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Ref.: BARC/APPD/RC/2021/ 39 Date: 10/11/2021

Subject: Inviting quotations for design, fabrication and safe delivery of full 3D scale down model of trailer mounted Marx generator with Cassegrain dual reflector antenna depicting its operation mechanism and 3D animation of the complete system explaining operating principle and working mechanism with details as per Annexure-1.

Dear Sir,

You are requested to quote for design, fabrication and safe delivery of full 3D scale down model of trailer mounted Marx generator with Cassegrain dual reflector antenna depicting its operation mechanism and 3D animation of the complete system explaining operating principle and working mechanism with details as per Annexure-1

Terms & Conditions:

1) For any clarifications, the interested suppliers can contact Shri. Romesh Chandra, SO/D, APPD or Shri R. I. Bakhtsingh, Head-APPD, BARC on any working day (Monday to Friday) on telephone Nos.+91 22 2559 0172, +91 22 2559 2055 or email: *romesh@barc.gov.in* or *rib@barc.gov.in*.
2) Supplier should maintain the desired materials and quality of work. Failing to which may lead to rejection of job piece.
3) Vendor should not have any previous pending work in our division for which the material hasn't been supplied yet even after passing of delivery date by more than 6 months.
4) **Vendor will have to show some previous works carried out as a sample. After monitoring the existing models the final work order will be placed (For the new vendors they have to show the capability of carrying out job by making some small model for provided by us.).**
5) Payment for the above work will be made after satisfactory completion of job and **its inspection for quality** and on production of bill & advanced stamped receipt along with the copy of registration, GST declaration, IT return and declaration. No advance payment will be made for this work since ours is a Government organization. Income-tax @2% & GST TDS @2 % will be deducted from the bill and a TDS (tax deducted at source) certificate will be issued as per Income-tax rules.
6) Suppliers should submit their offers along with the following information.

(a) period of validity, terms & conditions of the offer, (b) Approximate period of completion of the task and (c) copy of the registration and income-tax clearance certificate and GST No., (d) your agreement with condition mentioned at Sr. no. 3. (e) your correct and working email ids for communication.

Additional Information:

Your sealed quotation (in your letter head) including all details, like taxes to be paid, transport charges etc., duly indicating our reference number mentioned, due date of quotations and **our reference no.** on the **envelope**, may be sent to "**APPD, Engg. Hall No.4, Trombay, MUMBAI-400085**", **on or before, 17th November 2021**. On the envelope you must write "**Kind Attention, Mr. Romesh Chandra**" for quick identification. It is requested that the tender must be sent by Speed-post only. The quotations received after the due date & by **FAX/email/courier** will not be considered.

Barat Bakhtsingh 10/11/21

(R. I. Bakhtsingh)
Head- APPD, BARC

आर.आई. बख्तसिंह / R. I. BAKHTSINGH
अध्यक्ष, त्वरक एवं स्पंद शक्ति प्रभाग
Head, Accelerator and Pulse Power Division
भाभा परमाणु अनुसंधान केंद्र / Bhabha Atomic Research Centre
ट्रॉम्बे मुंबई -400 085 / Trombay, Mumbai-400 085

Copy to: A.P.O., GSS Section, Central Complex, BARC.

Annexure-1

Details of full 3D scale down model of trailer mounted Marx generator with Cassegrain dual reflector antenna depicting its operation mechanism and 3D animation of the complete system explaining operating principle and working mechanism

1. Details of full 3D scale down model of trailer mounted Marx generator with Cassegrain dual reflector antenna depicting its operation mechanism

1.	Scale of Model	1:30
2.	Size of Model	App. 300 mm X 150 mm X 250 mm
3.	Model Base	The model shall be erected on borer proof plywood base with Sun Mica or equivalent laminate
4.	Model material	The major materials shall be clear transparent acrylic sheets of appropriate thickness. Other materials shall be durable and strong materials like plastics, styrene, PVC etc. All colours shall be as per the international codes or as directed. All gears shall be ABS or equivalent.
5.	Model Cover	A transparent acrylic/ poly carbonate curved sheet cover of appropriate thickness shall be provided to the model.
6.	Packing Box	Card board packing box shall be provided.
7.	Model Content	The model shall be suitably painted with spray paints as per the guidelines provided by us, The model shall show the following i) H. V. pulser unit with antenna ii) Control room iii) Diesel Generator. iv) Trailer v) The model will include the two movements of the antenna viz the horizontal and vertical planes. These movements shall be hand operated simple movements avoiding any complications. It may involve a ball socket arrangement or application with two separate movements. vi) The model shall have an easily removable acrylic cover for antenna operation. vii) The packing of model shall be in decorated thick presentable card board box

2. Details of 3D animation of the complete system explaining operating principle and working mechanism

1.	Animation	i)	Animated Presentation Duration : 3 Min.
		ii)	The scope of work would include: Development of 3D models for various components of **trailer mounted Marx generator with Cassegrain dual reflector antenna**.
		iii)	The script on the basis of input write up will provided. For this duration the final script will be within the A4 size page written in 11 font size.
		iv)	To visualize the functioning of the machine, depiction of the various usages of the machine has to be shown. The Audio / Visual 3D animated presentations should be provided to us in full HD resolution and in MP4 format, which should be compatible for PC, TV viewing, broadcast or web hosting. The animation shall be delivered on a DVD. The provision of displaying video will be provided by us.

Ramesh Chand