



सीएसआइआर- केन्द्रीय इलेक्ट्रॉनिकी अभियांत्रिकी अनुसंधान संस्थान

CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE

(विज्ञान तथा प्रौद्योगिकी मंत्रालय, भारत सरकार/MINISTRY OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA)

पिलानी - 333 031 (राज.) भारत PILANI - 333 031 (RAJASTHAN) INDIA

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REGISTERED POST

Tender No. 201/MLP-110/C.W./6-Pur/2017

Date: 15.12.2017

M/s.

SUB: REQUEST FOR INVITING QUOTATIONS/TENDER INDIGINEOUSLY.

Dear Sir,

Please send your quotation on e-procurement portal (<https://etenders.gov.in>) The tender will be opened on the specified date and time given below.

LAST DATE OF RECEIPT OF TENDERS: 01.01.2018 AT 2:30 P.M.

DATE OF OPENING: 02.01.2018 AT 3:30 P.M.

The goods will be supplied within 60 days from the date of our order.

S.NO.	NAME OF ARTICLE & BRIEF DESCRIPTION	Qty
1.	Micro EDM Drilling Machine. (Specifications attached) Note:1. Your quotation must be valid for 60 days from the date of tender opening, otherwise your quotation will not be considered at all. 2. Your quotation must be FOR, CEERI, Pilani including Packing, Freight and Insurance charges etc., otherwise your quotations will not be considered at all.	01 No.

NOTE:1. Please send your quotation on e-procurement portal well in time in accordance with the terms and conditions printed overleaf of this letter.

Yours faithfully,

STORES & PURCHASE OFFICER

TERMS & CONDITIONS

While submitting your quotation, the following terms and conditions may be taken care off-

1. The delayed/Late tenders will not be considered at all. Your quotation must be neat and clean duly signed by authorized signatories. No erasure or alteration must be appeared in the quotation.
2. **PRICES:** Your quotation must be indicated clearly whether your prices are FOR CSIR-CEERI, PILANI/FREE DELIVERY AT CSIR-CEERI, PILANI
 - A. In case of FOR CSIR-CEERI, Pilani, unloading will be done by CSIR-CEERI. Your prices must be inclusive of Packing, Forwarding, Freight, Insurance charges. You will be responsible for safe delivery at CSIR-CEERI, Pilani free of any extra charge.
 - B. The Blue Prints/Catalogue/Pamphlets/Technical Literature and Instruction Manual must be uploaded in pdf format along with your quotation.
 - C. In case of Price FOR, CSIR-CEERI, Unloading charges will be borne by supplier.
3. **GST:** The percentage of GST must be indicated clearly in your quotation.
4. **DELIVERY SCHEDULE:** The successful bidders are required to supply the goods within the prescribed delivery schedule from the date of our order. Please quote your delivery schedule clearly, failing which your quotation will not be considered.
5. **MODE OF DESPATCH:** Please quote mode of Delivery/mode of dispatch through one of the following:
 - A. BY PERSONAL DELIVERY AT CSIR-CEERI FREE OF CHARGE. B. BY ROAD TRANSPORT FREIGHT TO PAY OR PREPAID. C. BY PASSENGER TRAIN/GOODS TRAIN FREIGHT TO COLLECT OR PREPAID.
6. **INSURANCE:** The goods will be dispatched by you duly insured against all losses from your warehouse to CSIR-CEERI Warehouse. In case of FOR CSIR-CEERI the insurance charges will be to your account.
7. **PAYMENT:** The payment will be made within 30 days after receipt and acceptance of goods by CSIR-CEERI by RTGS. NO ADVANCE PAYMENT WILL BE MADE
8. **PENALTY:** In case the goods are not supplied within the specified delivery period, a penalty @ 0.5% of order value per week will be charged from the supplier.
9. **PRE-DISPATCH INSPECTION (PDI):** Pre-dispatch inspection will be carried out by CSIR-CEERI representative before dispatch at vendor's site. Training will be carried out by CSIR-CEERI representative at vendor's site at the time of pre-dispatch inspection.
10. **GUARANTEE/WARRANTEE:** The equipment/ goods must be guaranteed/warranted against all manufacturing defects for a period of 1 year after receipt of material at CSIR-CEERI, Pilani. In case the part thereof or whole equipment/goods is found defective, the same will have to be rectified/replaced on free of charge at CSIR-CEERI without laps of time. In case the goods is not repaired/replaced and deficits are not rectified and unnecessary the matter is delayed, the bank guarantee will be revoked without assigning any reason.
11. **Acceptance of order:** The acceptance of our order must be sent by successful bidder in writing within 15 days after receipt of our order.
12. All disputes arising out of this shall be referred to the sole arbitrator of CSIR-CEERI/CSIR and his award shall be final and binding on both the parties to the dispute. All suits in respect of this shall be in courts of Jaipur.
13. **The Director, CSIR-CEERI reserves the right to reject lowest quotation or any quotation or all the quotations or accept any quotation or part thereof without assigning any reason.**

STORES & PURCHASE OFFICER

Technical Specifications of Micro EDM Drilling

- 1) Hole to be drilled : Diameter 0.25 to 3.0 mm
- 2) Hole depth / diameter ratio : 100 or more for hole diameter 1 to 3 mm
20 or more for hole diameter 0.2 to 1 mm
- 3) Surface finish on drilled hole : 0.4 μm or better
- 4) Work table size (L X W) : 450 x 300 mm or more
- 5) Travel -X axis : 350 mm or more
- 6) Travel - Y axis : 200 mm or more
- 7) Travel - Z axis : 200 mm or more
- 8) Measuring system : High precision optical glass scale
- 9) X ,Y & Z axis feed rate(max) : 600 mm/min or more
- 10) Resolution of X,Y & Z axes : $\leq 0.1 \mu\text{m}$
- 11) Maximum work piece weight : 50 Kg or more on machine table
- 12) Maximum work piece height : 150 mm or more
- 13) Accuracies on Drilled Hole, for hole depth 1mm to 200 mm :
 - a) Hole roundness accuracy : $\leq 5 \mu\text{m}$
 - b) Concentricity of through hole
 - i) For job height ≤ 50 mm : $\leq 15 \mu\text{m}$
 - ii) For job height ≥ 50 and ≤ 200 mm : $\leq 30 \mu\text{m}$
 - c) Diameter accuracy : $\leq 5 \mu\text{m}$
 - d) Straightness of through hole
 - i) For job height ≤ 50 mm : $\leq 15 \mu\text{m}$
 - ii) For job height ≥ 50 and ≤ 200 mm : $\leq 30 \mu\text{m}$
- 14) Dielectric System
 - a) Type : Continuous circulation with filtration System and leak tight reservoir
 - b) Flushing : Internal flushing through rotating spindle
 - c) Dielectric used : Deionized water
 - d) Pressure of Dielectric oil : 70 bar or more
 - e) Capacity : 25 lit or more
 - f) Dielectric temperature control through heat exchanger : 15-200C
 - g) Filtration : Paper type and filtering capacity up to 1 micron
 - h) Die electric tank material : Stainless Steel (It should have corrosion resistance to Deionized water)
- 15) Power supply : AC 415 V \pm 10%, 50HZ \pm 5%, 3 Phase.

Accessories and Consumables:-

- 1) Work Piece Clamping System
- 2) Tubular Electrodes
(Size 0.25, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.5, 2.0, 2.5 & 3.0 mm) – 10 Pcs. each
- 3) Standard Guide Set
- 4) Electrode Holder
(For Tubular Electrode Size 0.25, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.5, 2.0, 2.5 & 3.0 mm)
- 5) Leveling Pad/Anti Vibrating Pad
- 6) Halogen Work Lamp
- 7) Filter Paper
- 8) Tools & Tool Box
- 9) Splash Guard
- 10) External Dielectric Tank
- 11) Ball Screws
- 12) Z Axis Digital Display
- 13) Both Brass & Copper Electrodes can be used
- 14) Flashing Nozzle
- 15) Booster
- 16) Operating Procedure & Maintenance Manual
- 17) TS Guide & Extension Guide