

Smart Buildings Standards at KFU

No.	Name	Place	automation		safety				energy		water		Indoor environment				lighting				Building Area (m ²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
1	Security Building	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	6,010
2	College of Science	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	21,410
3	College of Veterinary Medicine	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	51,712
4	College of Computer Science-Boys	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	43,054
5	RO-Water Treatment plant	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		4,512
6	Switch Gear Building	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		8,100
7	Chiller Plant Building	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		18,652
8	College of Management Science	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	12,659
9	Central Library	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	29,555
10	College of Agriculture Science- Girls	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	30,122
11	Deanship Building	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	35,605
12	Administration Building	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	40,361
13	Research Center	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	32,049
14	College of Education - Boys	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	42,276
15	Pump House	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		4,653
16	Boys Activity Center	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	14,512
17	Preparatory Year-Deanship Building	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	22,102
18	College of Education- Girls	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	14,569
19	College of Science- Girls	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	13,564
20	Girls Activity Center	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	10,431
21	College of Computer Science - Girls	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	15,684
22	Mosque	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		20,026



23	Girls Dormitory Blk A	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	16,356
24	Girls Dormitory Blk B	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	16,548
25	Boys Dining Hall	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	11,178
26	Festival Hall	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14,558
27	STP- Sanitary Treatment Plant	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	8,697
28	Girl Dining Hall	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5,615
29	Physical Education	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	35,600
30	Stadium	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13,566
31	Preparatory Deanship- Girls	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	22,800
32	School Business- Girls	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	31,263
33	Girl's Admiration Department	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	12,644
34	Engineering College	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	37,610
35	E- Learning	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	5,046
36	Central Stores	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	8,463
37	Central Services	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	16,646
38	Civil Defense	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2,959
39	Car Parking A	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	8,893
40	Car Parking B	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	9,546
41	Pharmacy	Al-Hassa, KSA	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	30,000
Total																			795,420

Table 2.3.2 Smart Building Criteria

B1	Automation	BMS
B2		APP
S1	Safety	Intruder Alarm System
S2		Fire Fighting
S3		Video Surveillance
S4		Anti-Flooding
E1	Energy	Monitoring
E2		Management
A1	Water	Monitoring
A2		Recovery



I1	Indoor Environment	Thermal Comfort
I2		Air Quality
I3		Real Time
I4		Passive System
L1	Lighting	High Efficiency
L2		Sensors
L3		Shielding
L4		Natural Lights