INVITATION TO QUOTE: BEY-SCM-596
REPAIR AND MAINTENANCE OF PUMPS, GENERATORS, WATER/WASTEWATER PUMPSTATIONS AND FACILITIES

Quotations are hereby invited from registered service providers for the above mentioned as per the bill of quantities.

Quotes must be placed in the municipal tender box, Robert Sobukwe Building, in sealed envelopes clearly marked **"BEY-SCM-596"**, not later than 12h00, **Monday on the 15th of December 2025** and will be opened in public immediately thereafter.

Note:

1. Faxed, e-mailed or late quotations will not be accepted.
2. The tender will be evaluated on 80/20 system Whereby 80 points will be allocated for price and a maximum of 20 points for specific goals.
3. To claim for specific goals prospective bidders MUST submit proof/required the required documents
4. Price must include vat (if registered for vat) and delivery costs to Graaff-Reinet.
5. All suppliers must be registered on the Central Supplier Database (CSD)
6. A current original tax clearance certificate of SARS is to be submitted.
7. Tenderers need to have a CIDB grading of at least 1ME or higher.
8. A current certified Municipal (rates& services) clearance certificate to be submitted.
9. Attached declaration of interest to be completed.
10. **Please note that the total rates combined does not constitute as the final quotation amount as it will be used solely for evaluation purposes. Quotation will rate based subject to a maximum of R 300 000.00**
11. A current certified BBBEE certificate must be submitted in order to claim preference points.
12. Council is not bound to accept the lowest or any quotation and reserves the right to accept any tender or part thereof.
13. For further details, please contact **Mr. B. Koeberg @ 049 807 5700/ koebergb@bnlm.gov.za**
14. Allocation of specific goals
15. This Bid is subject to the General Conditions of Contract (GCC) and, if applicable, any other Special Conditions of Contract.

NO	Specific goal categories	Max Points Allocation	Evaluation Indicators
1	B-BBEE Status Level Contributor	10	As for BBBEE points allocation please see MBD 6.1
2	The promotion of enterprises located in a specific province for work to be done or services to be rendered in that province.	10	10 Points- Located within the boundaries of the Dr Beyers Naudé Local Municipality
			6 Points- Located within the boundaries of Sarah Baartman District Municipality
			4 Points- Located within the boundaries of the Eastern Cape
			1 Point- Outside of the boundaries of the Eastern Cape

DR. E.M. RANKWANA

MUNICIPAL MANAGER

BILL OF QUANTITIES

NB!!! Please note that the total rates combined does not constitute as the final quotation amount as it will solely be used for evaluation purposes.

Quotation will rate based subject to a maximum of R 300 000.00

BEY-SCM-596	Repair and delivery of pumps, motors, generators, including maintenance and repair for various water and sewer pump stations and facilities for the Dr Beyers Naude Municipality					
ITEM NO.	**DESCRIPTION**	**UNIT**	**MATERIAL**		**LABOUR**	
			RATE	**TOTAL**	**RATE**	**TOTAL**
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					
A1.0	**GENERAL**					
A1.1	Allow for Public liability insurance up to R10 000 000 per annum	Sum	R	R	R	R
A1.2	Provision of Performance Bond to the value of:					
A1.2.1	R 50 000-00	Sum	R	R	R	R
A1.2.2	R 100 000-00	Sum	R	R	R	R
A1.3	Allow for annual premium costs incurred for insurances as required in terms of the contract.	Sum	R	R	R	R
A1.4	Allow for annual cost incurred for compliance with the requirements of the OHS Act construction regulations.	Sum	R	R	R	R
A1.5	Monthly standby fee.	Sum	R	R	R	R

A1.6	Monthly cost of liaison, co-ordination and attendance on Municipality, Eskom, other Contractors, etc.	Sum	R	R	R	R
A1.7	Allow for attendance on monthly maintenance meetings with the Municipality of minimum 2 hours each.	Sum		R	R	R
A1.8	Allow for monthly liaison with Municipality's appointed Maintenance Supervisor. Item to include for daily feedback / progress / co-ordination meetings and sessions held in Knysna of approx. 1 hour each.	Sum		R	R	R
A1.9	Competent Health and Safety Official	Sum		R	R	R
A2.0	**LABOUR AND TRANSPORT RATES**					
A2.1	Labour, Normal Time:					
A2.1.1	Engineer	Hour		R	R	R
A2.1.2	Supervisor	Hour		R	R	R
A2.1.3	Installation Technician	Hour		R	R	R
A2.1.4	Labourer	Hour		R	R	R
A2.2	Labour, Normal Overtime:					
A2.2.1	Engineer	Hour		R	R	R
A2.2.2	Supervisor	Hour		R	R	R
A2.2.3	Installation Technician	Hour		R	R	R
A2.2.4	Labourer	Hour		R	R	R
A2.3	Labour, Sundays and Public Holidays:					
A2.3.1	Engineer	Hour		R	R	R
A2.3.2	Supervisor	Hour		R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**

	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
A2.3.3	Installation Technician	Hour	R	R	R	R
A2.3.4	Labourer	Hour	R	R	R	R
A2.4	Travel:					
A2.4.1	Private Car or Light Delivery Vehicle.	km	R	R	R	R
A2.4.2	1 Ton 4 x 4 Bakkie	km	R	R	R	R
A2.4.3	10 Ton Crane Truck	Hr	R	R	R	R
A2.4.4	JCB type Backhoe Loader	Hr	R	R	R	R
A2.5	Accommodation and Subsistence per Person.	day	R	R	R	R
A3.0	**MATERIAL AND LABOUR**					
A3.1	Percentage mark-up on the nett cost of unscheduled items of material and labour from external specialist supplier / firm.	%				
A4.0	**MISCELLANEOUS**					
A4.1	Lump sum allowance for any items not included in this schedule necessary to complete the installation in accordance with the specification and drawings. Brief description of such items to be entered hereunder.	Sum	R	R	R	R
-	-					
	TOTAL SCHEDULE A TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**

	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

B.

ITEM NO.	DESCRIPTION	UNIT	MATERIAL		LABOUR	
			RATE	TOTAL	RATE	TOTAL
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All rates to include for supply, delivery and installation thereof unless specified otherwise.					
(iii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					
B1.0	**EQUIPMENT**					
B1.1	Generating set with residential type exhaust silencing system complete as specified, including delivery to site and rigging into position inside roofed building:					
B1.1.1	50 kVA (40 kWe)	Item	R	R	R	R
B1.1.2	100 kVA (80 kWe)	Item	R	R	R	R
B1.1.3	150 kVA (120 kWe)	Item	R	R	R	R

B1.1.4	200 kVA (160 kWe)	Item	R	R	R	R
B1.1.5	300 kVA (240 kWe)	Item	R	R	R	R
B1.1.6	400 kVA (320 kWe)	Item	R	R	R	R
B1.1.7	550 kVA (440 kWe)	Item	R	R	R	R
B1.2	Weatherproof, 3CR12, canopy type enclosure for generating set mentioned in Item B1.1 above with sound output level of 80 dB @ 7m, including all sound attentuating louvres, padding, etc required.					
B1.2.1	50 kVA (40 kWe)	Item	R	R	R	R
B1.2.2	100 kVA (80 kWe)	Item	R	R	R	R
B1.2.3	160 kVA (128 kWe)	Item	R	R	R	R
B1.2.4	200 kVA (160 kWe)	Item	R	R	R	R
B1.2.5	300 kVA (240 kWe)	Item	R	R	R	R
B1.2.6	400 kVA (320 kWe)	Item	R	R	R	R
B1.2.7	550 kVA (440 kWe)	Item	R	R	R	R
B1.3	Generator control / change-over panel complete as specified, excluding kvA / kWh consumption meter measured elsewhere for:					
B1.3.1	50 kVA (40 kWe)	Item	R	R	R	R
B1.3.2	100 kVA (80 kWe)	Item	R	R	R	R
B1.3.3	150 kVA (120 kWe)	Item	R	R	R	R
B1.3.4	200 kVA (160 kWe)	Item	R	R	R	R
B1.3.5	300 kVA (240 kWe)	Item	R	R	R	R
B1.3.6	400 kVA (320 kWe)	Item	R	R	R	R
B1.3.7	550 kVA (440 kWe)	Item	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**

B1.4	Day tank with 12-hour diesel storage capacity including drip tray and interconnecting pipework, etc for:					
B1.4.1	50 kVA (40 kWe)	Item	R	R	R	R
B1.4.2	100 kVA (80 kWe)	Item	R	R	R	R
B1.4.3	150 kVA (120 kWe)	Item	R	R	R	R
B1.4.4	200 kVA (160 kWe)	Item	R	R	R	R
B1.4.5	300 kVA (240 kWe)	Item	R	R	R	R
B1.4.6	400 kVA (320 kWe)	Item	R	R	R	R
B1.4.7	550 kVA (440 kWe)	Item	R	R	R	R
B1.5	Self-priming electrically operated pump for automatically filling of indoor day tank.	Sum	R	R	R	R
B1.6	Supply, install and connect Wica diesel type, 0 to 1m, pressure transmitter complete with 15 m of instrumentation cable, including isolating ball valve, etc on day tank inside generator room.	Sum	R	R	R	R
B1.7	Earthing of new generator equipment, including 2 x 4,5m earth spikes and ± 30 metres of 70 mm2 Cu bare conductor, lugs, etc.	Sum	R	R	R	R
B1.8	Interconnecting and interfacing of generator controls, diesel level sensor, etc to telemetry equipment supplied by others, including liasion with Telemetry Contractor to ensure correct operation of remote monitoring of the generator set .	Sum	R	R	R	R
B2.0	**MISCELLANEOUS**					
B2.1	Supply and install replacement generator starter battery:					
B2.1.1	12V, 102Ah	Sum	R	R	R	R

B2.2	Lump sum allowance for any items not included in this schedule necessary to complete the installation in accordance with the specification and drawings. Brief description of such items to be entered hereunder.	Sum	R	R	R	R
	TOTAL SCHEDULE B TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**
	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

C.

ITEM NO.	DESCRIPTION	UNIT	MATERIAL		LABOUR	
			RATE	TOTAL	RATE	TOTAL
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All rates to include for supply, delivery and installation thereof unless specified otherwise.					
(iii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					
C1.0	**CONTROL CUBICLES**					
	Tenders to price each control / equipment cubicle separately in accordance with the typical items of equipment to be installed inside same as indicated in the Specification. Allowance shall be made for all busbars, wiring, cut-outs, etc required, as well as for the necessary 304 stainless steel cladding / enclosure					
C1.1	Supply and install typical incomer compartment cubicle, excl kWh meter but complete with power analyser, surge arrestors, busbars, etc. with both main incoming and generator MCB's rated at:					
C1.1.1	60A @ 10 kA	Sum	R	R	R	R
C1.1.2	100A @ 15 kA	Sum	R	R	R	R
C1.1.3	150A @ 15 kA	Sum	R	R	R	R
C1.1.4	250A @ 25 kA	Sum	R	R	R	R

C1.1.5	300A @ 25 kA	Sum	R	R	R	R
C1.1.6	300 to 630A @ 50 kA (adjustable type)	Sum	R	R	R	R
C1.2	Single pump control compartment complete with typical control gear, alarm / status indicator lamps, telemetry I/O, etc as specified, but excl pump motor drive (i.e. VSD / Soft Starter) measured elsewhere for:					
C1.2.1	3 kW pump	Sum	R	R	R	R
C1.2.2	7,5 kW pump	Sum	R	R	R	R
C1.2.3	15 kW pump	Sum	R	R	R	R
C1.2.4	30 kW pump	Sum	R	R	R	R
C1.2.5	55 kW pump	Sum	R	R	R	R
C1.2.6	90 kW pump	Sum	R	R	R	R
C1.2.7	132 kW pump	Sum	R	R	R	R
C1.2.8	315 kW pump	Sum	R	R	R	R
C1.3	Single mixer control compartment complete with typical control gear, alarm / status indicator lamps, telemetry I/O, etc as specified, but excl pump motor drive (i.e. VSD / Soft Starter) measured elsewhere for:					
C1.3.1	1.1 kW mixer	Sum	R	R	R	R
C1.3.2	3 kW mixer	Sum	R	R	R	R
C1.4	Single mixer control compartment complete with typical control gear, alarm / status indicator lamps, telemetry I/O, etc as specified, but excl mixer motor drive (i.e. VSD / soft starters) measured elsewhere for:		R	R	R	R
C1.4.1	1.1 kW mixer	Sum	R	R	R	R
C1.4.2	3 kW mixer	Sum	R	R	R	R

	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
C1.5	Single mechanical screen control compartment complete with typical control gear, alarm / status indicator lamps, telemetry I/O, etc as specified, but excl screen motor drive (i.e. VSD / soft starters) measured elsewhere for:					
C1.5.1	1.1 kW screen	Sum	R	R	R	R
C1.5.2	3 kW screen	Sum	R	R	R	R
C1.6	Single screw conveyor screen control compartment complete with typical control gear, alarm / status indicator lamps, telemetry I/O, etc as specified, but excl motor drive (i.e. VSD / soft starters) measured elsewhere for:					
C1.6.1	1.1 kW screw conveyor	Sum	R	R	R	R
C1.6.2	3 kW screw conveyor	Sum	R	R	R	R
C1.7	Single lime dosing control compartment complete with typical control gear, alarm / status indicator lamps, telemetry I/O, etc as specified, but excl motor drive (i.e. VSD / soft starters) measured elsewhere for:					
C1.7.1	0,75 kW lime dosing unit	Sum	R	R	R	R
C1.8	Single PLC / HMI control compartment complete with Delta type PLC and HMI equipment, I/O and communication cards, etc as specified with sufficient I/O modules to cater for:					
C1.8.1	50 x DIN, 10 x DOT, 5 x AIN	Sum	R	R	R	R

C1.8.2	100 x DIN, 10 x DOT, 5 x AIN	Sum	R	R	R	R
C1.8.3	150 x DIN, 20 x DOT, 10 x AIN	Sum	R	R	R	R
C1.9	Single spare compartment with backplate for mounting of telemetry / future equipment.	Sum	R	R	R	R
C1.10	HMI / PLC software programming including implementation of Client / Engineer specific requirements regarding HMI security and control setup, as well as checking and verifying all other control functions for implementing typical control philosophy described in specification for:					
C1.10.1	Pump	Sum	R	R	R	R
C1.10.2	Mixer	Sum	R	R	R	R
C1.10.3	Mechanical screen	Sum	R	R	R	R
C1.10.4	Screw Conveyor	Sum	R	R	R	R
C1.10.5	Lime dosing	Sum	R	R	R	R
C1.11	Supply and install VSD similar or approved equal to Weg CFW11 type inside new Motor Control Panel cubicles for:					
C1.11.1	0,75 kW motor	Item	R	R	R	R
C1.11.2	1,1 kW motor	Item	R	R	R	R
C1.11.3	3 kW motor	Item	R	R	R	R
C1.11.4	7,5 kW motor	Item	R	R	R	R
C1.11.5	15 kW motor	Item	R	R	R	R
C1.11.6	30 kW motor	Item	R	R	R	R
C1.11.7	55 kW motor	Item	R	R	R	R
C1.11.8	90 kW motor	Item	R	R	R	R
C1.11.9	132 kW motor	Item	R	R	R	R
C1.11.10	315 kW motor	Item	R	R	R	R

	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	-					
C1.12	Supply and install soft starter equipment similar or approved equal to Weg type inside new Motor Control Panel cubicles for:					
C1.12.1	0,75 kW motor	Item	R	R	R	R
C1.12.2	1,1 kW motor	Item	R	R	R	R
C1.12.3	3 kW motor	Item	R	R	R	R
C1.12.4	7,5 kW motor	Item	R	R	R	R
C1.12.5	15 kW motor	Item	R	R	R	R
C1.12.6	30 kW motor	Item	R	R	R	R
C1.12.7	55 kW motor	Item	R	R	R	R
C1.12.8	90 kW motor	Item	R	R	R	R
C1.12.9	132 kW motor	Item	R	R	R	R
C1.12.10	260 kW motor	Item	R	R	R	R
C1.13	Spare set of three ultra-rapid fuses for all VSD / Soft Starter equipment installed in MCC panel measured elsewhere.					
C1.13.1	0,75 kW motor	Item	R	R	R	R
C1.13.2	1,1 kW motor	Item	R	R	R	R
C1.13.3	3 kW motor	Item	R	R	R	R
C1.13.4	7,5 kW motor	Item	R	R	R	R
C1.13.5	15 kW motor	Item	R	R	R	R
C1.13.6	30 kW motor	Item	R	R	R	R
C1.13.7	55 kW motor	Item	R	R	R	R
C1.13.8	90 kW motor	Item	R	R	R	R
C1.13.9	132 kW motor	Item	R	R	R	R

C1.13.10	260 kW motor	Item	R	R	R	R
C1.14	Supply and install kWh meter inside incomer compartment cubicle of MCC control panel for incoming three phase supplies:					
C1.14.1	Less than 100A - Direct connect Landis & Gyr 3219 (Ampy) type kWh meter	Item	R	R	R	R
C1.14.2	Above 100A - Landis & Gyr type ZMD 405 C7 kWh meter, including CT's LED indicator fuses, test block and cell phone modem for remote metering. Item to include testing, commissioning and programming of meter by Specialist Contractor to municipal requirements, including test reports, etc.	Item	R	R	R	R
C1.15	Moulded case circuit breaker complete with interconnecting tails, etc. installed inside MCC Panel, kiosk, etc:					
C1.15.1	300 to 630A @ 50 kA (TP, adjustable type)	No.	R	R	R	R
C1.15.2	300A @ 25 kA (TP)	No.	R	R	R	R
C1.15.3	250A @ 25 kA (TP)	No.	R	R	R	R
C1.15.4	150A @ 15 kA (TP)	No.	R	R	R	R
C1.15.5	100A @ 10 kA (TP)	No.	R	R	R	R
C1.15.6	80A @ 10 kA (TP)	No.	R	R	R	R
	-					
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	-					
C1.15.7	63A @ 10 kA (TP)	No.	R	R	R	R
C1.15.8	40A @ 10 kA (TP)	No.	R	R	R	R
C1.15.9	20A @ 10 kA (TP)	No.	R	R	R	R
C1.15.10	80A @ 10 kA (SP)	No.	R	R	R	R

C1.15.11	63A @ 10 kA (SP)	No.	R	R	R	R
C1.15.12	40A @ 10 kA (SP)	No.	R	R	R	R
C1.15.13	20A @ 10 kA (SP)	No.	R	R	R	R
C1.15.14	63A E/L Unit (3P + N)	No.	R	R	R	R
C1.15.15	63A E/L Unit (1P + N)	No.	R	R	R	R
C2.0	**MISCELLANEOUS**					
C2.1	Liasion with Municipality's Telemetry Contractor for the interfacing and enabling of the new / upgraded MCC panel and equipment onto the telemetry system.	Sum	R	R	R	R
C2.2	Lump sum allowance for any items not included in this schedule necessary to complete the installation in accordance with the specification and drawings. Brief description of such items to be entered hereunder.	Sum	R	R	R	R
	TOTAL SCHEDULE C TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**
	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

D.

ITEM NO.	DESCRIPTION	UNIT	MATERIAL		LABOUR	
			RATE	TOTAL	RATE	TOTAL
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All rates to include for supply, delivery and installation thereof unless specified otherwise.					
(iii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					
D1.0	**ELECTRICAL INSTALLATION**					
D1.1	Arrange power shutdown with Municipality / Eskom. Item to include Attendance Fee to be paid to Municipality / Eskom.	Sum	R	R	R	R
D1.2	Trenching by hand for LV cable / sleeve, 400 mm wide x 700 mm deep, including backfilling and compaction:					

D1.2.1	Soft pickable soil	m	R	R	R	R
D.1.2.2	Soft Rock	m	R	R	R	R
D1.2.3	Hard rock	m	R	R	R	R
D1.3	400 mm wide x 100-micron PVC Marker tape over cable in trench measured elsewhere.	m	R	R	R	R
D1.4	Concrete cable markers indicating cable direction, size etc.	No.	R	R	R	R
D1.5	450mm Deep imported bedding / cover material in 400mm wide trench measured elsewhere. Backfill material to be recovered from trenches	m	R	R	R	R
D1.6	Extra over cost for Items D1.2 and D1.5 above:					
D1.6.1	Imported backfill material from off-site source.	m3	R	R	R	R
D1.6.2	Disposal of surplus or unsuitable material including haulage up to 10 km from site.	m3	R	R	R	R
D1.7	Break-up and re-instate paving along cable route after installation of sleeve.	m	R	R	R	R
D1.8	uPVC sleeve installed in floor slab / trench measured elsewhere:					
D1.8.1	110mm Ø sleeve.	m	R	R	R	R
D1.9	Seal sleeve ends after installation of cable using Sista foam.					
D1.9.1	110mm Ø sleeve.	No.	R	R	R	R
D1.9.2	75mm Ø conduit.	No.	R	R	R	R
D1.9.3	50mm Ø conduit.	No.	R	R	R	R
D1.10	Supply and install overall screened, steel wire armoured, twisted pair type instrumentation cables in sleeve / conduit / cable tray measured elsewhere.					
D1.10.1	1,5 mm^2 x 1 Pair	m	R	R	R	R
D1.10.2	1,5 mm^2 x 8 Pair	m	R	R	R	R
D1.10.3	1,5 mm^2 x 8 Pair	m	R	R	R	R

	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
D1.11	Supply and install LV, PVCAS cable in trench / sleeve / cable tray measured elsewhere:					
D1.11.1	630 mm^2 Cu x 1 Core (Unarmoured)	m	R	R	R	R
D1.11.2	300 mm^2 Cu x 1 Core (Unarmoured)	m	R	R	R	R
D1.11.3	185 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.4	150 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.5	120 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.6	95 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.7	70 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.8	50 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.9	35 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.10	25 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.11	16 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.12	10 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.13	6 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.14	4 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.15	2,5 mm^2 Cu x 4 Core	m	R	R	R	R
D1.11.16	1,5 mm^2 Cu x 4 Core	m	R	R	R	R
D1.12	Duracast resin through joint in LV, PVCAS cable measured elsewhere:					
D1.12.1	630 mm^2 Cu x 1 Core (Unarmoured)	No.	R	R	R	R

D1.12.2	300 mm^2 Cu x 1 Core (Unarmoured)	No.	R	R	R	R
D1.12.3	185 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.4	150 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.5	120 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.6	95 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.7	70 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.8	50 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.9	35 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.10	25 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.11	16 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.12	10 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.13	6 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.14	4 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.15	2,5 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.12.16	1,5 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13	Terminate and connect LV, PVCAS cables at kiosk / MCC panel / motors / equipment using brass cable gland, brass locknut, neoprene rubber shroud and crimp lugs:					
D1.13.1	630 mm^2 Cu x 1 Core (Unarmoured)	No.	R	R	R	R
D1.13.2	300 mm^2 Cu x 1 Core (Unarmoured)	No.	R	R	R	R
D1.13.3	185 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.4	150 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.5	120 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.6	95 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.7	70 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.8	50 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.9	35 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.10	25 mm^2 Cu x 4 Core	No.	R	R	R	R

D1.13.11	16 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.12	10 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.13	6 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.14	4 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.15	2,5 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.13.16	1,5 mm^2 Cu x 4 Core	No.	R	R	R	R
D1.14	Terminate and connect overall screened, steel wire armoured, twisted pair type instrumentation cables at MCC panel / equipment / remote E-stop stations / pratley or termination box using brass cable gland, brass locknut, neoprene rubber shroud and crimp lugs:					
D1.14.1	1,5 mm^2 x 1 Pair	No.	R	R	R	R
D1.14.2	1,5 mm^2 x 4 Pair	No.	R	R	R	R
D1.14.3	1,5 mm^2 x 8 Pair	No.	R	R	R	R
D1.15	Terminate and connect instrumentation cables supplied with pressure / flow sensors, no flow / float switches, PT 100 sensors, etc at MCC panel / junction box using compression type glands and crimp lugs.	Sum	R	R	R	R
D1.16	HD bare copper earth wire laid in trench / sleeve / cable tray:					
D1.16.1	50mm^2	m	R	R	R	R
D1.16.2	35mm^2	m	R	R	R	R
D1.16.3	25mm^2	m	R	R	R	R
D1.16.4	16mm^2	m	R	R	R	R
	-					
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**

	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
D1.16.5	6mm2	m	R	R	R	R
D1.16.6	4mm2	m	R	R	R	R
D1.17	Hard drawn bare copper earth wire terminated at kiosk / MCC panel / pump motor / pratley or termination box.					
D1.17.1	50mm^2	No.	R	R	R	R
D1.17.2	35mm^2	No.	R	R	R	R
D1.17.3	25mm^2	No.	R	R	R	R
D1.17.4	16mm^2	No.	R	R	R	R
D1.17.5	6mm^2	No.	R	R	R	R
D1.17.6	4mm^2	No.	R	R	R	R
D1.18	Main AMF / MCC earth consisting of approx. 30 metre length of 70mm² PVC bare copper conductor installed in trench, 2 x 4,5-metre-long earth spikes and 2 x earth spike markers.	Sum	R	R	R	R
D1.19	Galvanised steel conduit saddled to pumpstation ceiling / wall / roof purlins, etc. Item to include for all saddles, adapters etc required.					
D1.19.1	40 mm Ø	m	R	R	R	R
D1.19.2	32 mm Ø	m	R	R	R	R
D1.19.3	25 mm Ø	m	R	R	R	R
D1.19.4	20 mm Ø	m	R	R	R	R
D1.20	PVC conduit saddled to pumpstation ceiling / wall / roof purlins, etc. Item to include for all saddles, adapters etc required.					
D1.20.1	75 mm Ø	m	R	R	R	R
D1.20.2	50 mm Ø	m	R	R	R	R

D1.20.3	40 mm Ø	m	R	R	R	R
D1.20.4	32 mm Ø	m	R	R	R	R
D1.20.5	25 mm Ø	m	R	R	R	R
D1.20.6	20 mm Ø	m	R	R	R	R
D1.21	Surface mounted conduit boxes complete with covers and including fixing screws, etc:					
D1.21.1	100 x 50 mm PVC boxes	No.	R	R	R	R
D1.21.2	65mm Diameter PVC round box	No.	R	R	R	R
D1.21.3	100 x 50 mm galvanised steel boxes	No.	R	R	R	R
D1.22	Surface mounted, weather and vandal proof instrumentation junction boxes rated IP 65 minimum, complete with all terminals, connectors, etc for all cable / conduit terminations as required for connection of:					
D1.22.1	Typical pump (i.e. flow switch, PT 100's, Klixons, etc	No.	R	R	R	R
D1.22.2	Typical Mixer (seal fail, Klixons, etc)	No.	R	R	R	R
D1.22.3	Typical Screen (over torque, etc)	No.	R	R	R	R
D1.22.4	Sump (ultrasonic sensor, float switches, etc)	No.	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	-					
D1.23	Three way, IP 68 EZEE-FIT Ex n Pratley No. 0 Instrumentation cable box, complete with Kwikblok mountings, Kwikblocks, etc.	Item	R	R	R	R
D1.24	600 / 1000 V PVC insulated copper conductors wiring drawn into conduit / cable tray, including					

	terminations, etc. (Conduit / cable tray measured elsewhere):					
D1.24.1	4 mm^2	m	R	R	R	R
D1.24.2	2,5 mm^2	m	R	R	R	R
D1.25	Supply and install Matelec type rotatable weatherproof switches in flush mounted boxes:					
D1.25.1	One way	No.	R	R	R	R
D1.25.2	Two way	No.	R	R	R	R
D1.26	Light fittings surface mounted to wall / ceiling, etc including all galvanised steel screws, grommets, lamps, tubes, etc.:					
D1.26.1	IP 65, enclosed fluorescent type luminaire similar or approved equal to the Lascon Corolite 10N type with 2 x 58W lamps.	No.	R	R	R	R
D1.26.2	150 W HPS luminaires with internal eyelids, glass diffusers and decorative skirt similar or approved equal to Bekanova type.	No.		Nil		Nil
D1.27	Surface mounted 16 Amp 3-pin weatherproof switch socket outlet:					
D1.27.1	Double socket outlet	No.	R	R	R	R
D1.28	Hot dipped galvanised steel mesh cable tray installed against wall / floor. Item to include all brackets, stainless steel mounting screws / bolts required:					
D1.28.1	400mm wide	m	R	R	R	R
D1.28.2	200mm wide	m	R	R	R	R
D1.28.3	100mm wide	m	R	R	R	R
D1.28.4	50mm wide	m	R	R	R	R
D1.29	Labelling of all cables.	Sum	R	R	R	R
	-					
D2.0	**MISCELLANEOUS**					

D2.1	Provide Certificate of Compliance for upgraded / modified / new electrical installation as required in terms of the regulations.	Item	R	R	R	R
D2.2	Lump sum allowance for any items not included in this schedule necessary to complete the installation in accordance with the specification and drawing. Brief description of such items to be entered hereunder.	Sum	R	R	R	R
	-					
	TOTAL SCHEDULE D TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**
	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

E.

ITEM NO.	DESCRIPTION	UNIT	MATERIAL		LABOUR	
			RATE	TOTAL	RATE	TOTAL
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All rates to include for supply, delivery and installation thereof unless specified otherwise.					
(iii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					
E1.0	**LEVEL SENSORS**					
E1.1	Supply, install and connect high / low level float switches, similar or equal to Flygt ENM-6 type inside pump chamber complete with 15m of trailing cable.	Sum	R	R	R	R

E1.2	Supply, install and connect Wica type or similar, submersible pressure transducer (0 to 5 m) complete with 10 m of instrumentation cable inside sewage sump / reservoir. Item to include for 3 off stainless steel unistrut type mounting brackets with K-type clamps and +- 50 mm diameter protective PVC pipe.	Sum	R	R	R	R
E1.3	Supply, install and connect Wica type or similar, submersible pressure transducer (0 - 150m) complete with 1500m of instrumentation cable inside borehole. Item to include for ± 1500m of ± 50 mm diameter protective HDPE Pipe, including all mounting brackets, etc required.	Sum	R	R	R	R
E1.4	Supply, install and connect Wica type or similar, 0 to 15 bar, pressure transmitter complete with 10 m of instrumentation cable, including isolating ball valve, etc on pipeline inside pumpstation.	Sum	R	R	R	R
E1.5	Supply, install and connect Mobrey type or similar,	Sum	R	R	R	R
	0 to 5m, ultrasonic level / flow monitoring transducer complete with 10 m of instrumentation cable, including stainless steel mounting brackets assemblies and sensor head inside sump / reservoir.		R	R	R	R
E1.6	Supply and install Mobrey MCU901WX-A type controller or similar inside MCC panel, etc.	Sum	R	R	R	R
E2.0	**FLOW METERS**					
E2.1	Supply and install new 24 / 220 V AC, PN10 rated in-line, full bore, double flanged electromagnetic type flow meter and display similar or equal to Siemens Magflow type, complete as specified					

	including all setting up, calibration, etc of nominal internal dam size:					
E2.1.1	DN80	Item	R	R	R	R
E2.1.2	DN100	Item	R	R	R	R
E2.1.3	DN125	Item	R	R	R	R
E2.1.4	DN150	Item	R	R	R	R
E2.1.5	DN200	Item	R	R	R	R
E2.1.6	DN250	Item	R	R	R	R
E2.1.6	DN300	Item	R	R	R	R
E2.2	Supply and install new battery powered, PN10 rated in-line, full bore, double flanged electromagnetic type flow meter and display similar or equal to Flowmetrix Batmag type, complete as specified including all setting up, calibration, etc of nominal internal dam size:					
E2.2.1	DN80	Item	R	R	R	R
E2.2.2	DN100	Item	R	R	R	R
E2.2.3	DN125	Item	R	R	R	R
E2.2.4	DN150	Item	R	R	R	R
E2.2.5	DN200	Item	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
E2.2.6	DN250	Item	R	R	R	R
E2.2.7	DN300	Item	R	R	R	R

E2.3	Supply and install new IP67 rated ultrasonic clamp on type flow meter and display similar or equal to the Siemens Sitrans type, complete as specified including all setting up, calibration, etc.	Item	R	R	R	R
E2.4	Liasion with Municipality's Telemetry Contractor for the interfacing and enabling of the new flowmeter onto the telemetry system.	Sum	R	R	R	R
E3.0	**MISCELLANEOUS**					
E3.1	Supply, install and connect IP 65 microswitch limit type flow monitoring switches on counterweights on non-return valve arm attachments, including stainless steel mounting brackets, etc.	Sum	R	R	R	R
E3.2	Start / Stop / Emergency Stop push button station, hot dipped galvanised 1 200 mm x 100 mm x 50 mm channel iron and base plate support assembly, etc	Item	R	R	R	R
E3.3	Supply and install 9 kg dry powder Fire Extinguisher.	Item	R	R	R	R
E3.4	Safety sign and notices complete as specified.	Sum	R	R	R	R
E3.5	Supply and install municipal type padlocks on building / equipment.	Item	R	R	R	R
E3.6	Lump sum allowance for any items not included in this schedule necessary to complete the installation in accordance with the specification and drawing. Brief description of such items to be entered hereunder.	Sum		R		R
	TOTAL SCHEDULE E TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**

	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

F.

ITEM NO.	**DESCRIPTION**	**UNIT**	**MATERIAL**		**LABOUR**	
			RATE	**TOTAL**	**RATE**	**TOTAL**
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All rates to include for supply, delivery and installation thereof unless specified otherwise.					
(iii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					

	RAW WATER PUMPS					
F1.0	**SELF-PRIMING PUMPS**					
	The specified raw water self-priming pump sizes listed below shall each include for the following items:					
-	Priming air valve to suit application and duty.					
-	Low NPSHreq.					
-	Cast iron impeller and mechanical seals.					
-	Baseplate and coupling or V-belt with pulleys for both pump and motor.					
F1.1	Supply and install self-priming pump with an approximate Flow Rate (l/s) and Head (m) as follows:					
F1.1.1	15l/s Flow and 15m Head	No	R	R	R	R
F1.1.2	20l/s Flow and 35m Head	No	R	R	R	R
F1.1.3	30l/s Flow and 6m Head	No	R	R	R	R
F1.1.4	35l/s Flow and 20m Head	No	R	R	R	R
F1.1.5	40l/s Flow and 30m Head	No	R	R	R	R
F1.1.6	45l/s Flow and 15m Head	No	R	R	R	R
F1.1.7	50l/s Flow and 40m Head	No	R	R	R	R
F1.1.8	50l/s Flow and 80m Head	No	R	R	R	R
F1.1.9	60l/s Flow and 4m Head	No	R	R	R	R
F1.1.10	110l/s Flow and 45m Head	No	R	R	R	R
F1.1.11	150l/s Flow and 50m Head	No	R	R	R	R
F1.1.12	150l/s Flow and 60m Head	No	R	R	R	R
F2.0	**CENTIFUGAL PUMPS**					
	The specified raw water centrifugal pump sizes listed below shall each include for the following items:					
-	Bronze impeller, diffuser and wear rings.					

-	EN57 shafts and mechanical seals.					
-	Baseplate and coupling for both pump and motor.					
-	Suitable for raw water.					
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE	-	-	**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE	-	-	**R**		**R**
F2.1	Supply and install 4-pole centrifugal pump with an approximate Flow Rate (l/s) and Head (m) as follows:					
F2.1.1	5l/s Flow and 25m Head	No	R	R	R	R
F2.1.2	7,5l/s Flow and 100m Head	No	R	R	R	R
F2.1.3	10l/s Flow and 175m Head	No	R	R	R	R
F2.1.4	15l/s Flow and 15m Head	No	R	R	R	R
F2.1.5	15l/s Flow and 45m Head	No	R	R	R	R
F2.1.6	20l/s Flow and 35m Head	No	R	R	R	R
F2.1.7	20l/s Flow and 150m Head	No	R	R	R	R
F2.1.8	30l/s Flow and 6m Head	No	R	R	R	R
F2.1.9	35l/s Flow and 20m Head	No	R	R	R	R
F2.1.10	40l/s Flow and 30m Head	No	R	R	R	R
F2.1.11	45l/s Flow and 15m Head	No	R	R	R	R
F2.1.12	50l/s Flow and 40m Head	No	R	R	R	R
F2.1.13	50l/s Flow and 80m Head	No	R	R	R	R
F2.1.14	50l/s Flow and 120m Head	No	R	R	R	R
F2.1.15	60l/s Flow and 4m Head	No	R	R	R	R
F2.1.16	110l/s Flow and 45m Head	No	R	R	R	R
F2.1.17	150l/s Flow and 50m Head	No	R	R	R	R

F2.1.18	150l/s Flow and 60m Head	No	R	R	R	R
F3.0	**BOREHOLE PUMPS**					
	The specified raw water borehole pump sizes listed below shall each include for the following items:					
-	Stainless steel or non-ferrous pump / motor casing and impeller.					
-	Mechanical seals.					
-	Motor drop cable to be of suitable length to suit depth of borehole, i.e. no cable joints allowed in drop cable.					
-	Suitable for raw water with a high iron and manganese concentration.					
F3.1	Supply and install 4-pole borehole pump with an approximate Flow Rate (l/s) and Head (m) as follows:					
F3.1.1	2,5l/s Flow and 50m Head	No	R	R	R	R
F3.1.2	2,5l/s Flow and 100m Head	No	R	R	R	R
F3.1.3	5l/s Flow and 50m Head	No	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
F3.1.4	5l/s Flow and 100m Head	No	R	R	R	R
F3.1.5	7,5l/s Flow and 50m Head	No	R	R	R	R
F3.1.6	7,5l/s Flow and 100m Head	No	R	R	R	R
F3.1.7	10l/s Flow and 50m Head	No	R	R	R	R
F3.1.8	10l/s Flow and 100m Head	No	R	R	R	R

F3.1.9	7,5l/s Flow and 125m Head	No	R	R	R	R
	SEWAGE PUMPS					
F4.0	**SELF-PRIMING PUMPS**					
	The specified self-priming pumps of sizes and duty listed below shall each include for the following items:					
-	Priming air valve to suit application and duty.					
-	Low NPSHreq.					
-	Cast iron semi open type impeller and mechanical seals.					
-	Replaceable wear plate.					
-	Baseplate and coupling or V-belt with pulleys for both pump and motor.					
-	Suitable for raw unscreened sewage of minimum 76mm solids capacity.					
F4.1	Supply and install self-priming pump of size and Max Head (m) and Flow Rate (l/s) as follows:					
F4.1.1	Size: 152 x 152mm Max Head: 32m Max Flow Rate: 24 l/s	No	R	R	R	R
F4.1.2	Size: 254 x 254mm Max Head: 40m Max Flow Rate: 214 l/s	No	R	R	R	R
F4.1.3	Size: 102 x 76 mm Max Head: 51m Max Flow Rate: 121 l/s	No	R	R	R	R
F5.0	**SUBMERSIBLE PUMPS**					

	The specified sewage submersible pump sizes listed below shall each include for the following items:					
-	Cast iron and non-clog impeller.					
-	10m Power and control cable.					
-	Mechanical seals.					
-	Motor fitted with Klixon type winding over temperature sensors and mechanical seal failure sensor.					
-	Duckfoot bend kit complete.					
-	Suitable for raw unscreened sewage.					
F5.1	Supply and install submersible pump set similar or approved equal to existing make and model listed below:					
F5.1.1	Robot type RW 2120 BE-V (2.6 kW)	No	R	R	R	R
F5.1.2	Robot type RW 2130 DG-V (2.9 kW)	No	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
F5.1.3	Robot type RW 2130 DG-V (3.5 kW)	No	R	R	R	R
F5.1.4	Robot type RW 2120 BH-V (4 kW)	No	R	R	R	R
F5.1.5	Robot type RW 4030 DJ-V (5 kW)	No	R	R	R	R
F5.1.6	Robot type RW 4040/5.5 4 (5.5 kW)	No	R	R	R	R
F5.1.7	Robot type RW 4030 DL-V (6 kW)	No	R	R	R	R
F5.1.8	Robot type RW 4041/7.5 (7.5 kW)	No	R	R	R	R
F5.1.9	Robot type RW 4032 BR-V (9 kW)	No	R	R	R	R
F5.1.10	Robot type RW 6130 JE-V (13 kW)	No	R	R	R	R

F5.1.11	Robot type RW 6130 JE-V (20 kW)	No	R	R	R	R
F5.1.12	EPS type 8.200 22 kW	No	R	R	R	R
F5.1.13	Robot type RW 6130 JG-V (29 kW)	No	R	R	R	R
F5.1.14	EPS type 150.32 30 kW	No	R	R	R	R
F5.1.15	Robot type RW 6141 LI-V (34 kW)	No	R	R	R	R
F5.1.16	Robot type RW 6130 JL-V (48 kW)	No	R	R	R	R
F6.0	**STANDARD MAINTENANCE OF SUBMERSIBLE PUMPSTATION**					
F6.1	**Pull pump from installed position in sump, inspect pump (bearing, oil, volute and impeller) and reinstall after repairs:**					
F6.1.1	2.2 kW	each	R	R	R	R
F6.1.2	2.6 kW	each	R	R	R	R
F6.1.3	2.9 kW	each	R	R	R	R
F6.1.4	3.5 kW	each	R	R	R	R
F6.1.5	4 kW	each	R	R	R	R
F6.1.6	5 kW	each	R	R	R	R
F6.1.7	5.5 kW	each	R	R	R	R
F6.1.8	6 kW	each	R	R	R	R
F6.1.9	6.4 kW	each	R	R	R	R
F6.1.10	7.5 kW	each	R	R	R	R
F6.1.11	8.4 kW	each	R	R	R	R
F6.1.12	9 kW	each	R	R	R	R
F6.1.13	13 kW	each	R	R	R	R
F6.1.14	20 kW	each	R	R	R	R
F6.1.15	22 kW	each	R	R	R	R
F6.1.16	29 kW	each	R	R	R	R
F6.1.17	30 kW	each	R	R	R	R

F6.1.18	34 kW	each	R	R	R	R
F6.1.19	42 kW	each	R	R	R	R
F6.1.20	48 kW	each	R	R	R	R
F6.1.21	55kW	each	R	R	R	R
F6.1.22	90kW	each	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE					**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE					**R**
F6.2	**Supply and fit of new volute**					
F6.2.1	2.2 kW	each		R		R
F6.2.2	2.6 kW	each		R		R
F6.2.3	2.9 kW	each		R		R
F6.2.4	3.5 kW	each		R		R
F6.2.5	4 kW	each		R		R
F6.2.6	5 kW	each		R		R
F6.2.7	5.5 kW	each		R		R
F6.2.8	6 kW	each		R		R
F6.2.9	6.4 kW	each		R		R
F6.2.10	7.5 kW	each		R		R
F6.2.11	8.4 kW	each		R		R
F6.2.12	9 kW	each		R		R
F6.2.13	13 kW	each		R		R
F6.2.14	20 kW	each		R		R
F6.2.15	22 kW	each		R		R
F6.2.16	29 kW	each		R		R
F6.2.17	30 kW	each		R		R

F6.2.18	34 kW	each		R		R
F6.2.19	42 kW	each		R		R
F6.2.20	48 kW	each		R		R
F6.2.21	55kW	each		R		R
F6.2.22	90kW	each		R		R
F6.3	**Rewind and supply new klixons**					
F6.3.1	2.2 kW	each		R		R
F6.3.2	2.6 kW	each		R		R
F6.3.3	2.9 kW	each		R		R
F6.3.4	3.5 kW	each		R		R
F6.3.5	4 kW	each		R		R
F6.3.6	5 kW	each		R		R
F6.3.7	5.5 kW	each		R		R
F6.3.8	6 kW	each		R		R
F6.3.9	6.4 kW	each		R		R
F6.3.10	7.5 kW	each		R		R
F6.3.11	8.4 kW	each		R		R
F6.3.12	9 kW	each		R		R
F6.3.13	13 kW	each		R		R
F6.3.14	20 kW	each		R		R
F6.3.15	22 kW	each		R		R
F6.3.16	29 kW	each		R		R
F6.3.17	30 kW	each		R		R
F6.3.18	34 kW	each		R		R
F6.3.19	42 kW	each		R		R
F6.3.20	48 kW	each		R		R
F6.3.21	55kW	each		R		R
F6.3.22	90kW	each		R		R

	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE					**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE					**R**
F6.4	**Supply and fit new bearings**					
F6.4.1	2.2 kW	each		R		R
F6.4.2	2.6 kW	each		R		R
F6.4.3	2.9 kW	each		R		R
F6.4.4	3.5 kW	each		R		R
F6.4.5	4 kW	each		R		R
F6.4.6	5 kW	each		R		R
F6.4.7	5.5 kW	each		R		R
F6.4.8	6 kW	each		R		R
F6.4.9	6.4 kW	each		R		R
F6.4.10	7.5 kW	each		R		R
F6.4.11	8.4 kW	each		R		R
F6.4.12	9 kW	each		R		R
F6.4.13	13 kW	each		R		R
F6.3.14	20 kW	each		R		R
F6.4.15	22 kW	each		R		R
F6.4.16	29 kW	each		R		R
F6.4.17	30 kW	each		R		R
F6.4.18	34 kW	each		R		R
F6.4.19	42 kW	each		R		R
F6.4.20	48 kW	each		R		R
F6.4.21	55kW	each		R		R
F6.4.22	90kW	each		R		R

F6.5	**Supply and Fit new mechanical seal and pump seals**					
F6.5.1	2.2 kW	each		R		R
F6.5.2	2.6 kW	each		R		R
F6.5.3	2.9 kW	each		R		R
F6.5.4	3.5 kW	each		R		R
F6.5.5	4 kW	each		R		R
F6.5.6	5 kW	each		R		R
F6.5.7	5.5 kW	each		R		R
F6.5.8	6 kW	each		R		R
F6.5.9	6.4 kW	each		R		R
F6.5.10	7.5 kW	each		R		R
F6.5.11	8.4 kW	each		R		R
F6.5.12	9 kW	each		R		R
F6.5.13	13 kW	each		R		R
F6.5.14	20 kW	each		R		R
F6.5.15	22 kW	each		R		R
F6.5.16	29 kW	each		R		R
F6.5.17	30 kW	each		R		R
F6.5.18	34 kW	each		R		R
F6.5.19	42 kW	each		R		R
F6.5.20	48 kW	each		R		R
F6.5.21	55kW	each		R		R
F6.5.22	90kW	each		R		R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE					**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE					**R**

F6.6	**Supply and fit new impellor, balance and cut to size**					
F6.6.1	2.2 kW	each		R		R
F6.6.2	2.6 kW	each		R		R
F6.6.3	2.9 kW	each		R		R
F6.6.4	3.5 kW	each		R		R
F6.6.5	4 kW	each		R		R
F6.6.6	5 kW	each		R		R
F6.6.7	5.5 kW	each		R		R
F6.6.8	6 kW	each		R		R
F6.6.9	6.4 kW	each		R		R
F6.6.10	7.5 kW	each		R		R
F6.6.11	8.4 kW	each		R		R
F6.6.12	9 kW	each		R		R
F6.6.13	13 kW	each		R		R
F6.6.14	20 kW	each		R		R
F6.6.15	22 kW	each		R		R
F6.6.16	29 kW	each		R		R
F6.6.17	30 kW	each		R		R
F6.6.18	34 kW	each		R		R
F6.6.19	42 kW	each		R		R
F6.6.20	48 kW	each		R		R
F6.6.21	55kW	each		R		R
F6.6.22	90kW	each		R		R
	LIME DOSING PUMP					
F7.0	**LIME DOSING PUMP**					

F7.1	Supply and install dry lime feeder with stainless steel worm and stainless-steel hopper (0,3m³ capacity), dosage rate of 5kg/hour, suitable for VSD application, complete with a 400V, 3-phase motor and mounting frame.	No	R	R	R	R
	ELECTRIC MOTORS					
	The specified pump motor sizes listed below shall each include for the following items:					
-	All motors from 30kW to 150kW:					
	Fitted with thermistor winding protection.					
-	All motors from 185kW to 315kW:					
	Fitted with PT100 temperature sensors on windings and bearings, fitted in separate terminal enclosure.					
-	All motors to be suitable for operation at 400V, 50Hz operation.					
F7.0	**2-Pole Electric Motor**					
F7.1	Supply and install 4-pole electric motor with a standard kW power rating as follows:					
F7.1.1	5,5kW	No	R	R	R	R
F7.1.2	7,5kW	No	R	R	R	R
F7.1.3	11kW	No	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
F7.1.4	15kW	No	R	R	R	R

F7.1.5	18,5kW	No	R	R	R	R
F7.1.6	22kW	No	R	R	R	R
F7.1.7	30kW	No	R	R	R	R
F7.1.8	37kW	No	R	R	R	R
F7.1.9	45kW	No	R	R	R	R
F7.1.10	55kW	No	R	R	R	R
F7.1.11	75kW	No	R	R	R	R
F7.1.12	90kW	No	R	R	R	R
F7.1.13	110kW	No	R	R	R	R
F8.0	**4-POLE ELECTRIC MOTOR**					
F8.1	Supply and install 4-pole electric motor with a standard kW power rating as follows:					
F8.1.1	5,5kW	No	R	R	R	R
F8.1.2	7,5kW	No	R	R	R	R
F8.1.3	11kW	No	R	R	R	R
F8.1.4	15kW	No	R	R	R	R
F8.1.5	18,5kW	No	R	R	R	R
F8.1.6	22kW	No	R	R	R	R
F8.1.7	30kW	No	R	R	R	R
F8.1.8	37kW	No	R	R	R	R
F8.1.9	45kW	No	R	R	R	R
F8.1.10	55kW	No	R	R	R	R
F8.1.11	75kW	No	R	R	R	R
F8.1.12	90kW	No	R	R	R	R
F8.1.13	110kW	No	R	R	R	R
F8.1.14	132kW	No	R	R	R	R
F8.1.15	150kW	No	R	R	R	R
F8.1.16	185kW	No	R	R	R	R

F8.1.17	225kW	No	R	R	R	R
F8.1.18	260kW	No	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
F9.0	**6-POLE ELECTRIC MOTOR**					
F9.1	Supply and install 6-pole electric motor with a standard kW power rating as follows:					
F9.1.1	5,5kW	No	R	R	R	R
F9.1.2	7,5kW	No	R	R	R	R
F9.1.3	11kW	No	R	R	R	R
F9.1.4	15kW	No	R	R	R	R
F9.1.5	18,5kW	No	R	R	R	R
F9.1.6	22kW	No	R	R	R	R
F9.1.7	30kW	No	R	R	R	R
F9.1.8	37kW	No	R	R	R	R
F9.1.9	45kW	No	R	R	R	R
F9.1.10	55kW	No	R	R	R	R
F9.1.11	75kW	No	R	R	R	R
F9.1.12	90kW	No	R	R	R	R
F9.1.13	110kW	No	R	R	R	R
F9.1.14	132kW	No	R	R	R	R
F9.1.15	150kW	No	R	R	R	R
F9.1.16	185kW	No	R	R	R	R
F9.1.17	225kW	No	R	R	R	R
F9.1.18	260kW	No	R	R	R	R

	-					
	MISCELLANEOUS					
F10.0	**COMPRESSORS**					
F10.1	Supply and install industrial rated, electrically driven piston type air compressor of standard ratings as follows:					
F10.1.1	Working Pressure: 12 Bar Displacement: 5 cfm Approx Power: ± 1,1 Kw	No	R	R	R	R
F10.1.2	Working Pressure: 12 Bar Displacement: 18 cfm Approx Power: ± 4 kW	No	R	R	R	R
F10.1.3	Working Pressure: 12 Bar Displacement: 25 cfm Approx Power: ± 5,5 kW	No	R	R	R	R
F10.1.4	Working Pressure: 12 Bar Displacement: 32 cfm Approx Power: ± 7,0 kW	No	R	R	R	R
F11	**CABLING**					
F11.1	Supply and fit 600 / 1000V rated submersible type trailing cables to submersible pumps, etc.					
F11.1.1	16 mm^2 Cu x 4 Core	m	R	R	R	R
F11.1.2	10 mm^2 Cu x 4 Core	m	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
F11.1.3	6 mm^2 Cu x 4 Core	m	R	R	R	R
F11.1.4	4 mm^2 Cu x 4 Core	m	R	R	R	R
F11.1.5	2,5 mm^2 Cu x 4 Core	m	R	R	R	R

F11.1.6	1,5 mm^2 Cu x 4 Core	m	R	R	R	R
F11.1.7	4 mm^2 Cu x 7 Core	m	R	R	R	R
F11.1.8	2,5 mm^2 Cu x 7 Core	m	R	R	R	R
F11.1.9	1,5 mm^2 Cu x 7 Core	m	R	R	R	R
F12.0	**GUIDE BARS**					
F12.1	Supply and fit approx. 6m long stainless-steel guide rail inside sump:					
F12.1.1	DN65	Item	R	R	R	R
F12.1.2	DN80	Item	R	R	R	R
F12.1.3	DN100	Item	R	R	R	R
F12.2	Supply and fit new stainless steel top guide rail bracket inside sump:					
F12.2.1	DN65	Item	R	R	R	R
F12.2.2	DN80	Item	R	R	R	R
F12.2.3	DN100	Item	R	R	R	R
F12.3	Supply and fit new stainless steel bottom guide rail bracket inside sump:					
F12.3.1	DN65	Item	R	R	R	R
F12.3.2	DN80	Item	R	R	R	R
F12.3.3	DN100	Item	R	R	R	R
F13.0	**VALVES**					
F13.1	Supply and install flange mounted, PN16 rated, two pack epoxy powder coated cast iron gate valve designed for sewage applications, complete with stainless steel non-rising spindle and handwheel, and EPDM coated gate:					
F13.1.1	75mm	Item	R	R	R	R
F13.1.2	90mm	Item	R	R	R	R
F13.1.3	110mm	Item	R	R	R	R
F13.1.4	160mm	Item	R	R	R	R

F13.1.5	200mm	Item	R	R	R	R
F13.2	Supply and install free acting, flanged mounted, two pack epoxy powder coated cast iron non-return flap / check valve designed for sewage applications:					
F13.2.1	75mm	Item	R	R	R	R
F13.2.2	90mm	Item	R	R	R	R
F13.2.3	110mm	Item	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
F13.2.4	160mm	Item	R	R	R	R
F13.2.5	200mm	Item	R	R	R	R
F13.3	Supply and install free acting, flanged mounted, two pack epoxy powder coated cast iron non-return flap / check valve designed for sewage applications complete with cantilever arm and weight:					
F13.3.1	160mm	Item	R	R	R	R
F13.3.2	200mm	Item	R	R	R	R
F13.3.3	250mm	Item	R	R	R	R
F14.0	**GEARBOXES**					
F14.1	Helical parallel shaft type vertically mounted gearbox					
F14.1.1	Type: Hellical parallel shaft Mounting: Vertical Power: 35kW Axial Load: 5 500N	Item	R	R	R	R

F14.1.2	Type: Vertical spindle Power: 5,5kW Axial Load: 2 500N	Item	R	R	R	R
F15.0	**Overhaul of aerators-motors:**					
F15.1	Vertical aerators	Item		R		R
F15.2	Horizontal aerator	Item		R		R
F15.3	Mixes	Item		R		R
F16.0	**OTHER**					
F15.1	Lump sum allowance for any items not included in this schedule necessary to complete the installation in accordance with the specification and drawing. Brief description of such items to be entered hereunder.	Sum	R	R	R	R
	TOTAL SCHEDULE F TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**
	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

G.

ITEM NO.	DESCRIPTION	UNIT	MATERIAL		LABOUR	
			RATE	TOTAL	RATE	TOTAL
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All rates to include for supply, delivery and installation thereof unless specified otherwise.					
(iii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					
G1.0	**GENERATING EQUIPMENT**					
G1.1	Minor service of generator equipment consisting of:					

G1.1.1	Conduct full visual inspection on existing genset equipment.	Sum	R	R	R	R
G1.1.2	Check hoses, radiator and radiator core and top-up antifreeze if necessary.	Sum	R	R	R	R
G1.1.3	Check and empty diesel water trap.	Sum	R	R	R	R
G1.1.4	Check V-belts and charging alternator.	Sum	R	R	R	R
G1.1.5	Check all electrical connections / voltages and test battery charger circuit.	Sum	R	R	R	R
G1.1.6	Test control system and safety device.	Sum	R	R	R	R
G1.1.7	Full mains failure load test.	Sum	R	R	R	R
G1.1.8	Transport costs, to and from Site.	Sum	R	R	R	R
G1.1.9	Provide written report and / or quotation on findings / work required.	Sum	R	R	R	R
G1.2	Major service of generator equipment consisting of:					
G1.2.1	Full minor service described in item G1.1 above.	Sum	R	R	R	R
G1.2.2	Full lube service including oil, oil filters and fuel filters.	Sum	R	R	R	R
G1.2.3	Replace air filter.	Sum	R	R	R	R
G1.2.4	Percentage mark-up (as provided under Bill A, Item A3.1) on the provisional sum shown for the nett cost of unscheduled items found to be defective / faulty and require replacement / repair, i.e. replacement seals, bearings, etc.	%	R	R	R	R
G2.0	**ELECTRIC MOTOR**					
G2.1	Minor service of electric squirrel cage induction motor equipment consisting of:					
G2.1.1	Disconnect and remove motor and conduct full visual inspection.	Sum	R	R	R	R
G2.1.2	Disassemble, strip and clean motor.	Sum	R	R	R	R

G2.1.3	Check continuity / insulation resistance of windings, movement and wear of shaft / bearings, vibration, excessive temperature, etc.	Sum	R	R	R	R
G2.1.4	Test for shorted laminations, loose / open bars, etc.	Sum	R	R	R	R
G2.1.5	Check fan blades for damage and cracks.	Sum	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
G2.1.6	Check air gap and ventilation passages.	Sum	R	R	R	R
G2.1.7	Clean, lubricate and re-assemble.	Sum	R	R	R	R
G2.1.8	Transport costs, to and from Site.	Sum	R	R	R	R
G2.1.9	Provide written report and / or quotation on findings / work required.	Sum	R	R	R	R
G2.1.10	Reinstall / reconnect motor in position following servicing / maintenance.	Sum	R	R	R	R
G2.2	Major service of electric squirrel cage induction motor equipment consisting of:					
G2.2.1	Full minor service described in item G2.1 above.	Sum	R	R	R	R
G2.2.2	Percentage mark-up (as provided under Bill A, Item A3.1) on the provisional sum shown for the nett cost of unscheduled items found to be defective / faulty and require replacement / repair, i.e. rewinding of coils, replacement bearing, etc.	%	R	R	R	R
G3.0	**STANDARD MAINTENANCE OF CENTRIFUGAL PUMP AND MOTOR**					
G3.1	**Rewind and install thermistors per kW (2-, 4- pole):**					

G3.1.1	0.37 kW	each		R		R
G3.1.2	0.55 kW	each		R		R
G3.1.3	0.75 kW	each		R		R
G3.1.4	1.1 kW	each		R		R
G3.1.5	1.5 kW	each		R		R
G3.1.6	2.2 kW	each		R		R
G3.1.7	3 kW	each		R		R
G3.1.8	4 kW	each		R		R
G3.1.9	5.5 kW	each		R		R
G3.1.10	7.5 kW	each		R		R
G3.1.11	11 kW	each		R		R
G3.1.12	15 kW	each		R		R
G3.1.13	17.5 kW	each		R		R
G3.1.14	22 kW	each		R		R
G3.1.15	30 kW	each		R		R
G3.1.16	37 kW	each		R		R
G3.1.17	45 kW	each		R		R
G3.1.18	55 kW	each		R		R
G3.1.19	75 kW	each		R		R
G3.1.20	90 kW	each		R		R
G3.1.21	110 kW	each		R		R
G3.1.22	160 kW	each		R		R
G3.1.23	175 kW	each		R		R
G3.1.24	200 kW	each		R		R
G3.1.25	220 kW	each		R		R
G3.2	**Supply and fit new bearings per motor (2-, 4- pole**					
G3.2.1	71	set		R		R
G3.2.2	80	set		R		R

G3.2.3	90	set		R		R
G3.2.4	112	set		R		R
G3.2.5	132	set		R		R
G3.2.6	160	set		R		R
G3.2.7	170	set		R		R
G3.2.8	200	set		R		R
G3.2.9	225	set		R		R
G3.2.10	250	set		R		R
G3.2.11	280	set		R		R
G3.2.12	315	set		R		R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE					**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE					**R**
G3.3.	Vibration of bearing test on pumps	each	R	R		R
G3.4	Vibration of bearing test on motor	each	R	R		R
G3.0	**SUBMERSIBLE PUMPS**					
G3.1	Minor service of submersible pumpset equipment consisting of:					
G3.1.1	Pull pump from installed position and conduct full visual inspection.	Sum	R	R	R	R
G3.1.2	Inspect impeller / volute for wear, rubbing, cavitation or blockages.	Sum	R	R	R	R
G3.1.3	Inspect level and quality of existing oil inside oil chamber / housing and drain and replace oil.	Sum	R	R	R	R

G3.1.4	Check and test condition of all electrical connections, submersible cables and insulation of stator windings, etc.	Sum	R	R	R	R
G3.1.5	Check and test correct shaft rotation, vibration, etc	Sum	R	R	R	R
G3.1.6	Test correct operation of all check valves, air valves, pressure gauges, etc	Sum	R	R	R	R
G3.1.7	Transport costs, to and from Site.	Sum	R	R	R	R
G3.1.8	Provide written report and / or quotation on findings / work required.	Sum	R	R	R	R
G3.1.9	Reinstall / reconnect pump in position following servicing / maintenance.	Sum	R	R	R	R
G3.1.10	Check and test correct operation of float switches, and untangle / clean as required.	Sum	R	R	R	R
G3.2	Major service of submersible pumpset equipment consisting of:		R	R	R	R
G3.2.1	Full minor service described in item G3.1 above.	Sum	R	R	R	R
G3.2.2	Percentage mark-up (as provided under Bill A, Item A3.1) on the provisional sum shown for the nett cost of unscheduled items found to be defective / faulty and require replacement / repair, i.e. supply and fit new impellor, mechanical seal, balancing, etc.	%	R	R	R	R
G4.0	**CENTIFUGAL PUMPS**					
G4.1	Minor service of centrifugal pump equipment consisting of:					
G4.1.1	Disconnect pump from installed position and conduct full visual inspection.	Sum	R	R	R	R
G4.1.2	Inspect impeller / volute for wear, rubbing, cavitation or blockages.	Sum	R	R	R	R

	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
G4.1.3	Inspect and lubricate bearings.	Sum	R	R	R	R
G4.1.4	Check and test correct shaft rotation, vibration, etc	Sum	R	R	R	R
G4.1.5	Transport costs, to and from Site.	Sum	R	R	R	R
G4.1.6	Provide written report and / or quotation on findings / work required.	Sum	R	R	R	R
G4.1.7	Reinstall / reconnect pump in position following servicing / maintenance.	Sum	R	R	R	R
G4.2	Major service of centrifugal equipment consisting of:		R	R	R	R
G4.2.1	Full minor service described in item G4.1 above.	Sum	R	R	R	R
G4.2.2	Percentage mark-up (as provided under Bill A, Item A3.1) on the provisional sum shown for the nett cost of unscheduled items found to be defective / faulty and require replacement / repair, i.e. supply and fit new impellor, mechanical seal, balancing, etc.	%	R	R	R	R
G5.0	**BOREHOLE PUMPS**					
G5.1	Minor service of submersible pumpset equipment consisting of:					
G5.1.1	Pull pump from installed position (up to ± 150m deep) and conduct full visual inspection.	Sum	R	R	R	R
G5.1.2	Inspect impeller / volute for wear, rubbing, cavitation or blockages.	Sum	R	R	R	R
G5.1.3	Inspect level and quality of existing oil inside oil chamber / housing and drain and replace oil.	Sum	R	R	R	R

G5.1.4	Check and test condition of all electrical connections, submersible cables and insulation of stator windings, etc.	Sum	R	R	R	R
G5.1.5	Check and test correct shaft rotation, vibration, etc	Sum	R	R	R	R
G5.1.6	Test correct operation of all check valves, air valves, pressure gauges, etc	Sum	R	R	R	R
G5.1.7	Transport costs, to and from Site.	Sum	R	R	R	R
G5.1.8	Provide written report and / or quotation on findings / work required.	Sum	R	R	R	R
G5.1.9	Reinstall / reconnect pump in position (up to ± 150m deep) following servicing / maintenance.	Sum	R	R	R	R
G5.2	Major service of submersible pumpset equipment consisting of:					
G5.2.1	Full minor service described in item G5.1 above.	Sum	R	R	R	R
G5.2.2	Percentage mark-up (as provided under Bill A, Item A3.1) on the provisional sum shown for the nett cost of unscheduled items found to be defective / faulty and require replacement / repair, i.e. supply and fit new impellor, mechanical seal, balancing, etc.	%	R	R	R	R
G6.0	**COMPRESSOR**					
G6.1	Minor service of compressor equipment consisting of:					
G6.1.1	Check torque on head screws and conduct full visual inspection.	Sum	R	R	R	R
G6.1.2	Clean and replace air filter if required.	Sum	R	R	R	R
G6.1.3	Drain and replace oil	Sum	R	R	R	R
G6.1.4	Check and tighten V-belts and pulleys.	Sum	R	R	R	R
G6.1.5	Drain moisture from pressure holding tank / vessel.	Sum	R	R	R	R
G6.1.6	Check correct operation of automatic discharge unit if fitted.	Sum	R	R	R	R

	-					
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	-					
G6.2	Major service of compressor equipment consisting of:					
G6.2.1	Full minor service described in item G6.1 above.	Sum	R	R	R	R
G6.2.2	Percentage mark-up (as provided under Bill A, Item A3.1) on the provisional sum shown for the nett cost of unscheduled items found to be defective / faulty and require replacement / repair, i.e. supply and fit new V-Belt, water separator, etc.	%	R	R	R	R
G7.0	**Unblock pipe blockages with Jetting equipment**					
G7.1	Jet of lines (high pressure, minimum 200kPA). Rate must include all safety equipment					
G7.2.1	160mm Ø to 900mm Ø	Sum		R		R
G7.2.2	160mm Ø to 9000mm Ø (after hours)	Sum		R		R
G7.4	Jet (high pressure, minimum 200kPA) and vacuum of lines. Rate must include all safety equipment					
G7.4.1	160mm Ø to 900mm Ø	Sum		R		R
G7.4.2	160mm Ø to 900mm Ø (after hours)	Sum		R		R
G7.5	Camera inspection (information to be submitted in suitable electronic format)	Sum		R		R
G7.6	Removal of all material from sewer blockages	Sum		R		R
G8.0	**Trace and uncover existing manholes**					

G8.1	To trace, open and uncover existing manholes (remove vegetation) and cleaning of rivers where sewer spillages occurs and injection of herbicides around manholes (sewer chemicals, herbicides will be supplied by Dr Beyers Naude Local Municipality)	hour		R		R
G8.2	Install manhole cover and frames (labour only)	each		R		R
G8.3	Unblock sewer blockages	each		R		R
G8.4	Cleaning of sewer lines	hour		R		R
G9.0	**Cleaning of Pumpstations (SUMPS) and treatment plants**					
G9.1	Cleaning of pump stations, catch pits and sand channels (rate must include all safety equipment)	Cubes		R		R
	Disposal of Waste material from pump stations, catch pits and sand channels					
G9.2	0 – 7000 litre	rate/km		R		R
	Disposal of Waste material from pump stations, catch pits and sand channels: After hours					
G9.3	0 – 7000 litre	rate/km		R		R
G10.0	**Cleaning of Septic Tanks and Conservancy Tanks**					
G10.1	Cleaning of septic tanks and conservancy tanks (rate must include all safety equipment)	Cubes		R		R
	Disposal of Waste material from septic tanks and conservancy tanks					
G10.2	0 – 7000 litre	rate/km		R		R
	Disposal of Waste material from septic tanks and conservancy tanks: After hours					
G10.3	0 – 7000 litre	Rate/km		R		R
G11.0	**Cleaning of Containers (Drums) at Pumpstations**					

G11.1	Cleaning of containers at pump stations	each		R		R
G11.2	Remove material and dispose at suitable site	Rate/km		R		R
G12.0	**Cutting of Grass**					
G12.1	All-inclusive rate for the mowing of grass and removing of surplus material at pump stations and applying herbicides around pump stations (herbicides will be supplied by Dr Beyers Naude Local Municipality)	per square		R		R
G13.0	**General Maintenance Work**					
G13.1	Repair and replace existing fences (labour only)	metre		R		R
G13.2	Installing of flat wrap (labour only)	metre		R		R
G13.3	**Remove and install poles at fences**					
G13.3.1	Pole 1.8m (labour only)	each		R		R
G13.3.2	Pole 2.2m (labour only)	each		R		R
G13.4	Tariff for travelling from Graaff-Reinet to and from destination of pump stations.	per km		R		R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE					R
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE					R
G7.0	**Miscellaneous Items**					
G7.1	Lump sum allowance for any items not included in this schedule necessary to complete the installation in accordance with the specification and drawing.	Sum	R	R	R	R

	Brief description of such items to be entered hereunder.					
	TOTAL SCHEDULE G TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**
	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

H.

ITEM NO.	DESCRIPTION	UNIT	MATERIAL	LABOUR

			RATE	TOTAL	RATE	TOTAL
	NOTES:					
(i)	All rates must be exclusive of VAT.					
(ii)	All rates to include for supply, delivery and installation thereof unless specified otherwise.					
(iii)	All quantities are provisional and are for comparative purposes only and do not describe the final extent of the work.					
	Duckfoot bend - DN200:	Each	R	R	R	R
	Guide rails (SS304), pair, to suite ND50 duckfoot bend, 6m long	Each	R	R	R	R
	Guide rails (SS304), pair, to suite ND65 duckfoot bend, 6m long	Each	R	R	R	R
	Guide rails (SS304), pair, to suite ND80 duckfoot bend, 6m long	Each	R	R	R	R
	Guide rails (SS304), pair, to suite ND100 duckfoot bend, 6m long	Each	R	R	R	R
	Guide rails (SS304), pair, to suit ND150 duckfoot bend, 6m long	Each	R	R	R	R
	Guide rails (SS304), pair, to suit ND200 duckfoot bend, 6m long	Each	R	R	R	R
	Guide rail top bracket to suite DN50 duckfoot	Each	R	R	R	R
	Guide rail top bracket to suite DN65 duckfoot	Each	R	R	R	R
	Guide rail top bracket to suite DN80 duckfoot	Each	R	R	R	R
	Guide rail top bracket to suite DN100 duckfoot	Each	R	R	R	R
	Guide rail top bracket to suite DN150 duckfoot	Each	R	R	R	R
	Guide rail top bracket to suite DN200 duckfoot	Each	R	R	R	R
	Lifting chain, SS316, 6mm	Each	R	R	R	R
	Lifting chain, SS316, 8mm	Each	R	R	R	R
	Lifting chain, SS316, 10mm	Each	R	R	R	R

	Supply & installation of Pipework, 304 SS, PN16:					
	DN50 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	DN80 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	DN100 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R

	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	DN150 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	DN200 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R

	DN250 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	DN300 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	DN350 Straight pipe, flanged both ends (flange to flange):					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**

	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	HDPE Fustion welded fittings c/w 304 backing rings T16 in50mm					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	HDPE Fustion welded fittings c/w 304 backing rings T16 in 80mm					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	HDPE Fustion welded fittings c/w 304 backing rings T16 in 100mm					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R

	3000mm	Each	R	R	R	R
	HDPE Fustion welded fittings c/w 304 backing rings T16 in 150mm					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	HDPE Fustion welded fittings c/w 304 backing rings T16 in 200mm					
	500mm	Each	R	R	R	R
	1000mm	Each	R	R	R	R
	1500mm	Each	R	R	R	R
	2000mm	Each	R	R	R	R
	2500mm	Each	R	R	R	R
	3000mm	Each	R	R	R	R
	90 deg. Long radius bends, flanged both ends 304 stainless steel					
	DN50	Each	R	R	R	R

	DN80	Each	R	R	R	R
	DN100	Each	R	R	R	R
	DN150	Each	R	R	R	R
	DN200	Each	R	R	R	R
	DN250	Each	R	R	R	R
	DN300	Each	R	R	R	R
	DN350	Each	R	R	R	R
	DN400	Each	R	R	R	R
	DN450	Each	R	R	R	R
	DN500	Each	R	R	R	R
	DN550	Each	R	R	R	R
	DN600	Each	R	R	R	R
	45deg. Long radius bends, flanged both ends 304 stainless steel					
	DN50	Each	R	R	R	R
	DN80	Each	R	R	R	R
	DN100	Each	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	DN150	Each	R	R	R	R
	DN200	Each	R	R	R	R
	DN250	Each	R	R	R	R
	DN300	Each	R	R	R	R
	DN350	Each	R	R	R	R

	DN400	Each	R	R	R	R
	DN450	Each	R	R	R	R
	DN500	Each	R	R	R	R
	DN550	Each	R	R	R	R
	DN600	Each	R	R	R	R
	Equal, swept 90 deg. Long radius Tee, flanged all ends					
	DN50	Each	R	R	R	R
	DN80	Each	R	R	R	R
	DN100	Each	R	R	R	R
	DN150	Each	R	R	R	R
	DN200	Each	R	R	R	R
	DN250	Each	R	R	R	R
	DN300	Each	R	R	R	R
	DN350	Each	R	R	R	R
	DN400	Each	R	R	R	R
	DN450	Each	R	R	R	R
	DN500	Each	R	R	R	R
	DN550	Each	R	R	R	R
	DN600	Each	R	R	R	R
	Unequal, swept 90 deg. Long radius Tee, flanged all ends (Main x Tee off)					
	DN80 x DN50	Each	R	R	R	R
	DN100 x DN80	Each	R	R	R	R
	DN150 x DN100	Each	R	R	R	R
	DN200 x DN150	Each	R	R	R	R
	DN250 x DN200	Each	R	R	R	R

	DN300 x DN250	Each	R	R	R	R
	SUBTOTAL FOR THIS PAGE CARRIED OVER TO NEXT PAGE			**R**		**R**
	SUBTOTOTAL CARRIED OVER FROM PREVIOUS PAGE			**R**		**R**
	DN350 x DN300	Each	R	R	R	R
	DN400 x DN350	Each	R	R	R	R
	DN450 x DN400	Each	R	R	R	R
	DN500 x DN450	Each	R	R	R	R
	DN550 x DN500	Each	R	R	R	R
	DN600 x DN550	Each	R	R	R	R
	Flanged double action air-release valve suitable for raw sewage, complete with 5m uPVC drainage pipework					
	DN25	Each	R	R	R	R
	DN50	Each	R	R	R	R
	DN80	Each	R	R	R	R
	DN100	Each	R	R	R	R
	DN150	Each	R	R	R	R
	DN200	Each	R	R	R	R
	Ancillary Equipment, supply & installation					
	Nuts, Bolts, ready bar & packings, complete set (number & size) per PN16 rated flange size A2 stainless					
	DN50	Each	R	R	R	R
	DN65	Each	R	R	R	R

	DN80	Each	R	R	R	R
	DN100	Each	R	R	R	R
	DN125	Each	R	R	R	R
	DN150	Each	R	R	R	R
	DN200	Each	R	R	R	R
	DN250	Each	R	R	R	R
	DN300	Each	R	R	R	R
	DN350	Each	R	R	R	R
	DN400	Each	R	R	R	R
	TOTAL SCHEDULE H TO BE CARRIED FORWARD TO PRICE SUMMARY			**R**		**R**
	Note on electronic spreadsheet pricing: It remains the contractor's responsibility to check that his prices multiply and add correct, and that all provisional sums are carried over correctly.					

SUMMARY OF BILL OF QUANTITIES

ITEM NO.	DESCRIPTION	AMOUNT (ZAR)
1	BILL A: PRELIMINARY AND GENERAL ITEMS	R
2	BILL B: GENERATOR INSTALLATION	R
3	BILL C: CONTROL PANEL EQUIPMENT	R
4	BILL D: ELECTRICAL INSTALLATION	R
5	BILL E: MISCELLANEOUS EQUIPMENT AND MATERIAL ITEMS	R
6	BILL F: PUMPS, MOTORS AND ACCESSORIES	R
7	BILL G: SERVICING OF PLANT AND EQUIPMENT	R
8	BILL H: WELDING	R
9	SUB TOTALS	
10	TOTAL MATERIAL AND LABOUR	R
14	NETT TENDER AMOUNT, EXCL. VAT	R
15	ADD 15 % VAT	R
16	GROSS TENDER AMOUNT, TO BE CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE IN PART C1.1 HEREOF	R

NB!!!1 Please note that the total rates combined does not constitute as the final quotation amount as it will solely be used for evaluation purposes.

Quotation will rate based subject to a maximum of R 300 000.00

Phone Number: _____

Date: _____

Signature _____

MBD 4: DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state∗.

2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest.

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

3.1 Full Name: ……

3.2 Identity Number: ……

3.3 Company Registration Number: ……

3.4 Tax Reference Number: ……

3.5 VAT Registration Number: ……

3.6 Are you presently in the service of the state∗ **YES / NO**

3.6.1 If so, furnish particulars.

……

∗ MSCM Regulations: "in the service of the state" means to be –

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

(b) a member of the board of directors of any municipal entity;
(c) an official of any municipality or municipal entity;
(d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
(e) a member of the accounting authority of any national or provincial public entity; or
(f) an employee of Parliament or a provincial legislature.

……

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

3.7.1 If so, furnish particulars.

……

……

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

3.8.1 If so, furnish particulars.

……

……

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

3.9.1 If so, furnish particulars

……

……

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

3.10.1 If so, furnish particulars.

……

……

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

3.11.1 If so, furnish particulars.

……

……

CERTIFICATION

I, THE UNDERSIGNED (NAME)
……

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

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

FALSE.

_____

Signature Date

…… ……

Position Name of Bidder

MBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

---

1. GENERAL CONDITIONS

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

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

1.2 To be completed by the organ of state

(*delete whichever is not applicable for this tender*).

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

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

c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

(a) Price; and

(b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	**100**

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner

required by the organ of state.

2. DEFINITIONS

(a) **"tender"** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;

(b) **"price"** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;

(c) **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

(d) **"tender for income-generating contracts"** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and

(e) **"the Act"** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. **POINTS AWARDED FOR PRICE**

3.1.1 **THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS**

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

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

$$Ps = 80\left(1 - \frac{Pt - P\,min}{P\,min}\right) \text{ or } \qquad Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

3.2.1. **POINTS AWARDED FOR PRICE**

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

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

$$Ps = 80\left(1 + \frac{Pt - P\,max}{P\,max}\right) \text{ or } \qquad Ps = 90\left(1 + \frac{Pt - P\,max}{Pmax}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

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

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

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

The specific goals allocated points in terms of this tender	**Number of points allocated (90/10 system) (To be completed by the organ of state)**	**Number of points allocated (80/20 system) (To be completed by the organ of state)**	**Number of points claimed (90/10 system) (To be completed by the tenderer)**	**Number of points claimed (80/20 system) (To be completed by the tenderer)**
B-BBEE Status Level Contributor (Please see below Table 2)		10		

The promotion of enterprises located in a specific province for work to be done or services to be rendered in that province		10		

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm…….

4.4. Company registration number: ……..

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

i) The information furnished is true and correct;

ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

(a) disqualify the person from the tendering process;

(b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;

(c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;

(d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution, if deemed necessary.

TABLE 2: B-BBEE Status Level Contribution

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

……

SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME: …….

DATE: ……

ADDRESS: ……

……

……

MBD8

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

1 This Municipal Bidding Document must form part of all bids invited.

2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.

3 The bid of any bidder may be rejected if that bidder, or any of its directors have:

a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;

b. been convicted for fraud or corruption during the past five years;

c. willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or

d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).

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

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's database as a company or person 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 National Treasury after the *audi alteram partem* rule was applied). **The Database of Restricted Suppliers now resides on the National Treasury's webiste (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.**	Yes ☐	No ☐
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 ☐	No ☐
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 of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
Item	**Question**	**Yes**	**No**
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.5.1	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

……

Position

……..…

Date

……...

Name of Bidder

MBD 9

CERTIFICATE OF INDEPENDENT BID DETERMINATION

1 This Municipal Bidding Document (MBD) must form part of all bids[1] invited.

2 Section 4(1)(b)(iii) of the Competition Act No. 89 of 1998, as amended, prohibits anagreement between, or concerted practice by, firms, or a decision by an association offirms, if it is between parties in a horizontal relationship and if it involves collusivebidding (or bid rigging).[2] Collusive bidding is a *pe se* prohibition meaning that it cannotbe justified under any grounds.

3 Municipal Supply Regulation 38(1) prescribes that a supply chain management policymust provide measures for the combating of abuse of the supply chain managementsystem, and must enable the accounting officer, among others, to:

a. take all reasonable steps to prevent such abuse;

b. reject the bid of any bidder if that bidder or any of its directors has abused thesupply chain management system of the municipality or municipal entity or hascommitted any improper conduct in relation to such system; and

c. cancel a contract awarded to a person if the person committed any corrupt orfraudulent act during the bidding process or the execution of the contract.

4 This MBD serves as a certificate of declaration that would be used by institutions toensure that, when bids are considered, reasonable steps are taken to prevent any formof bid-rigging.

5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD9) 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 orlower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bidrigging is, therefore, an agreement between competitors not to compete.**

I, the undersigned, in submitting the accompanying bid:

BEY-SCM-596

REPAIR AND MAINTENANCE OF PUMPS, GENERATORS, WATER/WASTEWATER PUMPSTATIONS AND FACILITIES

in response to the invitation for the bid made by:

DR BEYERS NAUDÉ LOCAL MUNICIPALITY

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

I certify, on behalfof:_____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 notto be true and complete in every respect;

3. I am authorized by the bidder to sign this Certificate, and to submit the accompanyingbid, on behalf of the bidder;

4. Each person whose signature appears on the accompanying bid has been authorized bythe 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 theword "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 ontheir qualifications, abilities or experience; and

(c) provides the same goods and services as the bidder and/or is in the sameline of business as the bidder.

6. The bidder has arrived at the accompanying bid independently from, and withoutconsultation, communication, agreement or arrangement with any competitor.

Howevercommunication between partners in a joint venture or consortium[3] will not be construedas collusive bidding.

7. In particular, without limiting the generality of paragraphs 6 above, there has been noconsultation, 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 orarrangements with any competitor regarding the quality, quantity, specifications andconditions or delivery particulars of the products or services to which this bid invitationrelates.

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

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

…….……	……
Signature	Date
…….	.....
Position	Name of Bidder

[3] Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skilland knowledge in an activity for the execution of a

CERTIFICATE FOR MUNICIPAL SERVICES

Information required in terms of the DR BEYERS NAUDE 's Supply Chain Management Policy, Clause 32 (2) (d).

Tender Number: BEY-SCM-596

Name of the Tenderer: _____

FURTHER DETAILS OF THE BIDDER/S: Proprietor / Director(s) / Partners, etc:

Physical Business address of the Bidder	Municipal Account Number(s)

If there is not enough space for all the names, please attach the additional details to the Tender document.

Name of Director / Member / Partner	Identity Number	Physical **residential** address of Director / Member / Partner	Municipal Account number(s)

I, _____, the undersigned,

(full name in block letters)

certify that the information furnished on this declaration form is correct and that I/we have no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment if overdue for more than 30 days.

_____

Signature

THUS DONE AND SIGNED for and on behalf of the Bidder / Contractor

at _____ on the _____ day of _____ 2025