

Item No	Description	Unit	Qty
1.0	TASK 1: Common Services PLC Upgrade		
1.1	BMXCPS3500 High Power AC Power Supply	No	1
1.2	BMEP582020 M580 Processor Level 4	No	1
1.3	BMXNOC0401 Ethernet/IP & Modbus Module	No	1
1.4	BMXDDI1602 Digital Input Module	No	1
1.5	BMXDRA0815 Digital Output Module	No	1
1.6	BMXAMIO810 Analog Input Module	No	1
1.7	BMXFTB2000 Terminal Strip	No	1
1.8	BMXFTB2800 Terminal Strip	No	1
1.9	Wiring materials and accessories	Lot	1
1.10	Installation, wiring and instrument works	Lot	1
1.11	Configure and program HMI/SCADA	Lot	5
1.12	As-built drawings	Lot	1
1.13	Safety file	Lot	1
1.14	Travel and subsistence	Lot	1
1.15	Commissioning and handover	Lot	1
2.0	TASK 2: Pumpset 1 VSD Upgrade		
2.1	Decommission existing ATV71 VSD	Lot	1
2.2	Install/Wire ATV680 and Ethernet cabling	Lot	1
2.3	CSPLC configuration and programming	Lot	1
2.4	HMI/SCADA configuration and programming	Lot	1
2.5	Magelis HMI configuration and programming	Lot	1
2.6	As-built drawings	Lot	1
2.7	Travel and subsistence	Lot	1
2.8	Commissioning and handover PS1	Lot	1
3.0	TASK 3: Pumpset 2 VSD Upgrade		
3.1	Decommission existing ATV71 VSD	Lot	1
3.2	Install/Wire ATV680 and Ethernet cabling	Lot	1
3.3	CSPLC configuration and programming	Lot	1
3.4	HMI/SCADA configuration and programming	Lot	1
3.5	Magelis HMI configuration and programming	Lot	1
3.6	As-built drawings	Lot	1
3.7	Travel and subsistence	Lot	1
3.8	Commissioning and handover PS2	Lot	1

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