Annexure III

We are interested in purchasing a cavitation erosion system (based on ASTM G32 standard) whose specifications are outlined below:

Sr.No	SPECIFICATION		Complied/Not Complied	Ref.Pg.No
	20 kHz (nominal			
	frequency) ultrasonic			
	transducer driven by a			
	suitable electronic			
	oscillator and power	Piezoelectric/Magnetostrictive		
1.	amplifier	type		
2.	System power output	500-1000 W		
3.	Sonotrode with a detachable tip			
	Sonotrode tip nominal			
4.	diameter	15.9 mm		
5	Dools mools ommlitude	Should be adjustable from 1% to 100%		
5.	Peak-peak amplitude			
6.	Displays of frequency, adjustable power and amplitude settings are desirable			
0.				
	Dimensions and tolerances of detachable tip, as per ASTM G32 standard, are given as ready reference in Figure-1.			
	_			
7.	Actual dimensions should closely adhere to the values indicated.			
8.	Desirable: Pulsed operation of sonotrode			
0.	Desirable. I alsed operation	or sonorous		
	I iquid vessel is at least a			
	Liquid vessel is at least a 600 ml cooling cell with water jacketed beaker or a 1000 ml to 1500 ml glass beaker with a			
	cooling coil. In either case			
	internal diameter of the lie			
9.	100 mm.			
	A temperature sensor shall be provided to monitor the			
10.	temperature of the liquid			
11.	A stand with a clamp shall be provided			
	Optional accessories:			
	i) A sound enclosure to re			
	equipment			
	ii) Sonotrode with solid tip for indirect cavitation			
	measurement which would			
10	capable of generating the same power range at the same			
12.	frequency			

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)

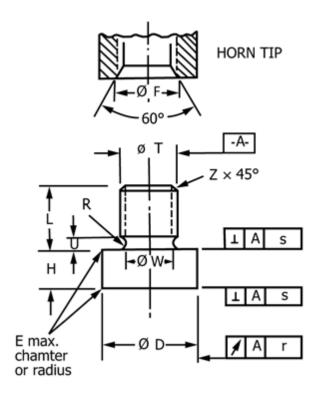


TABLE OF VALUES				
	mm	inch		
D*	15.9 ± 0.05	0.624 ± 0.002		
E*	0.15	0.006		
F	$(W + 2.2) \pm 0.25$	$(W + 0.09) \pm 0.01$		
Н	See 7.2			
L	10.0 ± 0.5	0.394 ± 0.02		
R	0.8 ± 0.15	0.031± 0.006		
T	Thread, see X2.1			
U	2.0 ± 0.5	0.08 ± 0.02		
W	Thread minor dia, see Table X2.2			
Z	0.8 ± 0.15	0.031 ± 0.006		
r*	0.050	0.002		
s*	0.025	0.001		

Note 1—Asterisk (*) indicates mandatory; others recommended.

Figure-1: Detachable tip dimensions as per ASTM G32 standard