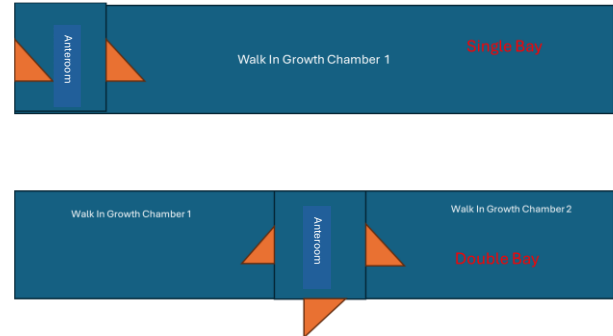


**SUPPLIER Q&A LOG ISSUE 1 (07/12/24) – INTERESTED SUPPLIERS TO NOTE & TAKE ACCOUNT IN THEIR QUOTE.**

	SUPPLIER QUESTION	FOREST RESEARCH RESPONSE
0	In your RFQ, the specified requirements are challenging in some areas and lacking detail or perhaps incomplete in others, which does not make it straightforward to identify and price a suitable solution.	Our requirements are generally within established, standard ranges for growth chambers/growing rooms used for the purposes we described, and we would consider any technical proposals and options you may be able to offer that potentially are able to satisfy the need to have the units on site before 1 April 2025
1	Size: External dimensions of 4m x 12m x 2.35m (L x W x H) each unit.  Can we quote to provide units with the same overall m <sup>2</sup> footprint but with different dimensions/shape?	No. Due to the likely locations for siting of these units, FR requires the stated dimensions (or very close to them).
2	1 single bay unit, 1 double bay unit.  Could you clarify the definition of bay?	<p>A bay would be a single walk-in growth chamber within the external shell/container. A double bay unit would be two independent walk-in growth chambers within an external shell/container. Indicative layout sketch below.</p> 

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	<b>SUPPLIER QUESTION</b>	<b>FOREST RESEARCH RESPONSE</b>
3	<p>Delivery Date 31 March 2025 latest.</p> <p>Delivery of major structure/building elements and some components &amp; equipment is achievable by 31 March but other components on longer lead times would not be delivered and installed until after 31 March. Would this be acceptable?</p>	<p>A key date is 31 March 2025, this being the end of FR's Financial Year. Delivery of the main structures/housing before 1 April 25 and the amount of components that could be on site by that time (and the amount of work remaining to be done after 31 March) would be a significant factor in determining the acceptability of your proposal.</p>
4	<p>Temperature range -5°C to 40°C (controlled).</p> <p>Is this temp range with lights on and off?</p>	<p>This temperature range will need to be required for both lights on and off due to the requirements of the experiment.</p> <p>However, as an alternative to the specified low temperature requirement, would you also be able to quote for a system with a temperature range of <b>5°C to 40°C</b></p>
5	<p>Lighting 200-500 lux.</p> <p>Could the specification light intensity be verified?</p>	<p>The range should have been specified as 200 - 2000 micromoles/m<sup>2</sup>/s</p>
6	<p>Our new plant growth rooms are fitted with broad spectrum LED (manufactured specifically for plant growth research). Is this acceptable?</p>	<p>Yes</p>

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	<b>SUPPLIER QUESTION</b>	<b>FOREST RESEARCH RESPONSE</b>
7	Humidity 0 - 100%  This would not be achievable (at the lower and upper ends of the range) within a more general use growth room.	A humidity range from 20% to 80% would be desirable, if it was possible. If not, please quote for what is achievable.
8	Foggers.  What is required?	Humidity fogging can be created with plug in foggers, which would require waterproof electrical sockets
9	Growth Room Air changes.  Typically we allow for anything from 3-5 air changes per hour - would that be acceptable to you?	Yes
10	CO <sub>2</sub> Control  What is required?	Able to produce/maintain and control 200ppm-600ppm of CO <sub>2</sub>
11	When you state irrigation, please can you clarify whether you will be using your own irrigation system and we just need to supply means to connect it to our control system or do you need a fully functioning irrigation system to be included within our bid?	A fully functioning irrigation system is in scope and required as part of the proposal quoted
12	Do you have a specific light supplier/ manufacturer you would like to use?	No

RFQ CR2024/25/061 Supply of two portable/relocatable, external, weather-resistant, growth chambers for plants/saplings.

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	SUPPLIER QUESTION	FOREST RESEARCH RESPONSE
13	Would you accept a chamber being supplied within a weather-proof container?	In principle, we would not discount that solution