

NORTH NSIKAZI WATER SUPPLY SCHEME: OPERATIONS AND MAINTENANCE

ITEM NO	DESCRIPTION	UNIT	TENDER QUANTITY	RATE	CLAIM THIS CERTIFICATE
PART 1 SECTION C3.4.2.0 (1100): CONTRACTOR'S ESTABLISHMENT ON SITE					
3.4.2.10.2.1	Fixed-charge items:				
	.1 Establishing of facilities (Hoxane WTW and Nyongane BPS)	month	36		
	.2 Communications facilities:				
	(a) Telephone	month	36		
	(b) Fax	month	36		
	(c) Radio communications	month	36		
	.3 Storage facilities	month	36		
	.4 Name boards	Number	1		
	.5 Removal of facilities on completion of the contract	Number	1		
	.6 Provision of				
3.4.2.10.2.2	Time-related charges:				
	.1 General	months	36		
	.2 Communications facilities:				
	(a) Telephone	month	36		
	(b) Fax	month	36		
	(c) Radio communications	month	36		
	(d) Computer	month	36		
	.3 Storage facilities	month	36		
	.4 Name boards	month	1		
	.5 Provision of supporting personnel				
	(a) Project Manager (B.Eng/BSc/Btech - Civil/Electrical/Mechanical Engineering)	month	36		
	(b) Technician (N.Diploma - Civil/Electrical/Mechanical Engineering)	month	36		
	(c) Administrative Clerks x 2	hrs	11520		
	(d) Payroll Officer	hrs	5760		
	(e) HR Personnel x 2	hrs	11520		
	(f) Stores Attendant x 2	hrs	11520		
	(g) OHS Officer x 1	month	36		
	.6 Provision of Security Personnel to WTW Plants and Pumping Stations				
	(a) Armed Grade C or better (night shift) x 8	month	36		
	(b) Unarmed Grade C or better (day shift) x 8	month	36		
PART 1 SECTION 1100: TOTAL CARRIED TO SUMMARY					R

ITEM NO	DESCRIPTION	UNIT	TENDER QUANTITY	RATE	CLAIM THIS CERTIFICATE
PART 1 SECTION 3.4.1.2.4 (1200): OPERATIONS PERSONNEL					
3.4.1.2.8.1.1	Provision of operators on Site: Hoxani WTW .1 Pump operator x 12 .2 Class II operator x 8 .3 Class III operator .4 Class IV operator x 4 .5 Class V operator x 1 .6 Samplers x 3	op-mth op-mth op-mth op-mth op-mth op-mth	69120 46080 0 23040 5760 17280		Rate Only
3.4.1.2.8.1.2	Provision of labourers on Site: .1 Permanent labourers (general workers at WTW & BPS) .2 Temporary labourers (per person) Provision of additional personnel on Site (Package Plants): .1 Class II operator (x 4 per plant) .2 Permanent labourers (x 9 combined for all plants) .3 Class V operator (x 1 combined for all plants)	hrs hrs hrs hrs hrs	23040 0 92160 51840 5760		Rate Only
3.4.1.2.8.1.3	Skills and Basic adult Education Training of personnel (accredited): .1 Training of personnel: (a) Skills Training for pump operators for pump operations (b) Skills Training for Process Controllers for water treatment processes (c) Skills Training for Samplers (water sampling procedures) (d) Skills Training for Artisan Plumbers (maintenance of pipes and valves) (e) Skills Training for Artisan Fitters/Turners etc for pumps maintenance .2 Contractor's mark-up (for item .1 above)	per annum per annum per annum per annum per annum %	3 3 3 3 3		
PART 1 SECTION 1200: TOTAL CARRIED TO SUMMARY					R

ITEM NO	DESCRIPTION	UNIT	TENDER QUANTITY	RATE	CLAIM THIS CERTIFICATE
PART 1 SECTION 3.4.1.3.3 (1300): ACCREDITED LABORATORY SERVICES					
3.4.1.3.3.2.1	Performance of and reporting on testing specified for as per Drinking Water Standards SANS241:2016:				
	.1 Hoxani Water Scheme	month	36		
	.2 Majika Water Package Plant	month	36		
	.3 Manzini Water Package Plant	month	36		
	.4 Mganduzweni Water Package Plant	month	36		
	.5 Mshadza Water Package Plant	month	36		
	Contractor's charges on outsourced services	%			
PART 1 SECTION 1300: TOTAL CARRIED TO SUMMARY					R

PART 1 SECTION C3.4.1.4(1400): MAINTENANCE SERVICES AT TREATMENT PLANTS AND PUMP STATIONS					
C3.4.1.4.3	Routine inspection and maintenance of facilities as per personnel provided in Section C3.4.2.0				
	.1 Nsikazi North Pump Stations:				
	.1 New Sabie Raw-water pump station	month	36		Rate Only
	.2 Hoxane Water Treatment Works	month	36		Rate Only
	.3 Clear water pump station (Hoxane)	month	36		Rate Only
	.4 Old Sabie Raw-water pump station	month	36		
	.5 Old Nyongane Chlorinated water pump station (booster)	month	36		
	.6 New Nyongane water pump station (booster)	month	36		
	.7 Swalala Pump Station	month	36		
	.8 Mganduzweni Pump Station	month	36		
	.9 Gorman Rupp T6 pump, motor & switchgear	month	36		
	.10 Tshabalala Pump Station	month	36		
	.11 Chweni Booster Pump Station	month	36		
	.12 Majika Raw Water Pump Station	month	36		
	.13 Manzini Clear Water Pump Station	month	36		
	.14 Mganduzweni Clear Water Pump Station	month	36		
	.15 Mshadza Water Pump Station	month	36		
C3.4.1.4.4&5	General and emergency repairs and maintenance as and when it occurs subject to Clients Approval:	month	36		Rate Only
	.1 Mark-up on Execution of specialized emergency repair work	%	0.00		Rate Only
	.2 Mark-up on Supply and delivery of emergency spares	%	0.00		Rate Only
	.3 Mark-up on Provision of Materials	%	0.00		Rate Only
PART 1 SECTION 1400: TOTAL CARRIED TO SUMMARY					R

ITEM NO	DESCRIPTION	UNIT	TENDER QUANTITY	RATE	CLAIM THIS CERTIFICATE
PART 1 SECTION C3.4.1.5.2 (1500): SUPPLY OF CHEMICALS					
C3.4.1.5.3.2	Supply, storage and delivery of chemicals:				
	.01 Supply, storage and delivery of chemicals:				
	(a) Chlorine granules	per 25kg	1584		
	(b) Chlorine (gas):				
	(i) Tonne Cylinders (925kg Cylinders)	ton	288		
	(ii) 78kg Cylinders	per 78kg			
	(c) Drinking water chlorine tablets (10kg x 10 per box)	per box	360		
	(d) Lime	per 25kg	2232		
	(e) Sodium Hypochloride	ton	108		Rate Only
	(f) Flocculant	ton	936		
	(g) Soda Ash	per 25kg	1584		Rate Only
	(h) DPD Tablets	per 10kg box	180		
15.02	Contractor's charges				
	.01 Chlorine (HTH)	%	0.00		Rate Only
	.02 Chlorine (gas):				
	(a) Tonne Cylinders (925kg Cylinders)	%	0.00		Rate Only
	.03 Drinking water chlorine tablets	%	0.00		Rate Only
	.04 Lime	%	0.00		Rate Only
	.05 Sodium Hypochloride	%	0.00		Rate Only
	.06 Focculant	%	0.00		Rate Only
PART 1 SECTION 1500: TOTAL CARRIED TO SUMMARY					R

NORTH NSIKAZI - CIVILS

ITEM NO	DESCRIPTION	UNIT	TENDER QUANTITY	RATE	CLAIM THIS CERTIFICATE
PART 2 SECTION 3.1.1.6.8.1 (1600): OPERATION AND MAINTENANCE OF REGIONAL WATER SUPPLY SCHEMES					
3.4.1.6.8.1.1	Routine inspection and maintenance	month	36		
3.4.1.6.8.1.2	Routine and Emergency Repair Work:				
	.01 Labour:				
	(a) Skilled - Normal				
	(i) Artisan Plumbers x 4	hrs	23,040.0		
	(II) Artisan Electricians x 2	hrs	11,520.0		
	(III) Artisan Fitter and Turner or similar x 2	hrs	11,520.0		
	(b) Skilled - After hours	hrs	11,520.0		Rate Only
	(c) Semi-skilled - Normal	hrs	46,080.0		
	(d) Semi-skilled - After hours	hrs	11,520.0		Rate Only
	(e) Unskilled - Normal	hrs	63,360.0		
	(f) Unskilled - After hours	hrs	11,520.0		Rate Only
	.02 Plant:				
	(a) LDV 4x4 = 5 (minimum)	month	36.0		
	(b) TLB 4 x 4	month	36.0		
	(c) Fatbed up to 12 Tonne	month	36.0		
	(d) 6 cubic meter truck	month	36.0		Rate Only
	(e) Waterpump submersible with generator	month	36.0		
	(f) Compressor	month	36.0		Rate Only
	(g) Generator	month	36.0		
	(h) Welding machine (industrial)	month	36.0		
	.03 Purchase of material:				
	(a) Contractor's Mark-up on material purchased	%	0.0		Rate Only
	.04 Provision of Security (to patrol pipelines with maintenance teams)				
	(a) Patrolling Security				
	(i) Armed (12 hour shift)	per shift	1,095.0		
	(ii) Unarmed (12 hour shift)	per shift	1,095.0		
	General and emergency repairs and maintenance as and when it occurs subject to Clients Approval:				
	.01 Miscellaneous maintenance and repair work	month	36		Rate Only
	.02 Contractor's mark-up and profit	%	Rate Only		
PART 2 SECTION 1600: TOTAL CARRIED TO SUMMARY					R