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GOVERNMENT OF INDIA

**BHABHA ATOMIC RESEARCH CENTRE**  
**Radiological Physics and Advisory Division**

Ref: RPAD/MPS/2019/63780

4<sup>th</sup> April 2019

**Invitation of Quotation: Fabrication of the humanoid Brachytherapy Phantom for the dosimetry of intracavitary applications.**

**Brief Description**

The humanoid phantom will be made up of PMMA mould depicting average female pelvic region. It will have structure for bladder, rectum with option for holding dosimeters (TLDs of size 5x0.3 mm). The remaining portion will be filled with water.

Phantom will have module/holder to support the Fletcher suit applicator as well as bladder probe. The phantom will be based on ICRU 38 dosimetric recommendations. Hence, a rod having option to hold the TLD dosimeter to measure the dose at point A and B (as per their standard definition) will be needed. The phantom will also have option to measure the dose to bladder and rectum. For measuring Bladder dose a tissue equivalent ball simulating foley catheter with provision to keep TLDs need to be provided. This ball will be connected to a probe with the help of which it can be adjusted at desired location. For estimating rectum doses a cylinder with grooves to keep TLDs will be needed. One water inlet and water outlet will provided for filling and draining out the water from the phantom. Vendors may discuss with users for any clarification about understanding of phantom design. Vendors needs to get users approval on their final fabrication drawing before fabricating the phantom.

Place of Delivery : Room No. 403, CT&CRS, Anushaktinagar, Mumbai 400 094

Due Date : 22-04-2019

Please send your quotation for the above fabrication & supply in a sealed envelope superscribed "Quotation for Fabrication of the humanoid Brachytherapy Phantom for the dosimetry of intracavitary applications. Attention: Ankit Srivastava" so as to reach the undersigned on or before 15-04-2019. Rate(s) shall be typewritten only.

Please note that quotation should be on letter head/ quotation format and should have Good and Service Tax Identification number (GSTIN) and PAN number. The quotations should be delivered by registered post/ speed post through Indian Postal services.

*Datta*  
(D.Datta) 4/4/2019

डॉ. देवब्रत दत्ता / Dr. Debabrata Datta  
Head, RP&AD  
अध्यक्ष, आर.पी. एड एंड ए.डी./Head RP & AD  
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**Quotations should be addressed to:**

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