

Príloha č. 7 Opisu technického riešenia uchádzača

ŠPECIFIKÁCIA RS VALMET

Pos.	Code	Product	Qty
1		DCS	
1,1		SCOPE OF AUTOMATION	
1.1.1		Process control (Instrumentation)	
		Analog measurement/input, 1Ai	39
		Manual control/analog output, 1Ao	3
		Digital input, 1Di	82
		Digital output, 1Do	30
	EP2020	10% installed reserve included	
	EP2010	10% free I/O unit slots in instrumentation I/O cabinets	
1.1.2		Sequence controls	
		Sequence program (10 steps)	2
1.1.3		Operator interface	
	EP1950	Process graphic displays	5
	EP1952	Monitor window	10
1,2		PROJECT ENGINEERING	
1.2.1		General	
	EA1050	Project Management	Incl.
1.2.2		Project implementation	
	EA3010	Control System Definition	Incl.
	EA3060	System Engineering	Incl.
	EA3070	Cross Connection Engineering	Incl.
	EA3075	I/O-allocation	Incl.
	EA4000	Application Engineering	Incl.
	EA4010	Operator displays	Incl.
	EA4012	Sequence controls	Incl.
	EA4020	DNAhelp (interlocking window)	Incl.
1.2.3		Documentation and manuals	
	E6510	Project documentation set	1
1.2.4		Factory acceptance test (FAT)	
	ED1001	<u>Scope of work:</u>	
	EA6010	Virtual FAT	Incl.
	ED1002	<u>Duration and manpower:</u>	
	C10010	Workday (10 h/d, weekdays) with 1 person(s)/day	2
1.2.5		Travel & living expenses	
	EA6201	Living expenses	Incl.

	EA6202	Travel expenses	Incl.
1,3		ON-SITE SERVICES	
1.3.1		Commissioning	
	ED1001	<u>Scope of work:</u>	
	EA7030	System power up	Incl.
	EA7060	I/O-testing at Operator Interface	Incl.
	EA7080	Functional test at Valmet DNA	Incl.
	EA7110	On-site support after start-up (baby sitting), 1 days	Incl.
	ED1002	<u>Duration and manpower:</u>	
	C30040	Workweek (8 h/d, 5d/w) with 1 person(s)/week	2
1.3.2		Travel & living expenses	
	EA6201	Living expenses	Incl.
	EA6202	Travel expenses	Incl.
1,4		FIELD INTERFACE	
1.4.1		ACN M80 I/O units & cabinets	
	D201134	AI8C - Analog input unit, 20 mA	6
	D202098	AO8C - Analog output unit, 8 channels 20 mA	1
	D201126	DI8P - Digital input unit, PNP	12
	D201129	DO8P - Digital output unit, PNP	5
	D201351	RES - Empty slot cover	8
	D201910	M80 I/O group pair, max 32 I/O units	1
	D201832L	IPSP - MIO power supply	1
	D201278	Cross connection with spring, max 16 I/O units	2
	D201895	M80 ACN I/O cabinet 900 CCB, 230 VAC	1
	D201972	Redundant fo connection (6*TX+2*FX) for ACN I/O cabinet with Industrial switch	1
	S446016L	Power Backup for MIO cabinet, MUPS (Coated)	1
1,5		PROCESS CONTROLLERS	
1.5.1		ACN MR process controller	
	D202652	ACN MR process controller, quad-core CPU	1
1.5.2		Process controller licences	
	D200989	Process controller & gateway base licence, per node	1
	D200990	Process controller capacity licence / 100 I/O's	2
1,6		CONTROL ROOM	
		Operator station and event management licences	
1.6.1			
	D200010	Operator interface capacity licence /100 names, per control room	2
1,7		ENGINEERING AND MAINTENANCE TOOLS	
1.7.1		Engineering server licences	
	D200001	Engineering server repository capacity, per 100 unit	4

2		Field OPS	
2,1		CONTROL ROOM	
2.1.1		Operator station with 2 monitors	
	<u>D202444</u>	ACN WS	1
	D201955	PC Monitor LCD, 24" Dell	2
2.1.2		Field operator interface	
	D201077	DNA Operate for Field Operations	1