Annexure - 1 : Datasheet of 10 HP VRF (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Type of VRF	VRF	
2	Make of VRF	Mitsubishi Heavy / Carrier / Toshiba / O General	
3	Model Name / Number of VRF		
4	Cooling Capacity TR @ 47ºC ambient temerature as per deration chart	HP (attach VRF deration chart)	
5	Rated Power Input	Below 6.25 Kw	
6	EER	Above 15.2	
7	COP @ 100%	Above 4.45	
8	Power Supply	390-440V /3Ph/50 Hz	
9	Refrigerant	R-410a	
10	Factory Pre-Charge	Yes, Required	
11	Refrigerant Gas Pressure		
12	Noise Level at 1 Meter distance	Below 60 db	
13	**External Wired Controller**	VRF must be having provision of Common wired controller for 1 to 10 Nos. VRFs by looping in common communication cable	
14	Remote Operation	Remote Operation should be possible	
15	Diamensions in MM (LXWXH)		
16	Weight (Kg)		
Evaporator			
1	Type		
2	Material		
Condenser			
1	Condenser Type / Tube Material	Inner Groove Type / Copper Tube	
2	Fins Material	Aluminum	
3	Number of Rows	Minimum 3	
4	FPI	Minimum 18	

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
5	Fins Area		
6	Condenser Heat Exchange Area		
7	Noumber of Tubes		
Condenser Fan			
1	Type / Drive	Propeller / Direct	
2	Quantity of Condenser fan		
3	Blade Material	SAN	
4	Motor Poles		
5	Air Volume	minimum 11000 m3/hr	
6	Fan Motor Wattage/Kw	KiloWatt	
7	Fan Speed High & Low (RPM)		
Compressor			
1	Type of Compressor	DC Inverter Scroll	
2	Quantity per VRF		
3	Each Compressor Capacity in TR	TR	
4	Compressor speed	Minimum & Maximum	
5	IP	IP55	
6	Insulation Grade	F	
7	Flow Control	EXV	
8	No of Refrigerant Circuits		
9	**In built Protection Devices**	High Pressure Switch	
10		Low Pressure Switch	
11		Thermal Proctector	
12		Overload Protector	
13		Phase Sequencer	

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Annexure - 2 : Datasheet of 14 HP VRF (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Type of VRV/VRF	VRF	
2	Make of VRV/VRF	Mitsubishi Heavy / Carrier / Toshiba / O General	
3	Model Name / Number of VRV/VRF		
4	Cooling Capacity TR @ 47ºC ambient temerature as per deration chart	HP (attach VRF deration chart)	
5	Rated Power Input	Below 9.6 Kw	
6	EER	Above 13.85	
7	COP @ 100%	Above 4	
8	Power Supply	390-440V /3Ph/50 Hz	
9	Refrigerant	R-410a	
10	Factory Pre-Charge	Yes, Required	
11	Refrigerant Gas Pressure		
12	Noise Level at 1 Meter distance	Below 60 db	
13	**External Wired Controller**	VRF must be having provision of Common wired controller for 1 to 10 Nos. VRFs by looping in common communication cable	
14	Remote Operation	Remote Operation should be possible	
15	Diamensions in MM (LXWXH)		
16	Weight (Kg)		
Evaporator			
1	Type		
2	Material		
Condenser			
1	Condenser Type / Tube Material	Inner Groove Type / Copper Tube	
2	Fins Material	Aluminum	
3	Number of Rows	Minimum 3	
4	FPI	Minimum 18	

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
5	Fins Area		
6	Condenser Heat Exchange Area		
7	Noumber of Tubes		
Condenser Fan			
1	Type / Drive	Propeller / Direct	
2	Quantity of Condenser fan		
3	Blade Material	SAN	
4	Motor Poles		
5	Air Volume	minimum 11000 m3/hr	
6	Fan Motor Wattage/Kw	KiloWatt	
7	Fan Speed High & Low (RPM)		
Compressor			
1	Type of Compressor	DC Inverter Scroll	
2	Quantity per VRF		
3	Each Compressor Capacity in TR	TR	
4	Compressor speed	Minimum & Maximum	
5	IP	IP55	
6	Insulation Grade	F	
7	Flow Control	EXV	
8	No of Refrigerant Circuits		
9	**In built Protection Devices**	High Pressure Switch	
10		Low Pressure Switch	
11		Thermal Proctector	
12		Overload Protector	
13		Phase Sequencer	

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Annexure - 3 : Datasheet of 16 HP VRF (To be filled in by Bidder)

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
1	Type of VRV/VRF	VRF	
2	Make of VRV/VRF	Mitsubishi Heavy / Carrier / Toshiba / O General	
3	Model Name / Number of VRV/VRF		
4	Cooling Capacity TR @ 47ºC ambient temerature as per deration chart	HP (attach VRF deration chart)	
5	Rated Power Input	Below 11 Kw	
6	EER	Above 13.8	
7	COP @ 100%	Above 4	
8	Power Supply	390-440V /3Ph/50 Hz	
9	Refrigerant	R-410a	
10	Factory Pre-Charge	Yes, Required	
11	Refrigerant Gas Pressure		
12	Noise Level at 1 Meter distance	Below 60 db	
13	**External Wired Controller**	VRF must be having provision of Common wired controller for 1 to 10 Nos. VRFs by looping in common communication cable	
14	Remote Operation	Remote Operation should be possible	
15	Diamensions in MM (LXWXH)		
16	Weight (Kg)		
Evaporator			
1	Type		
2	Material		
Condenser			
1	Condenser Type / Tube Material	Inner Groove Type / Copper Tube	
2	Fins Material	Aluminum	
3	Number of Rows	Minimum 3	
4	FPI	Minimum 18	
5	Fins Area		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
6	Condenser Heat Exchange Area		
7	Noumber of Tubes		
Condenser Fan			
1	Type / Drive	Propeller / Direct	
2	Quantity of Condenser fan		
3	Blade Material	SAN	
4	Motor Poles		
5	Air Volume	minimum 13000 m3/hr	
6	Fan Motor Wattage/Kw	KiloWatt	
7	Fan Speed High & Low (RPM)		
Compressor			
1	Type of Compressor	DC Inverter Scroll	
2	Quantity per VRF		
3	Each Compressor Capacity in TR	TR	
4	Compressor speed	Minimum & Maximum	
5	IP	IP55	
6	Insulation Grade	F	
7	Flow Control	EXV	
8	No of Refrigerant Circuits		
9	**In built Protection Devices**	High Pressure Switch	
10		Low Pressure Switch	
11		Thermal Proctector	
12		Overload Protector	
13		Phase Sequencer	

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Annexure - 4 : Datasheet of 18 HP VRF (To be filled in by Bidder)

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
1	Type of VRV/VRF	VRF	
2	Make of VRV/VRF	Mitsubishi Heavy / Carrier / Toshiba / O General	
3	Model Name / Number of VRV/VRF		
4	Cooling Capacity TR @ 47ºC ambient temerature as per deration chart	HP (attach VRF deration chart)	
5	Rated Power Input	Below 12.4 Kw	
6	EER	Above 13.8	
7	COP @ 100%	Above 4	
8	Power Supply	390-440V /3Ph/50 Hz	
9	Refrigerant	R-410a	
10	Factory Pre-Charge	Yes, Required	
11	Refrigerant Gas Pressure		
12	Noise Level at 1 Meter distance	Below 62 db	
13	**External Wired Controller**	VRF must be having provision of Common wired controller for 1 to 10 Nos. VRFs by looping in common communication cable	
14	Remote Operation	Remote Operation should be possible	
15	Diamensions in MM (LXWXH)		
16	Weight (Kg)		
Evaporator			
1	Type		
2	Material		
Condenser			
1	Condenser Type / Tube Material	Inner Groove Type / Copper Tube	
2	Fins Material	Aluminum	
3	Number of Rows	Minimum 3	
4	FPI	Minimum 18	
5	Fins Area		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
6	Condenser Heat Exchange Area		
7	Noumber of Tubes		
Condenser Fan			
1	Type / Drive	Propeller / Direct	
2	Quantity of Condenser fan		
3	Blade Material	SAN	
4	Motor Poles		
5	Air Volume	minimum 13000 m3/hr	
6	Fan Motor Wattage/Kw	KiloWatt	
7	Fan Speed High & Low (RPM)		
Compressor			
1	Type of Compressor	DC Inverter Scroll	
2	Quantity per VRF		
3	Each Compressor Capacity in TR	TR	
4	Compressor speed	Minimum & Maximum	
5	IP	IP55	
6	Insulation Grade	F	
7	Flow Control	EXV	
8	No of Refrigerant Circuits		
9	**In built Protection Devices**	High Pressure Switch	
10		Low Pressure Switch	
11		Thermal Proctector	
12		Overload Protector	
13		Phase Sequencer	

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Annexure - 5 : Datasheet of 20 HP VRF (To be filled in by Bidder)

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
1	Type of VRV/VRF	VRF	
2	Make of VRV/VRF	Mitsubishi Heavy / Carrier / Toshiba / O General	
3	Model Name / Number of VRV/VRF		
4	Cooling Capacity TR @ 47ºC ambient temerature as per deration chart	HP (attach VRF deration chart)	
5	Rated Power Input	Below 13.9 Kw	
6	EER	Above 13.60	
7	COP @ 100%	Above 4	
8	Power Supply	390-440V /3Ph/50 Hz	
9	Refrigerant	R-410a	
10	Factory Pre-Charge	Yes, Required	
11	Refrigerant Gas Pressure		
12	Noise Level at 1 Meter distance	Below 62 db	
13	**External Wired Controller**	VRF must be having provision of Common wired controller for 1 to 10 Nos. VRFs by looping in common communication cable	
14	Remote Operation	Remote Operation should be possible	
15	Diamensions in MM (LXWXH)		
16	Weight (Kg)		
Evaporator			
1	Type		
2	Material		
Condenser			
1	Condenser Type / Tube Material	Inner Groove Type / Copper Tube	
2	Fins Material	Aluminum	
3	Number of Rows	Minimum 3	
4	FPI	Minimum 18	
5	Fins Area		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
6	Condenser Heat Exchange Area		
7	Noumber of Tubes		
Condenser Fan			
1	Type / Drive	Propeller / Direct	
2	Quantity of Condenser fan		
3	Blade Material	SAN	
4	Motor Poles		
5	Air Volume	minimum 17000 m3/hr	
6	Fan Motor Wattage/Kw	KiloWatt	
7	Fan Speed High & Low (RPM)		
Compressor			
1	Type of Compressor	DC Inverter Scroll	
2	Quantity per VRF		
3	Each Compressor Capacity in TR	TR	
4	Compressor speed	Minimum & Maximum	
5	IP	IP55	
6	Insulation Grade	F	
7	Flow Control	EXV	
8	No of Refrigerant Circuits		
9	**In built Protection Devices**	High Pressure Switch	
10		Low Pressure Switch	
11		Thermal Proctector	
12		Overload Protector	
13		Phase Sequencer	

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Annexure - 6 : Datasheet of Inline Fan (BOQ Item Sr. No. 36) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	1850 CFM	
2	Fan Selection for Total Static Pressure	15 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP21	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 55 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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Annexure - 7 : Datasheet of Inline Fan (BOQ Item Sr. No. 37) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	440 CFM	
2	Fan Selection for Total Static Pressure	15 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP20/21	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 56 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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Annexure - 8 : Datasheet of Inline Fan (BOQ Item Sr. No. 38) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	3500 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCK	
5	Type of Fan	DIDW Forward Curved Belt Driven Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP55	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 64 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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Annexure - 9 : Datasheet of Inline Fan (BOQ Item Sr. No. 39) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	900 CFM	
2	Fan Selection for Total Static Pressure	20 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP21	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 59 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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Annexure - 10 : Datasheet of Inline Fan (BOQ Item Sr. No. 40) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	600 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP21	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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Annexure - 11 : Datasheet of Inline Fan (BOQ Item Sr. No. 41) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	200 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP20/21	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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Annexure - 12 : Datasheet of Inline Fan (BOQ Item Sr. No. 42) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	2540 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CSD/CSK	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP20/21	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 54 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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Annexure - 13 : Datasheet of Inline Fan (BOQ Item Sr. No. 43) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	1220 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Filter	EU5	
7	Efficiency of Fan	%	
8	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
9	Fan Motor Efficiency	%	
10	Power Consumption	Watt / Kw	
11	Motor Make		
12	Motor Type		
13	Motor Ingress Protection	IP21	
14	Class of Insulation	F	
15	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
16	Starting Current	Amp.	
17	Full Load Current (Amps)	Amp.	
18	Starter With Fan Speed Control Regulator	Required	
19	Method of Starting	DOL / Star-delta /Soft Starter	
20	Starter Manufacturer / Make		
21	Starter Panel with BMS Compatibility	Required	
22	Material of Construction of Fan		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
23	Cabinet Material	Galvanised Sheet Steel	
24	Shaft Material		
25	Accessories included		
26	Overall Fan Efficiency	%	
27	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
28	Type of Bearing		
29	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
30	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
31	Total Weight	Kg	

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NOTE : 2) OFFERS with "INCOMPLETE INFORMATION" ARE LIABLE TO BE REJECTED, which may be noted.

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Annexure - 14 : Datasheet of Inline Fan (BOQ Item Sr. No. 44) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	1850 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Efficiency of Fan	%	
7	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
8	Fan Motor Efficiency	%	
9	Power Consumption	Watt / Kw	
10	Motor Make		
11	Motor Type		
12	Motor Ingress Protection	IP21	
13	Class of Insulation	F	
14	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
15	Starting Current	Amp.	
16	Full Load Current (Amps)	Amp.	
17	Starter With Fan Speed Control Regulator	Required	
18	Method of Starting	DOL / Star-delta /Soft Starter	
19	Starter Manufacturer / Make		
20	Starter Panel with BMS Compatibility	Required	
21	Material of Construction of Fan		
22	Cabinet Material	Galvanised Sheet Steel	
23	Shaft Material		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
24	Accessories included		
25	Overall Fan Efficiency	%	
26	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
27	Type of Bearing		
28	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
29	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
30	Total Weight	Kg	

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Annexure - 15 : Datasheet of Inline Fan (BOQ Item Sr. No. 45) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	1750 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Efficiency of Fan	%	
7	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
8	Fan Motor Efficiency	%	
9	Power Consumption	Watt / Kw	
10	Motor Make		
11	Motor Type		
12	Motor Ingress Protection	IP21	
13	Class of Insulation	F	
14	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
15	Starting Current	Amp.	
16	Full Load Current (Amps)	Amp.	
17	Starter With Fan Speed Control Regulator	Required	
18	Method of Starting	DOL / Star-delta /Soft Starter	
19	Starter Manufacturer / Make		
20	Starter Panel with BMS Compatibility	Required	
21	Material of Construction of Fan		
22	Cabinet Material	Galvanised Sheet Steel	
23	Shaft Material		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
24	Accessories included		
25	Overall Fan Efficiency	%	
26	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
27	Type of Bearing		
28	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
29	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
30	Total Weight	Kg	

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Annexure - 16 : Datasheet of Inline Fan (BOQ Item Sr. No. 46) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	3030 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CSD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Efficiency of Fan	%	
7	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
8	Fan Motor Efficiency	%	
9	Power Consumption	Watt / Kw	
10	Motor Make		
11	Motor Type		
12	Motor Ingress Protection	IP54	
13	Class of Insulation	F	
14	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
15	Starting Current	Amp.	
16	Full Load Current (Amps)	Amp.	
17	Starter With Fan Speed Control Regulator	Required	
18	Method of Starting	DOL / Star-delta /Soft Starter	
19	Starter Manufacturer / Make		
20	Starter Panel with BMS Compatibility	Required	
21	Material of Construction of Fan		
22	Cabinet Material	Galvanised Sheet Steel	
23	Shaft Material		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
24	Accessories included		
25	Overall Fan Efficiency	%	
26	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
27	Type of Bearing		
28	Noise Level at 3 Meter measured at free discharge	Below 60 dBA	
29	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
30	Total Weight	Kg	

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Annexure - 17 : Datasheet of Inline Fan (BOQ Item Sr. No. 47) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	150 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Efficiency of Fan	%	
7	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
8	Fan Motor Efficiency	%	
9	Power Consumption	Watt / Kw	
10	Motor Make		
11	Motor Type		
12	Motor Ingress Protection	IP21	
13	Class of Insulation	F	
14	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
15	Starting Current	Amp.	
16	Full Load Current (Amps)	Amp.	
17	Starter With Fan Speed Control Regulator	Required	
18	Method of Starting	DOL / Star-delta /Soft Starter	
19	Starter Manufacturer / Make		
20	Starter Panel with BMS Compatibility	Required	
21	Material of Construction of Fan		
22	Cabinet Material	Galvanised Sheet Steel	
23	Shaft Material		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
24	Accessories included		
25	Overall Fan Efficiency	%	
26	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
27	Type of Bearing		
28	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
29	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
30	Total Weight	Kg	

NOTE : 1) The bidder should fill-in all the data in above format only. If above required data is not filled properly or partially filled tender shall be liable to rejection.

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Annexure - 18 : Datasheet of Inline Fan (BOQ Item Sr. No. 48) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	3240 CFM	
2	Fan Selection for Total Static Pressure	25 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CSD/CSK	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Efficiency of Fan	%	
7	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
8	Fan Motor Efficiency	%	
9	Power Consumption	Watt / Kw	
10	Motor Make		
11	Motor Type		
12	Motor Ingress Protection	IP54/55	
13	Class of Insulation	F	
14	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
15	Starting Current	Amp.	
16	Full Load Current (Amps)	Amp.	
17	Starter With Fan Speed Control Regulator	Required	
18	Method of Starting	DOL / Star-delta /Soft Starter	
19	Starter Manufacturer / Make		
20	Starter Panel with BMS Compatibility	Required	
21	Material of Construction of Fan		
22	Cabinet Material	Galvanised Sheet Steel	
23	Shaft Material		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
24	Accessories included		
25	Overall Fan Efficiency	%	
26	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
27	Type of Bearing		
28	Noise Level at 3 Meter measured at free discharge	Below 59 dBA	
29	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
30	Total Weight	Kg	

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Annexure - 19 : Datasheet of Inline Fan (BOQ Item Sr. No. 49) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	200 CFM	
2	Fan Selection for Total Static Pressure	15 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Efficiency of Fan	%	
7	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
8	Fan Motor Efficiency	%	
9	Power Consumption	Watt / Kw	
10	Motor Make		
11	Motor Type		
12	Motor Ingress Protection	IP21	
13	Class of Insulation	F	
14	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
15	Starting Current	Amp.	
16	Full Load Current (Amps)	Amp.	
17	Starter With Fan Speed Control Regulator	Required	
18	Method of Starting	DOL / Star-delta /Soft Starter	
19	Starter Manufacturer / Make		
20	Starter Panel with BMS Compatibility	Required	
21	Material of Construction of Fan		
22	Cabinet Material	Galvanised Sheet Steel	
23	Shaft Material		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
24	Accessories included		
25	Overall Fan Efficiency	%	
26	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
27	Type of Bearing		
28	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
29	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
30	Total Weight	Kg	

NOTE : 1) The bidder should fill-in all the data in above format only. If above required data is not filled properly or partially filled tender shall be liable to rejection.

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Annexure - 20 : Datasheet of Inline Fan (BOQ Item Sr. No. 50) (To be filled in by Bidder)			
Sr. No.	**Description**	**Required - System Parameters**	**To be filled by the Bidder**
1	Fan CFM	300 CFM	
2	Fan Selection for Total Static Pressure	15 MM W.G.	
3	Make of Fan	Kruger	
4	Model Number of Fan	CCD	
5	Type of Fan	Direct Driven, DIDW Forward Curved Centrifugal Fan	
6	Efficiency of Fan	%	
7	Power Supply Required - AC, 50 Hz	Single Phase / Three Phase	
8	Fan Motor Efficiency	%	
9	Power Consumption	Watt / Kw	
10	Motor Make		
11	Motor Type		
12	Motor Ingress Protection	IP21	
13	Class of Insulation	F	
14	Electrical Characteristics of Fan Motor	Attach Electrical Characteristics Chart	
15	Starting Current	Amp.	
16	Full Load Current (Amps)	Amp.	
17	Starter With Fan Speed Control Regulator	Required	
18	Method of Starting	DOL / Star-delta /Soft Starter	
19	Starter Manufacturer / Make		
20	Starter Panel with BMS Compatibility	Required	
21	Material of Construction of Fan		
22	Cabinet Material	Galvanised Sheet Steel	
23	Shaft Material		

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
24	Accessories included		
25	Overall Fan Efficiency	%	
26	Fan Performance Data - Static Pressure Vs Flow Rate	Attach Performace Datasheet	
27	Type of Bearing		
28	Noise Level at 3 Meter measured at free discharge	Below 57 dBA	
29	Overall Size (including base frame) L x D x H	mm x mm x mm (Attach GA Drawing)	
30	Total Weight	Kg	

NOTE : 1) The bidder should fill-in all the data in above format only. If above required data is not filled properly or partially filled tender shall be liable to rejection.

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Annexure - 21 : Datasheet of EU Filter (To be filled in by Bidder)

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
1	EU5 Filter Make	Camfil-Farr/Aspen/AAF/Dyna Filters	
2	Filter Class according to EN779 - 2012 / ASHRAE	EU5/ MERV 10	
3	Filter Class according to ISO 16890	ISO Coarse 90%	
4	Filters Type, Face Areas	Sq. Feet	
5	Filter Efficiency down to 10 microns	> 98%	
6	Filter Efficiency down to 5 microns	90 - 99 %	
7	Filter Efficiency down to 3 microns	70 - 90 %	
8	Filter Efficiency down to 1 microns	30 - 50 %	
9	Filter Efficiency down to 0.5 microns	15 - 30 %	
10	Filter Efficiency down to 0.3 microns	5 - 15 %	
11	Filter Efficiency down to 0.1 microns	0 - 10 %	
12	Filter Material	Synthetic Fiber	
13	Frame Material	Anodized Aluminum	
14	100% Water Washable.	Required	

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Annexure - 22 : Datasheet of Electrical Work (To be filled in by Bidder)

Sr. No.	Description	Required - System Parameters	To be filled by the Bidder
1	MCB DB Make	Wipro/North West/Siemens/ABB/L&T	
2	MCB & RCBO Make	Wipro/North West/Siemens/ABB/L&T	
3	Name of Electrical Contractor		
4	Electrical Contractor's Licence Number and Validity Period/Date (Attach Copy)	Attach Licence Copy	

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Annexure – 23 : LIST OF APPROVED MAKES

Sr. No.	Name of Item	Approved Makes
1	MCB Distribution Boards	Wipro/ North West/Siemens / ABB
2	Air Circuit Breaker (ACB)	Siemens-3WL /Legrand- DMX3/ L& T-Omega
3	MCCB/MCB	Siemens /ABB/ L& T/ North West
4	Switch Fuse Units	Siemens /ABB/ L& T/ North West
5	Contactors and Starters	L&T / Siemens / ABB
6	Refrigerant Pipes	Mandev / Nippon / Totaline
7	VRV/VRF Units (Indoor & Outdoor)	Mitsubishi Heavy/Carrier/Toshiba/ O General
8	Fresh / Exhaust Air Centrifugal Fans	Kruger
9	Y or T- Joints/ Refnet	Mitsubishi Heavy/Carrier/Toshiba/ O General
10	UPVC Pipes & Fittings	Astral/Finolex/Ashirwad
11	GSS sheets/ Steel Angles/Channels	Jindal/ SAIL-Bhilai/ TATA
12	Prefabricated GS Ducts	SA Spiro/ ASAWA/ Rolastar/ Ductofab
13	Duct Silencers	Cosmos/ Ruskin/ George-Rao/ Dynacraft
14	Insulated flexible ducts	Twiga/ ATCO/ K-flex
15	Glass wool (Fibre Glass)	Twiga/ Kimmco/ Owens-Corning
16	Nitrile Rubber	Analco/ Aeroflex/ K-Flex
17	Cold Compound / CPRX Compound	Shalimar/ Shalicoat / Pidilite
18	Vibration Isolators/Cushy Foot Mounts	Dunlop/ Resistoflex/ Kanwal
19	Exhaust Disc Valves and Door Transfer Grill	Cosmos//Ruskin/ George-Rao/ Dynacraft
20	Air Filters, Micro Filters	Camfil-Farr/ Aspen/ AAF/ Dyna Filters
21	Balancing Valves	Advance/ Danfoss/ Belimo/ Audco
22	Duct Thermal Insulation	Thermobreak/ K-Flex/ Trocellen
23	Dampers, Louvers, Motorised Dampers	Cosmos/ Ruskin/ George-Rao/ Dynacraft
24	Grills, Diffusers, Al. Box Type Dampers	Cosmos/ Ruskin/ George-Rao/ Dynacraft
25	CAV Boxes	Systemair/Carrier/Belimo/Halton
26	Hardware	Sundaram/ GKW/ Fit tight
27	Anchor Fasteners	Hilti / Shakti
28	Paints	Nerolac, Asian, Berger
29	Welding Rods	ESAB/ Advani-Orlecon
30	PVC Pipes & Accessories	Finolex/Astral/Ashirwad/Supreme
31	ELCB/RCCB/RCBO	Siemens /ABB/ L& T/ North West

Sr. No.	Name of Item	Approved Makes
32	Push Buttons	L&T / Technic
33	Indicating Lamps	L&T / Technic
34	Fuses & Fuse bases	L&T / Siemens /ABB
35	Indicating / Measuring Instruments	Conzerv/ HPL/ Secure/ L&T
36	Terminals	Elmex / Connectwell
37	LT Cables/Wires	Finolex / RR Kables /Gloster
38	Timer	L&T/ABB/Minilec
39	Cable Glands Single/Double Compression	Braco / Dowells / Commet
40	PVC rigid conduits & Accessories	Precision/ Astral
41	Bi-metalic Crimping Type Lugs	Dowells
42	Cable Trays / Wireways	Cablofil / Profab / Shruti

Note : Bidder must highlight make of goods/items offered as per approved make list.

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