**Department of Physics, Indian Institute of Technology**

**IIT.P.O. Madras-600 036**

Ref. No. Date: 14 / 04 / 2017

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| **PHY** | **2017** | **014** | **STORES** |

To Whom It May Concern:

Dear Sir,  **Due date: 30 / 04 / 2017**

Please find below the specification of *MCP Detector with Phosphor (P-47) Screen* we require for purchase. Kindly send us a quotation by the due date mentioned above.

Minimum specification for **MCP Detector with Phosphor (P-47) Screen**

(Quantity 1 – 5 nos. please quote unit price):

|  |  |  |
| --- | --- | --- |
| **MCP Detector with Phosphor (P-47) Screen and pulse** | | |
| **S. No.** | **Parameter** | **Value** |
| 1 | Active area | 40mm or more encapsulated MCP chevron stack |
| 2 | Configuration | Phosphor screen P47 on a CF100 flange with electrical feed throughs for HV supply |
|  |  | active MPC area: 45 mm in diameter or greater, |
|  |  | pore size: 12 μm or smaller, |
|  |  | center-to-center spacing: 15 μm or lesser, |
|  |  | open area ratio: > 60%, |
|  |  | aspect ratio: 40:1, |
|  |  | quality level: image quality, |
|  |  |  |
| 3 | Phosphor type | P-47 on glass substrate |
| 4 | Decay time | 1 ms (90% -10%) |
| 5 | Emitted wavelength range | green (max. @ 545 nm) |
| 6 | Supply | SHV 5 feed through for MCP back supply, |
|  |  | SHV 10 feed through for screen supply, |
|  |  | MCP front potential can be applied separately |
|  |  | via a second SHV 5 feed through, |
| 7 | Viewport | Integrated in flange, |
|  |  | protection housing for the transport under vacuum |
|  |  |  |

**Accessories required**

The vendor is required to quote the following accessories which are compatible with the above instrument mentioned for purchase together and *will be* used for price comparison.

|  |  |  |
| --- | --- | --- |
| **Pulse decoupling box and cable set including:** | | |
| **Sr. No** | **Parameter** | **Value** |
| 1 | No. of Pulse decoupling box | 5 pcs. |
| 2 | SHV cable length | 0.25m length for connection to Ph\_screen detector ( 1pc.) |
|  |  | 5 m length for connection to HV supply (2 pcs.) |
| 3 | BNC cables length | 2 m length for connection to AMPL/CFD |

Please provide a clear warranty statement.

Please send the quotation (technical and price details) by email (signed and scanned) OR hard copy before the due date.

Please mark reference number on top of the quotation.

Yours Sincerely,

**Sivarama Krishnan**

**Co-ordinator**

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