

PROJECT
ARCHITECT
HVAC CONSULTANT
LOCATION
DATE

WANKHEDE STADIUM, MUMBAI
SHASHI PRABHU AND ASSOCIATES
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MUMBAI
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HEAT LOAD, UNIT SELECTION & POWER REQUIREMENT SHEET

SR. NO.	PARTICULARS	HEAT LOAD								UNIT SELECTION				ELECTRICAL LOAD				PHASE	
		AREA (FT ²)	HEIGHT (FT)	OCCUPANCY	LIGHTING LOAD (W/FT ²)	EQUIPMENT LOAD (KW)	FRESH AIR (CFM)	HEAT LOAD (TR)	AIR QTY. (CFM)	TYPE OF UNIT	EACH TR	QTY. NOS.	TOTAL TR	OUTDOOR UNIT	NOS	EACH KW	TOTAL KW		
5.6 M LEVEL PLAN (FIRST FLOOR)																			
DIVECHA PAVILION (GUEST PAVILION)- FIRST FLOOR																			
1	VIEWING BOX 7	249	11.8	11	0.80	0.25	55	2.80	1,473	CASSETTE UNIT	3.33	1.00	3.33	74.71	18.00	2.00	17.00	34.00	THREE
2	VIEWING BOX 8	245	11.8	11	0.80	0.25	55	2.73	1,429	CASSETTE UNIT	3.33	1.00	3.33	73.51					
3	VIEWING BOX 9	157	11.8	7	0.80	0.25	35	2.46	1,392	CASSETTE UNIT	3.33	1.00	3.33	47.18					
	GROUND FLOOR MEDICAL ROOM									CASSETTE UNIT	3.33	1.00	3.33						
DIVECHA PAVILION (GUEST PAVILION)-SECOND FLOOR																			
1	VIEWING BOX 5	132	11.8	10	0.80	0.00	50	1.49	634	CASSETTE UNIT	3.33	1.00	3.33	39.68	18.00	2.00	17.00	34.00	THREE
2	VIEWING BOX 6	132	11.8	10	0.80	0.00	50	1.49	634	CASSETTE UNIT	3.33	1.00	3.33	39.68					
1	VIEWING BOX 7	132	11.8	10	0.80	0.00	50	1.49	634	CASSETTE UNIT	3.33	1.00	3.33	39.68					
SOUTH STAND - VIP STAND - FIRST FLOOR																			
1	TEAM 1 SITOUT AREA	445	11.8	20	0.80	0.25	300	5.56	1,947	CASSETTE UNIT	2.08	5.00	10.40	42.79	20.00	2.00	18.50	37.00	THREE
										HIWALL	1.08	1.00	1.08						
1	TEAM 2 SITOUT AREA	445	11.8	20	0.80	0.25	300	5.56	1,947	CASSETTE UNIT	2.08	5.00	10.40	42.79					
	GROUND FLOOR-DRESSING									CASSETTE UNIT	2.66	1.00	2.66		20.00	1.00	18.50	18.50	THREE
	GROUND FLOOR-UMPIRE									CASSETTE UNIT	2.08	1.00	2.08						
	GROUND FLOOR - RECEPTION									CASSETTE UNIT	4.15	3.00	12.45		18.00	1.00	17.00	17.00	THREE
										CASSETTE UNIT	2.64	5.00	13.20						
SOUTH STAND - VIP STAND -SECOND FLOOR																			
1	PRESIDENT'S LOUNGE	3,051	11.8	300	0.80	1.00	1,500	28.76	8,345	CASSETTE UNIT	3.33	13.00	43.29	70.48	20.00	3.00	18.50	55.50	THREE
											2.66	2.00	5.32	0.00					
SOUTH STAND - VIP STAND - THIRD FLOOR																			
1	EX-CRICKETER'S LOUNGE	1,614	11.8	202	0.80	1.00	1,010	19.92	5,988	CASSETTE UNIT	3.33	8.00	26.64	60.59	18.00	2.00	17.00	34.00	THREE
GARWARE PAVILION- FIRST FLOOR																			
1	VIEWING BOX 4	249	11.8	11	0.80	0.25	55	2.80	1,473	CASSETTE UNIT	3.33	1.00	3.33	74.71	18.00	2.00	17.00	34.00	THREE
2	VIEWING BOX 5	245	11.8	11	0.80	0.25	55	2.73	1,429	CASSETTE UNIT	3.33	1.00	3.33	73.51					
3	VIEWING BOX 6	157	11.8	7	0.80	0.25	35	2.46	1,392	CASSETTE UNIT	2.66	1.00	2.66	59.06					
1	VIEWING BOX 2	161	11.8	10	0.80	0.25	50	1.53	659	CASSETTE UNIT	2.66	1.00	2.66	60.43					
2	VIEWING BOX 3	356	11.8	51	0.80	0.25	255	5.27	1,674	CASSETTE UNIT	2.66	2.00	5.32	66.91					
1	VIEWING BOX 1	165	11.8	10	0.80	0.25	50	1.64	731	CASSETTE UNIT	2.66	1.00	2.66	62.09					
	GROUND FLOOR MEDICAL ROOM									CASSETTE UNIT	2.33	2.00	4.66	0.00					
	GROUND FLOOR ACU ROOM									HIWALL	1.66	2.00	3.32	0.00					
GARWARE PAVILION-SECOND FLOOR																			
1	VIEWING BOX 3	165	11.8	10	0.80	0.25	50	1.64	731	CASSETTE UNIT	2.66	1.00	2.66	62.09					
2	VIEWING BOX 4	165	11.8	10	0.80	0.25	50	1.64	731	CASSETTE UNIT	2.66	1.00	2.66	62.09					

HEAT LOAD, UNIT SELECTION & POWER REQUIREMENT SHEET

SR. NO.	PARTICULARS	HEAT LOAD								UNIT SELECTION				ELECTRICAL LOAD				PHASE								
		AREA (FT ²)	HEIGHT (FT)	OCCUPANCY	LIGHTING LOAD (W/FT ²)	EQUIPMENT LOAD (KW)	FRESH AIR (CFM)	HEAT LOAD (TR)	AIR QTY. (CFM)	TYPE OF UNIT	EACH TR	QTY. NOS.	TOTAL TR	OUTDOOR UNIT	NOS	EACH KW	TOTAL KW									
																		14.00	1.00	13.00	13.00	THREE				
3	VIEWING BOX 1	165	11.8	10	0.80	0.25	50	1.64	731	CASSETTE UNIT	2.66	1.00	2.66	62.09												
4	VIEWING BOX 2	165	11.8	10	0.80	0.25	50	1.64	731	CASSETTE UNIT	2.66	1.00	2.66	62.09												
NORTH STAND - SACHIN TENDULKAR - FIRST FLOOR																										
1	VIEWING BOX 1	249	11.8	11	0.80	0.25	55	2.80	1,473	CASSETTE UNIT	3.33	1.00	3.33	74.71	20.00	1.00	18.50	18.50	THREE							
2	VIEWING BOX 2	245	11.8	11	0.80	0.25	55	2.73	1,429	CASSETTE UNIT	3.33	1.00	3.33	73.51												
3	VIEWING BOX 3	157	11.8	7	0.80	0.25	35	2.46	1,392	CASSETTE UNIT	2.66	1.00	2.66	59.06												
1	VIEWING BOX 4	249	11.8	11	0.80	0.25	55	2.80	1,473	CASSETTE UNIT	3.33	1.00	3.33	74.71												
2	VIEWING BOX 5	245	11.8	11	0.80	0.25	55	2.73	1,429	CASSETTE UNIT	3.33	1.00	3.33	73.51												
3	VIEWING BOX 6	157	11.8	7	0.80	0.25	35	2.46	1,392	CASSETTE UNIT	2.66	1.00	2.66	59.06												
1	VIEWING BOX 7	249	11.8	11	0.80	0.25	55	2.80	1,473	CASSETTE UNIT	3.33	1.00	3.33	74.71												
2	VIEWING BOX 8	245	11.8	11	0.80	0.25	55	2.73	1,429	CASSETTE UNIT	3.33	1.00	3.33	73.51												
3	VIEWING BOX 9	157	11.8	7	0.80	0.25	35	2.46	1,392	CASSETTE UNIT	2.66	1.00	2.66	59.06												
NORTH STAND-SACHIN TENDULKAR STAND-SECOND FLOOR																										
1	VIEWING BOX 1	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08	18.00	1.00	17.00	17.00	THREE							
2	VIEWING BOX 2	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												
3	VIEWING BOX 3	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												
4	VIEWING BOX 4	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												
5	VIEWING BOX 5	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												
6	VIEWING BOX 6	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												
7	VIEWING BOX 7	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												
BALASAHEB THAKRE STAND- KEEP IT EXISTING INDOOR - FIRST FLOOR																										
1	COMMENTATOR BOXES	538	11.8	10	0.80	2.00	380	6.33	2,215	DUCTABLE	2.08	10.00	20.80		18.00	1.00	17.00	17.00	THREE							
2	COMMENTATOR BOXES	473	11.8	10	0.80	2.00	350	5.57	1,949																	
3	COMMENTATOR BOXES	473	11.8	10	0.80	2.00	350	5.57	1,949																	
4	COMMENTATOR BOXES	538	11.8	10	0.80	2.00	380	6.33	2,215																	
BALASAHEB THAKRE STAND FIRST FLOOR																										
1	VIEWING BOX 10	249	11.8	11	0.80	0.25	55	2.80	1,473	CASSETTE UNIT	3.33	1.00	3.33	74.71	18.00	2.00	17.00	34.00	THREE							
2	VIEWING BOX 11	245	11.8	11	0.80	0.25	55	2.73	1,429	CASSETTE UNIT	3.33	1.00	3.33	73.51												
3	VIEWING BOX 12	157	11.8	7	0.80	0.25	35	2.46	1,392	CASSETTE UNIT	2.66	1.00	2.66	59.06												
1	VIEWING BOX 13	166	11.8	10	0.80	0.25	50	1.47	621	CASSETTE UNIT	2.66	1.00	2.66	62.46												
2	VIEWING BOX 14	161	11.8	10	0.80	0.25	50	1.45	609	CASSETTE UNIT	2.66	1.00	2.66	60.51												
BALASAHEB THAKRE STAND SECOND FLOOR																										
8	VIEWING BOX 8	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												
9	VIEWING BOX 9	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08												

HEAT LOAD, UNIT SELECTION & POWER REQUIREMENT SHEET

SR. NO.	PARTICULARS	HEAT LOAD							UNIT SELECTION				ELECTRICAL LOAD				PHASE		
		AREA (FT ²)	HEIGHT (FT)	OCCUPANCY	LIGHTING LOAD (W/FT ²)	EQUIPMENT LOAD (KW)	FRESH AIR (CFM)	HEAT LOAD (TR)	AIR QTY. (CFM)	TYPE OF UNIT	EACH TR	QTY. NOS.	TOTAL TR	OUTDOOR UNIT	NOS	EACH KW		TOTAL KW	
10	VIEWING BOX 10	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08					
11	VIEWING BOX 11	133	11.8	10	0.80	0.25	50	1.53	660	CASSETTE UNIT	2.66	1.00	2.66	50.08					
BALASAHEB THAKRE STAND - KEEP IT EXISTING INDOOR & OUTDOOR UNIT-SECOND FLOOR																			
1	PRESS BOX SECOND FLOOR									DUCTABLE	6.54	6.00	39.24		20.00	1.00	18.50	18.50	THREE
ADDITIONAL REQUIREMENT																			
1	FIRST FLOOR COMMENTATOR BOXES LOBBY	1,750								DUCTABLE	8.30	2.00	16.60		20.00	1.00	18.50	1.00	THREE
1	SECOND FLOOR MEDIA ROOM LOBBY	1,750								DUCTABLE	8.30	2.00	16.60		20.00	1.00	18.50	1.00	THREE
M.C.A. PAVILION - FIRST FLOOR																			
1	VIEWING BOX 1	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35	20.00	3.00	18.50	55.50	THREE
2	VIEWING BOX 2	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
3	VIEWING BOX 3	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
4	VIEWING BOX 4	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
5	VIEWING BOX 5	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
6	VIEWING BOX 6	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
7	VIEWING BOX 7	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
8	VIEWING BOX 8	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
9	VIEWING BOX 9	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
M.C.A. PAVILION - SECOND FLOOR																			
1	VIEWING BOX 1	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35	20.00	3.00	18.50	55.50	THREE
2	VIEWING BOX 2	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
3	VIEWING BOX 3	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
4	VIEWING BOX 4	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
5	VIEWING BOX 5	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
6	VIEWING BOX 6	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
7	VIEWING BOX 7	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
8	VIEWING BOX 8	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					
9	VIEWING BOX 9	131	11.8	8	0.80	0.25	40	1.23	530	CASSETTE UNIT	2.66	1.00	2.66	49.35					