

Additional information 14.4.2015

Tender document point 23.

We have discovered some minor errors in point 23 in the tender document. A new version of this text is included in this document. The information in this document shall prevail over point 23 in the tender document published March 17th 2015.

23. Award criteria

The contract will be awarded on the basis of the most economically advantageous tender, based on the following criteria:

Lot 1 - Opaque envelope / external wall

CRITERIA / WEIGHT	SUBCRITERIA / WEIGHT	TYPE/ DOCUMENTATION	EVALUATION
Energy efficiency 30 %	Value of the thermal transmittance (u-value) 15 %	MATH FORMULA/ <i>Lambda value for all parts of the wall. Statement of U-value for the entire wall.</i> <u>Related documentation</u> For the evaluation and justification of current points, bid has to include: <ul style="list-style-type: none">- Declaration of energy efficiency related values- Documentation to justify declared values for thermal conductivity (λ) and/or thermal transmittance (U). This documentation could include:<ul style="list-style-type: none">o Independent certified laboratory test reportso Certification of Thermal Transmittance value by an accredited third party(Commercial brochures will be not be accepted as justification without laboratory certifications)	Lowest value best. U-value of 0,12 = 0 points. U-value of 0,0 = 10 points. Best bid is awarded 10 points. Other bids are adjusted accordingly.

	<p>Thermal bridges</p> <p>15 %</p>	<p>JUDGMENT VALUE/ <i>Drawing of section of critical joints for thermal bridges with description 1:20</i></p> <p>This criteria aims to evaluate the proposed solution for reducing thermal bridges.</p> <p>In order to justify this criteria, the bid has to include a detailed description of the proposed solution accompanied with a section drawing 1:20, regarding the reduction of thermal bridges. It is also recommended to include the calculation of the linear thermal transmittance coefficient (ψ) (extra heat losses along a unit length of a thermal bridge (the length of the edge: corner, joint, column, window perimeter), at a unit temperature difference and in a unit time.</p> <p>Bidders have to describe the proposed solution for avoiding following thermal bridges at least:</p> <ul style="list-style-type: none"> - Slab edges - Columns in façade - Junctions with windows (including frame, windowsill and window ledges,...) - Particular joints in case of modular façades - Possible mechanical fasteners penetrating an insulation layer 	<p>Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.</p>
<p>Sustainability</p> <p>10 %</p>	<p>CO₂-equivalent value</p> <p>10 %</p>	<p>MATH FORMULA / <i>EPD</i></p> <p>The aim of this criteria is to assess the environmental impact of the solution by means of the embodied carbon rate. This value represents the carbon released during the product's lifecycle from cradle to gate. Operational impacts are excluded. The parameter has to be specify as "Cradle to Gate", which includes all carbon until the product leaves the factory gate.</p> <p>As occurs for the evaluation of the thermal transmittance coefficient, the parameter under evaluation in this section is the embodied carbon rate not only of one particular material, but also of the proposed complete solution for external walls. Therefore, it is required to declare the embodied</p>	<p>Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.</p>

		<p>carbon rate for each of the layers which will form the façade. The value to be considered for awarding will be the sum of the carbon rates for all layers.</p> <p><u>Related documentation</u></p> <p>For the evaluation and justification of current points, bid has to include:</p> <ul style="list-style-type: none"> - Declaration of embodied carbon rate - Documentation to justify declared values. This documentation could include the “Environmental Product Declaration” given by a third party (EPD) or a Life cycle Analysis performed under ISO 14025 and/or EN 15804: 2012 	
<p>Installation, maintenance and others</p> <p>30 %</p>	<p>Reduction of thickness</p> <p>20 %</p>	<p>MATH FORMULA/ Wall thickness in mm.</p> <p>Reduction of thickness of the proposed solution for the opaque envelope or wall involves an important increase in net floor area of the building, while still achieving good thermal performance.</p> <p>The aim of this criterion is to award the thickness reduction of the envelope elements of the building.</p>	<p>Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.</p>
	<p>Installation process and method</p> <p>10 %</p>	<p>JUDGMENT VALUE/ Drawing of section of wall 1:20 with description. Description of installation process and method.</p> <p><u>Description</u></p> <p>Even though the installation of the proposed solution may not be part of the object of this contract, installation description will be considered in order to award these points. Simplest installation process and methodology will be valued with the highest rated.</p> <p>Bidders will include the description of the installation process in the technical document in the following</p>	<p>The most efficient installation process will be awarded 10 points. Other bids are awarded points relative to the best bid.</p>

		<p>terms:</p> <ul style="list-style-type: none"> - Need of special skilled labor to proceed with the installation of the proposed solution. - Timing requirements for installation. - Need of special weather conditions that could affect to the programmed schedules of installation or to the final quality of the product. - Required auxiliary tools and machinery <p><u>Related documentation</u></p> <ul style="list-style-type: none"> - Description containing: <ul style="list-style-type: none"> o Detailed description of the installation process including timing, special skilled labor, auxiliary tools o Detailed drawings 	
<p>Economic criteria</p> <p>30 %</p>	<p>Purchase Cost</p>	<p>MATH FORMULA / Price form</p>	<p>Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.</p>

Lot 2 - Windows:

CRITERIA / WEIGHT	SUBCRITERIA / WEIGHT	TYPE/ DOCUMENTATION	EVALUATION
Energy efficiency 40%	Capacity of window to reduce solar gains in summer and increasing solar gains in winter 25 %	JUDGMENT VALUE/ Description of the properties of the window + demonstration of the window for the evaluation board.	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
	Value of the thermal transmittance (u-value) 15 %	MATH FORMULA/ Product declaration (DoP) stating the U-values for the window, glazing and the frame for the specified reference windows.	Lowest value best. U-value of 0,8 = 0 points. U-value of 0,0 = 10 points. Best bid is awarded 10 points. Other bids are adjusted accordingly.
Sustainability 10 %	CO ₂ -equivalent value 10 %	MATH FORMULA/ Environmental Product Declaration (EPD)	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
Installation, maintenance and others 20 %	Maintenance requirements 10 %	JUDGMENT VALUE/ Description of the maintenance needs for the window. Drawing of the build-up of the frame. Description of how water is drained from the frame.	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
	Lifetime 10 %	MATH FORMULA/ EPD	highest value best. Maximum 100 years, minimum 25 years. Best bid is awarded 10 points, others are adjustet accordingly.

Economic criteria	Purchase Cost	MATH FORMULA/ Price form.	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
30 %	30 %		

Lot 3 - Internal partition:

CRITERIA / WEIGHT	SUBCRITERIA / WEIGHT	TYPE/ DOCUMENTATION	EVALUATION
Esthetics		JUDGMENT VALUE/ Description of wall, illustrations, pictures.	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
Sustainability	CO ₂ -equivalent value	MATH FORMULA/ EPD	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
10 %	10 %		
Maintenance	Cleaning requirements	JUDGMENT VALUE/ Description of process and need for cleaning	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
	5 %		
	Maintenance requirements	JUDGMENT VALUE/ Description and intervalls for maintenance	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
	5 %		
Functionality and flexibility	Noise reduction factor	MATH FORMULA/ Statement	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
	15 %		
	Installation	JUDGMENT VALUE/ Description of installation process. Drawing of section of partition including joints. 1:20	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.
10 %			
	Thickness	MATH FORMULA/ Statement. Drawing of	Best bid is awarded 10 points. Other bids
			10 points. Other bids

	15 %	section of partition with description	are awarded points relative to the best bid.
Economic criteria 30 %	Purchase Cost 30 %	MATH FORMULA/ Price form	Best bid is awarded 10 points. Other bids are awarded points relative to the best bid.

The contracting authority reserves the right to reject abnormally low tenders in accordance with article 55 of directive 2004/18, and Forskrift om offentlige anskaffelser § 20-14.