BUROHAPPOLD ENGINEERING

BH-ZSG-SCH-M-0002

Section C & D - Fan Schedule

Revision	Description	Issued by	Date	Checked by
00	Tender	TA	Oct-15	TA
01	Tender	TA	Nov-15	PG

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FAN SCHEDULE

Sr. No.	Equipment Tag	Location	Serving	Service	Quantity			Fan Data				Motor Data				Mode of Operation			High Temp. Rating (Yes/No)	Starter Type	Fan Size	Remark
					Total	Working	Standby	Fan Type	Fan Capacity		ESP	Motor Input Power	Speed	V/Ph/Hz	Speed Control							
									CFM	Min. Efficiency	Pa	(kW)	RPM			Mains	Generator	Fire				
1	SG-KEF-L0001	As in drawing	Pantry/Kitchen Extract	Kitchen Extract	1	1	0	SISW Centrifugal	1900	70%	350	**1.1**	2900	220/1/50	Constant	YES	YES	N/A	YES	DOL	1050(L)x600(W)x900(H)	
2	SG-TEF-L0001	As in drawing	Male & female toilet	Toilet Extract	1	1	0	Inline Centrifugal	550	70%	250	**0.37**	2900	220/1/50	Constant	YES	YES	NO	NO	DOL	Φ450x250(W)	
3	SG-FAF-L0001	As in drawing	Overview,Entrance & meeting rooms	Fresh air to FCUs	1	1	0	Inline Centrifugal	640	70%	250	**0.55**	2900	220/1/50	Constant	YES	YES	NO	NO	DOL	Φ450x250(W)	
4	SG-TEF-L0002	As in drawing	Pantry/Staff toilet/store	Toilet Extract	1	1	0	Inline Centrifugal	550	70%	250	**0.37**	2900	220/1/50	Constant	YES	YES	NO	NO	DOL	Φ450x250(W)	
5	SG-FAF-L0002	As in drawing	Model room, staff & meeting room	Fresh air to FCUs	1	1	0	Inline Centrifugal	810	70%	250	**0.55**	2900	220/1/50	Constant	YES	YES	NO	NO	DOL	Φ450x250(W)	

NOTES **THIS SCHEDULE SHALL BE READ IN CONJUNCTION WITH SPECIFICATION AND DRAWINGS.**

1 ALL FANS ARE DUCTLESS, WHERE EVER NEEDED TO CONNECT TO DUCTWORK IT SHOULD BE WITH FLEXIBLE CONNECTIONS.
2 FANS TO BE MOUNTED WITH AV MOUNTS/SPRING ISLOATORS.
3 SMOKE FAN MOTOR AND FAN SHALL BE RATED AT 250 deg C FOR 2 HOUR OR 300 deg C FOR 1 HOUR.
4 SMOKE FAN /HIGH TEMP APPLICATION- DRIVE SETS SHALL BE ISOLATED FROM SMOKE STREAM.
5 THE FANS SHALL BE SELECTED FOR THE LOWEST SOUND POWER LEVELS.THE SOUND POWER LEVEL SPECTRA FOR THE SAME TO BE SUBMITTED FOR APPROVAL.
6 SOUND PRESSURE LEVEL SHALL NOT EXCEED 55DBA FROM 1M DISTANCE FROM FANS AND SHALL FULFILL THE CRITERIAS OF NC LEVEL AS SPECFIED.
7 CONTRACTOR /SUPPLIER TO VARIFY THE EXTERNAL STATIC PRESSURE BASED ON APPROVED LAYOUTS BEFORE ORDERING THE EQUIPMENT AND ESP CALCULATION SHALL BE SUBMITTED.
8 SELECTED FANS SHALL HAVE SUFFICIENT STATIC TO OVERCOME THE WIND PRESSURE.
9 MOTOR MAKE SHALL BE GEC/BHARAT BIJLEE/ABB. MOTOR SHALL BE TEFC/SQ CAGE EFFICIENCY **CLASS II.**
10 FAN EFFICIENCY SHALL BE >=70%
11 SUITABLE TEST POINTS SHALL BE PROVIDED FOR AIR FLOW MEASUREMENTS.
12 ALL FANS SHALL BE ADEQUATELY SUPPORTED INDEPENDENT OF DUCTWORK.
13 VFD DRIVEN FAN & MOTORS SHALL BE VFD COMPATIBLE
14 FOR FURTHER DETAILS REFER TO THE PROJECT SPECIFICATION.
15 FAN MOTOR SHALL BE SIZED TO HANDLE 10% EXTRA CFM AT AN ADDITIONAL 10% STATIC PRESSURE

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