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**QUESTIONNAIRE FOR A DEVELOPMENT OF A QUOTATION FOR ELECTROPLATING  
AND PRINTED CIRCUIT BOARD MANUFACTURE WASTEWATER TREATMENT**

**Manufacturer information**

Manufacturer denomination:.....  
.....  
Address:.....  
e.mail:.....  
Phone/ fax: .....

Contact person:.....

Electroplating

Printed circuit board

Water preparation

Other manufacture



No	Indices	Units	Value	Comment
1.	Anticipated yearly manufacture program of electroplated coatings	sq.m/year		
1.1	The yearly amount of PCB manufacture and the expected types of PCB manufacture	sq.m/year		
1.2	Amount of working hours/year	hours		
1.3	Amount of working hours/year	hours		
1.4	Including individual types of coatings or types of surface treatment (in individual Annex)			Annex 1

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No	Indices	Comment
2.	Extracts from the assembly charts of basic electroplating technological processes (in individual Annex)	Annex 2

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No	Indices	Unit	Comment
3.	Anticipated consumption of chemicals in electroplating (in individual Annex)	kg/year	Annex 3

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No	Indices	Unit	Value	Comment
4.	Total water consumption in electroplating shop	cub.m/year		
	including:			
4.1	Fresh water (drinking/process)			
4.2	Return (circulating) water			
4.3	Reused water			
4.4	Composition of tap water at entry			Annex 4

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No	Indices	Unit	Value	Comment
5.	Wastewater drainage system (please, indicate what sewage systems are used for electroplating wastewater drainage)			

No	Indices	Unit	Value	Comment
6.	Maximum and average ions concentrations in wastewater before treatment	mg/dm <sup>3</sup>	max./aver.	
6.1	Chromium (VI)			
6.2	Chromium (III)			
6.3	Nickel			
6.4	Zinc			
6.5	Copper			
6.6	Cadmium			
6.7	Cyanide			
6.8				
6.9				

No	Indices	Comment
7.	The wastewater after treatment shall be directed to the city (municipal) sewer system or employed in some kind of manufacture (a closed-loop water-supply);	

No	Indices	Description
8.	Existing wastewater treatment method	
8.1	Description of functioning wastewater treatment facilities. Yearly consumption of chemicals.	Annex 5

No	Indices	Unit	Value Comment
9.	MCL in the treated wastewater	mg/dm <sup>3</sup>	Annex 5

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No	Indices	Comment
10.	Floor plans for wastewater treatment equipment placing (measurements of the premises, depth of placing – below zero line)	

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No	Indices	mark	dimension	amount
11.	Yearly consumption of anodes in electroplating shop			

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No	Indices	category	amount
12.	Water preparation (please, indicate category and capacity)		

mbiled by:

Function: \_\_\_\_\_

Name, family name: \_\_\_\_\_

Date: \_\_\_\_\_