



**KALASALINGAM**  
**ACADEMY OF RESEARCH AND EDUCATION**  
**(DEEMED TO BE UNIVERSITY)**

Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A" Grade



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### **SUPPORTING DOCUMENTS- SENSOR BASED ENERGY EFFICIENT SYSTEMS**

Sensor based energy efficient systems such as deep freezers refrigerators, food warmers and super fans are installed. Further, researchers from the institution have developed sensor based air-conditioner and coolers that adjust the cooling based on the number of people accommodated in the room. The geotagged photos for sensor based energy efficient equipment are attached below:

## Refrigerator - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.23" N  |
| LONGITUDE | 77° 40' 35.58" E |

## Refrigerator - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.29" N  |
| LONGITUDE | 77° 40' 35.46" E |

## Refrigerator - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.30" N  |
| LONGITUDE | 77° 40' 35.41" E |

## Refrigerator - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.00" N  |
| LONGITUDE | 77° 40' 35.64" E |

## Refrigerator - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.02" N  |
| LONGITUDE | 77° 40' 35.61" E |

## Refrigerator - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.02" N  |
| LONGITUDE | 77° 40' 35.61" E |





## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.30" N  |
| LONGTITUE | 77° 40' 35.40" E |

## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.30" N  |
| LONGITUDE | 77° 40' 35.37" E |

## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.12" N  |
| LONGITUDE | 77° 40' 35.52" E |

## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.65" N  |
| LONGITUDE | 77° 40' 35.58" E |

## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 17.02" N  |
| LONGITUDE | 77° 40' 33.12" E |

## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 16.81" N  |
| LONGITUDE | 77° 40' 33.23" E |



## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 16.93" N  |
| LONGITUDE | 77° 40' 33.20" E |

## Deep Freezer - Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 16.94" N  |
| LONGITUDE | 77° 40' 33.15" E |



## Food Warmer- Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.09" N  |
| LONGITUDE | 77° 40' 34.82" E |

## Food Warmer- Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 19.09" N  |
| LONGITUDE | 77° 40' 34.82" E |

## Food Warmer- Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 17.34" N  |
| LONGITUDE | 77° 40' 32.44" E |

## Food Warmer- Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 17.32" N  |
| LONGITUDE | 77° 40' 32.45" E |

## Food Warmer- Hostel



|            |                  |
|------------|------------------|
| LATITUDE   | 9° 34' 21.61" N  |
| LONGTITUDE | 77° 40' 38.01" E |

## Food Warmer- Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 22.98" N  |
| LONGITUDE | 77° 40' 39.10" E |

## Food Warmer- Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 23.07" N  |
| LONGITUDE | 77° 40' 39.03" E |



## Food Warmer- Hostel



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 23.53" N  |
| LONGITUDE | 77° 40' 41.62" E |



## Super Fan at PG Hostel



|            |                  |
|------------|------------------|
| LATITUDE   | 9° 34' 24.22" N  |
| LONGTITUDE | 77° 40' 40.45" E |

## Super Fan at PG Hostel



|            |                  |
|------------|------------------|
| LATITUDE   | 9° 34' 24.03" N  |
| LONGTITUDE | 77° 40' 40.72" E |

## In-house Developed Sensor-Based Air-conditioners



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 27.82" N  |
| LONGITUDE | 77° 40' 44.84" E |

## In-house Developed Sensor-Based Air-conditioners



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 27.82" N  |
| LONGITUDE | 77° 40' 44.84" E |



## In-house Developed Sensor-Based Air-coolers



|           |                  |
|-----------|------------------|
| LATITUDE  | 9° 34' 24.32" N  |
| LONGITUDE | 77° 40' 36.11" E |

Estate Officer

Registrar