

TECHNICAL BID PROFORMA
Item Name: Micro Gas Turbine

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. 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:

<u>S.NO</u>	<u>Specifications</u>	Complied or Not Complied	Ref.Page. No
1.	Application - Grid-connected Power generation.		
2.	Electrical power out: 50-80kW		
3.	Output electricity: 3phase grid connectivity as per Indian power standards		
4.	Voltage out: 400-480 VAC		
5.	Electrical efficiency: >25%		
6.	Fuel: Syngas (composition may vary in time) composition 30% to 100% H ₂ , and the rest will be CO+CH ₄ , with some other hydrocarbons(minor).		
7.	HHV: 20.5 MJ/m ³ to 35 MJ/m ³ .		
8.	H ₂ S: <5000 ppmv		
9.	Fuel pressure in: 5 Bar guage		
10.	The MGT should have:		
11.	ultra-low emissions - Lower than CPCP 2 norms.		
12.	good fuel flexibility		

13.	the exhaust gas temperature should be about 300 deg C & capable of Combined heat and power		
14.	should be capable of handling H2S up to 5000 ppmv.		
15.	Certification under Grid interconnections standards UL1741-SA, AS4777 or equivalent.		
16.	System should have low maintenance with no lubrication oil/coolant requirements		
17.	Bearing used must be air bearing		
18.	1 Year Standard Warranty		

**SIGNATURE OF BIDDER ALONG WITH
SEAL OF THE COMPANY WITH DATE**