Energy-Efficiency Plan to Reduce Overall Energy Consumption at SRM University-AP

SRM University-AP reduces its overall energy consumption by cutting cooling demand and by heating water with the sun, through four measures: a growing fleet of 5-star split air conditioners, automated chilled-water HVAC controls, variable-speed IE3 pumps in the chiller plant, and water heaters.

Measure	What it covers
1. 5-star split ACs	151 of the 553 split ACs on campus (27%) are 5-star rated (235.0 TR in total); the other 402 are 3-star
2. Automated chilled-water HVAC controls	Motorised valves, sensors, thermostats and actuators across chillers, AHUs and FCUs
3. IE3 variable-speed pumps	Chiller-plant pumps run by variable speed drives, plus automatic cooling-tower blowdown
4. Air-Source Heat Pump Water Heating System (ASHP)	Rooftop water heating systems with insulated hot-water storage tanks, control panels and circulation pumps

2. Scope and baseline

The campus has 553 split air conditioners: 151 are 5-star and 402 are 3-star. The 5-star inventory below lists **151 units with a combined capacity of 235.0 TR**, spread over 16 listed locations. Towers 1 to 5 hold 125 of the units (83%) and 189.0 TR (80%).

All 151 entries are 5-star split ACs; the 402 3-star units are not part of this inventory. Server, UPS and LT rooms are included, which are 24-hour loads where an efficient unit saves the most.

Location of the ACs	Number of Units	Capacity (TR)
Tower-1	53	80.0
Tower-4	34	51.5
Tower-3	20	30.5
Tower-2	10	15.0
Tower-5	8	12.0
Gate Plaza	7	10.5
Utility-1	4	9.0
Vikram Sarabhai	4	7.5
X-Lab	3	5.5
Utility-2	2	4.0
Annapurna Mess	1	2.0
Admin, SRK Block, SR Block, CV Block, Vedhavathi (1 unit each)	5	7.5
Total	**151**	**235.0**

3. Measure 1: 5-star split air conditioners

151 of the 553 split ACs on campus (27.3%) carry a 5-star rating, and the other 402 (72.7%) are 3-star, and 147 of the 5-star units (97%) were installed in 2023 or later, so the 5-star fleet is recent and efficient. The 402 3-star units are the main remaining opportunity: replacing them with 5-star units at end of life would raise the 5-star share.

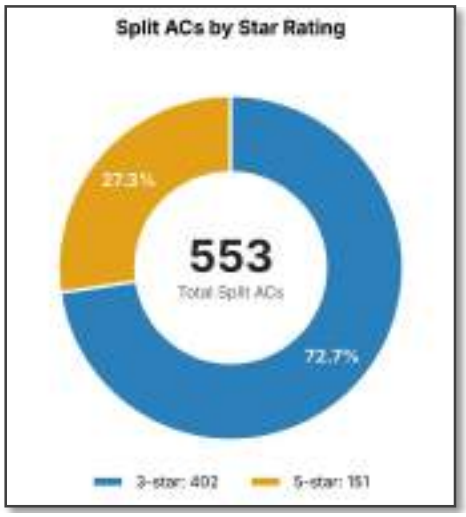


Figure 1. Split ACs on campus by star rating: 151 5-star and 402 3-star, 553 in total.

Make	Units	Share	Capacity
Blue Star	104	69%	1.5, 2 and 2.5 TR
Toshiba	47	31%	1.5 TR

Year installed	Units
2025	59
2024	49
2023	39
2021	3
2018	1

By size, 138 units are 1.5 TR (91%), 9 are 2 TR and 4 are 2.5 TR. Standardising on 1.5 TR 5-star units keeps spares, servicing and replacement simple.

A 5-star label means the unit meets the top band of the Bureau of Energy Efficiency (BEE) rating, which is based on the seasonal efficiency ratio (ISEER). A higher ISEER means less electricity for the same cooling.

4. Measure 2: automated chilled-water HVAC controls

The central chilled-water system is fitted with sensors, valves and actuators that match cooling output to the actual load, so chillers, pumps and air handlers do not run or circulate water when no cooling is needed.



Figure 2. Chiller plant: two motorised valve actuators, a chilled-water flow sensor and a temperature sensor.



Figure 3. Room level: two makes of digital thermostat, FCU actuators and the FCU 2-way valve station.



Figure 4. Air side and tower: AHU actuator, duct damper actuator, AHU water actuator and cooling-tower blowdown actuator.

Installed control	What it does	Energy benefit
Honeywell motorised valves	Cut off chilled-water flow to idle chillers or branches	Stops pumping and cooling water that nobody needs
Chiller water flow sensors	Measure flow through each chiller	Lets the plant stage chillers and pumps to the real load
Chiller temperature sensors	Measure supply and return water temperature	Prevents over-cooling and keeps chillers at a good temperature difference
Digital thermostats	Hold each room at its set temperature	Avoids over-cooling and gives occupants direct control
FCU actuators	Open and close the fan-coil valve on room demand	Water flows only when the room calls for cooling
FCU 2-way valve station	Varies water flow to each fan-coil unit with load	Lower pumping energy than a fixed-flow bypass
AHU actuators	Control chilled-water valves at air handlers	Cooling follows the air handler's load
AHU chilled-water cut-off by load	Closes the water supply when an air handler needs no cooling	Removes idle flow and cooling
Duct airflow auto cut-off and control (MFD)	Shuts off or modulates duct airflow	Cuts fan energy and waste conditioned air
Cooling-tower auto blowdown actuator	Controls blowdown automatically	Saves water and chemicals, and limits scaling that hurts chiller efficiency

5. Measure 3: IE3 variable-speed pumps

All pumps in the chiller plant are **IE3 energy-efficient pumps** under automatic control. Variable speed drives (VFDs) change pump speed with the cooling load, which saves both electricity and water.

Pump power falls roughly with the cube of speed, so running a pump at 80% speed uses about 51% of full-speed power. Together with the 2-way valves in Section 4, which let flow drop when rooms need less cooling, the pumps spend most hours well below full speed.



Figure 5. Variable-speed IE3 pump (left, a product image rather than a site photo) and chilled-water valve actuators.

6. Measure 4: Air-Source Heat Pump Water Heating System (ASHP)

SRM University-AP uses air-to-air heat pumps operating on the refrigeration principle to generate hot water. The hot water is stored in mixing/storage tanks and supplied to the buildings as required. The system uses heat pump technology to generate hot water, providing an alternative to conventional electric water heating.



Figure 6. Water heater storage tank with its control panel on the rooftop.



Figure 7. Insulated hot-water storage tanks, circulation pumps and piping on the rooftop.



Figure 8. Water heater storage tank and control panel, second view.

List of Air Conditioners

S no	Tower name	Room No	Equipment Type	TR	Make	Model-Outdoor	Equipment Serial No-Out door	star rating	Year Of insulation
1	Tower-1	103	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0238	5	01-07-2025
2	Tower-1	104	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0245	5	01-07-2025
3	Tower-1	106	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0281	5	01-07-2025
4	Tower-1	107	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0264	5	01-07-2025
5	Tower-1	110	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0274	5	01-07-2025
6	Tower-1	205	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20076	5	24-08-2023
7	Tower-1	206	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUEWS12658	5	24-08-2023
8	Tower-1	207	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20073	5	24-08-2023
9	Tower-1	208	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20070	5	24-08-2023
10	Tower-1	210	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUEWS13131	5	24-08-2023
11	Tower-1	212	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20080	5	24-08-2023

12	Tower-1	213	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20071	5	24-08-2023
13	Tower-1	302	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS18615	5	25-08-2023
14	Tower-1	303	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUFWS15647	5	25-08-2023
15	Tower-1	304	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20034	5	25-08-2023
16	Tower-1	305	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20016	5	25-08-2023
17	Tower-1	306	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUGWS20069	5	26-08-2023
18	Tower-1	307	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUDWS06901	5	26-08-2023
19	Tower-1	310	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUEWS14987	5	26-08-2023
20	Tower-1	402	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNUEWS13072	5	26-08-2023
21	Tower-1	601	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0207	5	01-07-2025
22	Tower-1	602	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0279	5	01-07-2025
23	Tower-1	603	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0209	5	01-07-2025

24	Tower-1	604	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0241	5	01-07-2025
25	Tower-1	605	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0225	5	01-07-2025
26	Tower-1	606	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0221	5	01-07-2025
27	Tower-1	608	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0208	5	01-07-2025
28	Tower-1	609	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0280	5	01-07-2025
29	Tower-1	610-1	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO383	5	22-10-2024
30	Tower-1	612	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0271	5	01-07-2025
31	Tower-1	613	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0273	5	01-07-2025
32	Tower-1	614	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0276	5	01-07-2025
33	Tower-1	616	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0226	5	01-07-2025
34	Tower-1	701	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0266	5	01-07-2025
35	Tower-1	702	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0300	5	01-07-2025
36	Tower-1	703	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0275	5	01-07-2025
37	Tower-1	704	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0228	5	01-07-2025
38	Tower-1	705	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0251	5	01-07-2025

39	Tower-1	706	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0249	5	01-07-2025
40	Tower-1	707	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0263	5	01-07-2025
41	Tower-1	708	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0227	5	01-07-2025
42	Tower-1	709	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0234	5	01-07-2025
43	Tower-1	710	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0296	5	01-07-2025
44	Tower-1	711	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0267	5	01-07-2025
45	Tower-1	718	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0203	5	01-07-2025
46	Tower-1	802	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO310	5	25-10-2024
47	Tower-1	804	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO268	5	25-10-2024
48	Tower-1	812	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0219	5	01-07-2025
49	Tower-1	813	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0205	5	01-07-2025
50	Tower-1	817	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0285	5	01-07-2025
51	Tower-1	915-1	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO277	5	24-10-2024
52	Tower-1	916-1	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO367	5	24-10-2024

53	Tower-1	Gym room	Split AC	2	BLUE STAR	IC524DNU	IC524DNUKWA12B2B	5	22-11-2023
54	Tower-2	906	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO378	5	22-10-2024
55	Tower-2	905	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO384	5	22-10-2024
56	Tower-2	916-1	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO370	5	16-04-2025
57	Tower-2	506	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO379	5	23-10-2024
58	Tower-2	409	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO363	5	22-10-2024
59	Tower-2	412	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO375	5	22-10-2024
60	Tower-2	304	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO279	5	23-10-2024
61	Tower-2	206	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO358	5	25-10-2024
62	Tower-2	109	Split AC	1.5	BLUE STAR	IC518TNUR	BO-IC518TNURFXSI17799	5	06-09-2024
63	Tower-2	105	Split AC	1.5	BLUE STAR	IC518BNURWK	BI-IC518TNURWKJKSOO366	5	25-10-2024

64	Tower-3	Medical centre	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO285	5	10-05-2025
65	Tower-3	Care Centre	Split AC	2	BLUE STAR	IC52401114KW	06996	5	17-02-2024
66	Tower-3	102	Split AC	1.5	BLUE STAR	IC518TNOR	BO-IC518TNURFXSI17771	5	27-06-2024
67	Tower-3	106	Split AC	1.5	BLUE STAR	IC518TNOR	BO-IC518TNURFXSI17762	5	27-06-2024
68	Tower-3	207-2	Split AC	1.5	BLUE STAR	IC518TNUR	BO-IC518TNURFXSS17804	5	01-07-2024
69	Tower-3	208-2	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BI-IA518TNGWS18666	5	24-01-2024
70	Tower-3	307-2	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BT-IA518TNUGWS518	5	24-01-2024
71	Tower-3	405	Split AC	1.5	BLUE STAR	IC518TNOR	BO-IC518TNURFXSI17772	5	27-06-2024
72	Tower-3	405-1	Split AC	1.5	BLUE STAR	IC518BURWK	BO-IC518BNURWKJKSOO374	5	10-04-2025
73	Tower-3	604	Split AC	1.5	BLUE STAR			5	01-09-2025
74	Tower-3	704-4	Split AC	1.5	BLUE STAR	IC518TNOR	BO-IC518TNURFXSI17806	5	27-06-2024
75	Tower-3	706	Split AC	1.5	BLUE STAR	IC518TNUR	BO-IC518TNURFXSI17812	5	27-06-2024
76	Tower-3	708-3	Split AC	1.5	BLUE STAR	IA518TNU/BI-1A518TNU	IA518TNUGWS20565	5	27-08-2023
77	Tower-3	802	Split AC	1.5	BLUE STAR	1A3180NU/B1-1A3180NU	B0-1A3180NUBVA00693	5	13-07-2021

78	Tower-3	808	Split AC	1.5	BLUE STAR	IC518TNUR	BO-IC518TNURFXSI17761	5	19-08-2024
79	Tower-3	901-1	Split AC	1.5	BLUE STAR	IC518TNOR	BO-IC518TNURFXSI17820	5	27-06-2024
80	Tower-3	901-2	Split AC	1.5	BLUE STAR	IC518TNOR	BO-IC518TNURFXSI17798	5	27-06-2024
81	Tower-3	903-2	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUGWS18503	5	23-11-2023
82	Tower-3	904-1	Split AC	1.5	BLUE STAR	BO-ICS18NURWK	YS03199	5	01-09-2025
83	Tower-3	904-2	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BT-IA518TNGW518655	5	24-01-2024
84	Tower-4	905	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO365	5	28-10-2024
85	Tower-4	805	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO376	5	28-10-2024
86	Tower-4	607	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO264	5	27-10-2024
87	Tower-4	603	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO357	5	27-10-2024
88	Tower-4	104	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO265	5	28-10-2024
89	Tower-4	110	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO271	5	28-10-2024

90	Tower-4	203	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO368	5	27-10-2024
91	Tower-4	213	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUEWS14324	5	27-08-2023
92	Tower-4	509	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUDWS08804	5	27-08-2023
93	Tower-4	514	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0198	5	01-07-2025
94	Tower-4	602	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUDWS09580	5	31-05-2021
95	Tower-4	604	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUDWS08791	5	21-08-2023
96	Tower-4	608	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0182	5	01-07-2025
97	Tower-4	609	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0214	5	01-07-2025
98	Tower-4	613	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUEWS14293	5	21-08-2023
99	Tower-4	615	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0177	5	01-07-2025
100	Tower-4	616	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0199	5	01-07-2025
101	Tower-4	617	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0050	5	01-07-2025
102	Tower-4	618	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0183	5	01-07-2025

103	Tower-4	702	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0174	5	01-07-2025
104	Tower-4	705	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0211	5	01-07-2025
105	Tower-4	707	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0178	5	01-07-2025
106	Tower-4	710	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0181	5	01-07-2025
107	Tower-4	711	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0213	5	01-07-2025
108	Tower-4	712	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUDWS08799	5	21-08-2023
109	Tower-4	713	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0176	5	01-07-2025
110	Tower-4	714	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUGWS22023	5	21-08-2023
111	Tower-4	715	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0218	5	01-07-2025
112	Tower-4	717	Split AC	1.5	TOSIBA	RAS-18Q3ACV5SG-INT	025157545X0209	5	01-07-2025
113	Tower-4	806	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUDWS09034	5	21-08-2023
114	Tower-4	807	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUEWS15711	5	21-08-2023
115	Tower-4	907	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUGWS22268	5	21-08-2023

116	Tower-4	908	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUGWS20554	5	21-08-2023
117	Tower-4	Gym room	Split AC	2	BLUE STAR	IC524DNU/EO-IC524DNU	TG0001	5	22-11-2023
118	Tower-5	601	Split AC	1.5	BLUE STAR	1A3180NU/B1-1A3180NU	BO-1A3180NUBVA00468	5	22-08-2023
119	Tower-5	804	Split AC	1.5	BLUE STAR	1A3180NU/B1-1A318CNU	B0-1A3180NUBVA00675	5	01-06-2018
120	Tower-5	817	Split AC	1.5	BLUE STAR	1A3180NU/B1-1A3180NU	B0-1A3180NUBYA00660	5	22-08-2023
121	Tower-5	801	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUDWS08792	5	22-08-2023
122	Tower-5	802	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO355	5	29-10-2024
123	Tower-5	809	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUGWS22261	5	22-08-2023
124	Tower-5	808	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUEWS14311	5	22-08-2023
125	Tower-5	708	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO369	5	29-10-2024
126	Admin	President cabin	Split AC	1.5	BLUE STAR	IA518TNU/BI-IA518TNU	BO-IA518TNUEWS14321	5	01-09-2023

127	Vikram Sarabhai	104	Split AC	2	BLUE STAR	IC524DNU/EO-IC524DNU	BO-IC524DNUKWA07067	5	29-12-2023
128	Vikram Sarabhai	104	Split AC	2	BLUE STAR	IC524DNU/EO-IC524DNU	BO-IC524DNUKWA07063	5	29-12-2023
129	Vikram Sarabhai	104	Split AC	2	BLUE STAR	IC524DNU/EO-IC524DNU	BO-IC524DNUKWA07065	5	29-12-2023
130	Vikram Sarabhai	ITKM	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO372	5	10-05-2025
131	Annapurna mess	Office	Split AC	2	BLUE STAR	1A324YNO/B1-1A324	B1-1A324YNUDV04019	5	13-07-2021
132	SRK block	314(Chemistry lab)	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO372	5	23-10-2024
133	Utility-1	Office	Split AC	1.5	BLUE STAR	BI-3HW24FBTV	UEO001	5	13-07-2021
134	Utility-1	LT ROOM	Split AC	2.5	BLUE STAR	IM330AANU1	IM330AANUIFXV00653	5	27-04-2024
135	Utility-1	LT ROOM	Split AC	2.5	BLUE STAR	IM330AANU1/B0	L5248501KJ01S19010093	5	27-04-2024
136	Utility-1	LT ROOM	Split AC	2.5	BLUE STAR	IM330AANU/B1-IM330AANU1	L5248501KJ01S1901066	5	27-04-2024
137	Utility-2	LT ROOM	Split AC	2.5	BLUE STAR	IM330AANU/B1-IM330AANU1	L5248501KJ01S1901075	5	27-04-2024
138	Gate plaza	Security office	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO370	5	25-10-2024

139	Gate plaza	Security office	Split AC	1.5	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJKSOO361	5	25-10-2024
140	SR Block	301	Split AC	1.5 TR	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJXS00382	5	01-03-2025
141	CV Block	LT ROOM	Split AC	1.5 TR	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJXS00259	5	13-02-2025
142	X- lab	Server room	Split AC	2 TR	BLUE STAR	IC518BNURWK	BI-IM330AANU1HXV01388	5	13-02-2025
143	X- lab	UPS Room	Split AC	2 TR	BLUE STAR	IC518BNURWK	BO-IC518BNURWKJXS00310	5	13-02-2025
144	Vedavathi	Ups	Split AC	1.5	BLUE STAR	IE518PNU	BI-IE518PNUDYA16615	5	22-06-2025
145	Utility-2	Food Court	Split AC	1.5	BLUE STAR	IC524DNU	IC524DNUHWA10321	5	01-10-2024
146	Gate plaza	Security office	Split AC	1.5	BLUE STAR	IC518BNURWK	SO0001	5	25-10-2024
147	Gate plaza	Security office	Split AC	1.5	BLUE STAR	IC518BNURWK	SO0002	5	25-10-2024
148	Gate plaza	Security office	Split AC	1.5	BLUE STAR	IC518BNURWK	SO0003	5	25-10-2024
149	Gate plaza	Security office	Split AC	1.5	BLUE STAR	IC518BNURWK	SO0004	5	25-10-2024
150	Gate plaza	Security office	Split AC	1.5	BLUE STAR	IC518BNURWK	SO0005	5	25-10-2024
151	X lab	319	Split AC	1.5	BLUE STAR	BI-IE518PNU	BI-IE518PNUCYA14534	5	04-07-2025