



## [2] Energy and Climate Change (EC)

## [2.3] Smart Building Implementation

\*Min. at least five requirements for each building

No.	Name	Place	automation		safety				energy		water		Indoor environmen t				lighting				<b>Building Area</b> (m²)
			B1	B2	<b>S1</b>	S2	<b>S3</b>	<b>S4</b>	E1	<b>E2</b>	<b>A1</b>	A2	I1	12	13	14	L1	L2	L3	L4	
1.	MNS-University of Agriculture; Block A (Academic Block)	Multan, Pakistan	х	х	х	х	х	х	x	X	х	x	x	х	х	х	х			х	5017
2.	MNS-University of Agriculture; Block A (Girls Hostel)	Multan, Pakistan	x	x	x	х	x	x	x	X	х	x	x	x	x	x	x			х	5825
3.	MNS-University of Agriculture; Block A (VC House and Faculty Residences)	Multan, Pakistan	x	x	x	x	x	x	x	X	x	x	х		x	x	x			x	2323
4.	MNS-University of Agriculture; Block B (Academic Block)	Multan, Pakistan	х	x	х	х	х	х	x	x	х	x	x	х	х	х	х			х	18335
5.	MNS-University of Agriculture; Block B (Administration Block)	Multan, Pakistan	х	х	x	х	х	х	x	Х	х	х	х	х	х	х	х			х	3749
6.	MNS-University of Agriculture; Block B (Boys Hostel)	Multan, Pakistan	x	х	x	х	х	x	x	x	х	х	x	х	x	x	x			х	5825
7.	MNS-University of Agriculture; Block B (Guest House)	Multan, Pakistan	х	х	x	х	х	x	x	x	х	x	x	x	х	x	x			х	611
8.	MNS-University of Agriculture; Block B (Central Library)	Multan, Pakistan	Х	х	х	х	х	х	х		х	х	х	х	х	Х				х	4081
		Total	8	8	8	8	8	8	8	7	8	8	8	7	8	8	7			8	45,766

**Smart building implementation** 

 $\frac{total\ smart\ building\ area}{total\ building\ area} \times 100\%$ 

**Example:** 

\*Total Building Area: 150,000 m<sup>2</sup>

 $\frac{41,500 \ m^2}{45,766 \ m^2} \times 100\% = 90.67\%$ 





**Building in Block A (Academic Block)** 

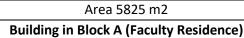


**Building in Block A (Girls Hostel)** 



Area 5017 m2

**Building in Block A (Vice Chancellor Residence)** 



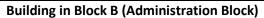




Area 395 m2

Building in Block B (Academic Block)

Area 1928 m2







Area 18335 m2

Area 3749 m2





## Building in Block B (Boys Hostel) Building in Block B (Guest House) Area 5825 m2 Building in Block B (Guest House) Area 611 m2

