ANNEXURE (A)

SPECIFICATIONS OF DIFFUSION PUMP # 1 (Qty.01 No)			
Sr #	Parameter	Unit	Value
1	Power Rating	Watt	2200
2	Optimum Operational Pressure Range	mbar	$1x10^{-3}$ to < $5x10^{-o}$
3	Minimum Pumping Speed	1/S	Air-2400 with Standard cold cap
4	Electrical Requirements	-	120, 208, 240; 50/60 Hz; single phase
5	Fluid Charge	cc	500
6	Foreline Baffle	-	Stacked half moon
7	Heaters	-	05 Extra Heaters are required compatible to the desired pump specifications
7.1	Heater circuit resistance	ohms	2200 watts 120 V-6.5 208 V - 19-6 240 V-26.1
8	Materials	-	a) Body. Flanges. Foreline, Baffle — stainless steel b) Jet Assembly— Stainless steel c) Body Cooling Coils — copper d) Quick Cooling Coil — stainless steel e) Cold Cap nickel-plated copper
9	Flange, Nominal Size	inch	6 inch ASA
9.1	Inlet Flange, QD	inch	11.00
9.2	Inlet Flange, ID	inch	7.88
9.3	Inlet Flange, Thickness	inch	0.75
9.4	Inlet Flange. Bolt Circle	inch	9.50
9.5	Inlet Flange. Number of Holes	-	8
9.6	Inlet Range, Hole Size	inch	0.81
9.7	O-ring Groove ID	inch	8.20
9.8	O-ring Groove Width	inch	0.18
10	Foreline Flange, Nominal Size	inch	1 ½" ASA
10.1	Foreline Flange, OD	inch	5.00
10.2	Foreline Flange, ID	inch	1.95

10.3	Thickness	inch	0.63
10.4	Bolt Circle	inch	3.88
10.5	Number of Holes	inch	4
10.6	Hole Size	inch	0.62
10.7	3-ring Groove ID	inch	2.22
10.8	ring Groove Width	inch	0.30

DIFFUSION VACUUM PUMP

SPECIFICATIONS OF DIFFUSION PUMP #2 (Qty. 01 No)			
Sr #	**Parameter**	**Unit**	**Value**
1	Power Rating	Watts	2200
2	Optimum Operational Pressure Range	mbar	$1x10^{-3}$ to < $5x10^{-o}$
3	Minimum Pumping Speed	1/S	Air-2400 with Standard cold cap
4	Electrical Requirements	-	120, 208, 240; 50/60 Hz; single phase
5	Fluid Charge	cc	300
6	Foreline Baffle	-	Stacked half moon
7	Heaters	-	05 Extra Heaters are required compatible to the demanded pump Specifications
7.1	Heater Circuit resistance	ohms	1450 watts 120 V-10 208 V - 29-8 240 V -39.7
8	Materials	-	a) Body, Flanges, Foreline, Baffle — stainless steel b) Jet Assembly stainless steel c) Body Cooling Coils — copper d) Quick Cooling Coil —stainless steel e) Cold Cap —» nickel-plated copper
9	Inlet Flange, Nominal Size	inch	4 inch ASA
9.1	Inlet Flange, QD	inch	9,00
9.2	Inlet Flange, ID	inch	5.91
9.3	Inlet Flange, Thickness	inch	0.50
9.4	Inlet Flange. Bolt Circle	inch	7.50
9.5	Inlet Flange. Number of Holes	inch	8
9.6	Inlet Flange, Hole Size	inch	0.69
9.7	O-Ring Groove ID	inch	6.06
9.8	O-Ring Groove width		0.18

9.9	Tubular Adapter Reducer		• One (01) Extra Tubular Adapter Reducer of Si2e: LF100 NW ISO100 to ASA 4 inch, ASA O.D. 9 inches (with No O-Ring Groove) is required to fit the demanded pump with system to be evacuated. • Two (02) ISO Stainless Steel Centering Rings with O- Ring and Aluminum Spacer Ring compatible to LF100 NW ISO100 Flange of • Eight (08) ISO Nut-Bolts compatible to ASA 4 inch Flange of Adapter Must be provided. • Two (02) ISO Stainless Steel Centering Rings with 0- Ring and Aluminum Spacer Ring compatible to ASA 4 inch Flange of adapter must be provided.
9.10	ISO Rotatable Retainer Ring along with Retainer Ring Compatible to LF100 NW ISO100 flange		• Size of ISO Rotatable Bolt Ring: ISO-100-BR or Equivalent (must be compatible to LF100 NW 1SOI00 flange). • Eight (08) ISO Nut-Bolts compatible to LSO Rotatable Bolt Ring (ISO-100-BR or Equivalent) must be provided. • Two (02) Retainer Rings compatible to ISO Rotatable Bolt Ring (ISO-100-BR or Equivalent) must be provided.
10.	Foreline Flange, Normal Size	-	KF40
10.1	Foreline Flange, OD	inch	2.16
10.2	Foreline Flange, ID	inch	1.38
10.3	Thickness	inch	0.20