परिशिष्ट 'क'

SAVITRIBAI PHULE PUNE UNIVERSITY
DEPARTMENT OF PHYSICS

Ref. No./Quot./PHY/55

Date:23/01/2019

Name of the Administration Branch/Department:

Quotations are invited for the supply of following goods/carrying out the work, so as to reach this office on or before

09/02/2019

Sr. No.	Description of Material/Item/work	Approximate Quantity	Rate Per unit	Amount (Rs.)	Remark
(1)	Secondary Chamber cum heat exchanger	1			
(2)	Scrubber and Exhaust	1			

1. Octroi Exemption Certificate will be issue for the goods supplied from the places outside Pune Municipal Corporation Limits.
2. Excise duty, Custom duty Exemption Certificate will be issued if applicable.

Note: For other terms and conditions see overleaf.

Head, Department of Physics

Administrative Branch .....

Savitribai Phule Pune University .....

Pune – 411 007. .....

Signature .....

(Supplier)

(With Stamp)

1. Technical Specifications for Scrubber

TECHNICAL SPECIFICATIONS FOR SCRUBBER			
			Ventury Scrubber
SN	**Parameters**	**Unit**	
A	**GENERAL**		
1	Make		
2	Model		
3	Equipment name		**VS 1**
4	Application		Plasma Gasification
5	Type of Scrubber	Type	**Ventury Scrubber**
6	Volume Of Scrubber	m3/hr	300
7	Operating Temperature	DegC	45
8	Design Temperature (MAX)	DegC	100
9	Water Pressure	psig	20
10	System Pressure Drop	mmwc	140
11	Dust load at Inlet	gms/Nm³	30
12	Dust Emission at outlet	mg/Nm³	30
13	Dust output at Discharge (MAX)	Kg/hr	1
14	Separation efficiency	%	90
15	Gas Velocity inlet	m/s	11
16	Velocity at outlet	m/s	11
17	Scrubbing Media		8 to 10 % NaOH
B	**CONSTRUCTIONAL DETAILS**		
C	**Main Body**		
1	Material of Construction		SS 316
2	Thickness	mm	2
D	**Inlet and Outlet**		
1	Material of Construction		SS 316
2	Thickness	mm	2
E	**Venturi & Divergent Duct**		

1	Material of Construction		SS 316
2	Thickness	mm	2
F	**Surface Finishing**		Mirror polished
G	**Painting**		PU (Only for structural and support)
H	**FRP layer to Scrubber - No of Coats applied**	mm	NA
G	**Water Recirculation Tank**		
1	Capacity	Ltrs	361

2. Technical Specification for Centrifugal Fan

TECHNICAL SPECIFICATIONS FOR CENTRIFUGAL FAN			
Client		**SP Pune University**	
Equipment name		**Centrifugal Fan**	
Equipment Size			**300**
	Qty		**1**
SN	**Parameters**	**Unit**	**Centrifugal Fan**
1	Make		
2	Model	CFY	
3	Air Handling Capacity	m3/Hr	300
4	Design Pressure	mmwc	350
5	Operating Temperature	deg C	45
6	Static Efficiency	%	53
7	Fan Speed	RPM	2880
8	Drive Arrangement		Direct
9	Impeller GD2	kg-m2	0.32
10	Shaft Power at operating Temp	HP	0.76
11	Shaft Power at 20 Deg C	HP	0.90
12	Motor	HP	2
13	Motor Speed	RPM	2880
14	Inlet Damper	Dia	91
15	Fan Weight	Kg	88
16	Material of construction (Casing, Impeller)	MOC	SS 316
17	Material of construction (Pedestal, Base frame)	MOC	MS
18	Casing	MM	2
19	Impeller(Cone, Back plate)	MM	2 | 2
20	Shaft	MM	EN 8
21	Base Frame	MM	PROVIDED
22	Surface Finishing		Gr 140
23	Painting		PU (only for Structural)
24	Acid Cleaning	HCL Cleaning	Applicable
25	socket plug		1/4" BSP
26	Ant vibration pads	Polybond	NA
27	Foundation bolts		NA

3. Painting Specifications:- (Structure and Support parts only)

Paint Type	: PU
Finish Paint Shade	: Clients Selection