Technical specifications of pump:

SI. No.	Item description	specification	
a)	Type of the pump	Gear pump	
b)	Type of drive (motor)	Brushless DC magentically driven	
c)	Working fluid	Acetone	
d)	Working condition	Liquid state	
e)	Material of the construction	SS 316 L or equivalent	
f)	All wetted parts	SS 316 L or equivalent	
g)	Volume flow range (litre/min)	0 to 3	
h)	Max. rated system level pressure (bar) ~ 10		
i)	Max. differential pressure (bar)	~ 8	
j)	Max. head (m)	~ 10	
k)	Operating temperature range of the fluid (°C) -25 to +80		
I)	End connection	1/4" (NPT female) or equivalent	
m)	Seals, inner materials SS 316 L or similar metallic		
n)	Speed (rpm)	Up to 5000	
0)	DC Input voltage (V)	24	
p)	Mass (kg)	< 2	
q)	Leak rate (mbar.l/s)	1 x 10 ⁻⁸	
	Variable speed control through input voltage as follows		
	i. Voltage (0V)	0 rpm	
	ii. Voltage (1V)	1000 rpm	
r)	iii. Voltage (2V)	2000 rpm	
	iv. Voltage (3V)	3000 rpm	
	v. Voltage (4V)	4000 rpm	
	vi. Voltage (5V)	5000 rpm	
s)		Following materials shall not be	
	Restricted materials	used in the pump:	
	Troditiolog materials	Plastic, rubber, neoprene and	
		polymer based materials	

t)	Pump shall be vacuum compatible for a vacuum level of 10 ⁻⁶ torr
u)	Pump materials must meet the requirement of total mass loss (TML) < 1% and collected volatile condensable materials (CVCM) < 0.1%

General requirements:

Acceptance of the system at vendor site:

- ✓ Pre delivery inspection of the item will be carried out at vendor premises by ISRO engineer.
- ✓ The vendor shall demonstrate functionality test at vendor site which includes
 the pump operation like switch on/off, flow control etc.
- One-to One Compliance: The supplier shall provide printed catalogue of the system providing detailed specification and one-to-one compliance table as per the technical specifications. The offer should be complete with compliance statement for each of the specifications, offering technical features, safety features and optional items. Indicating merely 'YES', 'NO' or OKAY' in the compliance statement will not be considered
- **Delivery period:** 8 to 10 Weeks from the date of placement of purchase order
- Instruction manual (hard and soft copy) including installation procedure and service manual with details regarding operation and maintenance of the system shall be provided.
- Warranty: The equipment shall have minimum warranty for 12 months from the date of acceptance.

Technical compliance statement

ISBO SI	pecifications	Vendor	
	pecifications	compliance	
SI. No.	Item description	specification	
v)	Type of the pump	Gear pump	
w)	Type of drive (motor)	Brushless DC magentically driven	
x)	Working fluid	Acetone	
y)	Working condition	Liquid state	
z)	Material of the construction	SS 316 L or equivalent	
aa)	All wetted parts	SS 316 L or equivalent	
bb)	Volume flow range (litre/min)	0 to 3	
cc)	Max. rated system level pressure (bar)	~ 10	
dd)	Max. differential pressure (bar)	~ 8	
ee)	Max. head (m)	~ 10	
ff)	Operating temperature range of the fluid (°C)	-25 to +80	
gg)	End connection	1/4" (NPT female) or equivalent	
hh)	Seals, inner materials	SS 316 L or similar metallic	
ii)	Speed (rpm)	Up to 5000	
jj)	DC Input voltage (V)	24	
kk)	Mass (kg)	< 2	
II)	Leak rate (mbar.l/s) 1 x 10 ⁻⁸		
mm)			
	vii. Voltage (0V)	0 rpm	

	viii.	Voltage (1V)	1000 rpm	
	ix.	Voltage (2V)	2000 rpm	
	X.	Voltage (3V)	3000 rpm	
	xi.	Voltage (4V)	4000 rpm	
	xii.	Voltage (5V)	5000 rpm	
nn)			Following materials shall	
			not be used in the pump:	
	Restricted materials	Plastic, rubber, neoprene		
			and polymer based	
			materials	
00)	Pump shall be vacuum compatible for a vacuum level			
	of 10 ⁻⁶ torr			
pp)	Pump materials must meet the requirement of total			
	mass loss (TML) < 1% and collected volatile condensable materials (CVCM) < 0.1%			