City of Winnipeg Water Treatment Program Construction of Standby Generator Building Bid Opportunity No. 498-2006-Addendum 4

Bid Opportunity No. 498-2006-Addendum 4				INSTRUMENT INDEX							October 2006						
RECORD R	REV.	TAG	DESCRIPTION				POWER	CALIBRATED	MOUNTING	SUPPLIED	INSTALLED		SPEC.	P&ID	INSTRUMENT	INSTALLATION	LOCATION
NO.	No.	NAME	INSTRUMENT TYPE	SERVICE	MANUFACTURER	MODEL	SUPPLY	RANGE	MOUNTING	BY	BY	COMMENTS	DATA SHEET	DRAWING	LOOP DIA.	DETAIL	DWG.
1	0	LE-T101A	Level Element	Clearwell Cell No.1 Level						Contractor	Contractor		1120	WT-P001	WB-A0455	WB-A0401	<u> </u>
2	0	LT-T101A	Level Indicator Transmiiter	Clearwell Cell No.1 Level			120v			Contractor	Contractor		1120	WT-P001	WB-A0455	WB-A0402	1
3	0	LE-T101B	Level Element	Clearwell Cell No.1 Level						Contractor	Contractor		1120	WT-P001	WB-A0455	WB-A0401	
4	0	LT-T101B	Level Indicator Transmiiter	Clearwell Cell No.1 Level			120V			Contractor	Contractor		I120	WT-P001	WB-A0455	WB-A0402	
5	0	FI-T102A	Sample Flow Indicator	Clearwell Chloramination Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-10301	WT-10001
6	0	AE-T102A	Analyzer Element	Clearwell Total Chlorine, Total Ammonia, Free Ammonia and Monochloramine						Contractor	Contractor		1180	WT-P001		WT-10301	WT-10001
7	0	AT-T102A	Analyzer/Transmitter	Clearwell Total Chlorine, Total Ammonia, Free Ammonia and Monochloramine			120V	Total Chlorine 0-5mg/L, Free Ammonia 0-2mg/L, Monochloramine 0-5mg/L		Contractor	Contractor		1180	WT-P001	WB-A0465	WT-10301	WT-10001
8	0	FI-T103A	Sample Flow Indicator	Clearwell Free Chlorine Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-10301	WT-10001
9	0	AE-T103A	Analyzer Element	Clearwell Free Chlorine						Contractor	Contractor		1170	WT-P001		WT-I0301	WT-10001
10	0		Free Chlorine Analyzer/Transmitter	Clearwell Free Chlorine			120V	0-5mg/L		Contractor	Contractor		1170	WT-P001	WB-A0465	WT-10301	WT-10001
11	0	FI-T104A	Sample Flow Indicator	Clearwell pH Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-I0301	WT-10001
12	0	AE-T104A	Analyzer Element	Clearwell pH						Contractor	Contractor		1165	WT-P001		WT-I0301	WT-I0001
13	0	AT-T104A	pH Analyzer/Transmitter	Clearwell pH			120V	5.5-9pH		Contractor	Contractor		I165	WT-P001	WB-A0465	WT-I0301	WT-I0001
14	0	FI-T105A	Sample Flow Indicator	Clearwell Turbidity Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-10301	WT-10001
15	0	AE-T105A	Analyzer Element	Clearwell Turbidity						Contractor	Contractor		1162	WT-P001		WT-I0301	WT-I0001
16	0	AT-T105A	Turbidity Analyzer/Transmitter	Clearwell Turbidity			120V	0-1 NTU		Contractor	Contractor		1162	WT-P001	WB-A0459	WT-I0301	WT-I0001
17	0	LE-T201A	Level Element	Clearwell Cell No.2 Level						Contractor	Contractor		I120	WT-P001	WB-A0455	WB-A0401	
18	0	LT-T201A	Level Indicator Transmiiter	Clearwell Cell No.2 Level			120V			Contractor	Contractor		1120	WT-P001	WB-A0455	WB-A0402	
19	0	LE-T201B	Level Element	Clearwell Cell No.2 Level						Contractor	Contractor		1120	WT-P001	WB-A0455	WB-A0401	
20	0	LT-T201B	Level Indicator Transmiiter	Clearwell Cell No.2 Level			120V			Contractor	Contractor		1120	WT-P001	WB-A0455	WB-A0402	
21	0	FI-T202A	Sample Flow Indicator	Clearwell Chloramination Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-10301	WT-I0001
22	0	AE-T202A	Analyzer Element	Clearwell Total Chlorine, Total Ammonia, Free Ammonia and Monochloramine						Contractor	Contractor		1180	WT-P001		WT-10301	WT-10001
23	0	AT-T202A	Analyzer/Transmitter	Clearwell Total Chlorine, Total Ammonia, Free Ammonia and Monochloramine			120V	Total Chlorine 0-5mg/L, Free Ammonia 0-2mg/L, Monochloramine 0-5mg/L		Contractor	Contractor		1180	WT-P001	WB-A0465	WT-10301	WT-10001
24	0	FI-T203A	Sample Flow Indicator	Clearwell Free Chlorine Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-10301	WT-10001
25	0	AE-T203A	Analyzer Element	Clearwell Free Chlorine						Contractor	Contractor		1170	WT-P001		WT-I0301	WT-I0001
26	0		Free Chlorine Analyzer/Transmitter	Clearwell Free Chlorine			120V	0-5mg/L		Contractor	Contractor		1170	WT-P001	WB-A0465	WT-10301	WT-10001
27	0	FI-T204A	Sample Flow Indicator	Clearwell pH Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-10301	WT-I0001
28	0	AE-T204A	Analyzer Element	Clearwell pH						Contractor	Contractor		1165	WT-P001		WT-I0301	WT-I0001
29	0	AT-T204A	pH Analyzer/Transmitter	Clearwell pH			120V	5.5-9pH		Contractor	Contractor		I165	WT-P001	WB-A0465	WT-I0301	WT-I0001
30	0	FI-T205A	Sample Flow Indicator	Clearwell Turbidity Analyzer Sample Flow				To suit required instrument sample flow rate		Contractor	Contractor	Rotameter Complete With Low Flow Switch		WP-P0001		WT-I0301	WT-10001
31	0	AE-T205A	Analyzer Element	Clearwell Turbidity						Contractor	Contractor		1162	WT-P001		WT-10301	WT-10001
32	0	AT-T205A	Turbidity Analyzer/Transmitter	Clearwell Turbidity			120V	0-1 NTU		Contractor	Contractor		1162	WT-P001	WB-A0459	WT-I0301	WT-10001
33																	
34																	
35	0	LS-H920A	Level Switch	Generator Building Sump Pit High Level Switch			120V		Bracket	Contractor	Contractor		I125	WG-P0001	WB-A0463	WB-A0406	1

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	REV.	TAG	DESCRIPTION		MANUFACTURER	MODEL	POWER	CALIBRATED	MOUNTING	SUPPLIED	INSTALLED	COMMENTS	SPEC.	P&ID	INSTRUMENT	INSTALLATION	LOCATION	
	No.	NAME	INSTRUMENT TYPE	SERVICE	MANOT HOTOHER	WODEL	SUPPLY	RANGE	MOONTING	BY	BY	COMIMENTS	DATA SHEET	DRAWING	LOOP DIA.	DETAIL	DWG.	
36	1	LE-E901A	Level Element	Generator GN-E901A Day Tank Leak Detection						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
37	1	LS-E901B	Level Switch	Generator GN-E901A Day Tank Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
38	1	LS-E901D	Level Switch	Generator GN-E901A Day Tank Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
39	1	SOL-E901A	Solenoid Valve	Generator GN-E901A Day Tank Fill Valve						Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
40	1	LE-E902A	Level Element	Generator GN-E902A Day Tank Leak Detection						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
41	1	LS-E902B	Level Switch	Generator GN-E902A Day Tank Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
42	1	LS-E902D	Level Switch	Generator GN-E902A Day Tank Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
43	1	SOL-E902A	Solenoid Valve	Generator GN-E902A Day Tank Fill Valve						Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
44	1	LE-E903A	Level Element	Generator GN-E903A Day Tank Leak Detection						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
45	1	LS-E903B	Level Switch	Generator GN-E903A Day Tank Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
46	1	LS-E903D	Level Switch	Generator GN-E903A Day Tank Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
47	1	SOL-E903A	Solenoid Valve	Generator GN-E903A Day Tank Fill Valve						Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
48	1	LT-H901A	Level Transmitter	Bulk Fuel Storage Tank TNK-H901A Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
49	1	LE-H901A	Level Element	Bulk Fuel Storage Tank TNK-H901A Leak Detection						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
50	1	LT-H902A	Level Transmitter	Bulk Fuel Storage Tank TNK-H902A Level						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
51	1	LE-H902A	Level Element	Bulk Fuel Storage Tank TNK-H902A Leak Detection						Supply Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
52	1	LE-H904A	Level Element	Fuel Transfer System Leak Detection						Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
53	1	LE-H905A	Level Element	Fuel Transfer System Leak Detection						Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
	1	LE-H906A	Level Element	Fuel Transfer System Leak Detection						Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
	1	LE-H907A	Level Element	Fuel Transfer System Leak Detection						Contractor	Contractor	Wired to Fuel System Control Panel LCP-H908A		WG-P0002			WG-H0110	
0890	1		Level Switch	Valve FV-T301A Chamber Flood			120V		Bracket	Contractor	Contractor		1126	WD-P0002	WB-A0458	WB-A0406		
0891	1	LS-T302A	Level Switch	Valve FV-T302A Chamber Flood			120V		Bracket	Contractor	Contractor		l126	WD-P0002	WB-A0458	WB-A0406	\square	
0892	1	LS-XXXX	Level Switch	Cell 1 Raw Water Valve Chamber Air Gap Flooded			120V		Bracket	Contractor	Contractor	Switch to be mounted over plastic container. Container Connected to valve air gap with suitable pipework and valves	1126		WB-A0458	WG-P0003		
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