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Procurement and Climate Protection

Performance sheet
for procurement of

Lighting

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Performance sheets for product group: Lighting

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1. Performance sheet Compact Fluorescent Lamps, Alternative A (simplified procedure)

Company: _____

1.	Product Details	Must
1.1.	Title of product: _____	
1.2.	Shape of lamp: _____	<input type="checkbox"/>
1.3.	Size and type of base: _____	<input type="checkbox"/>
1.4.	Colour temperature: _____ K	<input type="checkbox"/>
1.5.	Luminous flux: _____ lm	<input type="checkbox"/>
1.6.	UVA + UVB radiation ≤ 2.0 mW/klm	<input type="checkbox"/>
1.7.	UVC radiation ≤ 0.01 mW/klm	<input type="checkbox"/>
1.8.	dimnable:	<input type="checkbox"/>
2.	Quality	
2.1.	Colour Rendering Index (CRI)	
	CRI > 80	<input type="checkbox"/>
2.2.	Lamp warm-up & starting time	
	starting time < 1.5 s if P < 10 W	<input type="checkbox"/>
	lamp warm up time to 60 % Φ is less than 40 sec.	<input type="checkbox"/>
2.3.	Durability	
	$\geq 6,000$ hours	<input type="checkbox"/>
2.4.	Lamp survival factor at 6,000 hours	
	≥ 0.50	<input type="checkbox"/>
2.5.	Premature failure rate	
	≤ 2.0 % at 400 h	<input type="checkbox"/>

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2.6.	Switch on/ off cycle	
	≥half lamp lifetime expressed in hours (see 2.3)	<input type="checkbox"/>
	≥ 10,000 if lamp starting time > 0.3 s	<input type="checkbox"/>
2.7.	Lumen maintenance	
	≥ 88 % at 2,000 hours	<input type="checkbox"/>
	≥ 70 % at 6,000 hours	<input type="checkbox"/>
3.	Energy Consumption	
3.1.	Power input: _____W	<input type="checkbox"/>
3.2.	Lamp Power Factor	
	≥ 0.55 if P < 25 W	<input type="checkbox"/>
	≥ 0.90 if P ≥ 25 W	<input type="checkbox"/>
3.4.	Energy Efficiency	
	Energy Efficiency Class A (according to directive 98/11/EC)	<input type="checkbox"/>
	Rated minimum efficacy values according to Commission Regulation (EC) 245/2009 (L76/17) – Tables 2, 3, 4, 6 are fulfilled	<input type="checkbox"/>
All must criteria are fulfilled?		<input type="checkbox"/>

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 244/2009 (L 76/3) are fulfilled.

Date / Signature(s) / Stamp

2. Performance sheet Compact Fluorescent Lamps, Alternative B (comprehensive procedure)

Company: _____

1.	Product Details	Must	Target
1.1.	Title of product: _____		
1.2.	Shape of lamp: _____	<input type="checkbox"/>	
1.3.	Type of base: _____		
1.4.	Colour temperature: _____ K	<input type="checkbox"/>	
1.5.	Luminous flux: _____ lm (ambient temperature 25°)	<input type="checkbox"/>	
1.6.	UVA + UVB radiation ≤ 2.0 mW/klm	<input type="checkbox"/>	
1.7.	UVC radiation ≤ 0.01 mW/klm	<input type="checkbox"/>	
1.8.	dimnable	<input type="checkbox"/>	
2.	Quality		
2.1.	Colour Rendering Index (CRI)		
	CRI ≥ 80	<input type="checkbox"/>	
2.2.	Lamp warm-up & starting time		
	starting time < 2 sec.	<input type="checkbox"/>	
	starting time < 1.5 sec.		<input type="checkbox"/> 2
	Starting time < 1 sec.		<input type="checkbox"/> 3
	lamp warm up time to 60 % Φ is less than 40 sec.	<input type="checkbox"/>	
	Lamp warm up time to 60% Φ is less than 60 sec.		<input type="checkbox"/> 5
	stabilised light output > 80 % after 15 sec. switched on		<input type="checkbox"/> 10
2.3.	Durability		
	$\leq 6,000$ hours	<input type="checkbox"/>	
	$\leq 10,000$ hours		<input type="checkbox"/> 2
	$\leq 12,000$ hours ("long life")		<input type="checkbox"/> 3
	$\leq 15,000$ hours		<input type="checkbox"/> 5
	$\leq 20,000$ hours		<input type="checkbox"/> 10
2.4.	Lamp survival factor at 6,000 hours		
	≥ 0.50	<input type="checkbox"/>	
	≥ 0.70		<input type="checkbox"/> 5

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2.5.	Premature failure rate		
	≤ 2.0 % at 400 h	<input type="checkbox"/>	
2.6.	Switch on/ off cycle		
	≥ lamp lifetime expressed in hours (see 2.3)	<input type="checkbox"/>	
	≤ 30,000 if lamp starting time > 0.3 s		<input type="checkbox"/> 5
	≤ 1,000,000		<input type="checkbox"/> 10
2.7.	Lumen maintenance		
	≥ 85 % at 2,000 hours	<input type="checkbox"/>	
	≥ 88 % at 2,000 hours		<input type="checkbox"/> 5
	≥ 70 % at 6,000 hours		<input type="checkbox"/> 10
3. Energy Consumption			
3.1.	Power input: _____ W	<input type="checkbox"/>	
3.2.	Electrical lamp Power Factor		
	≥ 0.55	<input type="checkbox"/>	
	≥ 0.90	<input type="checkbox"/>	
	≥ 0.95		<input type="checkbox"/> 5
3.3.	Energy Efficiency		
	Rated minimum efficacy values according to Commission Regulation 244/2009 (L76/3) – Tables 2, 3, 4, 6 are fulfilled	<input type="checkbox"/>	
	Energy Efficiency Class A (according to directive EC98/11/EC)	<input type="checkbox"/>	
4. Environmental Criteria			
4.1.	Mercury content		
	≤ 1.4 mg		<input type="checkbox"/> 5
	≤ 1.23 mg		<input type="checkbox"/> 10
4.2.	recyclable packaging > 65 %		<input type="checkbox"/> 5
All must criteria are fulfilled?		<input type="checkbox"/>	
Total points achieved by target criteria			_____
Maximum achievable number of points			100

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 244/2009 (L 76/3) are fulfilled.

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3. Performance sheet Linear Fluorescent Lamps, Alternative A (simplified procedure)

Company: _____

1.	Product Details	Must
1.1.	Title of product: _____	
1.2.	Colour temperature: _____ K	<input type="checkbox"/>
1.3.	Luminous flux: _____ lm	<input type="checkbox"/>
2.	Quality	
2.1.	Colour Rendering Index (CRI)	
	CRI \geq 80	<input type="checkbox"/>
2.2.	Durability (mean durability by using electronic ballasts)	
	\geq 10,000 hours	<input type="checkbox"/>
2.3.	Lumen maintenance	
	\geq 90 % of the durability (see 2.2.)	
3.	Energy Consumption	
3.1.	Power input: _____ W	<input type="checkbox"/>
3.3.	Energy Efficiency	
	Energy Efficiency Class A (according to directive EC 98/11/EC)	<input type="checkbox"/>
	Rated minimum efficacy values for T8 and T5 lamps according to Commission Regulation 245/2009 (L 76/17), Table 1, 2, 3, 4, 5 are fulfilled	<input type="checkbox"/>
4	Environmental Criteria	
4.1.	Mercury content	
	< 8 mg	<input type="checkbox"/>
All must criteria are fulfilled?		<input type="checkbox"/>

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 244/2009 (L 76/3) and 245/2009 (L 76/17) are fulfilled.

Date / Signature(s) / Stamp

4. Performance sheet Linear Fluorescent Lamps, Alternative B (comprehensive procedure)

1.	Product Details	Must	Target
1.1.	Title of product: _____		
1.2.	Colour temperature: _____ K	<input type="checkbox"/>	
1.3.	Luminous flux: _____ lm	<input type="checkbox"/>	
2.	Quality		
2.1.	Colour Rendering Index (CRI)		
	CRI > 80	<input type="checkbox"/>	
2.2.	Durability (mean durability by using electronic ballasts)		
	≥ 10,000 hours	<input type="checkbox"/>	
	≥ 12,500 hours		<input type="checkbox"/> 5
	> 20,000 hours		<input type="checkbox"/> 10
2.3.	Lamp lumen maintenance factors for single and double-capped fluorescent lamps		
	> 95 % at 2,000 hours (with non-electronic ballast)		<input type="checkbox"/> 5
	> 97 % at 2,000 hours (with electronic ballast and warmstart)		<input type="checkbox"/> 5
	> 90 % at 4,000 hours (single capped fluorescent lamps with non-electronic ballast or with electronic ballast and warmstart)		<input type="checkbox"/> 5
	> 92 % at 4,000 hours (double capped fluorescent lamps with non-electronic ballast)		<input type="checkbox"/> 10
	>92% at 4,000 hours (double capped fluorescent lamps with electronic ballast and warmstart)		<input type="checkbox"/> 10
	>80 % at 8,000 hours (single capped fluorescent lamps)		<input type="checkbox"/> 10
	>90 %at 8,000 hours (double capped fluorescent lamps with non-electronic ballast)		<input type="checkbox"/> 10
	>92% at 8,000 hours (double capped fluorescent lamps with electronic ballast and warmstart)		<input type="checkbox"/> 10
	>90% at 16,000 hours (double capped fluorescent lamps with electronic ballast and warmstart)		<input type="checkbox"/> 10

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3. Energy Consumption			
3.1.	Power input: _____W	<input type="checkbox"/>	
3.2.	Energy Efficiency		
	Energy Efficiency Class A (according to directive EC 98/11/EC)	<input type="checkbox"/>	
	Rated minimum efficacy values for T8 and T5 lamps according to Commission Regulation 245/2009 (L 76/17), Table 1, 2, 3,4, 5 are fulfilled	<input type="checkbox"/>	
4. Environmental Criteria			
4.1.	Mercury content		
	≤ 8 mg	<input type="checkbox"/>	
	≤ 5 mg		<input type="checkbox"/> 2
	≤ 3 mg		<input type="checkbox"/> 3
4.2.	Recyclable packaging > 80 %		<input type="checkbox"/> 5
All must criteria are fulfilled?		<input type="checkbox"/>	
Total points achieved by target criteria		_____	_____
Maximum achievable number of points		_____	100

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 244/2009 (L 76/3) and 245/2009 (L 76/17) are fulfilled.

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5. Performance sheet Low Voltage Halogen Lamps, Alternative A (simplified procedure)

Company: _____

1.	Product Details	Must
1.1.	Title of product: _____	
1.2.	Voltage: _____V	<input type="checkbox"/>
1.3.	Lamp shape _____	
	<input type="checkbox"/> Reflector <input type="checkbox"/> Non-Reflector	<input type="checkbox"/>
1.4.	Type of socket: _____	<input type="checkbox"/>
1.5.	Length: _____mm	<input type="checkbox"/>
1.6.	Diameter: _____mm	<input type="checkbox"/>
1.7.	Colour temperature: _____K	<input type="checkbox"/>
1.8.	Brightness	
	Illumination for Reflector lamps: _____cd	<input type="checkbox"/>
	Luminous flux for non reflector lamps: _____lm	<input type="checkbox"/>
2.	Quality	
2.1.	Colour Rendering Index (CRI)	
	CRI \geq 90	<input type="checkbox"/>
2.2.	Durability	
	\geq 2,000 hours	<input type="checkbox"/>
3.	Energy Consumption	
3.1.	Power input: _____W	<input type="checkbox"/>
3.2.	Infrared Coating Technology	
	IRC/ES-technology	<input type="checkbox"/>
All must criteria are fulfilled?		<input type="checkbox"/>

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 244/2009 (L 76/3) and 245/2009 (L 76/17) are fulfilled.

Date / Signature(s) / Stamp

6. Performance sheet Low Voltage Halogen Lamps, Alternative B (comprehensive procedure)

Company: _____

1.	Product Details	Must	Target
1.1.	Title of product: _____		
1.2.	Voltage: _____ V	<input type="checkbox"/>	
1.3.	Lamp shape: _____		
	<input type="checkbox"/> Reflector <input type="checkbox"/> Non-Reflector	<input type="checkbox"/>	
1.4.	Type of socket: _____	<input type="checkbox"/>	
1.5.	Length: _____ mm	<input type="checkbox"/>	
1.6.	Diameter: _____ mm	<input type="checkbox"/>	
1.7.	Colour temperature: _____ K	<input type="checkbox"/>	
1.8.	Brightness		
	Illumination for Reflector lamps: _____ cd	<input type="checkbox"/>	
	Luminous flux for non reflector lamps: _____ lm	<input type="checkbox"/>	
2. Quality			
2.1.	Colour Rendering Index (CRI)		
	CRI \geq 90	<input type="checkbox"/>	
2.2.	Durability		
	\geq 2,000 hours	<input type="checkbox"/>	
	\geq 4,000 hours		<input type="checkbox"/> 60
2.3.	Switch on/off cycle		
	> 20,000		<input type="checkbox"/> 35
3. Energy Consumption			
3.1.	Power input: _____ W	<input type="checkbox"/>	
3.2.	Infrared Coating Technology		
	IRC/ES-technology	<input type="checkbox"/>	

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4. Environmental Criteria			
4.1.	Recyclable packaging > 65 %		<input type="checkbox"/> 5
All must criteria are fulfilled?			<input type="checkbox"/>
Total points achieved by target criteria			
Maximum achievable number of points			100

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 244/2009 (L 76/3) and 245/2009 (L 76/17) are fulfilled.

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7. Performance sheet High Pressure Sodium Lamps, Alternative A (simplified procedure)

Company: _____

1. Product Details		Must																								
1.1.	Title of product: _____																									
1.2.	dimmable	<input type="checkbox"/>																								
2. Quality																										
2.1.	Durability																									
	> 12,000 hours	<input type="checkbox"/>																								
2.2.	Lumen maintenance and Lamp survival factor																									
	<table border="1"> <thead> <tr> <th>Operating hours</th> <th>Lumen maintenance</th> <th>Lamp survival factor</th> </tr> </thead> <tbody> <tr> <td>12,000 (P ≤ 75 W)</td> <td>> 0.80</td> <td>> 0.9</td> </tr> <tr> <td>16,000 (P ≤ 75 W)</td> <td>>0.85</td> <td>>0.9</td> </tr> </tbody> </table>	Operating hours	Lumen maintenance	Lamp survival factor	12,000 (P ≤ 75 W)	> 0.80	> 0.9	16,000 (P ≤ 75 W)	>0.85	>0.9	<input type="checkbox"/>															
Operating hours	Lumen maintenance	Lamp survival factor																								
12,000 (P ≤ 75 W)	> 0.80	> 0.9																								
16,000 (P ≤ 75 W)	>0.85	>0.9																								
3. Energy Consumption																										
3.1.	Power input: _____ W	<input type="checkbox"/>																								
3.2.	Initial Efficacy: _____ lm/W	<input type="checkbox"/>																								
3.3.	Rated minimum efficacy values																									
	<table border="1"> <thead> <tr> <th rowspan="2">Nominal lamp wattage [W]</th> <th colspan="2">Rated lamp efficacy [lm/W]</th> </tr> <tr> <th>clear lamps</th> <th>not clear lamps</th> </tr> </thead> <tbody> <tr> <td>W ≤ 45</td> <td>≥ 60</td> <td>≥ 60</td> </tr> <tr> <td>45 W < W ≤ 55 W</td> <td>≥ 80</td> <td>≥ 70</td> </tr> <tr> <td>55 W < W ≤ 75 W</td> <td>≥ 90</td> <td>≥ 80</td> </tr> <tr> <td>75 W < W ≤ 105 W</td> <td>≥ 100</td> <td>≥ 95</td> </tr> <tr> <td>105 W < W ≤ 155 W</td> <td>≥ 110</td> <td>≥ 105</td> </tr> <tr> <td>155 W < W ≤ 255 W</td> <td>≥ 125</td> <td>≥ 115</td> </tr> </tbody> </table>	Nominal lamp wattage [W]	Rated lamp efficacy [lm/W]		clear lamps	not clear lamps	W ≤ 45	≥ 60	≥ 60	45 W < W ≤ 55 W	≥ 80	≥ 70	55 W < W ≤ 75 W	≥ 90	≥ 80	75 W < W ≤ 105 W	≥ 100	≥ 95	105 W < W ≤ 155 W	≥ 110	≥ 105	155 W < W ≤ 255 W	≥ 125	≥ 115	<input type="checkbox"/>	
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All must criteria are fulfilled?			<input type="checkbox"/>																							

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 245/2009 (L 76/17) are fulfilled.

Date / Signature(s) / Stamp

8. Performance sheet High Pressure Sodium Lamps, Alternative B (comprehensive procedure)

Company: _____

1.	Product Details	Must	Target																							
1.1.	Title of product: _____																									
1.2.	dimmable	<input type="checkbox"/>																								
2.	Quality																									
2.1.	Durability																									
	≥ 12,000 hours	<input type="checkbox"/>																								
	≥ 24,000 hours		<input type="checkbox"/> 40																							
2.2.	Lumen maintenance and Lamp survival factor																									
	<table border="1"> <thead> <tr> <th>Operating hours</th> <th>Lumen maintenance</th> <th>Lamp survival factor</th> </tr> </thead> <tbody> <tr> <td>12,000 (P ≤ 75 W)</td> <td>> 0.80</td> <td>> 0.9</td> </tr> <tr> <td>16,000 (P ≤ 75 W)</td> <td>>0.85</td> <td>>0.9</td> </tr> </tbody> </table>	Operating hours	Lumen maintenance	Lamp survival factor	12,000 (P ≤ 75 W)	> 0.80	> 0.9	16,000 (P ≤ 75 W)	>0.85	>0.9	<input type="checkbox"/>															
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12,000 (P ≤ 75 W)	> 0.80	> 0.9																								
16,000 (P ≤ 75 W)	>0.85	>0.9																								
3.	Energy Consumption																									
3.1.	Power input: _____ W	<input type="checkbox"/>																								
3.2.	Initial Efficacy: _____ lm/W	<input type="checkbox"/>																								
3.3.	Rated minimum efficacy values																									
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75 W < W ≤ 105 W	≥ 100	≥ 95																								
105 W < W ≤ 155 W	≥ 110	≥ 105																								
155 W < W ≤ 255 W	≥ 125	≥ 115																								

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3.4.	Indicative rated efficacy and performance values			
	Nominal lamp wattage [W]	Rated lamp efficacy [lm/W]		<input type="checkbox"/> 40
	$W \leq 55$	≥ 88		
	$55 < W \leq 75$	≥ 91		
	$75 < W \leq 105$	≥ 107		
	$105 < W \leq 155$	≥ 110		
	$155 < W \leq 255$	≥ 128		
	$255 < W \leq 405$	≥ 138		
4.	Environmental Criteria		<input type="checkbox"/>	
4.1.	Recyclable packaging > 65%			<input type="checkbox"/> 5
4.2.	Mercury content < 12 mg			<input type="checkbox"/> 15
All must criteria are fulfilled?			<input type="checkbox"/>	
Total points achieved by target criteria				—
Maximum achievable number of points				100

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 245/2009 (L 76/17) are fulfilled.

 Date / Signature(s) / Stamp

9. Performance sheet Electronic Ballasts for Fluorescent Lamps, Alternative A (simplified procedure)

Company: _____

1.	Product Details	Must
1.1.	Title of product: _____	
1.2.	Input Voltage Range: _____ V (220 – 240 V)	<input type="checkbox"/>
2.	Quality	
2.1.	Lamp Start Time: < 2 sec.	<input type="checkbox"/>
2.2.	Warm start	<input type="checkbox"/>
2.2.	Ballast lumen factor (BLF)	
	<input type="checkbox"/> 0.97 for T 8/26mm lamps <input type="checkbox"/> 1 for T5/16mm lamps <small>(According to EN 60929)</small>	<input type="checkbox"/>
2.4.	Durability	
	≥ 50,000 hours (max. malfunction 10 % at Tc max.)	<input type="checkbox"/>
3.	Energy Consumption	
3.1.	Ballast category and maximum input power of ballast- lamp circuits <input type="checkbox"/> A1 electronic ballasts, dimmable <input type="checkbox"/> A2 electronic ballasts with reduced losses <small>(According to European Parliament Directive 2000/55/EC)</small>	<input type="checkbox"/>
3.2.	Energy efficiency index requirements for <u>non-dimmable</u> ballasts	
	requirements according to Commission Regulation 245/2009 (L 76/17), table 17 and 18 are fulfilled	<input type="checkbox"/>

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3.3.	Energy efficiency index requirements for <u>dimnable</u> ballasts			
	complied class at 100 % lumen output	energy efficiency index of dimmable ballast		<input type="checkbox"/>
	A3	A1		
	A2	A1 BAT		
All must criteria are fulfilled?				<input type="checkbox"/>

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 245/2009 (L 76/17) are fulfilled.

Date / Signature(s) / Stamp

10. Performance sheet Electronic Ballasts for Fluorescent Lamps, Alternative B (comprehensive procedure)

Company: _____

1.	Product Details	Must	Target
1.1.	Title of product: _____		
1.2.	Input Voltage Range: _____ V (220 – 240 V)	<input type="checkbox"/>	
2. Quality			
	Lamp Start Time: < 2 sec.	<input type="checkbox"/>	
	Power Factor: > 0.95	<input type="checkbox"/>	
	Warm Start	<input type="checkbox"/>	
2.1.	Dimmability		
	Ballast can be used with day light control and presence sensors		<input type="checkbox"/> 50
2.2.	Ballast lumen factor (BLF)		
	<input type="checkbox"/> 0.97 for T 8/26mm lamps <input type="checkbox"/> 1 for T5/16mm lamps (According to EN 60929)	<input type="checkbox"/>	
2.3.	Luminous flux change		
	+ /- 10 % voltage variations leads to max. + /- 2 % Luminous flux change		<input type="checkbox"/> 50
2.4.	Durability		
	≥ 50,000 hours (max. malfunction 10 % at Tc max.)	<input type="checkbox"/>	
3. Energy Consumption			
3.1.	Ballast category and maximum input power of ballast- lamp circuits <input type="checkbox"/> A1 ballast, dimmable <input type="checkbox"/> A2 ballast with reduced losses (According to European Parliament Directive 2000/55/EC)	<input type="checkbox"/>	
3.2.	Energy efficiency index requirements for non-dimmable ballasts		
	requirements according to Commission Regulation 245/2009 (L 76/17), table 17 and 18 are fulfilled	<input type="checkbox"/>	

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3.3.	Energy efficiency index requirements for dimmable ballasts			
	complied class at 100 % lumen output	energy efficiency index of dimmable ballast	<input type="checkbox"/>	
	A3	A1		
	A2	A1 BAT		
All must criteria are fulfilled?			<input type="checkbox"/>	
Total points achieved by target criteria				_____
Maximum achievable number of points				100

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulations 245/2009 (L 76/17) are fulfilled.

Date / Signature(s) / Stamp

11. Performance sheet for ballasts for high intensity discharge lamps, Alternative A (simplified procedure)

Company: _____

1.	Product Details	Must												
1.1.	Title of product: _____													
1.2.	Power factor (PF): _____	<input type="checkbox"/>												
1.3.	Input Voltage Range: _____ V (220 – 240 V)	<input type="checkbox"/>												
1.4.	Compatibility with lamp type: _____	<input type="checkbox"/>												
1.5.	Durability: _____ hrs	<input type="checkbox"/>												
2.	Energy Consumption													
2.1.	Ballast category and maximum input power of ballast- lamp circuits <input type="checkbox"/> A1 ballast, dimmable <input type="checkbox"/> A2 ballast with reduced losses <small>(According to European Parliament Directive 2000/55/EC)</small>	<input type="checkbox"/>												
3.	Energy Efficiency													
3.1.	Minimum efficiency													
	<table border="1"> <thead> <tr> <th>nominal lamp wattage (P) [W]</th> <th>minimum ballast efficiency ($\eta_{ballast}$) [%]</th> </tr> </thead> <tbody> <tr> <td>$P \leq 30$</td> <td>65</td> </tr> <tr> <td>$30 < P \leq 75$</td> <td>75</td> </tr> <tr> <td>$75 < P \leq 105$</td> <td>80</td> </tr> <tr> <td>$105 < P \leq 405$</td> <td>85</td> </tr> <tr> <td>$P > 405$</td> <td>90</td> </tr> </tbody> </table>	nominal lamp wattage (P) [W]	minimum ballast efficiency ($\eta_{ballast}$) [%]	$P \leq 30$	65	$30 < P \leq 75$	75	$75 < P \leq 105$	80	$105 < P \leq 405$	85	$P > 405$	90	<input type="checkbox"/>
nominal lamp wattage (P) [W]	minimum ballast efficiency ($\eta_{ballast}$) [%]													
$P \leq 30$	65													
$30 < P \leq 75$	75													
$75 < P \leq 105$	80													
$105 < P \leq 405$	85													
$P > 405$	90													
4.	Environmental Criteria													
4.1	easily dismantlable	<input type="checkbox"/>												
All must criteria are fulfilled?		<input type="checkbox"/>												

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulation 245/2009 (L 76/17) are fulfilled.

We are aware that incorrect or missing details can lead to the exclusion from the tender process.

Date / Signature(s) / Stamp

12. Performance sheet for ballasts for high intensity discharge lamps, Alternative B (comprehensive procedure)

Company: _____

1. Product Details		Must	Target																				
1.1.	Title of product: _____																						
1.2.	Power factor (PF): _____	<input type="checkbox"/>																					
1.3.	Input Voltage Range: _____ V (220 – 240 V)	<input type="checkbox"/>																					
1.4.	Compatibility with the lamp type: _____	<input type="checkbox"/>																					
1.5.	Durability: _____ hrs	<input type="checkbox"/>																					
2. Energy Consumption																							
2.1.	Ballast category and maximum input power of ballast- lamp circuits <input type="checkbox"/> A1 ballast, dimmable <input type="checkbox"/> A2 ballast with reduced losses <small>(According to European Parliament Directive 2000/55/EC)</small>	<input type="checkbox"/>																					
3. Energy Efficiency																							
3.1.	Minimum efficiency																						
	<table border="1"> <thead> <tr> <th rowspan="2">nominal lamp wattage (P) [W]</th> <th colspan="2">minimum ballast efficiency ($\eta_{ballast}$) [%]</th> </tr> <tr> <th>must</th> <th>target</th> </tr> </thead> <tbody> <tr> <td>$P \leq 30$</td> <td>65</td> <td>78</td> </tr> <tr> <td>$30 < P \leq 75$</td> <td>75</td> <td>85</td> </tr> <tr> <td>$75 < P \leq 105$</td> <td>80</td> <td>87</td> </tr> <tr> <td>$105 < P \leq 405$</td> <td>85</td> <td>90</td> </tr> <tr> <td>$P > 405$</td> <td>90</td> <td>92</td> </tr> </tbody> </table>	nominal lamp wattage (P) [W]	minimum ballast efficiency ($\eta_{ballast}$) [%]		must	target	$P \leq 30$	65	78	$30 < P \leq 75$	75	85	$75 < P \leq 105$	80	87	$105 < P \leq 405$	85	90	$P > 405$	90	92	<input type="checkbox"/>	<input type="checkbox"/> 60
nominal lamp wattage (P) [W]	minimum ballast efficiency ($\eta_{ballast}$) [%]																						
	must	target																					
$P \leq 30$	65	78																					
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$105 < P \leq 405$	85	90																					
$P > 405$	90	92																					

Performance sheets for product group: Lighting

4. Environmental Criteria			
4.1.	easily dismountable	<input type="checkbox"/>	
4.2.	Replacement of some parts		<input type="checkbox"/> 40
All must criteria are fulfilled?		<input type="checkbox"/>	
Total points achieved by target criteria			
Maximum achievable number of points			100

We hereby confirm the correctness and completeness of the details.

The requirements according to Commission Regulation 245/2009 (L 76/17) are fulfilled.

Date / Signature(s) / Stamp