

• Chlorobenzene			
• 1,4-Dichlorobenzene			
• 1,3-Dichlorobenzene			
• Phenols (Total)			
Polychlorinated Biphenyls (PCBs)			
• Arochlor 1254			
• Arochlor 1260			
• Pesticides			
• Acetochlor			
• Aldrin			
• Atrazine			
• BHC-alpha			
• BHC-beta			
• BHC-delta			
• Chlordane cis (alpha)			
• Chlordane trans (gamma)			
• Chlordecone			
• DDD 4,4'			
• DDE 4,4'			
• DDT 4,4'			
CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Dieldrin			
• Endosulfan alpha			
• Endosulfan beta			
• Endosulfan SO ₄			
• Endrin			
• Heptachlor			
• Heptachlor-epoxide			

• Lindane (BHC gamma)			
• Methamidophos			
• Mirex			
• Monocrotophos			
• Pentachlorobenzene			
• Simazine			
• Terbutylazine			
• Toxaphene			
• PAH			
• Acenaphthylene			
• Benzo (a) pyrene			
• Fluoranthrene			
• Naphthalene			
• Phenanthrene			
• PHTHALATES			
• Di-butyl phthalate			
• Di-ethyl phthalate			
• Dihexyl phthalate			
CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Dimethyl phthalate			
• Dioctyl phthalate			
DIOXINS and FURANS			
• Carbofuran			
• Dibenzofuran			
• Pentafurans			
PCB's (any combination of the congeners)			
• PCB- 77,81,105,114,118, 123,126,156,157,1			

67,169,189			
Flame Retardants			
• Hephta-BDE			
• Hexa-BB (PBB)			
• Hexabromocycloclodo decane (HBCD)			
• Hexa-BDE			
• Penta-BDE			
• Tetra-BDE			
PFOs			
• Perfluorooctane sulfonic acid (PFOS)			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Perfluorooctane sulfonfyl fluoride (PFOS-F)			
ITEM 4			
GROUP 4.1			
RADIOACTIVITY CONSTITUENTS:			
• Gross alpha activity			
• Gross beta activity			
• Uranium-234			
• Uranium-238			
• Radium-223			
• Radium-224			
• Radium-226			
• Radium-228			
• Thorium-228			
• Thorium-230			
• Thorium-232			
• Polonium-210			
• Lead-210			
• Chemical Uranium concentration			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
ITEM 5			
GROUP 5.1			
PARAMETERS IN ESTUARINE WATER:			
• Ammonia as N			
• Chlorophyll a			
• E. coli			
• Enterococci			
• Nitrate + nitrite as N			
• Nitrate as N			
• Nitrite as N			
• Orthophosphate as P			
• Silica			

SIGNATURE OF BIDDER..... DATE.....

ANNEXURE C: ANALYTICAL CAPACITY

The present analytical capacity should be given in terms of the number of completed analyses that can be handled per month:

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
ITEM 1		
GROUP 1.1		
GENERAL INORGANIC CONSTITUENTS		
• Ammonia as N		
• Chloride (Cl ⁻)		
• Calcium (Ca)		
• Chemical Oxygen Demand (COD)		
• Colour		
• Corrosive Index		
• Dissolved Oxygen (DO)		
• Dissolved solids		
• EC (Electrical Conductivity)		
• Fluoride (F)		
• Magnesium (Mg)		
• Nitrate + nitrite as N		
• Nitrate as N		
• Nitrite as N		
• Orthophosphate as P		
• Total phosphate as P		
• Odour		
• Orthophosphate as P		
• Oxygen Absorbed (OA)		
• pH (measured with a glass electrode)		
• Potassium (K)		
• Silicates as Si		
• Sodium (Na)		
• Sodium Adsorption Ratio		
• Sulphate (SO ₄ ²⁻)		
• Suspended solids		
• Taste		
• Total Alkalinity		
• Total Dissolved Salts (TDS)		
• Total Hardness		
• Total Kjeldahl Nitrogen		
• Total phosphate as P		
• Turbidity		
CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
GROUP 1.2 a and b		

TRACE METALS (DISSOLVED)		
• Aluminium (Al)		
• Antimony (Sb)		
• Arsenic (As)		
• Beryllium (Be)		
• Boron (B)		
• Cadmium (Cd)		
• Chromium (Cr) (Cr ³⁺ and Cr ⁶⁺)		
• Chromium (Cr ⁶⁺) or Hexavalent Chromium		
• Cobalt (Co)		
• Copper (Cu)		
• Iron (Fe)		
• Lead (Pb)		
• Lithium (Li)		
• Manganese (Mn)		
• Mercury (Hg)		
• Nickel (Ni)		
• Selenium (Se)		
• Strontium (Sr)		
• Tin (Sn)		
• Uranium (U)		
• Vanadium (V)		
• Zinc (Zn)		
GROUP 1.3		
DISINFECTANTS AND TOXIC ANIONS:		
• Cyanide (total)		
• Recoverable Cyanide as CN ⁻		
• Free available chlorine		
• Residual Chlorine		
• Monochloramine		
GROUP 1.4		
MICROBIOLOGICAL CONSTITUENTS:		
• Clostridia		
• Cryptosporidium		
• Cytopathogenic viruses		
CONSTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
• E. coli		
• Enteroviruses		
• Faecal coliforms		
• Faecal streptococci		
• Giardia		
• Heterotrophic Plate Count		
• Salmonella species		

• Shigella species		
• Standard total plate count		
• Somatic Coliphages		
• Total coliforms		
• Vibrio species		
GROUP 1.5		
BIOLOGICAL CONSTITUENTS:		
• Algal Identification		
• Biological Oxygen Demand (BOD)		
• Chlorophyll a		
• Geosmin		
• Microcystin (ELISA test)		
GROUP 1.6		
GENERAL ORGANIC CONSTITUENTS:		
• Dissolved Organic Content as C (DOC)		
• Total Organic Content (TOC)		
ITEM 2		
GROUP 2.1		
PARAMETERS FOR SOIL ANALYSES:		
• Cation-exchange capacity		
• Dispersivity		
• pH		
• Electrical resistance of a soil paste		
• Moisture		
• Particle size		
• Sodium absorption ratio / Sodicity		
• Exchangeable acidity		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
• P-extraction (Bray1 or Bray 2)		
• Nitrogen determination		
• Extractable boron		
• Total fluoride		
• Water soluble cations of a saturation extract		
ITEM 3		
GROUP 3.1		
ORGANIC CONSTITUENTS:		
• Soap, Oil and grease		
• Trihalomethanes (THMs)		
• Chloroform		
• Bromoform		
• Bromodichloromethane		
• Dibromochloromethane		
Volatile organic compounds (VOCs)		
• Carbon Tetrachloride		
• 1,1,1-Trichloroethane		
• Trichloroethylene		
• Tetrachloroethylene		
• 1,2-Dichloroethane		
• 1,2-Dichloropropane		
• Toluene		
• Chlorobenzene		
• 1,4-Dichlorobenzene		
• 1,3-Dichlorobenzene		
• Phenols (Total)		
Polychlorinated Biphenyls (PCBs)		
• Arochlor 1254		
• Arochlor 1260		
Pesticides		
• Acetochlor		
• Aldrin		
• Atrazine		
• BHC-alpha		
• BHC-beta		
• BHC-delta		
CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
• Chlordane cis (alpha)		
• Chlordane trans (gamma)		

• Chlordecone		
• DDD 4,4'		
• DDE 4,4'		
• DDT 4,4'		
• Dieldrin		
• Endosulfan alpha		
• Endosulfan beta		
• Endosulfan SO ₄		
• Endrin		
• Heptachlor		
• Heptachlor-epoxide		
• Lindane (BHC gamma)		
• Methamidophos		
• Mirex		
• Monocrotophos		
• Pentachlorobenzene		
• Simazine		
• Terbutylazine		
• Toxaphene		
PAH		
• Acenaphthylene		
• Benzo (a) pyrene		
• Fluoranthrene		
• Napthalene		
• Phenanthrene		
•		
PHTHALATES		
• Di-butyl phthalate		
• Di-ethyl phthalate		
• Dihexyl phthalate		
• Dimethyl phthalate		
• Dioctyl phthalate		
•		
DIOXINS and FURANS		
• Carbofuran		
• Dibenzofuran		
• Pentafurans		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
PCB's (any combination of the congeners)		
<ul style="list-style-type: none"> PCB-77,81,105,114,118,123,126,156,157,167,169,189 		
Flame Retardants		
<ul style="list-style-type: none"> Hephta-BDE Hexa-BB (PBB) Hexabromocyclododecane (HBCD) Hexa-BDE Penta-BDE Tetra-BDE 		
PFOs		
<ul style="list-style-type: none"> Perfluorooctane sulfonic acid (PFOS) Perfluorooctane sulfonyl fluoride (PFOS-F) 		
<ul style="list-style-type: none"> General qualitative organic compound scan 		
ITEM 4		
GROUP 4.1		
RADIOACTIVITY CONSTITUENTS:		
<ul style="list-style-type: none"> Gross alpha activity Gross beta activity Uranium-234 Uranium-238 Radium-223 Radium-224 Radium-226 Radium-228 Thorium-228 Thorium-230 Thorium-232 Polonium-210 Lead-210 Chemical Uranium concentration 		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
ITEM 5		
GROUP 5.1		
RADIOACTIVITY CONSTITUENTS:		
• Ammonia as N		
• Chlorophyll a		
• E. coli		
• Enterococci		
• Nitrate + nitrite as N		
• Nitrate as N		
• Nitrite as N		
• Orthophosphate as P		
• Silica		

SIGNATURE OF BIDDER.....DATE.....

ANNEXURE D: QUESTIONNAIRE

If the information required in respect of each item cannot be inserted in the space provided, additional information may be provided on a separate sheet of paper with a suitable reference to the questionnaire number concerned.

QUESTIONNAIRE	REPLY (YES/NO where necessary specify)
1. Are the prices quoted firm for the full period of the contract? (i.e., no adjustments as per paragraphs 17.1 of General Conditions of Contract.	
2. If the Analytical Service Provider prices are not firm for the full period, provide details against the appropriate category(i.e) below: <ul style="list-style-type: none"> • Semi-firm prices linked to statutory adjustments. (as per paragraphs 17.1 of General Conditions of Contract.) • Non-firm prices, i.e., prices linked to other proven adjustments (as per paragraphs 17.1 of General Conditions of Contract.) • Prices linked to fixed period adjustments. • Prices linked to escalation formula adjustments (as per paragraphs 17.1 of General Conditions of Contract.) 	
3. Are the analytical methods fully documented?	
4. Are your analytical methods accredited?	
5. Are full records of analytical data kept for at least five years?	
6. Does the analyst in charge of the laboratory have at least five years' experience in analytical work?	
7. Does the laboratory supervisor have applicable qualifications?	
8. What is the present analytical capacity per month?	
9. What is the turnaround time between submission of samples, and provision of the analytical report?	
10. Is an example of your analytical report attached?	
11. Are details attached regarding the safe disposal of your waste?	
12. Is documented proof of the analytical performance attached?	
13. Is a fully documented description of the analytical methods attached?	
14. Is documented proof of quality control procedures attached?	
15. Are curriculum vitae of Technical Signatories attached?	
16. Are examples of an affidavit and form to establish chain of custody attached?	
17. Is Annexures A-D completed as specified?	
18. Is section 4 completed as specified?	
19. List any other attachments not specified above.	

SIGNATURE OF BIDDER.....DATE.....

Any enquiries regarding bidding procedures may be directed to the

Department: Department of Water and Sanitation

Contact Person: Winnie Dolamo

Tel: 012 336 8974

E-mail address: dolamow@dws.gov.za

or

ANY ENQUIRIES REGARDING TECHNICAL INFORMATION MAY BE DIRECTED TO:

Mr. Paul Botes

Tel: 082 881 1192

Fax: N/A

E-mail address: botes1P@dws.gov.za

DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes an advertised competitive bid, a limited bid, a proposal or written price quotation). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-
 - the bidder is employed by the state; and/or
 - the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.
2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**
 - 2.1 Full Name of bidder or his or her representative:
 - 2.2 Identity Number:.....
 - 2.3 Position occupied in the Company (director, trustee, shareholder², member):
.....
 - 2.4 Registration number of company, enterprise, close corporation, partnership agreement or trust:
.....
 - 2.5 Tax Reference Number:.....
 - 2.6 VAT Registration Number:
 - 2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / PERSAL numbers must be indicated in paragraph 3 below.

¹"State" means –

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

(b) any municipality or municipal entity;

(c) provincial legislature;

(d) national Assembly or the national Council of provinces; or

(e) Parliament.

²"Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.
 - 2.7 Are you or any person connected with the bidder
presently employed by the state? **YES / NO**

2.7.1 If so, furnish the following particulars:
 Name of person / director / trustee / shareholder/ member:
 Name of state institution at which you or the person
 Connected to the bidder is employed:
 Position occupied in the state institution:

Any other particulars:

2.7.2 If you are presently employed by the state, did you obtain **YES / NO**
 the appropriate authority to undertake remunerative
 work outside employment in the public sector?

2.7.2.1 If yes, did you attach proof of such authority to the bid **YES / NO**
 Document?

(Note: Failure to submit proof of such authority, where
 applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....

2.8 Did you or your spouse, or any of the company's directors / **YES / NO**
 Trustees / shareholders / members or their spouses conduct
 Business with the state in the previous twelve months?

2.8.1 If so, furnish particulars:

.....

2.9 Do you, or any person connected with the bidder, have **YES / NO**
 any relationship (family, friend, other) with a person
 employed by the state and who may be involved with
 the evaluation and or adjudication of this bid?
 2.9.1 If so, furnish particulars.

.....

2.10 Are you, or any person connected with the bidder, **YES/NO**
 aware of any relationship (family, friend, other) between
 any other bidder and any person employed by the state
 who may be involved with the evaluation and or adjudication
 of this bid? If so, furnish particulars.

.....

2.11 Do you or any of the directors / trustees / shareholders / members **YES/NO**
of the company have any interest in any other related companies
whether or not they are bidding for this contract?

2.11.1 If so, furnish particulars:

.....

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

Full Name	Identity Number	Personal Income Tax Reference Number	Employee Number / Persal Number

4 DECLARATION

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

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT. I
ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME
SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

Signature

.....

Date

.....

Position

.....

Name of bidder

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

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

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

1. GENERAL CONDITIONS

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

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

1.2

- a) The value of this bid is estimated to ~~exceed/not exceed~~ R50 000 000 (all applicable taxes included) and therefore the **80/20** preference point system shall be applicable; or
- b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3 Points for this bid shall be awarded for:

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

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

	POINTS
PRICE	90
B-BBEE STATUS LEVEL OF CONTRIBUTOR	10
Total points for Price and B-BBEE must not exceed	100

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

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

2. DEFINITIONS

- (a) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **"B-BBEE status level of contributor"** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of

the Broad-Based Black Economic Empowerment Act;

- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“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 80 or 90 points is allocated for price on the following basis:

80/20

or

90/10

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

Where

P_s = Points scored for price of bid under consideration

P_t = Price of bid under consideration

P_{\min} = 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)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

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 last 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		
OR		
Any EME		
Any QSE		

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 *audialterampartem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution.

WITNESSES

- 1.
- 2.

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

DATE:
ADDRESS
.....
.....

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be disregarded if that bidder, or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

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

CERTIFICATION

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

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

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Institution)

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

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)

- (c) methods, factors or formulas used to calculate prices;
- (d) the intention or decision to submit or not to submit, a bid;
- (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
- (f) bidding with the intention not to win the bid.

8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.

9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

GOVERNMENT PROCUREMENT GENERAL CONDITIONS OF CONTRACT

NOTES

The purpose of this document is to:

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

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

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

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General Conditions of Contract

- 1. Definitions** 1. The following terms shall be interpreted as indicated:
- 1.1 "Closing time" means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 "Contract" means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 "Contract price" means the price payable to the supplier under the contract for the full and proper performance of his contractual obligations.
 - 1.4 "Corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 "Countervailing duties" are imposed in cases where an enterprise abroad is subsidized by its government and encouraged to market its products internationally.
 - 1.6 "Country of origin" means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
 - 1.7 "Day" means calendar day.
 - 1.8 "Delivery" means delivery in compliance of the conditions of the contract or order.
 - 1.9 "Delivery ex stock" means immediate delivery directly from stock actually on hand.
 - 1.10 "Delivery into consignees store or to his site" means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
 - 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
 - 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
 - 1.13 "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the bidder of the benefits of free and open competition.
 - 1.14 "GCC" means the General Conditions of Contract.
 - 1.15 "Goods" means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
 - 1.16 "Imported content" means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty,

sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.

- 1.17 "Local content" means that portion of the bidding price which is not included in the imported content provided that local manufacture does take place.
- 1.18 "Manufacture" means the production of products in a factory using labour, materials, components and machinery and includes other related value-adding activities.
- 1.19 "Order" means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 "Project site," where applicable, means the place indicated in bidding documents.
- 1.21 "Purchaser" means the organization purchasing the goods.
- 1.22 "Republic" means the Republic of South Africa.
- 1.23 "SCC" means the Special Conditions of Contract.
- 1.24 "Services" means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance and other such obligations of the supplier covered under the contract.
- 1.25 "Written" or "in writing" means handwritten in ink or any form of electronic or mechanical writing.

2. Application.

- 2.1 These general conditions are applicable to all bids, contracts and orders including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.
- 2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.
- 2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

- 3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable a non-refundable fee for documents may be charged.
- 3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za

4. Standards

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

5. Use of contract documents and information; inspection.

- 5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1 except for purposes of performing the contract.
- 5.3 Any document, other than the contract itself mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.
- 5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights.

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

7. Performance security

- 7.1 Within thirty (30) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.3 The performance security shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the purchaser and shall be in one of the following forms:
 - (a) A bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - (b) A cashier's or certified cheque
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in SCC.

8. Inspections, tests and analyses

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

- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organization acting on behalf of the Department
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analyzed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

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

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

11. Insurance

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

12. Transportation

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

13. Incidental services

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

- (a) Performance or supervision of on-site assembly and/or commissioning of the supplied goods;
- (b) Furnishing of tools required for assembly and/or maintenance of the supplied goods;
- (c) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
- (d) Performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) Training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

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

14. Spare parts

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

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

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that

all goods supplied under this contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications) or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

- 15.2 This warranty shall remain valid for twelve (12) months after the goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in SCC.
- 15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in SCC.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated in SCC.

17. Prices

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

18. Contract amendments

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

19. Assignment

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

20. Subcontracts

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

21. Delays in the supplier's performance

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

- 21.2 If at any time during performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.
- 21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.
- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

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

23. Termination for default

- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) If the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
 - (b) If the Supplier fails to perform any other obligation(s) under the contract; or
 - (c) If the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.
- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.
- 23.5 Any restriction imposed on any person by the Accounting Officer / Authority will, at the discretion of the Accounting Officer / Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person, is or was in the opinion of the Accounting Officer / Authority actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- (i) The name and address of the supplier and / or person restricted by the purchaser;
 - (ii) The date of commencement of the restriction
 - (iii) The period of restriction; and
 - (iv) The reasons for the restriction.

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

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

24. Anti-dumping and countervailing duties and rights

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

25. Force Majeure

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

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

26. Termination for insolvency

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

27. Settlement of Disputes

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

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

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

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

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

- (a) The parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and

- (b) The purchaser shall pay the supplier any monies due the supplier.

28. Limitation of liability

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

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

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

29. Governing language

- 29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that exchanged by the parties shall also be written in English.

30. Applicable law

- 30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in SCC.

31. Notices

- 31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail and any other notice to him shall be posted by ordinary mail to the address furnished in his bid or to the address notified later by him in writing and such posting shall be deemed to be proper service of such notice.
- 31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and duties

- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate, submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

- 33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation

34. Prohibition of Restrictive practices

- 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, an agreement between, or concerted practice by, firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder (s) is / are or a contractor(s) was / were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has / have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act No. 89 of 1998.
- 34.3 If a bidder(s) or contractor(s), has / have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and / or terminate the contract in whole or part, and / or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned. Js GCC (revised July 2010)

5. SPECIAL CONDITIONS OF CONTRACT

- 35.1 The State reserves the right to verify and authenticate all the information supplied in this document by the bidder.
- 35.2 The Bid must be strictly in accordance with the conditions and specifications contained herein.
- 35.3 If it is found that any information has been tampered with during the evaluation process and/or after the Bid/Contract has been awarded that any false information has been provided, the State reserves the right to take the necessary action as it deems fit, including but not limited to the institution of criminal proceedings.
- 35.4 Failure to sign all relevant places shall invalidate your bid (**SBD1, SBD 3.1, SBD 4, and SBD 6.1 or 6.2, SBD 8, SBD 9 and SCC**)
- 35.5 All queries should be sent to the relevant person via email state above. No query will be responded to if sent 3 days before the closing date.
- 35.6 If you are not a registered supplier with the Department of Water and Sanitation, please complete the supplier registration forms and banking details, supplier registration forms are available at Departmental website, www.dws.gov.za
- 35.7 Bidders/ Individuals that are directors or members in more than one company bidding for this tender and do not openly declare their interests will be disqualified
- 35.8 **Failure to submit original and valid Tax Clearance Certificate shall invalidate your bid.**
- 35.9 The DWS reserves the right to not make an award on any of the responses to this Bid.
- 35.10 The DWS reserves the right to award only parts of this bid and re-bid for other parts.
- 35.11 All bid documents should be hand delivered and deposited in to the Tender Box, if sent via post, Envelope or package, the envelope must be clearly marked to avoid your submission been mixed with normal letters sent to the Department.
- 35.12 Only signed, original documents will be accepted.

36. ACCEPTANCE OF TERMS AND SPECIAL CONDITIONS

The above terms of the bid and all Annexure have been read, understood and accepted.

For and on behalf of the Bidder:

.....

Signature of Bidder:

Date:

Bidder's Name & Surname:

Designation

Witness Name & Surname:

Date

Signature:

Address (Physical):



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

ESTABLISHMENT OF A DATABASE FOR PROVISION OF THE LABORATORY SERVICES TO CONDUCT WATER QUALITY ANALYSIS FOR SURFACE, GROUND, DRINKING AND WASTEWATER SAMPLES FOR A PERIOD OF 36 MONTHS

W11397

TRADING NAME: _____

CONTACT PERSON: _____

CONTACT NUMBER: _____

CLOSING DATE: _____

This template must be completed by the bidder

TENDER NUMBER		
SERVICE /PROJECT DESCRIPTION		
NAME OF BIDDER		
TENDER AMOUNT		
BBBEE LEVEL		
COMPANY'S COMPOSITION OF EXISTANCE		
	% OWNERSHIP	TOTAL NUMBER
WOMEN		
PEOPLE WITH DISABILITIES		
BLACK MALES		
YOUTH		
PARTICIPATION IN PROJECT IMPLEMENTATION		
	TOTAL NUMBER	LEVEL OF PARTICIPATION (eg Project Management, Technical, Administrative)
WOMEN		
PEOPLE WITH DISABILITIES		
BLACK MALES		
YOUTH		

Please note that this information is for reporting purposes only, and will not prejudice the company in anyway nor will it be considered as an evaluation tool.

Name:.....

Position:.....

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



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

TERMS OF REFERENCE

**PROVISION OF THE LABORATORY SERVICES TO CONDUCT WATER QUALITY
ANALYSIS FOR
SURFACE, GROUND, DRINKING AND WASTEWATER SAMPLES**

FOR A PERIOD OF 36 MONTHS STARTING ON ----- TO -----

SPECIFICATIONS FOR LABORATORY SERVICES

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1. INTRODUCTION

The quality of fresh water in South Africa is under increasing pressure due to growing pollution and problems regarding wastewater management. In order to mitigate the serious impact of this trend on the national economy, environment, health and social spheres of communities, the Department Water and Sanitation (DWS) is implementing a number of national strategies, e.g. regionally based integrated water quality management, a Waste Discharge Charge System, comprehensive Compliance Monitoring and Enforcement actions and a cleanup on the authorisation environment through validation and verification programmes. A cornerstone of this approach is adequate capability to monitor the variations and trends of the quality of water in various aspects of chemical and biological contamination of water. Effective monitoring in turn is wholly dependent on the certified, quick and reliable analysis of water samples taken at designated sites across the country.

DWS has the mandate to protect water resources and ensure its fitness for use; and to regulate through compliance monitoring and enforcement. DWS monitors the drinking water compliance through the Blue Drop programme and wastewater (raw and final effluent) using the Green Drop programme. Compliance monitoring is also done for both surface and groundwater where license conditions need to be met. Samples are routinely taken monthly (in some cases weekly) from sampling sites and submitted to the South African National Accreditation System (SANAS) accredited laboratory for analysis. Laboratories that are not accredited for analyses are required to participate in a recognised Proficiency Testing Scheme (PTS) to provide evidence that the results generated are accurate and that the performance of and quality of the laboratory are at the required standard. The PTS is also an independent evaluation of the laboratory's reported results.

DWS is running various National and Regional Water Quality monitoring programmes that are structured to ensure the frequency of sampling is maintained. Currently, the bulk of the National Water Quality Monitoring Programme samples are analysed at the Resource Quality Information System (RQIS) laboratories. Unfortunately the RQIS laboratories do have their own challenges resulting in backlogs from time to time and data not available on time. Samples for the Microbiology and Toxicity testing need to be at the laboratory within 24 hours and thus RQIS laboratories can only analyse samplings that can meet this requirement. This factor makes it important to have laboratory facilities in the regions to enable these analyses to be performed within the allowed timeframe. DWS regions also do need laboratory services for the type of samples that need to get analysed to be able to ensure effective catchment management, drinking water quality, compliance monitoring and enforcement. It is therefore important to have laboratories that are running well in the provinces to provide services to DWS regional offices different components or sections such as Water Quality Management, Water Quality Planning, Water Services and Compliance Monitoring and Enforcement.

The parastatal laboratories that were approved by the department to assist with the water quality analyses in the regions were not effective due to a number of issues such as the laboratories could not perform all the required tests; not being accredited and some were too far away to be reached within a specified time for specific sample types. The analytical service provider must have functioning International Organization for Standardisation (ISO)/ South African National Standard (SANS) 17025:2017 accredited laboratory facilities with which to do basic, specialized and complex water quality analyses located within the region/province or in close proximity to the region/province. Other specialist laboratories or accredited sub-contract laboratories, may be used by the laboratory service provider for variables that are not performed by their laboratories **and do not** form part of routine sample variables. Such an arrangement should be authorized by the Department on a case by case bases should such need arise.

2. GENERAL DETAILS OF BID

2.1 In order to be awarded the contract for one or all the items, the Analytical Service Provider must:

- have an ISO/SANS-17025:2017 accredited laboratory and this must include laboratory facilities to do basic, specialized and complex water, waste water quality analysis and other environmental samples such as soil analyses and participate in a recognised Proficiency Testing Scheme (PTS)
- must be prepared to analyse emergency samples after office hours;
- must be able to analyse samples for prosecution purposes as required in **Section 6**; or be in a position to contract these analyses out to a laboratory that can analyse prosecution samples
- will not be allowed to change the method of analysis during the contracted period unless it is scientifically necessary to do so and with DWS approval;
- must comply with the general requirements and reporting format specifications as specified in **Section 5**;
- It is a requirement that the laboratory should supply an analytical service for the complete set of constituents as per listed items, if there are constituents that are not analysed in the laboratory it can be sub-contracted to another accredited facility or PTS participating laboratory.

2.2 Although the constituents required are divided into groups, the Analytical Service Provider must quote for the whole Item/s. The analysis required for any one sample may or may not be for all the constituents in a group, the analysis could be for a single parameter or for all the parameters in a group or Item. (See Annexure A)

2.3 The Analytical Service Provider must complete **Section 4 to 6** and **Annexures A to D**.

2.4 The contract will be valid from the date of signature by both parties and expires on the date stipulated in the contract.

3. EVALUATION CRITERIA

The Department of Water and Sanitation will evaluate all proposals in terms of the Preferential Procurement Regulations 2017. A copy of the Preferential Procurement Regulations 2017 can be downloaded from www.treasury.gov.za. A three phase evaluation criteria will be considered in evaluating the bid. On the receipt of the proposals, the evaluation criteria shown below will be used for the selection of the most suitable bidder to undertake the assignment.

Phase 1: Administrative Compliance

Phase 2: Mandatory Compliance (if not complied with, bid will be disqualified)

Phase 3: Functional / Technical Evaluation

PHASE 1: ADMINISTRATIVE COMPLIANCE

Bidders are required to comply with all of the following listed below:

No	Criteria	Yes	No
1	Companies must be registered with National Treasury's Central Supplier Database. Provide proof of print out from CSD.		
2	Tax compliant with SARS (to be verified through CSD and SARS).		
3	Complete, sign and submit SBD1, SBD3.2, SBD4, SBD6.1, SBD8 and SBD9		
4	General Conditions of Contract (GCC)		

PHASE 2: MANDATORY COMPLIANCE

Bidders are required to comply with the following mandatory compliance to be able to move to Phase 3 of the evaluation. Bidders who do not comply with the below mandatory compliance will be disqualified.

No	Criteria	Yes	No
1	The bidders must be ISO/SANS-17025:2017 accredited. (Please attach a copy of the Schedule of Accreditation Certificate and where possible if a subcontractor is used their Schedule of Accreditation Certificate for the analyses to be performed)		
2	Laboratory shall participate in an accredited/recognized Proficiency Testing Scheme (PTS). (Please attached proof of the PTS participation)		

PHASE 3: TECHNICAL/FUNCTIONAL EVALUATION

Bidders must score a minimum score of 75 out of 100 in respect of functionality in order to qualify to be on the panel. A bidder that scores less than 75 out of 100 will be regarded as submitting a non-responsive bid and will be disqualified.

CRITERIA	DESCRIPTION	WEIGHT
Compliance to technical specification	Full compliance to the general requirements and reporting format in Section 5 and Section 6 of the TOR	60
Qualifications of key personnel	<p>Qualifications should be attached to CV's of key personnel, illustrating the experience and certified copies of qualification:</p> <ul style="list-style-type: none">• For Chemical analysis the laboratory supervisor must have an applicable qualification in Chemistry.• For Microbiological analysis the laboratory supervisor must have an applicable qualification in Microbiology.• For Organic Chemistry analysis the laboratory supervisor must have an applicable qualification in Organic Chemistry• For Radioactivity analysis the laboratory supervisor must have an applicable qualification in Radio chemistry or Physics. <p>All four items and two or more additional 5 All four items above and one additional 4 All four items above complied with 3 Only 3 items above complied with 2 Two or less items above complied with 1</p>	25
Contactable References	<p>Bidders are required to submit 3 or more signed letters where laboratory services were rendered previously</p> <p>Five signed letters stipulating the above. 5 Four signed letters stipulating the above. 4 Three signed letters stipulating the above. 3 Two signed letters stipulating the above. 2 One signed letters stipulating the above. 1</p>	15

4. QUALITY REQUIREMENTS AND QUALITY CONTROL

- 4.1 It is essential that the laboratory is ISO/SANS 17025:2017 accredited by a recognised authority for all the constituents.
- 4.2 If the laboratory is not accredited the laboratory need to provide evidence of successful Proficiency Testing Scheme (PTS) participation. These laboratories will be considered where locality and sample viability cannot be satisfied by an accredited laboratory.
- 4.3 Accredited or methods used for PTS participation must be fully documented analytical procedures must be used. A fully documented description of each of the analytical methods and quality control procedures used must be submitted with the Analytical Service Provider bid documentation.
- 4.4 Full records of raw analytical data, including values obtained for calibration standards, check standards and blanks should be kept at the laboratory for all samples analysed for a period of 5 (five) years, after the expiry of the contract.
- 4.5 Typical achievable detection limits must be given and indicated in **Annexure C**. Should it be different for different types of media, please use separate copies of **Annexure C** for each medium.
- 4.6 The analytical work must be done under the supervision of a trained analyst, i.e. one with an applicable qualification as a university degree or university of technology diploma. The analyst in charge of the laboratory should have at least five years' experience in analytical work. The Curriculum Vitae (CVs) of the Technical Signatories must be submitted to the Department, and the Department must be notified in case of any staff changes, and the relevant documents updated accordingly.
- For Chemical analysis the laboratory supervisor must have an applicable qualification in Chemistry.
 - For Microbiological analysis the laboratory supervisor must have an applicable qualification in Microbiology.
 - For Organic Chemistry analysis the laboratory supervisor must have an applicable qualification in Organic Chemistry
 - For Radioactivity analysis the laboratory supervisor must have an applicable qualification in Radio chemistry or Physics.
- 4.7 Laboratory facilities must be open for inspection by the DWS prior to the signing of the contract as well as at any stage during the life of the contract.
- 4.8 The results of all analytical work done must be available within five (5) working days (Except for Items 3 and 4, which procedures usually takes longer) from the date of receipt of the samples as a hard copy or pdf document and monthly using the electronic excel import template for Water Management System (WMS) samples or captured using the web data capture tool on WMS or other relevant system or as may be specified from time to time.
- 4.9 Proper tracking system of samples from sender to testing laboratory should be in place and to be communicated accordingly.
- 4.10 The laboratory must be able to analyse for volatile organic compounds, petroleum volatile organic compounds, polychlorinated biphenyls and polycyclic aromatic hydrocarbons and provide resealable polyethylene soil sampling bags and or suitable sample containers and preservatives.

- 4.11 The laboratory will provide the analytical results in a compatible agreed upon electronic format and the responsible personnel member of the laboratory will sign the results
- 4.12 The laboratory should be prepared to analyse samples for prosecution purposes and be able to provide assessment report in accordance with the Criminal Prosecution Act.
- 4.13 The main laboratory should be responsible for coordination of sample results reporting method to the Department indicating the correct sampling point name, sampling date, sampling time, analysis date, analysis method, etc.
- 4.14 In-sourcing of standard parameters (pH, Conductivity, Ammonia, Orthophosphates, Nitrates/ Nitrites, Suspended solids, Chemical oxygen demand, Oxygen absorbed, Faecal coliforms and E.coli) is preferred.
- 4.15 For after hours and emergency analyses, laboratories should supply telephone numbers of contact persons for receiving emergency samples for analyses.

5. GENERAL REQUIREMENTS & REPORTING FORMAT

SPECIFICATIONS

Please state clearly whether, you the Analytical Service Provider, comply to the specifications by using the words "YES/NO" or "AGREED/ NOT AGREED" where applicable. Also state clearly any other details of the offer where required.	Details of offer
<p>5.1 Does the Analytical Service Provider have a laboratory in (<i>Region/ Province</i>) or close proximity thereto.</p> <p>Indicate for which Regions are the Analytical Service Provider able to provide the specified service (e.g. Chemical analyses Gauteng, Eastern Cape and Microbiology Gauteng) This can be a separate Annexure or letter included in the bid document. Where a subcontractor laboratory is used in regions where the bidder does not have laboratory facilities, the subcontractor must be ISO/SANS-17025:2017 accredited and be able to ensure that the samples submitted will adhere to the sample type prescripts that the results will be accredited.</p> <p>A sub-contract laboratory to attach a copy of the Schedule of Accreditation Certificate</p>	Yes/No
5.2 a Is your laboratory ISO/SANS-17025:2017 accredited? (Please attached a copy of the Schedule of Accreditation Certificate and where possible if a subcontractor is used their Schedule of Accreditation Certificate for the analyses to be performed)	Yes/No
5.2 b Is your laboratory participating in an accredited/recognised Proficiency Testing Scheme (PTS). (Please attached proof of the PTS participation)	Yes/No
5.2 c List the PTS participated in for the different analyses requirement Provide evidence of successful participation and z score evaluation	Yes/No
5.3 Do you comply with the quality requirements and have accredited methods and quality control procedures as specified in Section 4 ?	Yes/No
5.4 The Analytical Service Provider will not be allowed to change the method of analysis during the contracted period;	Agreed/ Not Agreed
5.5 Has the Analytical Service Provider completed Annexures A to D?	Yes/No
5.6 Can your laboratory perform the following tests?	Yes/No
a) Fresh water samples (Surface river and ground water)	Yes/No
b) Estuarine water samples	Yes/No
c) Wastewater samples (Final and Raw)	Yes/No
d) Solid wastes or soils	Yes/No
e) Leachate from solid waste sites,	Yes/No
f) Any other environmental samples types that can be handled; such as plant, animal tissue and cloth, etc.	Yes/No

5.7 Does the Analytical Service Provider have the following items?	Yes/No
a) Item 1	Yes/No
b) Item 2	Yes/No
c) Item 3	Yes/No
d) Item 4	Yes/No
e) Item 5	Yes/No
5.8 Is the Analytical Service Provider prepared to analyse emergency samples after normal office hours?	Yes/No
5.9 Is the Analytical Service Provider prepared to analyze samples for prosecution purposes as required in Section 6 ?	Yes/No
5.10 The analytical report must supply representative (typical) confidence limits and limit of detection for each method.	Agreed/ Not Agreed
5.11 Did the Analytical Service Provider attach an example of their analytical report, together with any applicable statements that are normally given thereon?	Yes/No
<p>5.12 The laboratory must be able to supply analytical results in hard copy printed format, as well as in ASCII compatible electronic format. Please indicate the type of electronic database used (e.g. Excel).</p> <ul style="list-style-type: none"> ➤ The Analytical Service Provider must keep and maintain all the data as well as its related issues such as: Printing of analysis and monitoring schedules and result sheets for the laboratories. ➤ Analysis method information used by the laboratories. ➤ Registration of samples which is delivered directly to the laboratories. ➤ Capturing of the results using an acceptable procedure described below <p>Data deemed for the Blue or Green Drop programmes need to provide in an electronic format that can be imported to the Integrated Regulatory Information System (IRIS) or manually captured</p> <p>Methods available on WMS to capture water quality data:</p> <ul style="list-style-type: none"> • A person can manually type in results on WMS. • Fixed Excel spreadsheet format that we supply to users to capture results on, and this can then easily be imported into WMS with an automated electronic import facility - guidelines <p>http://www.dwa.gov.za/iwqs/wms/import/CaptureWQ.aspx</p> <ul style="list-style-type: none"> • Web-enabled data capturing tool was developed to enable external data users to capture data. <p>Interface between the Lab system and WMS for importing the data (Where possible).</p>	<p>Yes/No</p> <p>Agreed/ Not Agreed</p> <p>Agreed/ Not Agreed</p>
5.13 For after hours and emergency analyses, the laboratories should supply telephone numbers of contact persons for receiving emergency samples for analyses.	Agreed/ Not Agreed

5.14 Should there be a price difference between normal and emergency samples; the Analytical Service Provider must include the price list for emergency samples in the same format as Annexure B as an attachment.	Agreed/ Not Agreed
5.15 Invoices for payment must be issued on a monthly basis	Agreed/ Not Agreed
5.16 In the case of samples for microbiological constituents the laboratory must be prepared to supply pre-sterilized sample containers. The supply and courier costs of sampling material must be included in the analysis cost listed.	Agreed/ Not Agreed
5.17 For the chemical constituents the laboratory must indicate whether it is prepared to supply sample bottles and /or preservatives. The supply and courier costs of sampling material must be included in the analysis cost listed.	Agreed/ Not Agreed
5.18 A contract will be awarded for a period of 36 months, commencing on the date of awarding of the contract to the successful bidders	Agreed/ Not Agreed
5.19 Water samples may be preserved by H ₂ SO ₄ or accepted other means especial where nutrient analysis is required. The laboratory must have a contract to dispose of their wastes on a permitted hazardous waste site. (Please attach details). The Analytical Service Provider must include any costs quoted for the analysis.	Agreed/ Not Agreed
5.20 The laboratory is invited to indicate any additional features or services not included above which are deemed advantageous. Costs thereof should be specified and indicated on an attachment.	Additional Features/None
5.21 The present analytical capacity should be given in terms of the number of completed analyses that can be handled per month and indicated in Annexure B . Should it be different for different types of media, please use separate copies of Annexure B for each medium.	Agreed/ Not Agreed
5.22 Laboratory facilities must be open for inspection by the Department of Water and Sanitation, prior to, as well as after signing of the contract.	Agreed/ Not Agreed
5.23 The Analytical Service Provider / Analytical Service provider needs to supply the Proficiency Testing Scheme (PTS) results every 6 months to DWS to ensure that the results produced are accurate.	Agreed/ Not Agreed

5. REQUIREMENTS FOR OPTIONAL PROSECUTION SAMPLES

Please state clearly whether, you the Analytical Service Provider, complies with the specifications by using the words "YES/NO" or "AGREED/ NOT AGREED" where applicable. Also state clearly any other details of the offer where required.	Details of offer
6.1 For prosecution sample results certificate should be issued in terms of Section 212 of the Criminal Procedure Act, 1977 (51 of 1977)	Agreed/ Not Agreed
6.2 If the Analytical Service Provider does not have the right to issue a certificate, then an affidavit setting out the custody of the containers while in their possession must be supplied together with the analytical report. The Analytical Service Provider must be prepared to follow the instructions from the department as to maintain the chain of custody with regards to the sample containers and during the analysis.	Agreed/ Not Agreed

6.3 The Analytical Service Provider must attach examples of the previous affidavit issued for prosecution purposes including the form issued to establish the chain of custody.	Agreed/ Not Agreed
6.4 The Analytical Service Provider must be prepared in the case where an analytical report has been issued, to appear in court if requested to do so by the Department of Water and Sanitation, or the Department of Justice and in all cases where an affidavit has been submitted and the matter proceeds to trial. Hourly rates for court appearances must be specified.	Agreed/ Not Agreed
6.5 Full records of the method of analyses, details of the analyst and the compilation of all results must be recorded and available for inspection by this Department and where necessary to be handed in as evidence to the court. Attach an example.	Agreed/ Not Agreed
6.6 Procedures must be implemented whereby routine samples are kept separate from prosecution samples.	Agreed/ Not Agreed
6.7 Prosecution samples are to be kept in a locked functional fridge.	Agreed/ Not Agreed
6.9 Are the same quality requirements applicable as set out under section: Quality requirements and quality control?	Yes/No

7. QUANTITY OF SAMPLES TO BE ANALYSED DURING CONTRACT PERIOD

Routine samples to be submitted on a monthly basis, prosecution and emergency samples will be submitted when required. The Analytical Service Provider must indicate the competency to conduct analysis as per **Annexure A** and provide a quotation for all the variables as per **Annexure B**

NB: The quantity of samples to be analysed per month is subject to change due to other circumstances.

8. CONTRACT AND INVOICES

The project timeframe is thirty six (36) months from the date of signing of the contract The Analytical Service Provider will be required to submit invoices on a monthly basis and all payments will be made upon signed deliverables being completed.

- Quarterly Project Management meetings to be conducted in order to manage the project expenditure and to ensure that the contract period and the contract amount is not exceeded, or when required.

9. FURTHER INFORMATION

For further information contact the following numbers or email:

1. Project Manager: Mr Paul Botes
Contact number: 082 881 1192
Email address: Botes1P@dws.gov.za

2. Director: Resource Quality Information System: Ms Thembi Masilela
Contact number: 012 808 9619 or 073 768 8348
Email address: Masilela1T@dws.gov.za

For SCM related enquires please contact the following official:

1. Winnie Dolamo
Contact Number: 012 336 8974
Email address: dolamow@dwa.gov.za

ANNEXURE A: DETERMINANTS, REPORTING UNITS AND PRICING (INCLUDING VAT)

ITEM #1

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.1			
GENERAL INORGANIC CONSTITUENTS			
• Ammonia as N	mg/l		
• Chloride (Cl ⁻)	mg/l		
• Calcium (Ca)	mg/l		
• Chemical Oxygen Demand (COD)	mg O ₂ /l		
• Colour	mg/l Pt		
• Corrosive Index	none		
• Dissolved Oxygen (DO)	mg/l		
• Dissolved solids	mg/l		
• EC (Electrical Conductivity)	mS/m at 25°C		
• Fluoride (F)	mg/l		
• Magnesium (Mg)	mg/l		
• Nitrate + nitrite as N	mg/l		
• Nitrate as N	mg/l		
• Nitrite as N	mg/l		
• Odour	TON		
• Orthophosphate as P	mg/l		
• Oxygen Absorbed (OA)	mg/l		
• pH (measured with a glass electrode)	pH units		
• Potassium (K)	mg/l		
• Silicates as Si	mg/l		
• Sodium (Na)	mg/l		

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
• Sodium Adsorption Ratio	SAR units		
• Sulphate (SO ₄ ²⁻)	mg/l		
• Suspended solids	mg/l		
• Taste	FTN		
• Total Alkalinity	mg CaCO ₃ /l		
• Total Dissolved Salts (TDS)	mg/l		
• Total Hardness	mg CaCO ₃ /l		
• Total Kjeldahl Nitrogen	mg/l		
• Total phosphate as P	mg/l		
• Turbidity	NTU		

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.2 a			
TRACE METALS (DISSOLVED)			
• Aluminium (Al)	mg/l or µg/l		
• Antimony (Sb)	mg/l or µg/l		
• Arsenic (As)	mg/l or µg/l		
• Beryllium (Be)	mg/l or µg/l		
• Boron (B)	mg/l or µg/l		
• Cadmium (Cd)	mg/l or µg/l		
• Chromium (Cr) (Cr ³⁺ and Cr ⁶⁺)	mg/l or µg/l		
• Chromium (Cr ⁶⁺) or Hexavalent Chromium	mg/l or µg/l		
• Cobalt (Co)	mg/l or µg/l		
• Copper (Cu)	mg/l or µg/l		
• Iron (Fe)	mg/l or µg/l		
• Lead (Pb)	mg/l or µg/l		
• Lithium (Li)	mg/l or µg/l		
• Manganese (Mn)	mg/l or µg/l		
• Mercury (Hg)	mg/l or µg/l		
• Molybdenum (Mo)	mg/l or µg/l		
• Nickel (Ni)	mg/l or µg/l		
• Selenium (Se)	mg/l or µg/l		
• Strontium (Sr)	mg/l or µg/l		
• Tin (Sn)	mg/l or µg/l		
• Uranium (U)	mg/l or µg/l		
• Vanadium (V)	mg/l or µg/l		
• Zinc (Zn)	mg/l or µg/l		
Price when full analysis group 1.2a request for a sample			

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.2 b			
• TRACE METALS (ACID SOLUABLE)			
• Aluminium (Al)	mg/l or µg/l		
• Antimony (Sb)	mg/l or µg/l		
• Arsenic (As)	mg/l or µg/l		
• Beryllium (Be)	mg/l or µg/l		
• Boron (B)	mg/l or µg/l		
• Cadmium (Cd)	mg/l or µg/l		
• Chromium (Cr) (Cr ³⁺ and Cr ⁶⁺)	mg/l or µg/l		
• Cobalt (Co)	mg/l or µg/l		
• Copper (Cu)	mg/l or µg/l		
• Iron (Fe)	mg/l or µg/l		
• Lead (Pb)	mg/l or µg/l		
• Lithium (Li)	mg/l or µg/l		
• Manganese (Mn)	mg/l or µg/l		
• Mercury (Hg)	mg/l or µg/l		
• Molybdenum (Mo)	mg/l or µg/l		
• Nickel (Ni)	mg/l or µg/l		
• Selenium (Se)	mg/l or µg/l		
• Strontium (Sr)	mg/l or µg/l		
• Tin (Sn)	mg/l or µg/l		
• Uranium (U)	mg/l or µg/l		
• Vanadium (V)	mg/l or µg/l		
• Zinc (Zn)	mg/l or µg/l		
Price when full analysis group 1.2b request for a sample			

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.3			
DISINFECTANTS AND TOXIC ANIONS:			
• Cyanide (total)	µg/l		
• Recoverable Cyanide as CN ⁻	µg/l		
• Free available chlorine	mg/l		
• Residual Chlorine	mg/l		
• Monochloramine	mg/l		
GROUP 1.4			
MICROBIOLOGICAL CONSTITUENTS:			
• Clostridia	counts/100ml		
• Cryptosporidium	counts/10l		
• Cytopathogenic viruses	counts/100l		
• E. coli	counts/100ml		
• Enteroviruses			
• Faecal coliforms	counts/100ml		
• Faecal streptococci	counts/100ml		
• Giardia	counts/10l		
• Heterotrophic Plate Count	counts/1ml		
• Salmonella species			
• Shigella species			
• Standard total plate count	counts/ml		
• Somatic Coliphages	counts/10ml		
• Total coliforms	counts/100ml		
• Vibrio species			

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 1.5			
• BIOLOGICAL CONSTITUENTS:			
• Algal Identification	Identified Algal Species		
• Biological Oxygen Demand (BOD)	mg/l		
• Chlorophyll a	mg/l or µg/l		
• Geosmin	µg/l		
• Microcystin (ELISA test)	µg/l		
GROUP 1.6			
• GENERAL ORGANIC CONSTITUENTS:			
• Dissolved Organic Content as C (DOC)	mg/l		
• Total Organic Content (TOC)	mg/l		

ITEM #2			
CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
GROUP 2.1			
PARAMETERS FOR SOIL ANALYSES:			
• Cation-exchange capacity	c mol (+)/Kg		
• Dispersivity			
• pH	pH units		
• Electrical resistance of a soil paste	mS/m		
• Moisture			
• Particle size			
• Sodium absorption ratio / Sodidity			
• Exchangeable acidity	c mol (+)/Kg		
• P-extraction (Bray1 or Bray 2)	mg/Kg		
• Nitrogen determination			
• Extractable boron	mg/Kg		
• Total fluoride	mg/Kg		
• Water soluble cations of a saturation extract	mg/Kg		

ITEM #3				
CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE	
GROUP 3.1				
ORGANIC CONSTITUENTS:				
• Soap, Oil and grease	mg/l			
Trihalomethanes (THMs)				
• Chloroform	µg/l			
• Bromoform	µg/l			
• Bromodichloromethane	µg/l			
• Dibromochloromethane	µg/l			
Volatile organic compounds (VOCs)				
• Carbon Tetrachloride	µg/l			
• 1,1,1-Trichloroethane	µg/l			
• Trichloroethylene	µg/l			
• Tetrachloroethylene	µg/l			
• 1,2-Dichloroethane	µg/l			
• 1,2-Dichloropropane	µg/l			
• Toluene	µg/l			
• Chlorobenzene	µg/l			
• 1,4-Dichlorobenzene	µg/l			
• 1,3-Dichlorobenzene	µg/l			
• Phenols (Total)	µg/l			

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
Polychlorinated Biphenyls (PCBs)			
• Arochlor 1254	µg/l		
• Arochlor 1260	µg/l		
Pesticides			
• Acetochlor	µg/l		
• Aldrin	µg/l		
• Atrazine	µg/l		
• BHC-alpha	µg/l		
• BHC-beta	µg/l		
• BHC-delta	µg/l		
• Chlordane cis (alpha)	µg/l		
• Chlordane trans (gamma)	µg/l		
• Chlordecone	µg/l		
• DDD 4,4'	µg/l		
• DDE 4,4'	µg/l		
• DDT 4,4'	µg/l		
• Dieldrin	µg/l		
• Endosulfan alpha	µg/l		
• Endosulfan beta			
• Endosulfan SO ₄	µg/l		
• Endrin	µg/l		
• Heptachlor	µg/l		
• Heptachlor-epoxide	µg/l		
• Lindane (BHC gamma)	µg/l		

CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE
• Methamidophos	µg/l		
• Mirex	µg/l		
• Monocrotophos	µg/l		
• Pentachlorobenzene	µg/l		
• Simazine	µg/l		
• Terbutylazine	µg/l		
• Toxaphene	µg/l		
PAH			
• Acenaphthylene	µg/l		
• Benzo (a) pyrene	µg/l		
• Fluoranthrene	µg/l		
• Naphthalene	µg/l		
• Phenanthrene	µg/l		
PHTHALATES			
• Di-butyl phthalate	µg/l		
• Di-ethyl phthalate	µg/l		
• Dihexyl phthalate	µg/l		
• Dimethyl phthalate	µg/l		
• Dioctyl phthalate	µg/l		
DIOXINS and FURANS			
• Carbofuran	µg/l		
• Dibenzofuran	µg/l		
• Pentafurans	µg/l		
PCB's (any combination of the congeners)			

• PCB-77,81,105,114,118,123,126,156,157,167,169,189	µg/l		
Flame Retardants			
• Hephta-BDE	µg/l		
• Hexa-BB (PBB)	µg/l		
• Hexabromocyclododecane (HBCD)	µg/l		
• Hexa-BDE	µg/l		
• Penta-BDE	µg/l		
• Tetra-BDE	µg/l		
PFOs			
• Perfluorooctane sulfonic acid (PFOS)	µg/l		
• Perfluorooctane sulfonyl fluoride (PFOS-F)	µg/l		
General qualitative organic compound scan	presence		

ITEM #4				
CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE	
GROUP 4.1				
RADIOACTIVITY CONSTITUENTS:				
• Gross alpha activity	Bq/l			
• Gross beta activity	Bq/l			
• Uranium-234				
• Uranium-238				
• Radium-223				
• Radium-224				
• Radium-226				
• Radium-228				
• Thorium-228				
• Thorium-230				
• Thorium-232				
• Polonium-210				
• Lead-210				
• Chemical Uranium concentration	µg/l			

ITEM #5				
CONSTITUENT/ PARAMETER	UNIT	PRICE FOR ROUTINE SAMPLE	PRICE FOR PROSECUTION SAMPLE	
GROUP 5.1				
PARAMETERS IN ESTUARINE WATER:				
• Ammonia as N	mg/l			
• Chlorophyll a	mg/l or µg/l			
• E. coli	counts/100ml			
• Enterococci	counts/100ml			
• Nitrate + nitrite as N	mg/l			
• Nitrate as N	mg/l			
• Nitrite as N	mg/l			
• Orthophosphate as P	mg/l			
• Silica	mg/l			

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ANNEXURE B: DETECTION LIMITS and/or METHODS

Typical achievable detection limits must be given. Indicate the analytical method used and whether analysis is done in-house or by use of a subcontractor.

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
ITEM 1			
GROUP 1.1			
GENERAL INORGANIC CONSTITUENTS			
• Ammonia as N			
• Chloride (Cl ⁻)			
• Calcium (Ca)			
• Chemical Oxygen Demand (COD)			
• Colour			
• Corrosive Index			
• Dissolved Oxygen (DO)			
• Dissolved solids			
• EC (Electrical Conductivity)			
• Fluoride (F)			
• Magnesium (Mg)			
• Nitrate + nitrite as N			
• Nitrate as N			
• Nitrite as N			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Odour			
• Orthophosphate as P			
• Oxygen Absorbed (OA)			
• pH (measured with a glass electrode)			
• Potassium (K)			
• Silicates as Si			
• Sodium (Na)			
• Sodium Adsorption Ratio			
• Sulphate (SO_4^{2-})			
• Suspended solids			
• Taste			
• Total Alkalinity			
• Total Dissolved Salts (TDS)			
• Total Hardness			
• Total Kjeldahl Nitrogen			
• Total phosphate as P			
• Turbidity			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
GROUP 1.2 a and b			
TRACE METALS (DISSOLVED)			
• Aluminium (Al)			
• Antimony (Sb)			
• Arsenic (As)			
• Beryllium (Be)			
• Boron (B)			
• Cadmium (Cd)			
• Chromium (Cr) (Cr ³⁺ and Cr ⁶⁺)			
• Chromium (Cr ⁶⁺) or Hexavalent Chromium			
• Cobalt (Co)			
• Copper (Cu)			
• Iron (Fe)			
• Lead (Pb)			
• Lithium (Li)			
• Manganese (Mn)			
• Mercury (Hg)			
• Molybdenum (Mo)			
• Nickel (Ni)			
• Selenium (Se)			
• Strontium (Sr)			
• Tin (Sn)			
• Uranium (U)			
• Vanadium (V)			
• Zinc (Zn)			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
GROUP 1.3			
DISINFECTANTS AND TOXIC ANIONS:			
• Cyanide (total)			
• Recoverable Cyanide as CN ⁻			
• Free available chlorine			
• Residual Chlorine			
• Monochloramine			
GROUP 1.4			
MICROBIOLOGICAL CONSTITUENTS:			
• Clostridia			
• Cryptosporidium			
• Cytopathogenic viruses			
• E. coli			
• Enteroviruses			
• Faecal coliforms			
• Faecal streptococci			
• Giardia			
• Heterotrophic Plate Count			
• Salmonella species			
• Shigella species			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Somatic Coliphages			
• Total coliforms			
• Vibrio species			
GROUP 1.5			
BIOLOGICAL CONSTITUENTS:			
• Algal Identification			
• Biological Oxygen Demand (BOD)			
• Chlorophyll a			
• Geosmin			
• Microcystin (ELISA test)			
GROUP 1.6			
GENERAL ORGANIC CONSTITUENTS:			
• Dissolved Organic Content as C (DOC)			
• Total Organic Content (TOC)			
• E. coli			
• Faecal streptococci			
• <i>Salmonella</i> species			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Shigella species			
• Clostridia			
• Vibrio species			
• Enteroviruses			
ITEM 2			
GROUP 2.1			
PARAMETERS FOR SOIL ANALYSES:			
• Cation- exchange capacity			
• Dispersivity			
• pH			
• Electrical resistance of a soil paste			
• Moisture			
• Particle size			
• Sodium absorption ratio / Sodicity			
• Exchangeable acidity			
• P-extraction (Bray1 or Bray 2)			
• Nitrogen determination			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Extractable boron			
• Total fluoride			
• Water soluble cations of a saturation			
ITEM 3			
GROUP 3.1			
ORGANIC CONSTITUENTS:			
• Soap, Oil and grease			
Trihalomethanes (THMs)			
• Chloroform			
• Bromoform			
• Bromodichloromethane			
• Dibromochloromethane			
Volatile organic compounds (VOCs)			
• Carbon Tetrachloride			
• 1,1,1-Trichloroethane			
• Trichloroethylene			
• Tetrachloroethylene			
• 1,2-Dichloroethane			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• 1,2- Dichloropropane			
• Toluene			
• Chlorobenzene			
• 1,4- Dichlorobenzene			
• 1,3- Dichlorobenzene			
• Phenols (Total)			
Polychlorinated Biphenyls (PCBs)			
• Arochlor 1254			
• Arochlor 1260			
• Pesticides			
• Acetochlor			
• Aldrin			
• Atrazine			
• BHC-alpha			
• BHC-beta			
• BHC-delta			
• Chlordane cis (alpha)			
• Chlordane trans (gamma)			
• Chlordecone			
• DDD 4,4'			
• DDE 4,4'			
• DDT 4,4'			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Dieldrin			
• Endosulfan alpha			
• Endosulfan beta			
• Endosulfan SO ₄			
• Endrin			
• Heptachlor			
• Heptachlor-epoxide			
• Lindane (BHC gamma)			
• Methamidophos			
• Mirex			
• Monocrotophos			
• Pentachlorobenzene			
• Simazine			
• Terbutylazine			
• Toxaphene			
• PAH			
• Acenaphthylene			
• Benzo (a) pyrene			
• Fluoranthrene			
• Naphthalene			
• Phenanthrene			
• PHTHALATES			
• Di-butyl phthalate			
• Di-ethyl phthalate			
• Dihexyl phthalate			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
• Dimethyl phthalate			
• Dioctyl phthalate			
DIOXINS and FURANS			
• Carbofuran			
• Dibenzofuran			
• Pentafurans			
PCB's (any combination of the congeners)			
• PCB- 77,81,105,114,118, 123,126,156,157,1 67,169,189			
Flame Retardants			
• Hephta-BDE			
• Hexa-BB (PBB)			
• Hexabromocyclo decane (HB CD)			
• Hexa-BDE			
• Penta-BDE			
• Tetra-BDE			
PFOs			
• Perfluorooctane sulfonic acid (PFOS)			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
<ul style="list-style-type: none"> Perfluorooctane sulfonyl fluoride (PFOS-F) 			
ITEM 4			
GROUP 4.1			
RADIOACTIVITY CONSTITUENTS:			
• Gross alpha activity			
• Gross beta activity			
• Uranium-234			
• Uranium-238			
• Radium-223			
• Radium-224			
• Radium-226			
• Radium-228			
• Thorium-228			
• Thorium-230			
• Thorium-232			
• Polonium-210			
• Lead-210			
• Chemical Uranium concentration			

CONTITUENT/ PARAMETER	DETECTION LIMIT	METHOD	LABORATORY (IN- HOUSE/SUBCONTRACTOR)
ITEM 5			
GROUP 5.1			
PARAMETERS IN ESTUARINE WATER:			
• Ammonia as N			
• Chlorophyll a			
• E. coli			
• Enterococci			
• Nitrate + nitrite as N			
• Nitrate as N			
• Nitrite as N			
• Orthophosphate as P			
• Silica			

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ANNEXURE C: ANALYTICAL CAPACITY

The present analytical capacity should be given in terms of the number of completed analyses that can be handled per month:

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
ITEM 1		
GROUP 1.1		
GENERAL INORGANIC CONSTITUENTS		
• Ammonia as N		
• Chloride (Cl ⁻)		
• Calcium (Ca)		
• Chemical Oxygen Demand (COD)		
• Colour		
• Corrosive Index		
• Dissolved Oxygen (DO)		
• Dissolved solids		
• EC (Electrical Conductivity)		
• Fluoride (F)		
• Magnesium (Mg)		
• Nitrate + nitrite as N		
• Nitrate as N		
• Nitrite as N		
• Orthophosphate as P		
• Total phosphate as P		
• Odour		
• Orthophosphate as P		
• Oxygen Absorbed (OA)		
• pH (measured with a glass electrode)		
• Potassium (K)		
• Silicates as Si		
• Sodium (Na)		
• Sodium Adsorption Ratio		
• Sulphate (SO ₄ ²⁻)		
• Suspended solids		
• Taste		
• Total Alkalinity		
• Total Dissolved Salts (TDS)		
• Total Hardness		
• Total Kjeldahl Nitrogen		
• Total phosphate as P		
• Turbidity		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
GROUP 1.2 a and b		
TRACE METALS (DISSOLVED)		
• Aluminium (Al)		
• Antimony (Sb)		
• Arsenic (As)		
• Beryllium (Be)		
• Boron (B)		
• Cadmium (Cd)		
• Chromium (Cr) (Cr ³⁺ and Cr ⁶⁺)		
• Chromium (Cr ⁶⁺) or Hexavalent Chromium		
• Cobalt (Co)		
• Copper (Cu)		
• Iron (Fe)		
• Lead (Pb)		
• Lithium (Li)		
• Manganese (Mn)		
• Mercury (Hg)		
• Nickel (Ni)		
• Selenium (Se)		
• Strontium (Sr)		
• Tin (Sn)		
• Uranium (U)		
• Vanadium (V)		
• Zinc (Zn)		
GROUP 1.3		
DISINFECTANTS AND TOXIC ANIONS:		
• Cyanide (total)		
• Recoverable Cyanide as CN ⁻		
• Free available chlorine		
• Residual Chlorine		
• Monochloramine		
GROUP 1.4		
MICROBIOLOGICAL CONSTITUENTS:		
• Clostridia		
• Cryptosporidium		
• Cytopathogenic virusses		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
• E. coli		
• Enteroviruses		
• Faecal coliforms		
• Faecal streptococci		
• Giardia		
• Heterotrophic Plate Count		
• Salmonella species		
• Shigella species		
• Standard total plate count		
• Somatic Coliphages		
• Total coliforms		
• Vibrio species		
GROUP 1.5		
BIOLOGICAL CONSTITUENTS:		
• Algal Identification		
• Biological Oxygen Demand (BOD)		
• Chlorophyll a		
• Geosmin		
• Microcystin (ELISA test)		
GROUP 1.6		
GENERAL ORGANIC CONSTITUENTS:		
• Dissolved Organic Content as C (DOC)		
• Total Organic Content (TOC)		
ITEM 2		
GROUP 2.1		
PARAMETERS FOR SOIL ANALYSES:		
• Cation-exchange capacity		
• Dispersivity		
• pH		
• Electrical resistance of a soil paste		
• Moisture		
• Particle size		
• Sodium absorption ratio / Sodicity		
• Exchangeable acidity		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
• P-extraction (Bray1 or Bray 2)		
• Nitrogen determination		
• Extractable boron		
• Total fluoride		
• Water soluble cations of a saturation extract		
ITEM 3		
GROUP 3.1		
ORGANIC CONSTITUENTS:		
• Soap, Oil and grease		
• Trihalomethanes (THMs)		
• Chloroform		
• Bromoform		
• Bromodichloromethane		
• Dibromochloromethane		
• Volatile organic compounds (VOCs)		
• Carbon Tetrachloride		
• 1,1,1-Trichloroethane		
• Trichloroethylene		
• Tetrachloroethylene		
• 1,2-Dichloroethane		
• 1,2-Dichloropropane		
• Toluene		
• Chlorobenzene		
• 1,4-Dichlorobenzene		
• 1,3-Dichlorobenzene		
• Phenols (Total)		
• Polychlorinated Biphenyls (PCBs)		
• Arochlor 1254		
• Arochlor 1260		
• Pesticides		
• Acetochlor		
• Aldrin		
• Atrazine		
• BHC-alpha		
• BHC-beta		
• BHC-delta		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
• Chlordane cis (alpha)		
• Chlordane trans (gamma)		
• Chlordecone		
• DDD 4,4'		
• DDE 4,4'		
• DDT 4,4'		
• Dieldrin		
• Endosulfan alpha		
• Endosulfan beta		
• Endosulfan SO ₄		
• Endrin		
• Heptachlor		
• Heptachlor-epoxide		
• Lindane (BHC gamma)		
• Methamidophos		
• Mirex		
• Monocrotophos		
• Pentachlorobenzene		
• Simazine		
• Terbutylazine		
• Toxaphene		
• PAH		
• Acenaphthylene		
• Benzo (a) pyrene		
• Fluoranthrene		
• Napthalene		
• Phenanthrene		
•		
• PHTHALATES		
• Di-butyl phthalate		
• Di-ethyl phthalate		
• Dihexyl phthalate		
• Dimethyl phthalate		
• Dioctyl phthalate		
•		
• DIOXINS and FURANS		
• Carbofuran		
• Dibenzofuran		
• Pentafurans		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
PCB's (any combination of the congeners)		
<ul style="list-style-type: none"> PCB- 77,81,105,114,118,123,126 ,156,157,167,169,189 		
<ul style="list-style-type: none"> Flame Retardants 		
<ul style="list-style-type: none"> Hephta-BDE 		
<ul style="list-style-type: none"> Hexa-BB (PBB) 		
<ul style="list-style-type: none"> Hexabromocyclododecane (HBCD) 		
<ul style="list-style-type: none"> Hexa-BDE 		
<ul style="list-style-type: none"> Penta-BDE 		
<ul style="list-style-type: none"> Tetra-BDE 		
<ul style="list-style-type: none"> PFOs 		
<ul style="list-style-type: none"> Perfluorooctane sulfonic acid (PFOS) 		
<ul style="list-style-type: none"> Perfluorooctane sulfonyl fluoride (PFOS-F) 		
<ul style="list-style-type: none"> General qualitative organic compound scan 		
ITEM 4		
GROUP 4.1		
RADIOACTIVITY CONSTITUENTS:		
<ul style="list-style-type: none"> Gross alpha activity 		
<ul style="list-style-type: none"> Gross beta activity 		
<ul style="list-style-type: none"> Uranium-234 		
<ul style="list-style-type: none"> Uranium-238 		
<ul style="list-style-type: none"> Radium-223 		
<ul style="list-style-type: none"> Radium-224 		
<ul style="list-style-type: none"> Radium-226 		
<ul style="list-style-type: none"> Radium-228 		
<ul style="list-style-type: none"> Thorium-228 		
<ul style="list-style-type: none"> Thorium-230 		
<ul style="list-style-type: none"> Thorium-232 		
<ul style="list-style-type: none"> Polonium-210 		
<ul style="list-style-type: none"> Lead-210 		
<ul style="list-style-type: none"> Chemical Uranium concentration 		

CONTITUENT/ PARAMETER	MONTHLY ANALYTICAL AND SPARE CAPACITY	MEDIA (Soil, Water, other)
ITEM 5		
GROUP 5.1		
RADIOACTIVITY CONSTITUENTS:		
• Ammonia as N		
• Chlorophyll a		
• E. coli		
• Enterococci		
• Nitrate + nitrite as N		
• Nitrate as N		
• Nitrite as N		
• Orthophosphate as P		
• Silica		

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ANNEXURE D: QUESTIONNAIRE

If the information required in respect of each item cannot be inserted in the space provided, additional information may be provided on a separate sheet of paper with a suitable reference to the questionnaire number concerned.

QUESTIONNAIRE	REPLY (YES/NO where necessary specify)
1. Are the prices quoted firm for the full period of the contract? (i.e., no adjustments as per paragraphs 17.1 of General Conditions of Contract.	
2. If the Analytical Service Provider prices are not firm for the full period, provide details against the appropriate category(i.e) below: <ul style="list-style-type: none"> • Semi-firm prices linked to statutory adjustments. (as per paragraphs 17.1 of General Conditions of Contract.) • Non-firm prices, i.e., prices linked to other proven adjustments (as per paragraphs 17.1 of General Conditions of Contract.) • Prices linked to fixed period adjustments. • Prices linked to escalation formula adjustments (as per paragraphs 17.1 of General Conditions of Contract.) 	
3. Are the analytical methods fully documented?	
4. Are your analytical methods accredited?	
5. Are full records of analytical data kept for at least five years?	
6. Does the analyst in charge of the laboratory have at least five years' experience in analytical work?	
7. Does the laboratory supervisor have applicable qualifications?	
8. What is the present analytical capacity per month?	
9. What is the turnaround time between submission of samples, and provision of the analytical report?	
10. Is an example of your analytical report attached?	
11. Are details attached regarding the safe disposal of your waste?	
12. Is documented proof of the analytical performance attached?	
13. Is a fully documented description of the analytical methods attached?	
14. Is documented proof of quality control procedures attached?	
15. Are curriculum vitae of Technical Signatories attached?	
16. Are examples of an affidavit and form to establish chain of custody attached?	
17. Is Annexures A-D completed as specified?	
18. Is section 4 completed as specified?	
19. List any other attachments not specified above.	

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