



**DEPARTMENT OF MECHANICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY ROPAR**

Nangal Road, RUPNAGAR-140001 (Punjab)

Dated: 12-5-2010

SUBJECT: N.I.Q. for purchase of welding machines

Quotations in sealed envelopes subscribing “Quotations for welding machines” are invited for the purchase of the following items. The equipments are to be installed at IIT Ropar (Roopnagar) Punjab, India. Delivery of the equipments shall be required within 1-2 months of placement of the purchase orders. The quotations should reach in the office of Head of Department/Dean (Academics), Mechanical Engineering Department latest by 3:00 PM on June 1, 2010. The firms are requested to send offers for Technical and Commercial bids separately.

Sr No	Equipment	Specifications (or better)	Quantity
1.	MIG Welding Machine	<ul style="list-style-type: none">• AC 400-420V, 50/60Hz, 25-27A, 15-20kW input power, Voltage adjusting range 15-45 A, Current adjusting range 20-400A• Digital display• Soft-start ignition• Adjustable arc force, crater current, crater voltage, welding current and welding voltage, alongwith facility to preset welding voltage and welding current• The system must have protective functions against overheat, over-current, under-voltage and power phase absence• The machine should provide a stable welding process with low spatter and good weld.• Should be suitable for all position welding of common low carbon steel, stainless steel, aluminum and its alloys, etc (please include a list of all weldable materials)• Include all standard accessories like power source, MIG torch, welding cable (10 m),	1

		earth lead (10 m) and wire feeder etc	
2.	Combined Arc and AC/ DC TIG Welding Machine	<ul style="list-style-type: none"> • Input voltage: 400-420V, 25-27A, welding current 20-315A • Preferably microprocessor control technology • Multi-functions such as AC Square wave TIG, DC pulse TIG, DC TIG and Spot TIG welding (please state clearly in quote) • Easy parameters set up and operation control facility (touch screen if possible) • Facility to store and recall the set parameters • Protective functions such as overheat, over-current and under-voltage, etc, • This power source should be useable for various kinds of metals including Al, Mg and their alloys (please include a complete list of weldable materials) • Standard accessories like electrode holder, earth clamp, TIG torch, welding cable (10 m) and earth lead (10 m) etc 	1

Terms and Conditions:

1. The equipments should be supplied and installed at IIT Ropar (ROOPNAGAR) Punjab, India
2. The prices quoted should be inclusive of all taxes and CIF IIT Ropar
3. The quotation received after due date will not be considered
4. The Institute reserves the right to reject any quotation without assigning any reasons
5. The suppliers MUST support the quoted specifications with the help of original printed manuals of the equipments
6. The payment terms should be specified in the quotation clearly
7. The suppliers may mention any number of optional accessories in their quotes; however the same should be clearly distinguished from the main requirements along with their individual prices and justification for their need
8. The suppliers should supply service and operational manuals of the systems.
9. EMD of Rs. 10000/- for each of the quoted equipment in the name of Registrar, IIT Ropar is to be deposited along with the quotation
10. The quotations MUST include a detailed compliance report vis-à-vis required specifications

11. The manufacturers should provide a performance guarantee certificate for all the specifications
12. Validity of the quotations should be at least three months.
13. Indian Agency Commission if any should be specified separately.
14. Manufacturer's agent should provide an authorization certificate from the Principles.

(Dr. Navin Kumar)

(Dr. Naga Ravi Kant)

(Dr. Harpreet Singh)