

Price list : Maintenance of Cooling Towers

Include rates ONLY where highlighted in yellow.
Include COMMENTS to support the rate proposed.

1. SECTION A: PRELIMINARIES AND GENERAL - FIXED

Item	Description	Unit	Activities/ Months	QTY/36 MONTHS	Total QTY	Rate	Amount	Comments
1.1	Containers (6m Site Office (Standard) (x2)	Monthly	2	48	96		-	
1.2	6m Ablution facility	Monthly	1	48	48		-	
1.3	Site Bakkie	Sum	1	48	48		-	
1.4	Transport for Site establishment	Sum	1	1	1		-	
1.5	Site-De-establishment	Sum	1	1	1		-	
1.6	Stuff transport	Monthly	1	48	48		-	
1.7	Accommodation	Monthly	1	48	48		-	
1.8	Medicals for staff (In and Out)	No	25	4	100		-	
1.9	PPE for staff (2x per year)	No	25	4	100		-	
1.10	Site Storage	Monthly	1	48	48		-	
Subtotal - A							-	

2. SECTION B: TIME RELATED

Item	Description	Unit	Qty	Rate	Amount	Comments
2.1	Site Manager	Hrs	1050		-	
2.2	Safety Officer	Hrs	1050		-	
2.3	Responsible Person (PR)	Hrs	1050		-	
2.4	Authorised Supervisor	Hrs	1050		-	
2.5	Planner	Hrs	35		-	
Subtotal - B					-	

3. SECTION C: SPARES (SUPPLY ONLY)

Item	Description	Material	Unit	Qty	Rate	Amount	Comments
3.1	6" PVC Pipe (Class 9)	771276	Per 6m	10		-	
3.2	8" PVC Pipe	771277	Per 6m	20		-	
3.3	10" PVC Pipe	771147	Per 6m	10		-	
3.4	12" PVC Pipe	771146	Per 6m	8		-	
3.5	6" Couplings	248376	Each	40		-	
3.6	8" Couplings	625034	Each	70		-	
3.7	10" Couplings	625377	Each	40		-	
3.8	12" Couplings	629165	Each	15		-	
3.9	Sprayers	39875	Each	7100		-	
3.10	End Caps (SS304)	704765	Each	150		-	
3.11	Carbon Steel pipe 150mm (6 Inch)		Each	24		-	
3.12	Carbon Steel pipe 200mm (8 Inch)		Each	24		-	
3.13	Carbon Steel pipe 250mm (10 Inch)		Each	24		-	
3.14	Carbon Steel pipe 300mm (12 Inch)		Each	24		-	
3.15	Carbon Steel pipe 350mm (15 Inch)		Each	24		-	
3.16	Carbon Steel pipe 380mm (15 Inch)		Each	24		-	
3.17	Carbon Steel pipe 450mm (18 Inch)		Each	24		-	
3.18	Carbon Steel pipe 500mm (21 Inch)		Each	24		-	
3.19	Carbon Steel pipe 600mm (24 Inch)		Each	24		-	
3.20	Carbon Steel pipe 900mm (36 Inch)		Each	24		-	
Subtotal - C						-	

4. SECTION D: CLEANING & MAINTENANCE

Item	Description	Unit	Qty	Rate	Amount	Number of Towers	Total	Comments
4.1	Off-line removal of mud from all distribution channels using shovels & buckets. Wash all distribution channels clean (400 bar)	m3	30		R0.00	6	-	
4.2	On site removal of mud/sludge to area to designated area	m3	1		R0.00	6	-	
4.3	Handling and disposal of Asbestos material. Remove asbestos to an authorised dumping site. Safe disposal certificates to be handed to contract manager.	m3	1		R0.00	6	-	
4.4	Off-line cleaning of the distribution pipe ork, high pressure water jet clean scaled up pipes. Price to include different cleaning nozzle sizes and pressures to be used on asbestos and PVC pipes (400 bar)	Per tower	1		R0.00	6	-	
4.5	Off-line cleaning of all drift eliminators with high pressure water (~10 bar)	m2	50		R0.00	6	-	
4.6	On-line cleaning of all drift eliminators with high pressure water (~10 bar)	m2	50		R0.00	6	-	
4.7	Off-line supply and replacement of defective or missing drift eliminators with new PVC eliminators and 304 stainless steel support on an as and when required basis. (All sizes & spacing to be the same as the original design)	m2	50		R0.00	6	-	
4.8	Off-line replacement of all defective grommets with new saddle type HDPE grommets with stainless steel strapping on an as and when required basis. (Design to be approved by Eskom Engineering)	Per tower	100		R0.00	6	-	
4.9	Off-line replacement of new cooling tower polymer nozzles as per Eskom design requirement	Per tower	5000		R0.00	6	-	
4.10	Off-line stripping of damaged fill areas and repair damaged fill areas with new fill packs on an as and when required basis. Fill blocks of either HTP25, TC40V or VC25 are allowed. Data sheet of fill product to be supplied before installation. Supply and install 304 stainless steel or GRP fill support brackets and beams to support newly installed fill.	m2	50		R0.00	6	-	
4.11	Off-line replacement of end cap valves, 304 stainless steel fully open rubber insert, 304 SS latch, SS bolt attached and SS washer and nut set. Sizes could vary between 6" to 12".	Per tower	150		R0.00	6	-	
4.12	Off-line drain, wash and cleaning of cooling tower pond. The contractor supplies his own pumps for draining the cooling tower pond to provide access to the screens, removal of fill & pond cleaning. The water from the pond must be pumped to the nearest adjacent cooling tower pond. It is the responsibility of the contractor to dispose of all material containing asbestos to an approved asbestos disposal site, and all paperwork to be handed in to Eskom's hazardous waste controller (on-site and off-site dumping)	Per tower	1		R0.00	6	-	
4.13	Off-line GRP beam supply and install as required for DE installation.	Per tower	1		R0.00	6	-	
4.14	Off-line stainless steel clamp installation of broken pipe.	Per tower	100		R0.00	6	-	
4.15	On-line stainless-steel clamp installation of broken pipe.	Per tower	100		R0.00	6	-	
Subtotal - D							-	

5. SECTION E: STEEL WORK

Item	Description	Unit	Qty	Rate	Amount	Comments
5.1	Stainless steel rectangular hollow sections measuring 2800 mm (length) × 175 mm (width) × 80 mm (height), with a wall thickness of 4 mm, supplied and installed as required. The total quantity comprises 15 units per tower, resulting in an overall quantity of 45 units.	Ton	1.99		-	
Subtotal - E					-	

6. SECTION F: WALKWAYS

Item	Description	Unit	Qty	Rate	Amount	Number of Towers	Total	Comments
6.1	Materials	Sum	1		R0.00	6	-	
6.2	Transport	Sum	1		R0.00	6	-	
6.3	Artisan X2	Hrs	255		R0.00	6	-	
6.4	Artisan Assistant X2	Hrs	255		R0.00	6	-	

6.5	Labour assistant X2	Hrs	255		R0.00	6	-	
Subtotal - F							-	

7. SECTION G: PUMPS

Item	Description	Unit	Qty	Rate	Amount	Number of Towers	Total	Comments
7.1	Rental of supply pump(s) per day (~1000 L/min)	Per tower	1		-	6	-	
7.2	Rental of large drainage/submersible pump(s) per day (~100 L/s)	Per tower	1		-	6	-	
7.3	Rental generator to supply power to pumps per day	Per tower	1		-	6	-	
7.4	Rental on High Pressure water jet per day (min 400 bar)	Per tower	1		-	6	-	
7.5	Rental of 30 L/s sludge pump per day	Per tower	1		-	6	-	
Subtotal - G							-	

8. SECTION H: PLANT & EQUIPMENT

Item	Description	Unit	Qty	Rate	Amount	Comments
8.1	HP Pump rental	Day	30		-	
8.2	Drainage pump	Day	30		-	
8.3	Generator	Day	30		-	
8.4	Sludge pump	Day	30		-	
Subtotal - H					-	

SUMMARY

DESCRIPTION	AMOUNT
1. SECTION A: PRELIMINARIES AND GENERAL - FIXED	-
2. SECTION B: TIME RELATED	-
3. SECTION C: SPARES (SUPPLY ONLY)	-
4. SECTION D: CLEANING & MAINTENANCE	-
5. SECTION E: STEEL WORK	-
6. SECTION F: WALKWAYS	-
7. SECTION G: PUMPS	-
8. SECTION H: PLANT & EQUIPMENT	-
TOTAL Excl. VAT	-