

Project:	Ø	stfold Av	allssort	ering IK	S - MF	RF	
Title:							
		A	PPEND	IX B2			
		Р	RICE SH	IEETS			
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C1		For Contract					
B2	03.10.22	Updated with 2.6			LIF	PT	ASE
B1	29.09.22	For Tender			LIF	PT	PT
A1	05.09.22	For Internal control			LIF	PT	LIF
Revision	Date	Text			Author	Checked	Approved
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GENERAL

The price sheets are based on the proposed block diagram. Contractor shall add all necessary conveyors and/or equipment to each group, place them in the price list according to process flow and give each of them an AKS sequence number.

Enclosed Excel sheet to be filled in, modified with equipment according to Suppliers proposal, and enclosed the tender.

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Appendix B 2.1 Summary tender price

Waste Sorting Plant

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Linked cells, do not fill in

0€

2.1 Summary tender price

2.2.1 Group 100 - Infeed, Screening, Metal Separation	0 €
2.2.2 Group 200 - Polymer sorting	0 €
2.2.3 Group 400 - Bunkers and Balers	0 €
2.2.4 Compressor Plant incl. Piping system pressurised air	0 €
2.2.5 De-dusting System, ventilation	0 €
2.2.6 Structural Steel overall	0 €
2.2.7 Electrical Equipment and Control/Monitoring System	0 €
2.2.8 Engineering	0 €
2.2.9 Mechanical installation	0 €
2.2.10 Transportation	0 €
2.2.11 Commissioning and Trial Period	0 €
Options included in contract sum	
2.5.2 Spare parts	0 €
2.5.2 Wear parts	0 €
Other options to be decided later	

Contract sum

2.3 Options

2.3.1 Operational assistance	0€
2.3.2 Extended guarantee period	0€
2.3.3 Single local operator panel	0€
2.3.4 Option A - Paper sorting	0€
2.3.5 Option B – Fines sorting	0€
2.3.6 Option C – Baling of source separated paper	0€
2.3.7 Option D – Odour reduction system	0€

Appendix B 2.2 Price Breakdown

Waste Sorting Plant

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2.2 Price breakdown

The prices as given in this price sheet must include all cost, no additional charges will be accepted. Prices are excluding of VAT, but including transport and unloading of equipment, installation, inspections, commissioning and the take-over proceedings according to the Contract documents.

Contract prices will be regulated in accordance with changes in price level as described in Enclosure 3 to Contract Agreement.

This price sheet is based on the proposed block diagram. The Contractor shall add all necessary conveyors and/or equipment to each group, place them in the price list according to process flow and give each of them an AKS sequence number.

Price cells and cells for el-consumption shall be filled in by Supplier. Shaded cells/gray-colored cells shall not be changed.

2.2.1 Group 100 - Infeed, Screening, Metal Separation

0€

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AKS no	5 Equipment	Price
1xx	Infeed bunker with conveyor	0€
1xx	Shredder with Discharge Conveyor	0€
1xx	Drum screen 1	0€
1xx	Drum screen 2	0€
1xx	Fe Metal Separator 1 (fines)	0€
1xx	NE Metal separator / Eddy Current 1 (fines)	0€
1xx	Fe Metal Separator 2	0€
1xx	Fe Metal Cleaner	0€
1xx	NE Metal separator / Eddy Current 2	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€
1xx	Conveyor from xx to xx	0€

Appendix B 2.2 Price breakdown

Waste Sorting Plant

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		The statistic decoderation	
2.2.2	Group	200 - Polymer sorting	
		(for paper sorting, refer 2.3 Options)	
		equipment	Price
	2xx	NIR 1 Mixed plastic	0 €
	2xx	NIR 2 Mixed plastic	0 €
	2xx	NIR 3 Mixed plastic	0€
	2xx	NIR 4 Mixed plastic recovery	0 €
	2xx	NIR 5 Mixed plastic recovery	0 €
	2xx	NIR 6 Mixed plastic recovery	0 €
	2xx	NIR 7 Mixed plastic cleaner	0 €
	2xx	NIR 8 Mixed plastic cleaner	0 €
	2xx	NIR 9 Mixed plastic cleaner	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0€
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €
	2xx	Conveyor from xx to xx	0 €

Appendix B 2.2 Price breakdown

Waste Sorting Plant

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Group 400 - Bunkers and Balers 2.2.3 0€ Price **AKS no Equipment** 4xx Complete bunker 1 Mixed Plastic 0€ 4xx Complete compacting station 0€ 20 off compacting containers 0€ 4xx 4xx Containerstation for FE Metal 0€ Containerstation for NE Metal 4xx 0€ 4xx Containerstation for Fines 0€ 4xx Infeed conveyor to baler 0€ 4xx Baler 0€ 4xx Conveyor from xx to xx 0€ Conveyor from xx to xx 4xx 0€ 4xx Conveyor from xx to xx 0€ Conveyor from xx to xx 4xx 0€ 4xx Conveyor from xx to xx 0€ 2.2.4 Compressor Plant incl. Piping system pressurised air 0€ total Equipment Price Air compressor 0€ Compressor unit 1 * Compressor unit 2 * 0€ 0€ Compressor unit x * 0€ Compressor unit x * Compressor unit x * 0€ Compressed air conditioning / buffering 0€ Air drying * 0€ Air drying * Air drying * 0€ Air filters * 0€ 0€ Air vessels * Cooling system compressors 0€ 0€ Heat changer compressor plant for building * = contractor specify neccecary number of units Pressurized air pipes 0€ Sorting line 0€ Compressor room Ventilation system room compressor plant 0€ Engineering, installation, electrical equipment, commissioning, compressor plant 0€

Appendix B 2.2 Price breakdown

Waste Sorting Plant

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2.2.5	De-dusting System, ventilation	Drice	0€
	Equipment Ductwork fresk air in sorting hall (from battery limit heating/ventilation system building)	Price 0 €	
	Ductwork sorting hall de-dusting to stack (air extraction)	0€ 0€	
	Ventilators sorting hall	0 €	
	Filters sorting hall	0 €	
	Stack	0€ 0€	
	Engineering, installation, electrical equipment, commissioning of de-dusting system	0€ 0€	
	Engineering, installation, electrical equipment, commissioning of de-dusting system	U€	
2.2.6	Structural Steel overall		0€
	Equipment	Price	
	Walkways, platforms and stairs for operation and maintenance	0€	
	Structural steel complete	0€	
2.2.7	Electrical Equipment and Control/Monitoring System		0€
	Equipment	Price	
	MCC and control switchboards incl. local terminal boxes	0€	
	Main PLC with remote I/O modules	0 €	
	Industrial Ethernet and Fieldbus Network (Profibus / Profinet) incl. Wi-Fi	0 €	
	Central operator station, engineering station, local operator panels and mobile panels	0€ 0€	
	Assembly, installation, cabling and wiring incl. all cables, cable trays, ducts, etc.	0€	
2.2.8	Engineering		0€
		Price	
	Basic- and Detail-Engineering	0€	
	Documentation complete	0€	
2.2.9	Mechanical installation		0€
		Price	
	Mechanical installation complete including lifting equipment, etc.	0€	
2.2.10	Transportation		0€
		Price	
	Transportation of complete delivery to site.	0€	
2.2.11	Commissioning and Trial Period	Duine	0€
		Price	
	Commissioning incl. training of personnel, refer Appendix A5	0€	
	Trial period (3 month)	0€	
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Appendix B 2.3 Options

Waste Sorting Plant

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2.3	Options				
	Deadlines for declare the options				
	The Client shall have the right to declare the various options within the deadlines specified below:				
	2.3.1 1 month before end of trial period				
	2.3.2 Signing of contract				
	2.3.3 4 months after signing of contract				
	2.3.4 4 months after signing of contract				
	2.3.5 4 months after signing of contract				
	2.3.6 4 months after signing of contract2.3.7 4 months after signing of contract				
	2.3.7 4 months after signing of contract				
2.3.1	Operational assistance				0€
2.3.1	Operational assistance Operational assistance for 3 months after				υe
	trial periode			0€	
2.3.2	Extended guarantee period				0€
	Additional price for 3rd year guarantee for				
	electromechanical deliveries.	Unit price 0€	No off 1	0€	
	One price in € for one additional year.	0€	I	U€	
2.3.3	Single local operator panel				0€
	Single local operator panel incl. Cabinet and equipment as decribed in A8, chapter	Unit price	No off		
	6.4	0€	3	0€	
2.3.4	Option A - Paper sorting			total	0€
	See Appendix A3 for description				
А	AKS no Equipment			Price	
	2xx NIR 10 Mixed paper sorter			0€	
	2xx NIR 11 Mixed paper sorter			0€	
	2xx NIR 12 Mixed paper cleaner 2xx Conveyor from xx to xx			0€ 0€	
	2xx Conveyor from xx to xx			0€ 0€	
	2xx Conveyor from xx to xx			0€	
	2xx Conveyor from xx to xx			0€	
	2xx Conveyor from xx to xx			0€	
	4xx Complete bunker Mixed paper			0€	
	Structural Steel overall			0€	
	Electrical Equipment and Control/Monitoring System			0€	
	Engineering Mechanical installation			0€ 0€	
	Transportation			0€ 0€	
	Commissioning and Trial Period			0€	
			F	bage 8 of 12	

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on B – Fines sorting	total	0 :
Appendix A3 for description		
> Equipment	Price	
Flip-flop screen	0€	
	0.0	
Structural Steel overall	0€	
Electrical Equipment and Control/Monitoring System	0€	
Engineering	0€	
	0€	
•		
Commissioning and Trial Period	0€	
on C – Baling of source separated paper	total	0
Appendix A3 for description		
o Equipment	Price	
Infeed bunker and feeding conveyor for source separated paper	0€	
Electrical Equipment and Control/Monitoring System	0€	
Engineering	0€	
	0€	
Commissioning and Trial Period	0€	
on D – Odour reduction system	total	0
Appendix A3 for description		
5 Equipment	Price	
Odour reduction filter	0€	
Ductwork	0€	
Electrical Equipment and Control/Monitoring System	0€	
Electrical Equipment and Control/Monitoring System Engineering	0 € 0 €	
	Appendix A3 for description Flip-flop screen NIR 13 Mixed Plastic Sorter Conveyor from xx to xx Structural Steel overall Electrical Equipment and Control/Monitoring System Engineering Mechanical installation Transportation Commissioning and Trial Period Equipment Infeed bunker and feeding conveyor for source separated paper Electrical Equipment and Control/Monitoring System Engineering Mechanical installation Transportation Commissioning and Trial Period Description Description	Transmitter total Appendix A3 for description 0 € Flip-flop screen 0 € NIR 13 Mixed Plastic Sorter 0 € Conveyor from xx to xx 0 € Structural Steel overall 0 € Electrical Equipment and Control/Monitoring System 0 € Commissioning and Trial Period 0 € Price Infeed bunker and feeding conveyor for source separated paper 0 € Infeed bunker and feeding conveyor for source separated paper 0 € Electrical Equipment and Control/Monitoring System 0 € Engineering 0 € Mechanical installation 0 €

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	 Conception that the conception of t			, so to ng
2.4	Other cost elements			
.4.1	Additional work/change orders			
	The hourly rates will be used for addition w comprise all costs of the Contractor include necessary technical and personal equipme	ing travel, boarding expenses,		
	Hurly rates will be regulated in accordance described in Enclosure 3 to Contract Agree	• •		
	All prices to be excluding VAT			
	Category	€/hour	Estimated	
		to be filled inn by		•
	E standar	Supplier	hours	Su
	Engineering	0,00 €/h	300	0
	Supervisory services (installation,		400	-
	commissioning) –	0,00 €/h	100	0
	Foreman	0,00 €/h	100	0
	Welder	0,00 €/h	50	0
	Fitter	0,00 €/h	200	0
	Painter	0,00 €/h	50	0
	Insulation work	0,00 €/h	20	0
	I&C spezialist	0,00 €/h	200	0
	Helper	0,00 €/h	100	0
	Total estimated sum additional hours (f	or evaluation only)		0
.4.2	Change orders, %-age add-on on pu In case of change orders where fixed price placeing the change order, the Client shall purchased items to cover contractor's total purchase, risk and profit.	e is not agreed upon before pay an additional percentage on		
	Percentage to cover contractor's total indir purchase, risk and profit (total mark-up on		12 %	

Appendix B 2.5 Summary Cost of Wear and Spare Parts (option)

Waste Sorting Plant





Basis: Scope to be based on 1 shift operation (1900 h/y) for the first 2 years of operation List of recommended spares and consumption of wear parts to be encosed the tender. The list shall specify spare and wear parts prices for the specified machinery/equipment.

In case a component not listed as a wear part needs to be changed within the defect notification period, this will be handled as a defect and shall be rectified by the contractor.

Deadlines for declare the option

The Client shall have the right to declare the option within the deadline, 1 month before end of trial period.

Summary	Price Spare Parts to be filled inn by Supplier	Price Wear Parts to be filled inn by Supplier	Summary Price	Comments
Shredder Ferrous metal sep. Non-Ferrous metal sep./Eddy Current Drum screen Screen NIR-machines Baler	0 € 0 € 0 € 0 € 0 € 0 €	0 € 0 € 0 € 0 € 0 €	0€ 0€ 0€ 0€ 0€	
Conveyors total <u>Others (specify)</u> - - - -	0 € 0 € 0 € 0 € 0 €	0€ 0€ 0€	0€ 0€ 0€	
De-dusting System, ventilation Compressor Plant incl. Piping system Electrical Equipment Control and Monitoring System 13 coils of wire for baling machine	0 € 0 € 0 € -	0€	0€ 0€ 0€	
	€ -	€ -	€ -	

	Sorting Plant					
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2.6.1	Annual electrical consumption					
	The Supplier shall inform the electrical consumption per hour of full operation of the plant. El-consumption is without options Electrical consumption (for evalution only)	kWh/h to be filled inn by Supplier	h/year 1500	€/kWh 0,2	Sum/year	0
2.6.2	Personnel					
	The Supplier shall inform number of persons (full-time og part time) required to operate and maintain the plant with one shift operation. Manning to be without options. Refer also personnel specified in Appendix E	No off to be filled inn by Supplier	€/year		Sum/year	
	Control room operator Loader Other (runner etc) Cleaning Electrical maintenance Automation maintenance Mechanical maintenance		70 000 70 000 70 000 70 000 70 000 70 000 70 000			0 0 0 0 0 0
	Total personnel cost (for evaluation only	/)				0
2.6.3	Area requirements Need for area (m ²) for process equipment in waste reception hall, process hall and storage hall shall be specified The relative difference in area required will be evaluated based on cost of 2.000 €/m ²		Required			
	Reception hall Sorting hall Storage area Additional areal requirement (for evalua	tion only)	area [m²] 0 m² 0 m² 0 m² 0 m² 0 m²	2		