Tender Notification for **Development of a suitable additive manufacturing process by** selective laser sintering process (Last date for Submission of Tender : 15th July 2020)

Quotations may be sent by email to: dbanerjee@.iisc.ac.in

Dear Sir/Madam,

Kindly send your best quotation for the following item on CIF, Bangalore basis. Your quotation should reach us, duly signed on or before 1700hrs. 15th July 2020

ITEM	SPECIFICATION	Qty	Cost
Materials Chemistry Ni-12at% (5.54wt%) Al-11at% (17.6wt%) Zr	10 Kg max spherical powder in the size range 15-45 microns will be supplied by IISc		
	Process:		
	The development will be carried out in two parts	Part 1	
	1. Supplier shall use a portion of the powder for a design of experiments (DOE) approach to develop a process which produces builds that are crack free and with minimum porosity on a best effort basis. All samples made in these experiments will be returned to IISc for analysis of microstructure and other features. The supplier is free to determine the size and volume of material made in this DOE approach		
	2. With the best process as determined above, the balance of the powder supplied shall be used to produce builds for tensile testing as per ASTM E8 dimensions in a direction normal to build direction and along build direction. The number of samples that will be made for this purpose shall be indicated by the supplier but shall be at least two each in each direction. The supplier shall give these samples to IISc in the as printed condition for testing	Part 2	

Intellectual property rights

A detailed description of all process parameters including in the DOE will be provided by the supplier to IISc. Title to any IP shall be owned jointly by IISc and the supplier. The supplier and IISc may mutually determine if an IP application is to be filed. The supplier and IISc will sign an MOU in regard to all aspects of IPR before the supply order is placed.

Terms and Conditions:-

- 1. Supplier will indicate a time period required to carry out the Part 1 and Part 2 of development, as indicated above.
- 2. Supplier will provide a quotation in two parts for Part 1 and Part 2 of development process as indicated above.
- 3. IISc will retain the right to terminate the order after Part 1 is complete with full payment as agreed for part 1, if in its opinion the process developed by the supplier does not meet adequate quality of build in terms of cracks, porosity or microstructure.
- 4. The supplier will return all unused powder to IISc
- 5. Supplier may indicate his terms of payment
- 6. The Price bid must offer CIF Bangalore prices.
- 7. Order will be placed on lowest bid.

The Tender Documents can be sent at the following address:

Prof. Dipankar Banerjee Materials Engineering Department, Indian Institute of Science, Bangalore-560012