

**FORM I (R1): DETAILED PRICES**  
 (See D13)

**MARION AND ASSINIBOINE FLOOD PUMPING STATION VENTILATION AND ELECTRICAL UPGRADES**

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
<b>Assiniboine</b>						
1.	Supply and install a new Customer Service Termination Enclosure to provide service power to the FPS and the existing City lighting loads.					
2.	Supply and install a new outdoor medium voltage disconnect switch to allow isolation of the service entrance padmount transformer. Provide a reinforced concrete base. Disconnect existing cable from transformer and re-connect to new disconnect switch. Supply and install new cable and terminate on new disconnect switch and existing transformer. Coordinate with Manitoba Hydro on medium voltage work.					
3.	Supply and install a new CDP to replace the existing pump breaker and distribute other loads.					
4.	Supply and install a new Benshaw stand-alone RVS.					
5.	Supply and install portable generator connection point.					
6.	Supply and install the station RTU.					
7.	Replace all existing incandescent lighting with new T8 fluorescent light fixtures and replace all receptacles.					
8.	Supply and install new supply fan and ducting and reroute any conduits as necessary.					
9.	Supply and install new exhaust louvres.					
10.	Supply and install new exhaust vent out of the dry well.					
11.	Supply and install emergency lighting with battery pack.					

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ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
12.	Supply and install new unit heaters.					
13.	Supply and install new welding receptacle.					
14.	Supply and install all required cabling, cable tray and miscellaneous electrical components for a complete and operable system as outlined.					
15.	Provide all required demolition and disposal of existing equipment. Turn over any salvageable electrical equipment to the City.					
16.	Provide formal commissioning of the new systems with the City and the Contract Administrator.					
17.	Provide operator training of the systems installed at the new sites.					
18.	Provide Operation and Maintenance manuals for all new equipment.					
19.	Provide AutoCAD based As-Built drawings of all Modifications to the issued for construction drawings					
20.	Mobilization / Demobilization from the site and overhead including all meetings and associated requirements.					
<b>Marion</b>						
21.	Supply and install a new MCC to replace the existing pump breaker and distribute other loads.					
22.	Replace existing pump reduced voltage starters with new Benshaw units inside new MCC .					
23.	Supply and install portable generator junction box					
24.	Supply and install the station RTU.					
25.	Replace all receptacles.					
26.	Supply and install new supply fan and ducting and reroute any conduits as necessary.					

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ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
27.	Supply and install new exhaust louvres.					
28.	Supply and install emergency lighting with battery pack.					
29.	Supply and install new unit heaters.					
30.	Close any existing vents in exterior wall.					
31.	Build wall to separate electrical equipment from motors.					
32.	Supply and install new welding receptacle.					
33.	Supply and install all required cabling, cable tray and miscellaneous electrical components for a complete and operable system as outlined.					
34.	Provide all required demolition and disposal of existing equipment. Turn over any salvageable electrical equipment to the City.					
35.	Provide formal commissioning of the new systems with the City and the Contract Administrator.					
36.	Provide operator training of the systems installed at the new sites.					
37.	Provide Operation and Maintenance manuals for all new equipment.					
38.	Provide AutoCAD based As-Built drawings of all Modifications to the issued for construction drawings					
39.	Mobilization / Demobilization from the site and overhead including all meetings and associated requirements.					