



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
PUNE

CLARIFICATION ON TENDER NUMBER - IISER-PUR-0984-14

ITEM DESCRIPTION- PROCUREMENT OF 4 PORT GLOVE BOX FOR METAL ION BATTERY

Refer our Press Tender Notice No.IISER/S&P/8/14 dated 10.11.2014 for procurement of 4 Port Glove Box For Metal Ion Battery. Tender Reference Number - IISER-PUR-0984-14.

Pre-Bid meeting was held on November 19th, 2014 at 10.30 AM and minutes of meeting is as under.

At the outset, the Chairman welcomed all the Members and the representative of the Prospective Bidders and briefed in general the scope of the Project and thereafter requested Assistant Registrar (S&P) to brief the vendors on the salient features of the commercial terms and the indenting Officer to read out the clarification sought by the Prospective Bidders and replied thereto as detailed in Annexure -II

The representatives present were satisfied with the replies given and it was informed that the corrections / additions / clarifications given, as discussed during the Pre-Bid Conference would be hosted on the website of IISER Pune and all the Prospective Bidders are required to take cognizance of the proceedings of the Pre-Bid Conference before submitting their bids as stipulated in the Bidding Documents.

The other terms & conditions of the notice issued on our IISER website [www.iiserpune.ac .in](http://www.iiserpune.ac.in) will remain unchanged. No more correspondence in this regard will be entertained

The meeting ended with vote of thanks to the Chair

19.11.2014

Sd/-
Assistant Registrar (S&P)



IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF 4 PORT GLOVE BOX FOR METAL ION BATTERY RESEARCH

TECHNICAL QUERIES AND CLARIFICATION

TENDER NUMBER - IISER-PUR-0984-14

DATE : 19.11.14

S.No	Query/Clarification Sought	Clarification / Amendment
1	<p>Chapter 4; Page 23</p> <p>Application of user for use of 4 port glove box</p>	<p>Chapter 4; Page 23</p> <p>This is mainly for non-aqueous metal-ion battery research and it involves the use of a variety of non-aqueous solvents and electrolytes. Since the glove box will be used for assembling and disassembling of several batteries on a routine basis there exists chances for glove box interiors to be in touch with a variety of solvents (DMSO, EC, PC, TEGDME etc.), chemicals (LiPF₆, LiClO₄, Li triflate, Li metal etc.) and side reaction products (for eg. HF and the Li analogues). Most of the battery solvents, chemicals and side reaction products are corrosive (may create oxidizing</p>

		and reducing atmosphere). Therefore to protect the glove box interiors from these chemicals, electrolytes, solvents and side reaction products, suitable and long lasting chemical and abrasion resistant coatings should be provided
2	<p>Chapter 4; Page 23</p> <p>Regarding the "4 port glove box". Is it 2 pairs or 4 pairs of glove ports?</p>	<p>Chapter 4; Page 23</p> <p>It is a 4 port glove box with 4 gloves (2 pairs of glove ports)</p>
3	<p>Chapter 4; Page 23</p> <p>Since it is a dual width glove box whether the main antechamber needs to be at one end or between the two chambers?</p>	<p>Chapter 4; Page 23</p> <p>It can be either at one end of the box or between the two chambers</p>
4	<p>Chapter 4; Page 23</p> <p>Synthesis work will be carried out inside glove box?</p>	<p>Chapter 4; Page 23</p> <p>No synthesis work will be carried out. However the glove box will be used for assembling and disassembling of several batteries on a routine basis. Therefore there exists chances for glove box interiors to be in touch with a variety of solvents (DMSO, EC, PC, TEGDME etc.), chemicals (LiPF₆, LiClO₄, Li triflate, Li meta etc.) and side reaction products (for eg. HF and the Li analogues). Most of the battery solvents, chemicals and side reaction products are corrosive (may create oxidizing and reducing atmosphere). Therefore to protect the glove box interiors from these chemicals, electrolytes, solvents and side reaction products, suitable and long lasting chemical and abrasion resistant coatings should be provided</p>

5	<p>Chapter 4; Page 23</p> <p>Regarding "special protection layer for chemical and abrasion resistance."</p>	<p>Chapter 4; Page 23</p> <p>Glove box will be used for device fabrication and it involves corrosive chemicals and electrolytes. Since the glove box will be used for assembling and disassembling of several batteries on a routine basis there exists chances for glove box interiors to be in touch with a variety of solvents (DMSO, EC, PC, TEGDME etc.), chemicals (LiPF₆, LiClO₄, Li triflate, Li metal etc.) and side reaction products (for eg. HF and the Li analogues) and most of them are corrosive. Therefore to protect the glove box interiors from these chemicals, electrolytes, solvents and side reaction products, suitable and long lasting chemical and abrasion resistant coatings should be provided.</p> <p>Tender specification prevails.</p>
6	<p>Chapter 4; Page 23</p> <p>Regarding the "pressure range to be between -15 mbar to +15 mbar."</p>	<p>Chapter 4; Page 23</p> <p>Most of the battery chemicals and solvents are toxic and therefore operators safety demands maximum pressure ranges possible</p> <p>Tender specification prevails.</p>
7	<p>Chapter 4; Page 23</p> <p>Regarding the "attainable purity of moisture (<1ppm) and oxygen (<1ppm) at complete pressure ranges." Can it be increased?</p>	<p>Chapter 4; Page 23</p> <p>This has been changed to 1ppm</p>
8	<p>Chapter 4; Page 24</p>	<p>Chapter 4; Page 24</p>

	Regarding the "suitable banana connectors mounted on side walls for three and two electrode cells." Will 8 connectors satisfy the requirement?	Considering a three electrode device 12 connectors (for each cell 3) should be supplied for the 4 cells mentioned in the specifications. Optional: Options to connect 6 cells simultaneously
9	Chapter 4; Page 24 Regarding the "power plug connections." How many should be made available?	Chapter 4; Page 24 Minimum 2 should be available.
10	Chapter 4; Page 24 Regarding the "integrated blower, Flow rate between 85 to 100 m ³ /h."	Chapter 4; Page 24 Since it is a 4 port glove box maximum purification rate should be available and it demands a minimum blower speed of 85 m ³ /h Tender specification prevails.
11	Chapter 4; Page 23 and 24 Regarding the "vibration free table for balance, antistatic gun, cleaning kit, repair kit and heat exchanger"	Chapter 4; Page 23 and 24 Amendment: Items such as antistatic gun for the balance, repair kits and cleaning kits should be supplied and to be part in commercial bid. The other items are included in the optional items Items in the optional are 1) Heat exchanger 2) Vibration free plane for balance



IISER PUNE

PRE-BID CONFERENCE FOR PROCUREMENT OF 4 PORT GLOVE BOX FOR METAL ION BATTERY RESEARCH**COMMERCIAL QUERIES AND CLARIFICATION**

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DATE : 19.11.14

S.No	Query/Clarification Sought	Clarification / Amendment
	-----NIL-----	-----NIL-----