

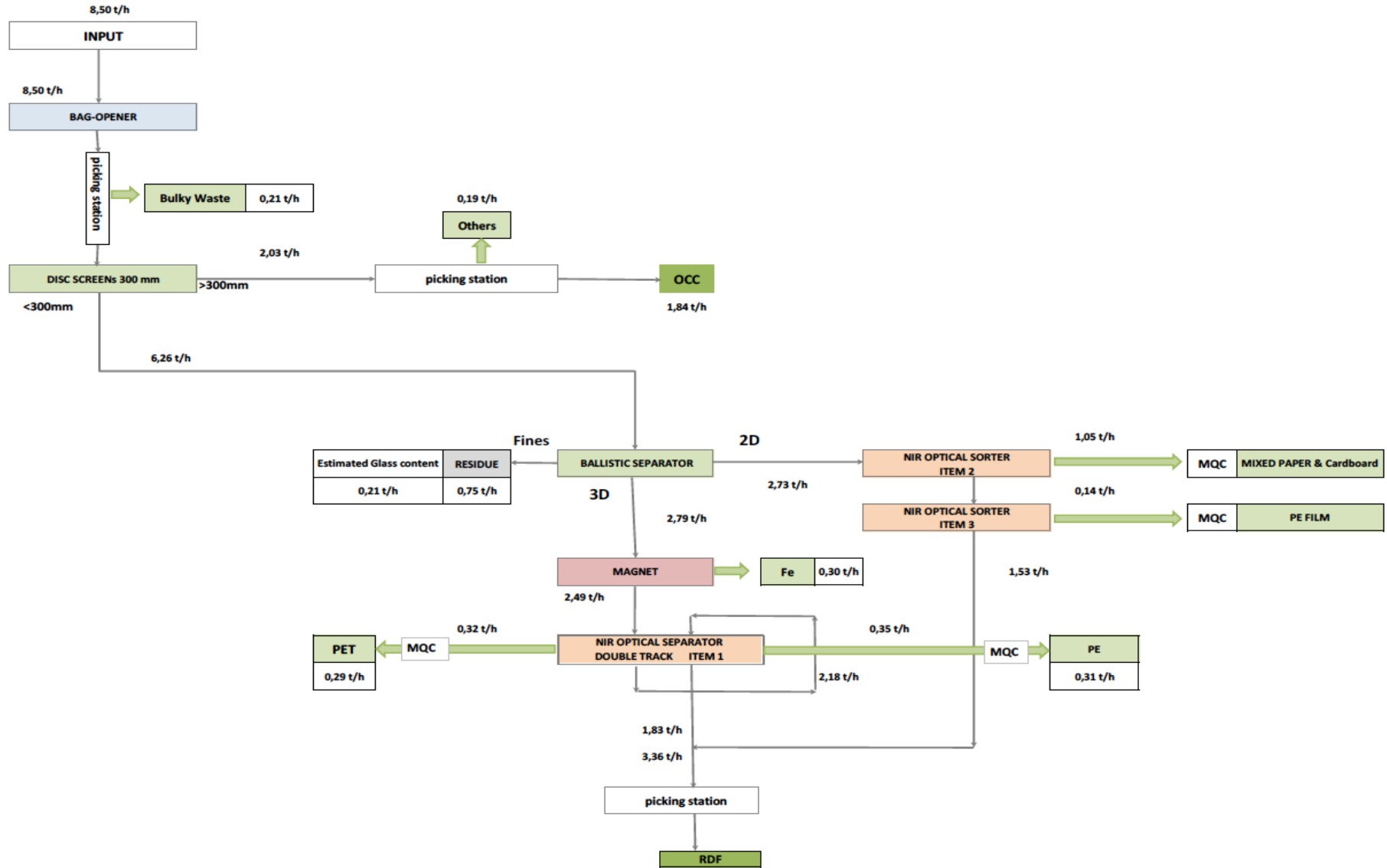
INQUIRY

In connection with the participation of ELLINIKI DIAXEIRISI APORRIMMATON S.A. (ELDIA SA) in the tendering procedure for the purpose of the implementation of project: “EFFICIENCY IN SORTING VIA AUTOMATION: ELDIA’s NEW VENTURE”, financed by EEA and Norway grants for Greece, donor reference: 2019/130893, we would like to ask you to submit a technical and price offer for the supply of NIR separators according to attached data.

1. Input data:

INPUT MATERIAL		
OCC	25,50%	2,17 t/h
News&pumps	11,50%	0,98 t/h
PET	4,00%	0,34 t/h
HDPE	4,50%	0,38 t/h
LDPE	2,20%	0,19 t/h
PP/PS	1,50%	0,13 t/h
ALU	0,50%	0,04 t/h
FE	3,40%	0,29 t/h
TETRA	0,60%	0,05 t/h
GLASS	2,80%	0,24 t/h
REJECTED MATERIAL	43,50%	3,70 t/h
	100,00%	8,50 t/h

2. Flow chart



3. Sensors configurations:

Sensor Configuration		Performance	Mounting High/Low	Recommended min. particle size [mm]	Working width [mm]
A	NIR1	Basic	High	>35	1000 1400 2000 2800
		Standard	High	>20	
			Low	>25	
		High Resolution	Low	>10	
		Ultra-High Resolution	Low	>6	
Performance	Low	>25			
B	NIR1-NIR2	Basic	High	>35	1000 1400 2000 2800
		Standard	High	>20	
			Low	>25	
		High Resolution	Low	>10	
C	NIR1-VIS	Basic	High	>35	1000 1400 2000 2800
		Standard	High	>20	
			Low	>25	
		High Resolution	Low	>10	
		Ultra-High Resolution	Low	>6	
D	NIR1-NIR2-VIS	Basic	High	>35	1000 1400 2000 2800
		Standard	High	>20	
		High Resolution	Low	>10	

4. Sorting tasks:

Standard application packages		Description	A	B	C	D
1	POLYMER sorting	Sorting of e.g. beverage cartons, PE, PP, PS, PET, PVC, EPS, ABS by type of material	X	X	X	X
	MIXED PAPER removal	Removal of mixed paper out of a mixed input stream	X	X	X	X
	RDF production	Production of a RDF fraction	X	X	X	X
2	C&D sorting	Organic/Non-organic sorting	-	X	-	X
3	PAPER DEINK sorting	Production of a clean deinking paper fraction	-	-	X	X
4	PET COLOR sorting	Sorting of PET by color, e.g. clear, blue, ...	-	-	X	X
	PE COLOR sorting	Sorting of PE by color, e.g. clear, ...	-	-	X	X
5	WOOD cleaning	Production of a clean wood/timber fraction by removing of painted and coated wood	-	-	X	X
6	METAL removal	Removal of all metals	Option – Electromagnetic (EM) sensor			
7	MULTI FUNCTIONAL 1	Up to TWO packages in ONE	-	X	-	-
	MULTI FUNCTIONAL 2	Up to FOUR packages in ONE	-	-	X	-
	MULTI FUNCTIONAL 3	Up to FIVE packages in ONE	-	-	-	X
8	SPECIAL APPLICATIONS	ON REQUEST	X	X	X	X
9	PET BOTTLE VS. TRAY	Separation of PET bottle vs. tray	X	-	X	-

5. Sensors Performance Information

Performance data NIR1	Hit Rate	Purity
Input material size	60-300mm	
Input material	3D fraction from Ballistic separator. PET+PE+PP ~30%	
Input material bulk density	60-80kg/m ³	
At a throughflow of: (greatly dependent on material)	<3 t/h	
Sorting task: PET+PE+PP	>90%	>90%

Performance data NIR1-NIR2	Hit Rate	Purity
Input material size	60-300mm	
Input material	2D fraction from Ballistic separator. Paper&Cardboard~65% PE film ~%	
Input material bulk density	80-100kg/m ³	
At a throughflow of: (greatly dependent on material)	<2,7 t/h	
Sorting task (option 1): Paper&Cardboard	>85%	>85%
Sorting task (option 2): PE film	>80%	>85%

Performance data NIR1-VIS	Hit Rate	Purity
Input material size	60-300mm	
Input material	Sorted fraction from Item 1	
Input material bulk density	50-70kg/m ³	
Track 1 (width : 1000mm). At a throughflow of: (greatly dependent on material)	1 t/h	
Sorting task: PET	>90%	>92%
Track 2 (width : 1000mm). At a throughflow of: (greatly dependent on material)	0,6 t/h	
Sorting task: PE	>90%	>92%

6. Other technical conditions:

- a. The temperature on the surface of the belt shall not exceed 80°C even if the feeding belt conveyor is out of order for an hour and the lamps are on;
- b. The maximum allowable power of the lamps shall not exceed the figure of 1.5 kW per meter of belt width;
- c. The vertical distance between the lamps and the belt surface shall be at least 500 mm;
- d. Control unit with local control panel and electronics;
- e. Operating software;
- f. Scanner unit with illumination system inside scanner unit;
- g. Ejection module;
- h. Cable sets;
- i. Documentation support: User Manual is offered both in Greek and English languages within EU-countries supplier, and in English language for non-EU country supplier.

7. Other bid conditions:

- a. Information about Project Management, Installation, Commissioning, etc should be included in bid;
- b. In the bid, please provide the required amount of compressed air and its parameters for each of the separators;
- c. Scope of works:
 - i. supply and assembly of devices (without accelerating conveyors) but with separation chambers - assembly and connection of power supply and control switchboards, - start up;
 - ii. training

8. Requirements

- a. Place of delivery: location of buyer;
- b. The offer should constitute a flat-rate value for the entire service;
- c. Please attach catalog cards with the device's dimensional drawings, control and visualization descriptions as a separate document;
- d. structural elements made of steel sheets and steel profiles, not protected against corrosion by other means the method, unless otherwise specified, should be at least: sandblasted to grade 2.0 (according to ISO 8501-1), painted with a layer of topcoat paint, with a total thickness above 100 µm. The color, except for galvanized elements, must be compatible with the solutions used in plant;
- e. Required warranty period of 36 months from delivery and max. 30 months from launch;
- f. The contractor will provide spare parts and lubricants for work for 24 months after receipt for all equipment;
- g. The Contractor shall guarantee the possibility of receiving original spare parts for each delivered part of the equipment within a minimum period of 10 years from the date of the Acceptance Confirmation.

9. Delivery dates

- a. Current deadline for submitting the bid is 30.09.2020.
- b. Deadline for completion of all works: 6 months
- c. The period for reporting defects is 24 months on the date of issue of the Taking-Over Certificate of the entire Investment

ANNEX 2

Bidder's statement

In response to a valid invitation, we, signed below, hereby declare the following:

1. We have reviewed and fully accepted the content of documents from the invitation No. _____/2020. With this statement we accept it's regulations, without any doubts or limitations.
2. Price of our offer:
The bid price listed in Annex 3.
3. This offer is valid _____ (_____) days from the date of opening the bids ie. to _____.____.2020.
4. We meet all the qualifying conditions that are listed in the procurement notice and we are not in any of the situations named in the documentation, which could exclude us from the participation. The documents which confirm that the qualifying conditions are met are attached.

Name and Surname of the person duly authorized to represent the bidder:

Signature: _____

Place and date: _____

Stamp:

ANNEX 3

Information about the bidder

Data on the bidder

Company Name (full name)

Legal status of the bidder:

.....

Address:

Street name:..... No:.....

Postal code:..... City:..... Country:.....

Data related to the invitation

Number of the invitation:.....

Name of the invitation:.....

Data related to the bidder:

Total value of the offer (without VAT and in EUR).....

The person who will sign the contract and this application:

Name:.....

Registration number.....

ID Number:.....

Nationality:.....

Position in the Company:.....

Financial identification

Account holder

Name:

Address:

City:

Postal code:

Country:

VAT number:

Contact person:

Phone:

Fax:

E-mail:

Bank

Bank Name:

Address:

City:

Postal code:

Country:

Account number:

Iban:

Attachment:

The bank stamp and signature of authorized person (obligatory) Date and signature of the account holder (obligatory)

ANNEX 5

Taking responsibility

Listed in the signature:.....

Company Name:.....

Address:.....

UIN:.....

VAT Number:.....

(Name of the signatory) with full material and moral responsibility declares that the company he represents:

- a) is not in the process of bankruptcy or on trial, is not under suspension of business activities, nor it is the subject of procedures relating to the above stated and in accordance with legal regulation in Greece and-or EU.
- b) is not a subject of minor offense, nor the prohibiting measure from doing business was pronounced against it in the last 5 years.
- c) has met the obligations of health and pension insurance as well as outstanding tax liabilities in accordance with applicable laws in Greece and-or EU.
- d) is not accused of unprofessional conduct in business or fraud, corruption, involvement in criminal activities or any illegal activity.
- e) on the date of submission of tender documents, the company is not in conflict of interest in the context of call for this tender.
- f) that the information presented to the Commission for tenders within the framework of this invitation to tender is accurate, sincere and complete.

Tender Commission will accept reports which confirm that the tendered is not in any situation described above in items a), b), c), d), e) or f).

Full company name.....

Date.....

Signature.....