

ETELÄ-KARJALAN JÄTEHUOLTO OY DRY DIGESTION FACILITY AND BIOGAS UPGRADING AND FILLING STATION DESIGN AND TURN-KEY CONTRACT

INSTALLATION WORK AGREEMENT

25.05.2018



Installation work agreement

Purchaser:	
Contractor:	
Subject of the installation/contract:	
Order code:	
Project no.:	
Delivery terms and time:	
Contract terms:	
Purchaser's installation supervisor:	
Purchaser's contact person, contractual	
matters:	
Contractor's installation supervisor:	
Contractor's contact person,	
contractual matters	



		Procures		Finances	
		Purchaser	Contractor	Purchaser	Contractor
1	INSTALLATION STAFF		X		Х
1.1	Supervisor/manager		Х		X
1.2	Skilled labour including tools		Х		X
1.3	Unskilled labour		X		X
1.4	Official inspectors		X		X
	Travel expenses for suppliers per-				
1.5	sonnel		X		X
1.6	Daily allowances		X		X
1.7	Accommodation		X		X
1.8	Training officer		X		X
2	SITE FACILITIES				
2.1	Office units m ²		X		X
2.2	Office furniture		X		XI
2.3	Telephone		X		X
2.4	Telecommunication charges		X		X
2.5	Internet connection and payment		X		X
2.6	Copying machine		X		X
2.7	Heated indoor storage m ²				
	Covered storage m ²		X		X
2.9	Furniture (such as shelves) 2.7 and				
	2.8		Х		X
2.10	Appropriate outdoor storage ar-				
	ea m²		X		X
2.11	Cleaning of Offices, locker rooms				
	and canteen		X		X
	Parking lot		X		X
	Site layout		X		X
2.14	Site work plan		X		X



		Procures		Finances	
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3	CIVIL ENGINEERING WORK				
3.1	Foundations		X		
3.2	Grouting				
3.3	- completion		Х		X
3.4	- inspection	Х	Х	X	X
3.5	Drilling and chasing of holes		Х		X
3.6	Anchor bolt holes		X		X
3.7	Accessing openings and preliminary covers		X		X
3.8	Safety covering of openings after use		Х		Х
	Location measures and benchmarks		Х		Х
3.10	Anchoring positions for temporary lift- ing and pulling equipment during in- stallation		X		X
3.11	Inserts/joints in concrete				
3.12	- manufacturing		Х		Х
3.13	- installation		Х		X
3.14	- inspection	X	X	X	Х
4	TRANSPORT AND STORAGE				
4.1	For Machines and equipment				
	- marking of goods		Х		X
4.2	- packaging		X		X
4.3	- freight		Х		X
4.4	- forwarding		Х		Х
4.5	- customs clearance		Х		Х
4.6	Freight for erection equipment		Х		Х
	Receipt of arriving materials before works start at site		Х		Х
4.8	Warehouse management and responsibility for goods		Х		Х
4.9	Tarpaulins		Х		Х
	Offloading from transport		Х		Х
	Transport to intermediate storage		Х		Х
4.12	Transport and transfer to the installa-				
	tion location		Х		X
	Road maintenance and snow clearing at the warehouse and installation area	X		X	



	Procures			Finances		
		Purchaser	Contractor	Purchaser	Contractor	
5	TOOLS AND SUPPLIES					
5.1	Overhead cranes + operator		X		X	
5.2	Cranes, lift-trucks + operator		X		X	
5.3	Special tools		Х		Х	
	Welding and cutting gases		Х		Х	
	Welding equipment and consumables		Х		Х	
	Metal-framed scaffolding		Х		Х	
0.0	Electricity: 3-phase, 400 V 50 Hz max.					
5.7	kW .	Х		X		
F 0	Electricity: 1-phase, 220240 V 50 Hz	V				
	max kW	X		X		
	Main site substations 1 unit	Х		X		
5.10	Electricity distribution panels X units Extension and connection cables with		Х		X	
5 11	outlets		X		X	
	Compressed air m ³ /s, 7.0 bar		X		X	
	Instrument air m ³ /s, 7.0 bar		X		X	
	Water	Х	^	X	^	
	Pressure-test water 5 °C	Х		X		
	Hoses for compressed air and water		Х		X	
5.17	Cleaning agents		X		X	
	Steam		X		X	
	Lubricants		X		X	
	Cleaning of lubrication systems		X		Х	
5.21	First fill of lubricants		X		Х	
5.22	Cleaning of the hydraulic systems		X		Х	
5.23	Hydraulic fluids		X		X	
5.24	First fill of hydraulic systems		X		X	
5.25	Flushing oils		X		X	
6	INSURANCES					
, .	Property insurance, delivered equip-					
6.1	ment and material (all risks)		X		X	
6.2	Transporting insurance		Х		Х	
6.3	Property insurance for installation machines, equipment and tools (all risks)					
	Transporting insurance		X		X	
3.7	Installation and worksite insurance					
	during the construction up to (contract					
6.5	value) EUR		Х		X	
	Operational third-party insurance up					
6.6	to 1 million EUR		X		X	



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	Legally required insurances for instal-				
6.7	lation personnel		X		X
7	GENERAL				
7.1	Erection area heating to X °C		X		X
7.2	Cleaning of construction area		Χ		X
7.3	Waste container management to plat- forms		X		X
7.4	Waste platform management	Χ		X	
7.5	Disposal of hazardous waste		X		X
7.6	Purchaser safety training at the processing centre's area 1 h/person	Χ		×	
7.7	Safety equipment		X		X
7.8	Personal protective gear		X		X
7.9	First aid equipment		X		X
7.10	Permission to conduct flame works	Χ	X	X	X
7.11	Flame works card		X		X
7.12	Protection surroundings of work place		X		X
7.13	Firefighting equipment		X		X
7.14	Fire guarding, general	Χ		X	
7.15	Work place fire guarding		X		X
7.16	Fire guarding after working hours, 2 h		Χ		X
7.17	Plant security guarding	X		X	
7.18	General lighting	Χ		X	
7.19	Work place lighting		X		X
7.20	X-ray tests, protection		X		X
7.21	Leakage and pressure tests		Х		Х
7.22	Pressure vessel commissioning inspection		Х		Х
7.23	Electricity commissioning inspection		Х		Χ
7.24	Patch painting		Х		Х
7.25	Finish painting		X		X
7.26	Cleaning of welding seems		Х		Х
7.27	Cleaning of pipework and systems		X		Χ



	Procures		Finances	
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8 MI SCELLANEOUS				
8.1 Mechanical installation		Х		Х
8.2 Electrical installation		Х		Х
8.3 Instrument installation		Х		Х
8.4 Installation inspection	X	Х	X	Х
9 COMMISSIONING AND START-UP				
9.1 Mechanical inspections		X		Х
9.2 Dry test runs		X		Х
9.3 Wet test runs		X		Х
9.4 Commissioning inspections for instruments		Х		Х
9.5 Manufacturer's specialists for start-up of equipment		Х		Х
9.6 Procurement/transfer of seed for biogas reactors		Х		Х
9.7 Preparing of start-up plan for biogas reactors		Х		Х
9.8 Operation of biogas reactor during start-up		Х		X
10 GUARANTEE TESTS				
10.1 Supervision of guarantee tests	X	X	X	Х
10.2 Recording the protocols during final acceptance test		Х		Х
10.3 Reporting on guarantee tests		Х		Х
10.4 Compiling guarantee test protocol		Х		Х
10.5 Sampling of odorous gases (external laboratory)		Х		Х
10.6 Sampling (except odorous gases)		Х		Х
10.7 Analysing samples		X		Х