

**Schedule of Rates 046-05/06 City of Joondalup Administration Centre Chiller Replacement**

<b>Direct Engineering Services Pty Ltd</b> <b>PO Box 3085</b> <b>MALAGA WA 6945</b> <b>ABN: 50 008 700 178</b>		<b>Bruce Wansbrough</b> <b>Ph: (08) 9249 0888</b> <b>Fax: (08) 9249 0877</b> <b>bruce.wansbrough@desair.com.au</b>		
<b>No.</b>	<b>Description</b>	<b>Total Exclusive of GST</b>	<b>GST</b>	<b>Total Inclusive of GST</b>
<b>a) Replacement of Chiller 1</b>				
1	Demolition and Removal of Existing Plant and Equipment:	\$5,200.00	\$520.00	\$5,720.00
2	Supply and Install One New Screw Chiller:	\$63,800.00	\$6,380.00	\$70,180.00
3	Chilled and Condenser Water Pipe Work Modifications:	\$19,200.00	\$1,920.00	\$21,120.00
4	Water Treatment:	\$350.00	\$35.00	\$385.00
5	Chilled and Condenser Water Pump Refurbishment:	\$4,800.00	\$480.00	\$5,280.00
6	Building Management System (BMS) Modifications:	\$7,350.00	\$735.00	\$8,085.00
7	Builders Work and Painting:	\$1,200.00	\$120.00	\$1,320.00
8	System Testing and Commissioning:	\$1,200.00	\$120.00	\$1,320.00
9	12 Months Defect Liability & 12 Monthly Maintenance Visits:	\$2,000.00	\$200.00	\$2,200.00
10	Operating and Maintenance Manuals & "As Constructed" Documents:	\$1,800.00	\$180.00	\$1,980.00
11	Miscellaneous:	\$26,300.00	\$2,630.00	\$28,930.00
<b>b) Refurbishment of Chiller 2</b>				
1	3 of Compressor Oil Sampling:	\$400.00	\$40.00	\$440.00
2	Eddy Current Analysis of the Evaporator and Condenser Sections:	\$5,900.00	\$590.00	\$6,490.00
3	Chiller Overhaul:	\$19,200.00	\$1,920.00	\$21,120.00
4	Electronic Expansion Valves:	\$7,600.00	\$760.00	\$8,360.00
5	Chilled and Condenser Water Pipe Work Modifications:	Nil	Nil	Nil
6	Water Treatment:	\$200.00	\$20.00	\$220.00
7	Chilled and Condenser Water Pump Refurbishment:	\$1,400.00	\$140.00	\$1,540.00
8	Building Management System (BMS) Modifications:	\$2,300.00	\$230.00	\$2,530.00
9	Builders Work and Painting:	\$200.00	\$20.00	\$220.00
10	System Testing and Commissioning:	\$1,600.00	\$160.00	\$1,760.00
11	12 Months Defect Liability & 12 Monthly Maintenance Visits:	\$3,500.00	\$350.00	\$3,850.00
12	As Constructed Documentation:	Nil	Nil	Nil
13	Miscellaneous:	Nil	Nil	Nil
<b>c) Replacement of the Mechanical Services Switch Board</b>				
1	Refurbishment of Existing MSSB:	\$37,700.00	\$3,770.00	\$41,470.00
2	Builders Work and Painting:	Nil	Nil	Nil
3	System Testing and Commissioning:	Inclusive	Inclusive	Inclusive
4	12 Months Defect Liability & 12 of Monthly Maintenance Visits:	Inclusive	Inclusive	Inclusive
5	As Constructed Documentation:	\$2,500.00	\$250.00	\$2,750.00
6	Miscellaneous:	Nil	Nil	Nil

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No.	Description	Total Exclusive of GST	GST	Total Inclusive of GST
<b>d) Upgrade of Cooling Towers</b>				
1	Condenser Water Pipe Work Modifications:	\$3,000.00	\$300.00	\$3,300.00
2	Water Treatment:	\$350.00	\$35.00	\$385.00
3	Supply and Install VSD to Both Cooling Tower Fan Motors:	\$6,250.00	\$625.00	\$6,875.00
4	Supply and Install a Balance Pipe Between Cooling Towers:	\$8,350.00	\$835.00	\$9,185.00
5	Building Management System (BMS) Modifications:	\$2,300.00	\$230.00	\$2,530.00
6	Builders Work and Painting:	\$300.00	\$30.00	\$330.00
7	System Testing and Commissioning:	\$300.00	\$30.00	\$330.00
8	12 Months Defect Liability & 12 Off Monthly Maintenance Visits:	\$700.00	\$70.00	\$770.00
9	As Constructed Documentation:	\$500.00	\$50.00	\$550.00
10	Miscellaneous:	Nil	Nil	Nil
<b>e) Removal of Plant room Air Compressor</b>				
1	Demolition and removal of Air Compressor:	\$3,000.00	\$300.00	\$3,300.00
2	Demolition and removal of associated equipment:	\$1,250.00	\$125.00	\$1,375.00
3	Builders Work and Painting:	\$200.00	\$20.00	\$220.00
4	Miscellaneous:	Nil	Nil	Nil
<b>Total Tendered Contract Price:</b>		<b>\$242,200.00</b>	<b>\$24,220.00</b>	<b>\$266,420.00</b>
<b>OTHER COSTS</b>				
1	Equipment & Materials· Mark Up to be Applied on Cost to Purchase Materials and Equipment:	15%	1.5%	16.5%
2	Specialist Sub-Sub-Contractors· Mark Up to be Applied on Sub-Sub-Contracts (eg Thermal Insulation Controls, Painting):	15%	1.5%	16.5%
3	Overheads & Profits· Overheads and profit on total Contract value:	15%	1.5%	16.5%
<b>SCHEDULE OF SUB-CONTRACTORS</b>				
1	Pipework	Morrey Mechanical / UPG / LTSC		
2	Insulation	Applied / Modern / Westlag		
3	Electrical	NRP / Thorn Electrical / Mizco		
4	BMS	Siemens		
5	Water Treatment	TBA		
6	Painting	DESAIR / LTSC		
7	Builders Work	DESAIR / L & M Contracting / LTSC		