

TECHNICAL BID PROFORMA
Item Name: Hot Rolling Cylinder Press

1.0 Bidder Eligibility Criteria:

I	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			
2.0	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The bidder/OEM should have supplied at least 3 similar items to IITs, NITs, IISERs, CSIR Labs or other Govt. R&D organizations in the last 5 years, PO copies or installation certificates along with contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.			

3.0 Technical Compliance:

S.NO	Specifications	Complied/Not Complied	Ref.no
1.	Roller width should be at least 200 mm to roll at least 180 mm width		
2.	The cylinder diameter should be at least 90 mm or above		
3.	The rolling gap thickness should be adjustable between 0 and 8 mm		
4.	Dial Gauge Accuracy should be at least 0.015mm		
5.	Minimum thickness that can be rolled should be 0.02 mm or lower		
6.	The roller should have heating provisions with the following specifications		
	a. Two independent temperature controllers with independent heating elements to enable dual-zone temperature control for the upper and lower rollers should be provided		
	b. Should reach 250°C maximum in less than one hour.		

	c. Should be able to operate at 180°C continuously		
	d. The power required for each heating element should be between 1000 W or above		
	e. The temperature controller should be able to control temperature with +/-5°C accuracy		
7	Motor & Rolling Speed:		
	a. A high torque motor (24 V DC or better) with reducing gear should be provided		
	b. A digital speed indicator display should be provided		
	c. Rockwell surface hardness of rollers should be <40 (HRC scale)		
8	The machine should be capable of operating in inert atmosphere for use inside glove box.		
9	Feeding boards made of PTFE should be provided		
10	Optional component: In the future, the instrument should have a provision to upgrade for a roll-to-roll system for a table-top calendering machine with a roller width of up to 200 mm or more.		
11	Warranty: Should provide at least 1 year warranty.		
12	Installation and training should be done onsite.		