

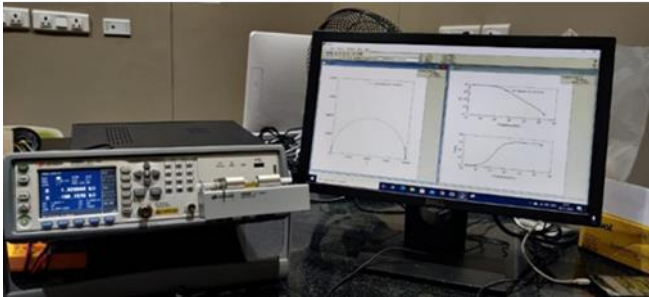
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Department of Physics

Name of the Research Lab	<div>LCR Meter</div> 	
Advance materials lab (X -301b)		
Name of the Equipment/Instrument		
LCR meter		
Manufacturer/Company		
Keysight		
Model No.		
E4980A		
Month/Year of Installation		
October 2019		
Source of Fund	List of Measurements/Methods Dielectric or Impedance spectroscopy: <ul style="list-style-type: none">• Impedance-Phase (Z, theta)• Capacitance – Loss Details of Faculty In-charge (Name, Contact Number, Email ID) Dr Pranab Mandal/9851406353/ pranab.m@srmmap.edu.in Brief Description/Novelty of the Equipment <ul style="list-style-type: none">• Voltage: 50 mV – 3 V AC; DC +-40 V• Source frequency Range: 20 Hz to 2 MHz	
SRM University - AP		


Department of Physics

Name of the Research Lab		
X-ray diffractometer Lab		
Name of the Equipment/Instrument		
Powder X-ray diffractometer		
Manufacturer/Company		
Spectris Pte Ltd		
Model No.		
Empyrean		
Month/Year of Installation		
October 2019		
Source of Fund		
SRM University - AP		
List of Measurements/Methods		
X-ray diffraction experiments on Powder and thin film samples <ul style="list-style-type: none">• Reflection and transmission mode		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr Pranab Mandal/9851406353/ pranab.m@srmap.edu.in		
Dr Nimai Mishra/7003239796/ nimai.m@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• 2θ: 5 – 120 °• Radiation: Cu - Kα (λ = 1.54 Å)		


Department of Physics

Name of the Research Lab		
Ceramic synthesis Lab		
Name of the Equipment/Instrument		
High-temperature furnace - 1		
Manufacturer/Company		
ANTS Innovation Pvt Ltd		
Model No.		
MF1150		
Month/Year of Installation		
October 2019		
Source of Fund		
SRM University - AP		
List of Measurements/Methods		
Materials Synthesis <ul style="list-style-type: none"> Solid state synthesis of oxide materials Ashing 		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr Pranab Mandal/9851406353/ pranab.m@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none"> Max Temperature 1050C Ramp rate: 5 – 10 °C/min 		


Department of Physics

Name of the Research Lab	
Ceramic synthesis Lab	
Name of the Equipment/Instrument	
High-temperature furnace - 2	
Manufacturer/Company	
ANTS Innovation Pvt Ltd	
Model No.	
1200TF	
Month/Year of Installation	
October 2019	
Source of Fund	
SRM University - AP	
List of Measurements/Methods	
Materials Synthesis: <ul style="list-style-type: none"> • Solid state synthesis of oxide materials • Sintering or calcination under N₂/O₂ gas atmosphere 	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr Pranab Mandal/9851406353/ pranab.m@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> • Max Temperature 1100 °C • Ramp rate: 5 – 10 °C/min 	

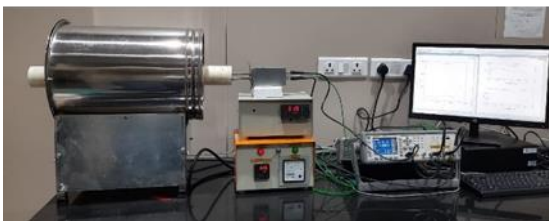
Department of Physics

Name of the Research Lab		
Ceramic synthesis Lab		
Name of the Equipment/Instrument		
High-temperature furnace - 3		
Manufacturer/Company		
ANTS Innovation Pvt Ltd		
Model No.		
1400MF		
Month/Year of Installation		
October 2019		
Source of Fund		
SRM University - AP		
List of Measurements/Methods		
Materials Synthesis		
<ul style="list-style-type: none">• Solid state synthesis of oxide materials		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr Pranab Mandal/9851406353/ pranab.m@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• Max Temperature 1300 °C• Ramp rate: 5 – 10 °C/min		


Department of Physics

Name of the Research Lab	
Ceramic synthesis Lab	
Name of the Equipment/Instrument	
High-temperature furnace - 4	
Manufacturer/Company	
Carbolite Gero Ltd	
Model No.	
CWF 13/05	
Month/Year of Installation	
July 2020	
Source of Fund	
DST, Govt. of India	
ECR/2018/001252	
List of Measurements/Methods	
Materials Synthesis <ul style="list-style-type: none">Solid state synthesis of oxide materials	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr Pranab Mandal/9851406353/ pranab.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">Max Temperature 1200 °CRamp rate: 5 – 10 °C/min	

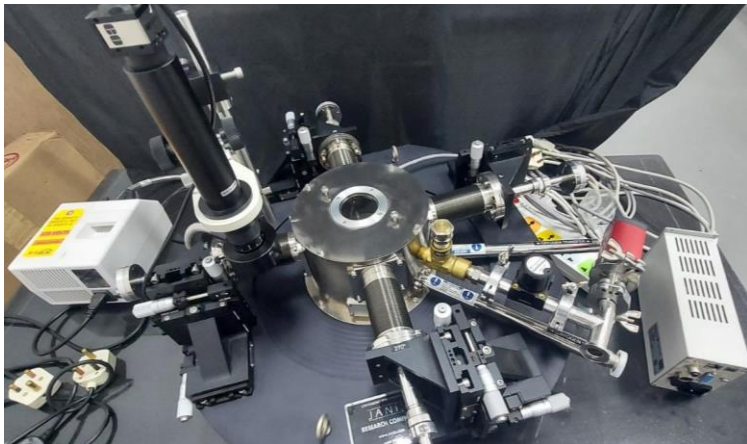
Department of Physics

Name of the Research Lab	
Advance materials lab (X -301 (b))	
Name of the Equipment/Instrument	
Tubular furnace for measurement	
Manufacturer/Company	
Custom Made	
Model No.	
ECR1252/EQ1	
Month/Year of Installation	
January 2020	
Source of Fund	
DST, Govt. of India ECR/2018/001252	
List of Measurements/Methods	
Temperature dependence of <ul style="list-style-type: none"> Impedance and dielectric permittivity (with LCR meter) Pyroelectric current (with external SMU) 	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr Pranab Mandal/9851406353/ pranab.m@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> Custom made furnace and impedance probe with EM shielding Fully interfaced using LABVIEW 	


Department of Physics

Name of the Research Lab		
Advance materials lab (X -301 (b))		
Name of the Equipment/Instrument		
Ferroelectric/ Piezoelectric Analyzer		
Manufacturer/Company		
Radiant Technologies Inc.		
Model No.		
PLC21119-421		
Month/Year of Installation		
January 2020		
Source of Fund		
DST, Govt. of India		
ECR/2018/001252		
List of Measurements/Methods		
Ferroelectric and Piezoelectric Characterization of <ul style="list-style-type: none">• Thin films• Ceramics and single crystals		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr Pranab Mandal/9851406353/ pranab.m@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• Max voltage 100 V (internal) and 10 kV (external amplifier)• Frequency: 0.03 Hz – 5 kHz• Polarization – electric field (PE), PUND, strain-field measurement, leakage current etc		


Department of Physics

Name of the Research Lab		
Device Physics Laboratory		
Name of the Equipment/Instrument		
Low Temperature Probe Station		
Manufacturer/Company		
Janis Research Company, LLC, USA		
Model No.		
ST-LN-500		
Month/Year of Installation		
November 2020		
Source of Fund	List of Measurements/Methods Variable temperature electrical measurements for MEMS, nanoscale electronics, superconductivity, ferroelectrics, material sciences, optics	
SRM University AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Sabyasachi Mukhopadhyay/ Dr. Jatis Kumar Dash/ 9851406353,7003239796/ sabyasachi.m, jatis.d@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• Open-cycle probe station with Temperature range from ~77 K to 475 K (liquid nitrogen)• Accommodates up to 2 in (51 mm) diameter wafers• Electrical measurements from DC to 67 GHz• Wide variety of inexpensive LF probe tips that are easy to replace• Very low triaxial probe arms leakage current of just a few fA• Non-contact, non-destructive Kelvin probes		


Department of Physics

Name of the Research Lab		
e-transport Laboratory		
Name of the Equipment/Instrument		
Impedance Analyzer		
Manufacturer/Company		
Wayne Kerr Electronics, UK		
Model No.		
6510B		
Month/Year of Installation		
November 2019		
Source of Fund		
DST, Govt. of India ECR/2017/001937		
List of Measurements/Methods		
AC Measurement Parameters: Impedance (Z); Phase Angle (θ); Capacitance (C); Dissipation Factor (D); Inductance (L); Quality Factor (Q); Resistance (R); Reactance (X); Conductance (G); Susceptance (B); Admittance (Y)		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Sabyasachi M /9494076194 / sabyasachi.m@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">Provides precise high frequency impedance measurementsCharacterizes components from 20 Hz to 10 MHzOffers excellent 0.05% basic measurement accuracyDisplays Polar and Complex plots		

Department of Physics

Name of the Research Lab	
e-transport Laboratory	
Name of the Equipment/Instrument	
Sub-femtoamp Remote Source Meter	
Manufacturer/Company	
Keithley	
Model No.	
6430	
Month/Year of Installation	
November 2020	
Source of Fund	
DST, Govt. of India ECR/2017/001937	
List of Measurements/Methods	
AC Voltage, AC Current, DC Voltage, DC Current, Resistance	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sabyasachi M /9494076194 / sabyasachi.m@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">No. of Channels: 1ChannelsSource Voltage Range: $\pm 200\text{mV}$ to $\pm 200\text{V}$Source Current Range: $\pm 1\text{pA}$ to $\pm 100\text{mA}$Resistance Measurement Range: 2 ohm to 20 Tohm	

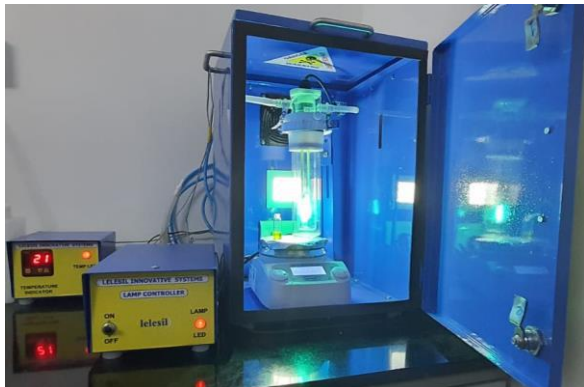
Department of Physics

Name of the Research Lab	
Device Physics Laboratory	
Name of the Equipment/Instrument	
Source-Measurement Unit (SMU)	
Manufacturer/Company	
Keithley	
Model No.	
2636B	
Month/Year of Installation	
November 2019	List of Measurements/Methods AC Voltage, AC Current, DC Voltage, DC Current, Resistance Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Sabyasachi M /9494076194 / sabyasachi.m@srmap.edu.in Brief Description/Novelty of the Equipment <ul style="list-style-type: none"> No. of Channels: 2 Channels Source Voltage Range: $\pm 200\text{mV}$ to $\pm 40\text{V}$ Source Current Range: $\pm 100\text{pA}$ to $\pm 100\text{mA}$ Resistance Measurement Range: 2 ohm to 20 Gohm
Source of Fund	
SRM University AP	


Department of Physics

Name of the Research Lab	
Science of Ions and Molecular Laboratory	
Name of the Equipment/Instrument	
Potentiostat/Galvanostat	
Manufacturer/Company	
Biologic, France	
Model No.	
SP150	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India (DST/INSPIRE/04/2017/001392)	
List of Measurements/Methods	
Electrochemistry, Fuel Cells, Battery Characterization, Solar-Cell characterization, Corrosion. DC and AC Measurement Parameters: Impedance (Z); Phase Angle (θ); Capacitance (C); Dissipation Factor (D); Inductance (L); Quality Factor (Q); Resistance (R); Reactance (X); Conductance (G); Susceptance (B); Admittance (Y); Cyclic Voltammetry, Chrono Amperometry.	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Mallikarjuna Rao M /73820 25117/mallikarjuna.m@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">• Provides precise high frequency impedance measurements• Characterizes components from 10 μHz to 1 MHz• Offers excellent 0.05% basic measurement accuracy• Displays Polar and Complex plots	

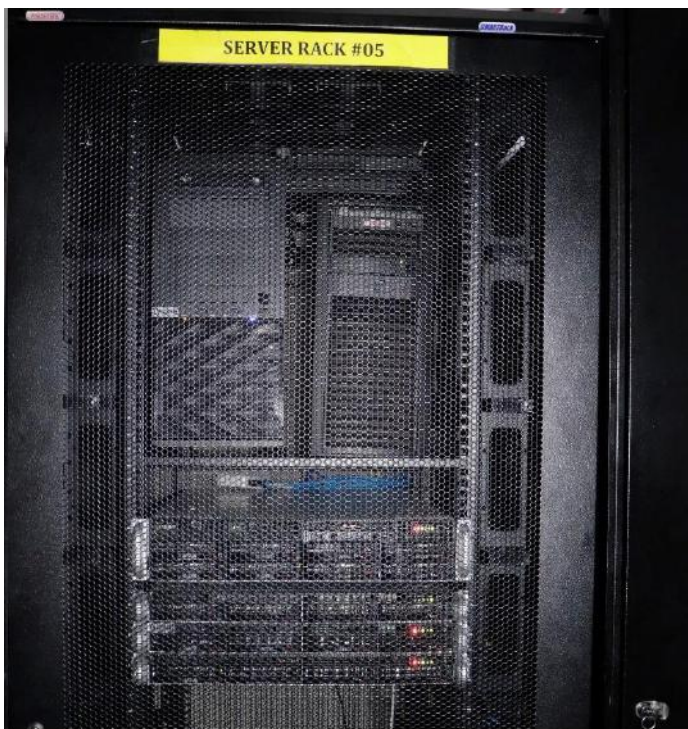
Department of Physics

Name of the Research Lab		
Science of Ions and Molecular Laboratory		
Name of the Equipment/Instrument		
Photo Chemical Reactor		
Manufacturer/Company		
Lelcil Pvt Ltd		
Model No.		
NA		
Month/Year of Installation		
December 2020		
Source of Fund		
DST-INSPIRE, Govt. of India (DST/INSPIRE/04/2017/001392).		
List of Measurements/Methods		
Photo Chemical reactions, such as catalysis, degradation.		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Mallikarjuna Rao M /73820 25117 mallikarjuna.m@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">Both UV and Visible (Hg Arc based) light sources (150 W each) available.300- and 500-ml volume capacity triple jacketed vessels are available.		

Department of Physics

Name of the Research Lab		
Device Physics Laboratory		
Name of the Equipment/Instrument		
Sputtering cum Thermal Evaporator Unit		
Manufacturer/Company		
EXCEL instruments, Pune		
Model No.		
NA		
Month/Year of Installation		
January 2020		
Source of Fund	List of Measurements/Methods Growth tool for Metallic and semiconducting thin films Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Jatis Kumar Dash/9440389975/jatis.d@srmmap.edu.in Brief Description/Novelty of the Equipment <ul style="list-style-type: none">• Chamber type: SS chamber with front door and ports for turbo pump, vacuum gauges, viewing, gas inlet, Quartz crystal monitor, thermal sources and venting• Sputtering source: Water cooled DC magnetron Sputter source for 2" dia target with shutter• Thermal source: Water cooled Thermal source for boat/filament• Sample Holder: 1" dia sample capable of heating to 800 oC with PID programmable controller• Gas flow: Digital MFC (for standard gases) 0-100 SCCM with valve• Vacuum gauges: High vacuum gauge and pirani gauge with display• Pump: Turbo with rotary pump• Base pressure: ~ 10-6 Torr	
SRM University AP		
List of Measurements/Methods		
Growth tool for Metallic and semiconducting thin films		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Jatis Kumar Dash/9440389975/jatis.d@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• Chamber type: SS chamber with front door and ports for turbo pump, vacuum gauges, viewing, gas inlet, Quartz crystal monitor, thermal sources and venting• Sputtering source: Water cooled DC magnetron Sputter source for 2" dia target with shutter• Thermal source: Water cooled Thermal source for boat/filament• Sample Holder: 1" dia sample capable of heating to 800 oC with PID programmable controller• Gas flow: Digital MFC (for standard gases) 0-100 SCCM with valve• Vacuum gauges: High vacuum gauge and pirani gauge with display• Pump: Turbo with rotary pump• Base pressure: ~ 10-6 Torr		

Department of Physics

Name of the Research Lab		
Computation Laboratory		
Name of the Equipment/Instrument		
HPCC- VENUS		
Manufacturer/Company		
Tyrone/ Camarero DS300TW-14R		
Model No.		
NA		
Month/Year of Installation		
January 2020		
Source of Fund		
SERB-DST, BRNS, DST		
List of Measurements/Methods		
<p>Vienna Ab-Initio Simulation Package (VASP) is a package for performing ab-initio quantum-mechanical molecular dynamics (MD) using pseudopotentials and a plane wave basis set.</p> <p>Quantum Espresso: It is based on density-functional theory, plane waves, and pseudopotentials. Ground State Calculation: Self-consistent total energies, forces, stresses; Several exchange-correlation functionals: from LDA to generalized-gradient corrections (PW91, PBE, B88-P86, BLYP) to meta-GGA, exact exchange (HF) and hybrid functionals (PBE0, B3LYP, HSE).</p>		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Prof. Ranjit Thapa/ Dr. Mahesh Kumar Ravva/9176296112/ ranjit.t@srmap.edu.in / mahesh.r@srmap.edu.in		

Brief Description/Novelty of the Equipment

- *Five node servers with total 200 cores, 2.18 TB RAM and storage in mater node of 12 TB*

Two Nodes: Each with Processor – Intel

Number of processors – 2

Processor Type – Xeon

Processor Model - E5-2697 V4

Processor Core – 18

Processor Speed – 2.3GHz

Chipset Type – Intel C612

Cache Per Processor - 45MB Level 3

Memory – 512 GB

Another Two Nodes: each with Processor – Intel

Number of processors – 2

Processor Model – Intel 6248R

Processor Core – 24

Processor Speed – 3GHz

Chipset Type – Intel C621

Cache Per Processor – 35.75MB

Memory – 384 GB

Another one Node Processor – Intel

Number of processors – 2

Processor Model – Intel 6226R

Processor Core – 16

Processor Speed – 2.9GHz

Cache Per Processor – 22MB

Memory – 384 GB


Department of Physics

Name of the Research Lab	
Device Physics Lab	
Name of the Equipment/Instrument	
Spin Coating Unit	
Manufacturer/Company	
HOLMARC Opto-Mechatronics pvt. Ltd, India	
Model No.	
HO-TH-05	
Month/Year of Installation	
September 2021	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Thin film Deposition through spin coat	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sabyasachi Mukhopadhyay /9563042194/ sabyasachi.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Typical process of spin coating involves depositing a small puddle of fluid resin onto the centre of the substrate <ul style="list-style-type: none"> • Chuck diameters : 14mm, 22 mm, 36 mm (Outer diameter of the O ring) • Spinning speed – 60 to 9999 rpm • Transparent Safety Lid over the Working Chamber • Non-volatile Program Memory (up to 9) • Stand holder to hold pipette to dispense solution • Inlet and outlet for Inert Gas Purging, 6mm tubing 	


Department of Physics

Name of the Research Lab	
Device Physics Lab	
Name of the Equipment/Instrument	
UV Ozone Cleaner	
Manufacturer/Company	
HOLMARC Opto-Mechatronics pvt. Ltd, India	
Model No.	
HO-TH-UVT150	
Month/Year of Installation	
September 2021	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Remove bio contaminants from the substrates	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sabyasachi Mukhopadhyay / 9563042194/ sabyasachi.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Removes the bio contaminants from the substrate <ul style="list-style-type: none"> • UV lamp type - High Ozone UV Lamp • UV lamp supply - 4000 V, 30 mA • Max substrate size - 150 mm x 150 mm • Duration - 1 - 99 sec / min / hr • With Oxygen inlet port, Ozone removal pump, LCD display unit, Sample temperature measurement feature, Buzzer for indication completion of cleaning, locking feature for locking sample feeding tray to avoid opening during operation. 	


Department of Physics

Name of the Research Lab		
Solid State Ionics Lab		
Name of the Equipment/Instrument		
LCR Meter		
Manufacturer/Company		
HIOKI, Japan		
Model No.		
IM3536		
Month/Year of Installation		
February 2021		
Source of Fund		
DST-SERB -SRG, Govt. of India SRG/2019/000767		
List of Measurements/Methods		
AC Measurement Parameters: Impedance (Z); Phase Angle (θ); Capacitance (C); Dielectric Constant (K); Inductance (L); Resistance (R); Reactance (X); Conductance (σ); Admittance (Y).		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Laxminarayana Patro / 9668686358 laxminarayana.p@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">Provides precise high frequency impedance measurementsFrequency range - 4 Hz to 8 MHzDisplays Complex Impedance plots		


Department of Physics

Name of the Research Lab	
Solid State Ionics Lab	
Name of the Equipment/Instrument	
LCR Meter : HT Set-up	
Manufacturer/Company	
Marine India	
Model No.	
RT-500C	
Month/Year of Installation	
March 2021	
Source of Fund	
DST-SERB -SRG, Govt. of India	
SRG/2019/000767	
List of Measurements/Methods	
High temperature impedance measurement	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Laxminarayana Patro / 9668686358 laxminarayana.p@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">• Interfaced with the LCR meter• Automatic stored data at different temperatures	


Department of Physics

Name of the Research Lab	
Solid State Ionics Lab	
Name of the Equipment/Instrument	
Tube Furnace	
Manufacturer/Company	
Ants Lab	
Model No.	
1200C	
Month/Year of Installation	
November 2020	
Source of Fund	
DST-SERB-SRG, Govt. of India SRG/2019/000767	
List of Measurements/Methods	
High temperature calcination and sintering of materials	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Laxminarayana Patro / 9668686358 /laxminarayana.p@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> Maximum temperature up to 1200 °C Vacuum can be created Gas Flow during heating can be done 	

Department of Physics

Name of the Research Lab		
Solid State Ionics Lab		
Name of the Equipment/Instrument		
Vacuum Oven		
Manufacturer/Company		
InLab Equipments		
Model No.		
NA		
Month/Year of Installation		
July 2021		
Source of Fund		
SRM University - AP		
List of Measurements/Methods		
Drying of samples		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Laxminarayana Patro / 9668686358		
laxminarayana.p@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none"> ● Max Temperature upto 150 °C ● Vacuum can be created 		

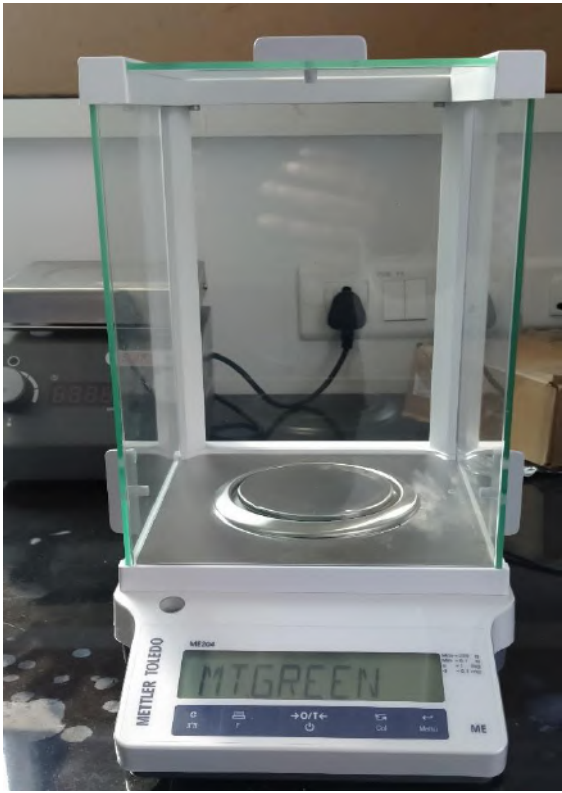
Department of Physics

Name of the Research Lab		
Solid State Ionics Lab		
Name of the Equipment/Instrument		
Hydraulic Press		
Manufacturer/Company		
Technosearch Instruments		
Model No.		
M20		
Month/Year of Installation		
March 2021		
Source of Fund		
DST- SERB-SRG SRG/2019/000767		
List of Measurements/Methods		
Pellets of different sizes can be made		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Laxminarayana Patro / 9668686358 /laxminarayana.p@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">● Pellets from 8 - 13 mm diameters can be made● High pressure upto 15 tons/cm² can be applied		


Department of Physics

Name of the Research Lab	
Solid State Ionics Lab	
Name of the Equipment/Instrument	
Planetary Ball Mill	
Manufacturer/Company	
Insmart Systems	
Model No.	
MBM07	
Month/Year of Installation	
September 2020	
Source of Fund	
DST –SERB-SRG	
SRG/2019/000767	
List of Measurements/Methods	
Synthesis of Nano-materials/powders	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Laxminarayana Patro / 9668686358 /laxminarayana.p@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">● Prepare powders of very fine size● Synthesis of solid electrolytes	

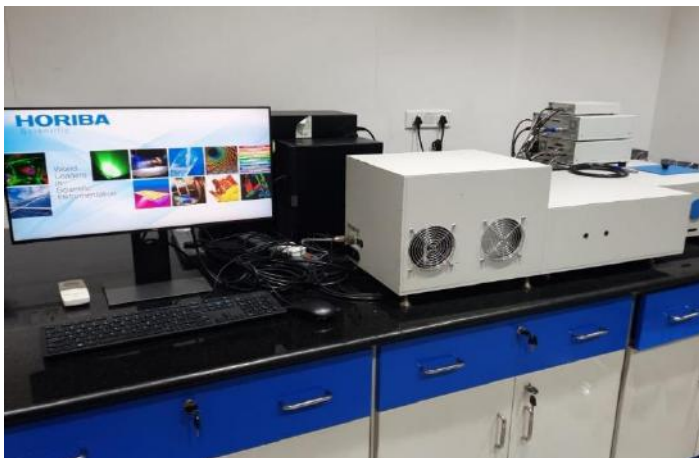
Department of Physics

Name of the Research Lab	
Solid State Ionics Lab	
Name of the Equipment/Instrument	
Density Measurement set-up	
Manufacturer/Company	
Mettler Toledo	
Model No.	
ME204	
Month/Year of Installation	
July/2021	
Source of Fund	
SRM University AP	
List of Research/Tests that can be done	
Weighing of chemicals	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Laxminarayana Patro / 9668686358 laxminarayana.p@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> ● High precision upto 0.1mg ● Density measurement kit included 	


Department of Physics

Name of the Research Lab		
Device Physics Laboratory		
Name of the Equipment/Instrument		
Deposition furnace (LPCVD)		
Manufacturer/Company		
Technosearch Instruments		
Model No.		
Carbolite		
Month/Year of Installation		
February 2020		
Source of Fund		
SRM University AP		
List of Measurements/Methods		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Jatis Kumar Dash / 9440389975 / jatis.d@srmap.edu.in		
Brief Description/Novelty of the Equipment		


Department of Chemistry

Name of the Research Lab		
Semiconductor Nano crystal research lab		
Name of the Equipment/Instrument		
Horiba florolog - 3		
Manufacturer/Company		
Hariba(USA)		
Model No.		
FL-1039A/40A		
Month/Year of Installation		
December 2019		
Source of Fund	List of Measurements/Methods Fluorolog-3-based solutions are available for measuring solid and liquid samples, with high throughput screening, fast 3D scans, cryogenic or elevated temperatures , absolute quantum yields, microliter volumes, stopped-flow mixing or titration, and even micron scale measurements using a microscope.	
SRM University AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr.Nimai Mishra/7003239796/nimai.m@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
HORIBA's Fluorolog-3 is manufactured with our own gratings, CCDs, InGaAs array detectors, and fast PMTs, offering you everything you need to build the perfect system		


Department of Chemistry

Name of the Research Lab		
Semiconductor Nano crystal research lab		
Name of the Equipment/Instrument		
UV 2600I (Shimadzu)		
Manufacturer/Company		
Shimadzu		
Model No.		
UV2600I		
Month/Year of Installation		
November 2021		
Source of Fund	<div>List of Measurements/Methods</div> <p>UV–Vis spectrometers are used to measure the reflectance of light, and can be analyzed via the Forouhi–Bloomer dispersion equations to determine the Index of Refraction (n) and the Extinction Coefficient (k) of a given film across the measured spectral range.</p> <div>Details of Faculty In-charge (Name, Contact Number, Email ID)</div> <p>Dr.Nimai Mishra/7003239796/nimai.m@srmap.edu.in</p> <div>Brief Description/Novelty of the Equipment</div> <p>The UV-2600i is a single monochromator system, whose wavelength range can easily be expanded to the near-infrared region of 1400 nm using the optional integrating sphere</p>	
SRM University AP		
List of Measurements/Methods		
UV–Vis spectrometers are used to measure the reflectance of light , and can be analyzed via the Forouhi–Bloomer dispersion equations to determine the Index of Refraction (n) and the Extinction Coefficient (k) of a given film across the measured spectral range.		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr.Nimai Mishra/7003239796/nimai.m@srmap.edu.in		
Brief Description/Novelty of the Equipment		
The UV-2600i is a single monochromator system , whose wavelength range can easily be expanded to the near-infrared region of 1400 nm using the optional integrating sphere		


Department of Chemistry

Name of the Research Lab		
Semiconductor Nano crystal research lab		
Name of the Equipment/Instrument		
Glove box		
Manufacturer/Company		
Vigor (USA)		
Model No.		
168P1250BA1NB		
Month/Year of Installation		
October 2018		
Source of Fund		
SRM University AP		
List of Measurements/Methods		
Manipulate materials where a separate atmosphere is desired.		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr.Nimai Mishra/7003239796/nimai.m@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Inert gas <i>gloveboxes</i> for research, development & production applications.		


Department of Chemistry

Name of the Research Lab	
Collided synthesis Laboratory	
Name of the Equipment/Instrument	
Tecan Spark Multimode Reader	
Manufacturer/Company	
TECAN, Austria	
Model No.	
SPARK	
Month/Year of Installation	
November 2020	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
UV-VIS absorption and fluorescence (static and time resolved)	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sabyasachi Chakraborty / 9851406353, / sabyasachi.c@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">• Plate format - 6-384 well plate,• Light source - High Energy Xenon Flash Lamp,• UV-VIS Absorbance- 200-1000nm 0-4 OD,• Fluorescence Intensity - Excitation: 230-900nm, Emission: 280-900 nm, 0.25 pMol/well• Sensitivity - 0.25 pMol/well (From top reading) and <-2.5 pMol/well (From bottom reading)• Time-resolved fluorescence - Excitation: 334 nm• Emission: 400-700 nm• Luminescence - 360-670 nm,• Incubator temperature - Up to 42 °C• Shaking - Linear, Orbital & double orbital in 3 diff. speed, Cuvette port - Yes	


Department of Chemistry

Name of the Research Lab		
Collided synthesis Laboratory		
Name of the Equipment/Instrument		
Chemi luminescence doc		
Manufacturer/Company		
Bio-Rad (Hong kong)/XRS		
Model No.		
Month/Year of Installation		
November 2020		
Source of Fund		
SRM University AP		
List of Measurements/Methods		
The spark is a multi-functional microplate reader flat form and is a robotic compatible. UV-VIS absorption and fluorescence (static and time resolved) can be measured.		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Sabyasachi Chakraborty / 9851406353 / sabyasachi.c@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• Chemiluminescence: Yes• Fluorescence: Yes• Colorimetry/densitometr: Yes• Gel documentation: Yes• Maximum sample size up to 28 x 36 cm• Maximum image area (For standard UV-excited gels) 25 x 26 cm• Excitation source: Epi-white light and trans-UV (302 nm)• Detector: Supercooled CCD		


Department of Chemistry

Name of the Research Lab		
Collided synthesis Laboratory		
Name of the Equipment/Instrument		
FT-IR Spectrometer		
Manufacturer/Company		
Bruker, Germany		
Model No.		
Alpha 2		
Month/Year of Installation		
November 2020		
Source of Fund		
SRM University AP		
List of Measurements/Methods		
Infra-red absorption measurements		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Sabyasachi Chakraborty / 9851406353 / sabyasachi.c@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none"> Spectral range: 350-8,000 cm⁻¹ with KBr Optics Spectral resolution: better than 2cm⁻¹ Rock Solid interferometer: gold mirrors, high throughput IR-Source: Center Glow technology for continuously optimized light flux 		


Department of Chemistry

Name of the Research Lab	
Mass spectrometry Laboratory	
Name of the Equipment/Instrument	
Gas Chromatography- Mass spectrometry	
Manufacturer/Company	
Shimadzu (Asia Pacific)	
Model No.	
QP 2020	
Month/Year of Installation	
November 2019	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Molecular mass spectrometry	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Mannathan, Dr. Shoji / 9851406353 / mannathan.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Mass range: m/z 1.5 to 1000 • Ionization mode: EI • scan sensitivity: 1 pg octafluoronaphthalene m/z 272 S/N > 200 • Column flow: Up to 4mL/min • Pump: Turbomolecular pump (58 L/sec for He), Rotary pump 30 L/min (60Hz) • Detectors: FID, TCD	

Department of Biological Sciences


Name of the Research Lab	
Bio-nanotechnology & Sustainable Lab	
Name of the Equipment/Instrument	
Zetasizer Nano ZS Instrument	
Manufacturer/Company	
Malvern Panalytical Ltd, ENGLAND	
Model No.	
ZEN3600	
Month/Year of Installation	
November 2020	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Measurement of particle size, molecular weight, and Zeta potential	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Anil K Suresh / 9440968970/ anil.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Measurement of particle size	
<ul style="list-style-type: none"> • Measurement range: 0.3nm – 10.0 microns* (diameter). • Measurement principle: Dynamic Light Scattering • Minimum sample volume: 12µL, Sensitivity: 0.1mg/mL (Lysozyme) 	
Zeta potential (and optional Protein Mobility)	
<ul style="list-style-type: none"> • Measurement range: 3.8nm – 100 microns (diameter)* • Measurement principle: Electrophoretic Light Scattering • Minimum sample volume: 150µL (20µL using diffusion barrier method) • Sensitivity: 10mg/mL (BSA). 	
Molecular weight	
<ul style="list-style-type: none"> • Measurement range: 980Da – 20M Da* • Measurement principle: Static Light Scattering using Debye plot • Minimum sample volume: 12µL (3-5 sample concentrations required) 	

Department of Biological Sciences

Name of the Research Lab		
Bio-nanotechnology & Sustainable Lab		
Name of the Equipment/Instrument		
Multiskan SkyHigh Microplate Spectrophotometer		
Manufacturer/Company		
Thermo Scientific, ENGLAND		
Model No.		
A51119500C		
Month/Year of Installation		
November 2019		
Source of Fund		
SRM University AP		
List of Measurements/Methods		
UV-Vis absorbance absorbance, 200–1,000 nm with 1 nm steps		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Anil K Suresh / 9440968970/ anil.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• Wavelength selection - Monochromator• Light source - Xenon flash lamp• Wavelength range - 200–1,000 nm with 1 nm steps• Readout range - Up to 4 absorbance units• Bandwidth - <2.5 nm• Linearity at 450 nm* - 0–2.5 Abs, 2%• Accuracy at 450 nm* - 1.0% + 0.003 Abs (0–2.0 Abs), 2.0% (2.0–2.5 Abs)• Precision at 450 nm* - SD <0.003 Abs or CV <1.0%		


- Plates - 6- to 48-, 96-, and 6-384-well plates***, Thermo Scientific μ Drop Plates
- Cuvette - Dimensions (H x W x D): 40–58 x 12.5 x 12.5 mm
- Beam center height: 8.5 mm
- Beam window: ≥ 2 mm
- Measurement speed - (starting from A1 back to A1), 6 sec with 96-well plate, 10 sec with 384-well plate
- Plate shaking - Linear
- Spectral scanning speed - 10 sec from 200–1,000 nm with 1 nm steps
- Incubation range - From ambient temperature +2C to 45°C”.

Department of Biological Sciences

Name of the Research Lab	
Bio-nanotechnology & Sustainable Lab	
Name of the Equipment/Instrument	
Refrigerated Centrifuge	
Manufacturer/Company	
Thermo Scientific, ENGLAND	
Model No.	
Sorvall Legend X1R, 75004260	
Month/Year of Installation	
November 2019	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Centrifugation based separation of various analysts (Fixed angle – up to 15,200 rpm, Swingout – up to 4500 rpm)	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Anil K Suresh / 9440968970/ anil.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> • Type -Refrigerated Centrifuge • Rotors – Fixed angle (adapters 50 ml, 15 ml, 2 ml), Swing out (adaptors for 50 ml, 15 ml, 2 ml), 96 well ELISA plate. • Voltage - 230 V • Capacity - 4 x 400 mL • Max. RCF - 25,830 x g • Max. Speed - 15,200 rpm • Refrigerated - Yes • Display - Digital 	


- Noise Level - <61 dB(A)
- Certifications/Compliance - IVD compliant; IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101; 230V models meet EN 292, EN 61326, EN 55011B. UL, CE, CSA, Certified Biosafety
- Description - Sorvall Legend X1R Centrifuge
- Electrical Requirements - 230 V 50/60 Hz
- Controller Type - Microprocessor
- Drive System - Direct, Brushless Induction Low Profile
- Program Storage - 99 programs (5 with direct access key)
- Run Time - 99 hr. 59 min. plus HOLD

Department of Biological Sciences

Name of the Research Lab	
Bio-nanotechnology & Sustainable Lab	
Name of the Equipment/Instrument	
Vacufuge plus	
Manufacturer/Company	
Eppendorf, ENGLAND	
Model No.	
5305000509	
Month/Year of Installation	
November 2019	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Provide best treatment for sample and assure quick, efficient and gentle vacuum concentration of DNA/RNA, nucleotides, proteins and other liquid or wet samples.	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Anil K Suresh / 9440968970/ anil.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">• New coated lid provides superior chemical resistance against aggressive acids and organic solvents (e.g. TFA, DMSO)• Choice of three application modes (aqueous, alcohol or high vapour pressure) to correspond with sample solvent—reduction of processing time up to 20%• Choice of 4 heating levels (ambient, 30°C, 45°C, 60°C) allows safe and efficient concentration of various samples	


- Brake function can optionally be turned off for use with delicate samples
- Extremely quiet operation <50 dB(A)
- Chemical-resistant, maintenance-free PTFE diaphragm pump eliminates the need for changing pump oil
- Small footprint saves valuable bench space
- Rotor – 0.5, 1.5, 2 ml Eppendorf tubes
- Motor less induction drive and chemical-resistant, stainless steel chamber for trouble-free operation
- Can be connected with most commercially available cold traps for use with vapours
- Coated lid with superior chemical resistance
- Frequency - 50/60 Hz
- Max. Vacuum - 20 hPa (20 mbar)
- Speed - 1400rpm (max. RCF 250 × g)

Department of Biological Sciences

Name of the Research Lab		
Bio-nanotechnology & Sustainable Lab		
Name of the Equipment/Instrument		
Ultrapure Water Systems		
Manufacturer/Company		
Evoqua Water Technologies, USA		
Model No.		
W3T3643879		
Month/Year of Installation		
November 2019		
Source of Fund		
SRM University AP		
List of Measurements/Methods		
UltraClear® TP TWF EDI Ultra-pure water systems have the highest producible water quality for all critical test and research areas.		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Anil K Suresh / 9440968970/ anil.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• The UltraClear(R) TWF EDI system is equipped with all the necessary components to produce reagent grade water directly from municipal tap water.• The built-in reverse osmosis system has a recovery rate of > 30 % to conserve water.• The continuous electrodeionization (CEDI) stage purifies RO product water down to a quality range of 0.055 µS/cm (18.2 MΩ-cm).• Water quality with a resistivity of 18.2 MΩcm and a TOC level between 1 - 3 ppb far exceeds all reagent water quality standards including: ASTM Type 1, CLSI and ISO 3696 Type 1.		


- All systems that include Ultrafiltration (UF) produce the highest possible water quality. These units deliver RNase, DNase and DNA free water.
- Easy to navigate by touching functional system components
- New designed user interface
- Graphic display of all main functions

Department of Biological Sciences


Name of the Research Lab		
Bio-nanotechnology & Sustainable Lab		
Name of the Equipment/Instrument		
Fluorescence inverted microscope		
Manufacturer/Company		
Olympus Corporation, Japan		
Model No.		
CKS53		
Month/Year of Installation		
November 2019		
Source of Fund	List of Measurements/Methods With improved image quality and ergonomics, the Olympus CKX53 inverted microscope delivers stable performance and a comfortable workflow for a variety of cell culture needs, including live cell observation, cell sampling and handling, image capture, and fluorescence observation.	
SRM University AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Anil K Suresh / 9440968970/ anil.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• Easy Live Cell Observations.• Fast Cell Observation with the Integrated Phase Contrast (iPC) System.• High contrast provides a clear view of cells at 4x, 10x, 20x, and 40x without the need to exchange or re-center the ring slit.• Phase contrast system facilitates simple and efficient cell observation for a faster, more comfortable workflow.		

- Efficiently screen for desired cells thanks to the ring slit for the PLN2X objective, which offers a 22 mm field of view and an 11 mm diameter.
- 2X objective provides noticeably higher contrast than other objectives, so even transparent objects in the sample can be clearly identified.
- Wide visual field makes it easy to observe the cells in individual wells of a 96-well plate without moving the stage
- Microscope Frame - CKX53SF
- Observation Method - Fluorescence (Blue/Green Excitation)
Fluorescence (Ultraviolet Excitation)
Phase Contrast
Brightfield
- Revolving Nosepiece - Manual
Standard Type
Built in, 4 positions.
- Observation Tubes - Widefield (FN 22)
Trinocular
- Illuminator Transmitted Illuminator - LED Lamp
- Fluorescence Illuminator - 100 W Mercury Lamp
- Light Guide Illumination
- Stage Manual - Plain Stage
- Condenser Manual - Ultra-Long Working Distance Condenser
- Confocal Scanner
- Weight - Approx. 6.9 kg (15.2 lb)

Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
Stereozoom Microscope (1:7.5)	
Manufacturer/Company	
Nikon	
Model No.	
SMZ - 745	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Microscope for routine C. elegans and Drosophila research work	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmmap.edu.in	
Brief Description/Novelty of the Equipment	

Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
Bacterial Incubator Shaker	
Manufacturer/Company	
Remi Labs India	
Model No.	
RIS24 Plus	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Used in microbial culture	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Biological Sciences

Name of the Research Lab	
Cell Culture Laboratory	
Name of the Equipment/Instrument	
Benchtop Centrifuge with cooling (Refrigerated)	
Manufacturer/Company	
Remi Labs India	
Model No.	
NEYA-16R	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
For routine biological experiments. Sample preparation	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
BOD cooling Incubator	
Manufacturer/Company	
Remi Labs India	
Model No.	
CI-6 Plus	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Maintainance of C elegans Stocks	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
BOD cooling Incubator	
Manufacturer/Company	
Remi Labs Ltd	
Model No.	
RIS - 24	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Maintainance of C elegans Stocks	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Biological Sciences

Name of the Research Lab		
Genetics Lab		
Name of the Equipment/Instrument		
Micropipettes-Set of 6		
Manufacturer/Company		
Gilson		
Model No.		
P2, P10, P20, P200, P1000, P5000		
Month/Year of Installation		
December 2019		
Source of Fund	List of Measurements/Methods Used in routine microvolume liquid handling	
DST-INSPIRE, Govt. of India ECR/2017/000213		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmmap.edu.in		
Brief Description/Novelty of the Equipment		

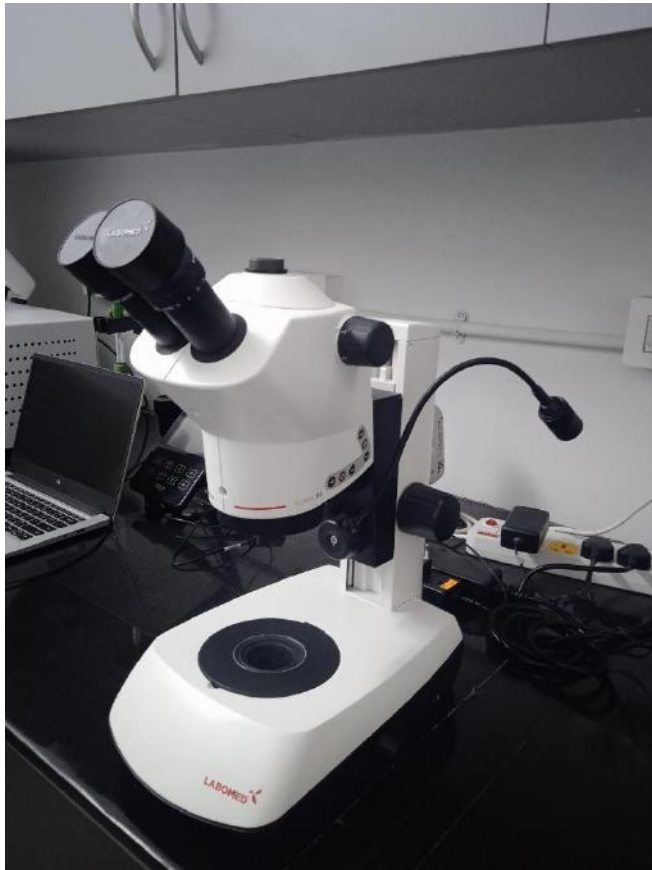
Department of Biological Sciences

Name of the Research Lab		
Genetics Lab		
Name of the Equipment/Instrument		
Ultra Deep Freezer (-86 C) - 650 L		
Manufacturer/Company		
Thermo fisher		
Model No.		
FORMA 996		
Month/Year of Installation		
December 2019		
Source of Fund	List of Measurements/Methods Cold storage of biological samples and reagents, C elegans strains cold storage	
DST-INSPIRE, Govt. of India ECR/2017/000213		
Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in		
Brief Description/Novelty of the Equipment		


Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
BOD cooling Incubator - 200 L	
Manufacturer/Company	
PROGEN INDIA	
Model No.	
PROGEN-200 CI	
Month/Year of Installation	
December 2019	
Source of Fund	List of Measurements/Methods Maintainance of C elegans Stocks Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in Brief Description/Novelty of the Equipment
DST-INSPIRE, Govt. of India ECR/2017/000213	


Department of Biological Sciences

Name of the Research Lab		
Genetics Lab		
Name of the Equipment/Instrument		
Stereozoom Microscope (1:6)		
Manufacturer/Company		
Labomed, USA		
Model No.		
Luxeo 6Z		
Month/Year of Installation		
December 2019		
Source of Fund	List of Measurements/Methods Microscope for routine C. elegans and Drosophila research work Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in Brief Description/Novelty of the Equipment	
DST-INSPIRE, Govt. of India ECR/2017/000213		
List of Measurements/Methods		
Microscope for routine C. elegans and Drosophila research work		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in		
Brief Description/Novelty of the Equipment		


Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
BOD cooling Incubator - 170 L	
Manufacturer/Company	
Vihan Techno Scientifics, India	
Model No.	
VTs-CI	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Maintenance of C elegans Stocks	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmmap.edu.in	
Brief Description/Novelty of the Equipment	

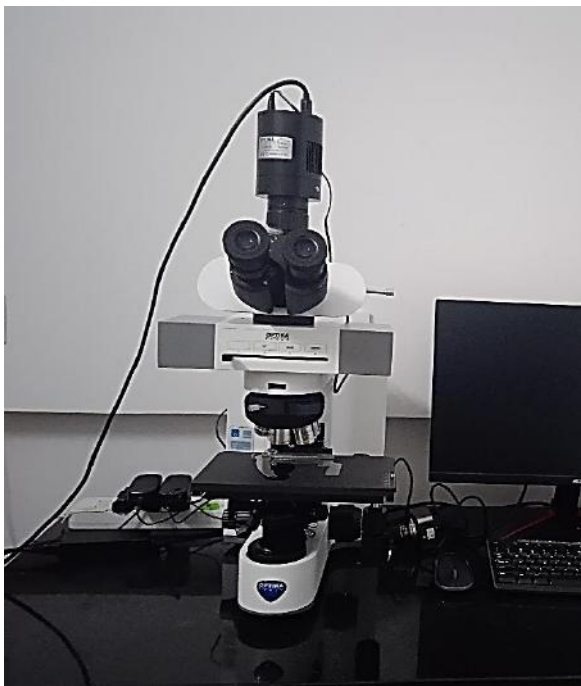
Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
Deep Freezer EFSV340 (-25C 350 L)	
Manufacturer/Company	
Elenpro, Denmark	
Model No.	
EFSV 340	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Cold storage of reagents and antibiotics	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
Laminar Airflow Unit	
Manufacturer/Company	
Hally Instruments, India	
Model No.	
HALF-M	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Working under sterile and clean environment	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Biological Sciences

Name of the Research Lab		
Genetics Lab		
Name of the Equipment/Instrument		
Upright Fluorescent Microscope		
Manufacturer/Company		
OPTIKA Italy		
Model No.		
B1000 LD4		
Month/Year of Installation		
December 2019		
Source of Fund		
DST-INSPIRE, Govt. of India ECR/2017/000213		
List of Measurements/Methods		
Florescent Microscopy		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in		
Brief Description/Novelty of the Equipment		


Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
pH meter	
Manufacturer/Company	
Hanna Instruments	
Model No.	
HI2020	
Month/Year of Installation	
December 2019	
Source of Fund	List of Measurements/Methods Checking the pH of buffers and reagents Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmmap.edu.in Brief Description/Novelty of the Equipment
DST-INSPIRE, Govt. of India	
ECR/2017/000213	


Department of Biological Sciences

Name of the Research Lab	
Genetics Lab	
Name of the Equipment/Instrument	
Refrigerator 400 L	
Manufacturer/Company	
Elenpro, Denmark	
Model No.	
ECG 405	
Month/Year of Installation	
December 2019	
Source of Fund	
DST-INSPIRE, Govt. of India ECR/2017/000213	
List of Measurements/Methods	
Cold storage of reagents and chemicals	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Manjunatha Thondamal/73820 25117/ manjunatha.t@srmap.edu.in	
Brief Description/Novelty of the Equipment	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Neware Battery Cycler with Temperature Chamber	
Manufacturer/Company	
Neware, China	
Model No.	
BTS 4000	
Month/Year of Installation	
November 2020	
Source of Fund	
DST-SERB:SRG/2019/000194	
	
List of Measurements/Methods	
Galvanostatic Charge/Discharges of Coin Cells, Pouch Cells and Battery Pack	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">● Provides Capacity of the Battery (Coin cells/ Pouch cells/Battery Packs)● Testing of Batteries at various voltages and Currents● Differential Capacity Analysis can done● 8 Channels for Coin cell, 8 channels for Pouch Cells and 8 channels for Battery Packs● Channels have integrated with the Temperature chamber to do Temperature Studies	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument		
Glove Box		
Manufacturer/Company		
Nichwell, USA		
Model No.		
a-1800u		
Month/Year of Installation		
September 2021		
Source of Fund		
Amara Raja Batteries Limited		
List of Measurements/Methods		
Fabrication of Coin cells in inert condition		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Pardha Saradhi Maram/9381565008/pardha.m@srmap.edu.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">● Two Antechambers to take required things into the Glove Box● 4 Port Gloves for efficient operation● Maintains PPM of 0.1 for both O2 and H2O		

SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Planetary Ball Mill	
Manufacturer/Company	
TMAXCN	
Month/Year of Installation	
September, 2021	
Source of Fund	
Amara Raja Batteries Limited	
List of Measurements/Methods	
Synthesis of Nano-materials	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Laxminarayana Patro/9668686358/laxminarayana.p@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> • Synthesis of Nanomaterials • Zirconia jars and balls 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Electrode Coater	
Manufacturer/Company	
MRX	
Model No	
MRX TMH250	
Month/Year of Installation	
September 2020	
Source of Fund	
DST-SERB: SRG/2019/000194	
List of Measurements/Methods	
Coating of Electrode using DoctorBlade	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> Precise coating of Electrode material can be done on Current collector using Doctor Blade 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Hot Roll Press	
Manufacturer/Company	
MRX	
Model No	
MRXJS100	
Month/Year of Installation	
September 2020	
Source of Fund	
DST-SERB: SRG/2019/000194	
List of Measurements/Methods	
pressing of coated electrode	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> Fine tuning of required thickness 	

SRM-Amara Raja Center for Energy Storage Devices

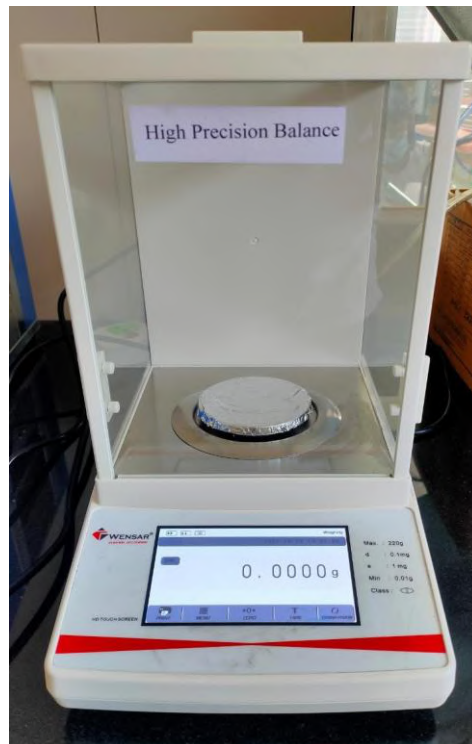
Name of the Equipment/Instrument	
Continuous Stirred Tank Reactor	
Manufacturer/Company	
Trident Labortek	
Month/Year of Installation	
September 2020	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Synthesis of Electrode materials (Co-Precipitation Synthesis)	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in; Dr. Pardha Saradhi Maram/9381565008/pardha.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> ● Equipment was Custom Designed as per the requirement ● Integrated pH probe and Temperature Sensor to maintain the required pH and temperature during the experiment ● 9 Dosing pumps for pumping the Chemicals for the experiments 	

SRM-Amara Raja Center for Energy Storage Devices


Name of the Equipment/Instrument	
Drying Oven	
Manufacturer/Company	
IKA Oven	
Model No.	
125L	
Month/Year of Installation	
July 2021	
Source of Fund	
Amara Raja Batteries Limited	
List of Measurements/Methods	
Drying of the Electrodes and other chemicals	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> Max Temperature 260 C 	

SRM-Amara Raja Center for Energy Storage Devices

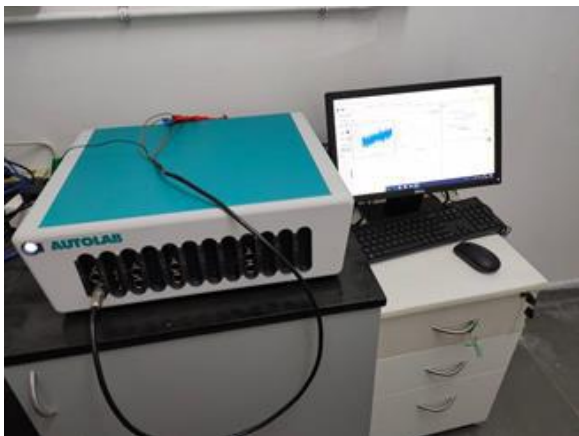
Name of the Equipment/Instrument	
High Precision Balance	
Manufacturer/Company	
Wensar	
Model No.	
MAB220T	
Month/Year of Installation	
August 2021	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Measuring of Chemicals	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Pardha Saradhi Maram/9381565008/pardha.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> High precision upto 0.1mg 	



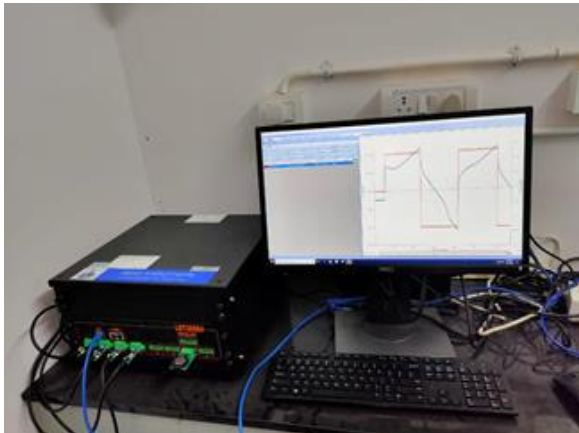
SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Tube Furnace	
Manufacturer/Company	
Ants Lab	
Month/Year of Installation	
November 2020	
Source of Fund	
DST-SERB:SRG/2019/000194	
List of Measurements/Methods	
High temperature Calcination	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> ● Maximum temperature up to 1000C ● Vacuum can be created ● Gas Flow during heating can be done 	

SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Multi Autolab	
Manufacturer/Company	
Metrohm	
Model No.	
AUTM 101.S	
Month/Year of Installation	
September 2019	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Completely independent potentiostat/galvanostat, allowing you to perform different measurements on each channel at the same time	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in; Dr. Pardha Saradhi Maram/9381565008/pardha.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> • No. of Channels: 8Channels • Source Voltage Range: -10V to + 10V • Source Current Range: 10nA to 10mA 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Arbin Battery Cycler	
Manufacturer/Company	
Arbin	
Model No.	
LBT20084	
Month/Year of Installation	
September 2019	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Cyclic Voltammetry, Galvanostatic charge/Discharge, Differential Capacity Analysis of Coin Cells	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in; Dr. Pardha Saradhi Maram/9381565008/pardha.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> No. of Channels: 8Channels Source Voltage Range: -5V to + 5V Source Current Range: 1A 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Slurry Mixer	
Manufacturer/Company	
GELON	
Model No.	
GN-VM-7P	
Month/Year of Installation	
September 2021	
Source of Fund	Amara Raja Batteries Limited
List of Measurements/Methods	
Preparing Slurry for Coating of Electrode materials.	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> • 3 different containers for mixing in various ranges • Different rpms and time can be controlled as per the requirement • Forward and Backward rotation available for proper mixing 	


RM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Data Acquisition System	
Manufacturer/Company	
Keithley	
Model No.	
DAQ970A	
Month/Year of Installation	
November 2020	
Source of Fund	
Amara Raja Batteries Limited	
List of Measurements/Methods	
Data collecting	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Surfaraz Hussain Halkarni / 7338273426 / surfarazhussain.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> To collect data from the thermal studies of batteries 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Benchtop Stirrers	
Manufacturer/Company	
Remi	
Model No.	
RQT-124AD	
Month/Year of Installation	
November 2020	
Source of Fund	
SRM University AP	
List of Measurements/Methods	
Mixing of Chemicals	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> Mixing of Chemicals in large quantity 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Muffle Furnace	
Manufacturer/Company	
LABKARTS	
Month/Year of Installation	
September 2021	
Source of Fund	
Amara Raja Batteries Limited	
List of Measurements/Methods	
High Temperature Calcination	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Pardha Saradhi Maram/9381565008/pardha.m@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> ● Max Temperature upto 1300C ● Control panel for controlling the temperature and time 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Hydraulic Pellet Maker	
Manufacturer/Company	
TMAXCN	
Month/Year of Installation	
September 2021	
Source of Fund	
Amara Raja Batteries Limited	
	
List of Measurements/Methods	
To make pellets of various sizes	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Laxminarayana Patro/9668686358/laxminarayana.p@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> different sizes of dies available to make pellets based on the requirement 	


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Electrode Coater with Vacuum pump	
Manufacturer/Company	
TMAXCN	
Month/Year of Installation	
October 2021	
Source of Fund	
Amara Raja Batteries Limited	
List of Measurements/Methods	
Coating of Electrode using Doctor Blade	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmap.edu.in	
Brief Description/Novelty of the Equipment	<ul style="list-style-type: none"> Precise coating of Electrode material can be done on Current collector using Doctor Blade


SRM-Amara Raja Center for Energy Storage Devices

Name of the Equipment/Instrument	
Precision Balance	
Manufacturer/Company	
Prime Tech	
Model No.	
PRIME TECH STP10.1C (ABC BODY)	
Month/Year of Installation	
February, 2021	
Source of Fund	
DST-SERB: SRG/2019/000194	
List of Measurements/Methods	
Precision Weighing Balance	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sujith Kalluri/9989856601/sujith.k@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> ● Capacity-10 kgs with ● Accuracy of 0.1 gm 	

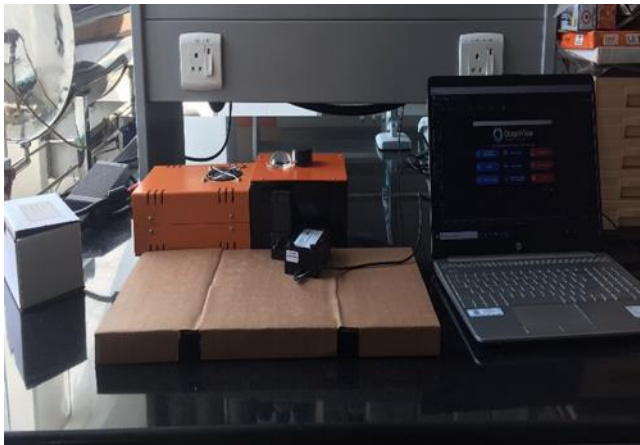
Department of Environmental Science

Name of the Research Lab		
Environmental Science		
Name of the Equipment/Instrument		
UV-Vis Spectrophotometer		
Manufacturer/Company		
Shimadzu		
Model No.		
UV-1900		
Month/Year of Installation		
May 2018		
Source of Fund	List of Measurements/Methods Measurement of light absorbance Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmmap.eud.in Brief Description/Novelty of the Equipment Measurement of light absorbance at UV and Visible range	
SRM University AP		


Department of Environmental Science

Name of the Research Lab		
Environmental Science		
Name of the Equipment/Instrument		
Multiparameter probe		
Manufacturer/Company		
In situ, inc		
Model No.		
Aqua TROLL® 400 Multiparameter Probe		
Month/Year of Installation		
March 2020		
Source of Fund	List of Measurements/Methods Measurement of water quality parameters such as temperature, conductivity, pH, ORP, and dissolved oxygen	
SERB-DST: SRG/2019/000539		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmap.eud.in		
Brief Description/Novelty of the Equipment		
This all-in-one, durable probe continuously measures,		
<div>1. Actual and specific conductivity,</div> <div>2. Dissolved oxygen (optical RDO®)</div> <div>3. ORP</div> <div>4. pH</div> <div>5. Temperature</div>		


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Miniature Spectrometer	
Manufacturer/Company	
Ocean Optics	
Model No.	
FLAME-S-XR1-ES	
Month/Year of Installation	
January 2021	
Source of Fund	
SERB-DST: SRG/2019/000539	
List of Measurements/Methods	
Measurement spectroscopic measurements (absorbance fluorescence) of water/liquid samples from 200 to 1100 nm wavelength	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmap.eud.in	
Brief Description/Novelty of the Equipment	
Absorbance and fluorescence measurements Range: 200-1100 nm Resolution: From 0.1 nm (FWHM) Integration time: 1 ms – 65 s Power: 5V USB Size: 88.9 x 63.5 x 31.9 mm; 3.5 x 2.5 x 1.26" Weight: 265 gram	


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Water Flow Probe	
Manufacturer/Company	
Xylem – FP 211	
Model No.	
Xylem – FP 211	
Month/Year of Installation	
March 2020	
Source of Fund	
SERB-DST: SRG/2019/000539	
List of Measurements/Methods	
<p>The Global Water Flow Probe is a highly accurate water velocity instrument for measuring flows in open channels and partially filled pipes</p>	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmap.eud.in	
Brief Description/Novelty of the Equipment	
<p>The water velocity probe consists of A protected water turbo prop positive displacement sensor coupled with an expandable probe handle ending in a digital readout display.</p> <p>The water flow meter incorporates true velocity averaging for the most accurate flow measurements. The Flow Probe is ideal for storm water runoff studies, sewer flow measurements, measuring flows in rivers and streams, and monitoring water velocity in ditches and canals.</p>	


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Weather Meter	
Manufacturer/Company	
Kestral	
Model No.	
Kestral 2500 NV	
Month/Year of Installation	
March 2020	
Source of Fund	
SERB-DST: SRG/2019/000539	
List of Measurements/Methods	
Measurement of atmospheric pressure, and wind speed	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmap.eud.in	
Brief Description/Novelty of the Equipment	
The hand-held Kestrel weather and wind speed meter provides meteorological data wind speed, atmospheric pressure, altitude, and humidity.	

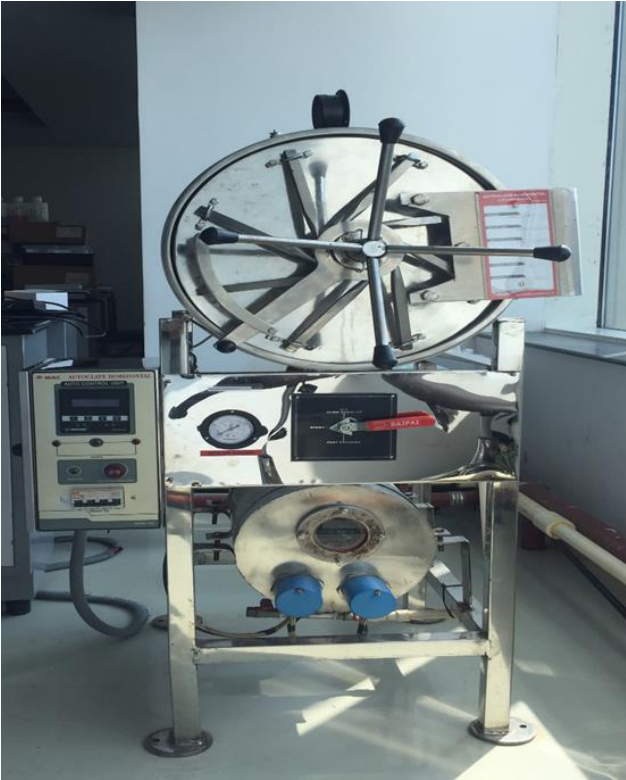
Department of Environmental Science

Name of the Research Lab		
Environmental Science		
Name of the Equipment/Instrument		
Global Positioning System (GPS)		
Manufacturer/Company		
Garmin		
Model No.		
Oregon 750		
Month/Year of Installation		
November 2020		
Source of Fund		
SERB-DST: SRG/2019/000539		
List of Measurements/Methods		
Location tracking using GPS system		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmap.eud.in		
Brief Description/Novelty of the Equipment		
<ul style="list-style-type: none">• High-sensitivity dual GPS and GLONASS satellite reception for better performance in challenging environments• 3-inch sunlight-readable touchscreen with dual orientation (landscape or portrait view)• Expanded wireless connectivity (Wi-Fi, Bluetooth®, ANT+® capable);• 8 megapixel autofocus camera; automatically geotags photos		


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Walk-in Incubator	
Manufacturer/Company	
Thermolab Scientific	
Model No.	
Thermo lab (TB80)	
Month/Year of Installation	
May 2020	
Source of Fund	
SRM University - AP	
List of Measurements/Methods	
Experimental Incubation at temperature-controlled conditions	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmmap.eud.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none">• 8000 L capacity BOD incubator• Up to 24 incubation trays• Temperature range: 20-60 °C	


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Horizontal Autoclave	
Manufacturer/Company	
Shivanki, India	
Model No.	
Autoclave (H98L)	
Month/Year of Installation	
May 2018	
Source of Fund	
SRM University - AP	
List of Measurements/Methods	
Sterilization of microbiological media and samples	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmmap.eud.in	
Brief Description/Novelty of the Equipment	
Sterilization of microbiological media and samples	


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Bomb Calorimeter	
Manufacturer/Company	
Rico Scientific Industries, New Delhi	
Model No.	
NA	
Month/Year of Installation	
October 2021	
Source of Fund	
SRM University- AP	
List of Measurements/Methods	
Measures calorific values of solid waste (paper, plastic, husk, garden waste), biomass and fuel (coal, biochar)	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Pankaj Pathak / Phone No / pankaj.p@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Bomb Calorimeter measures the heating value of the given sample during combustion and determines the highest heating capacity. This instrument is used to identify the energy potential of any given solid sample.	


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Water Purification System	
Manufacturer/Company	
Adrona	
Model No.	
Adrona (Crystal 7 pro/C7-1001)5571	
Month/Year of Installation	
May 2018	
Source of Fund	
SRM University - AP	
List of Measurements/Methods	
Purified water for chemical analysis	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmap.eud.in	
Brief Description/Novelty of the Equipment	
Water purification system to generate Type -III water for laboratory purposes	


Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Laminar Air Flow	
Manufacturer/Company	
FRESH AIR FLOW	
Model No.	
Month/Year of Installation	
May 2018	
Source of Fund	
SRM University - AP	
List of Measurements/Methods	
Laminar air flow for microbiological purpose	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil / 9400500516 / shoji.t@srmap.eud.in	
Brief Description/Novelty of the Equipment	
Laminar airflow for microbiological study	

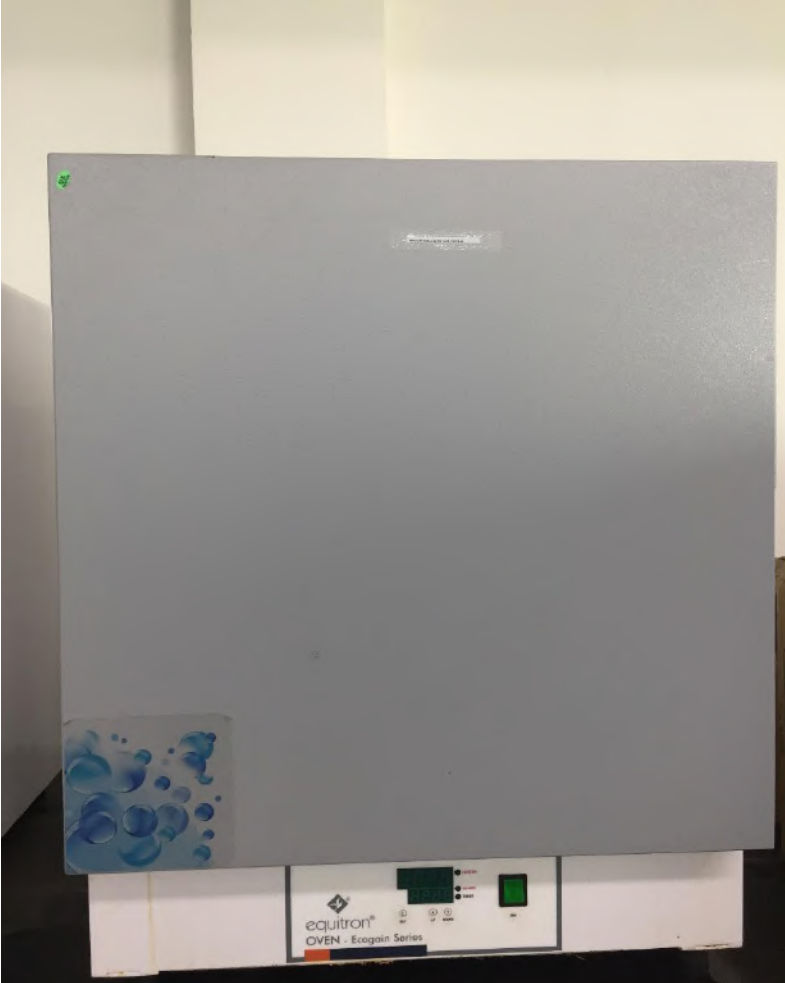
Department of Environmental Science

Name of the Research Lab	
Environmental Science	
Name of the Equipment/Instrument	
Incubator	
Manufacturer/Company	
Equitron	
Model No.	
Month/Year of Installation	
May 2018	
Source of Fund	
SRM University - AP	
List of Measurements/Methods	
Incubator for microbiological purpose	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shoji D Thottathil, 9400500516, shoji.t@srmmap.eud.in	
Brief Description/Novelty of the Equipment	
Incubator for microbiological study	

Department of Environmental Science

Name of the Research Lab		
Environmental Science		
Name of the Equipment/Instrument		
Muffle Furnace		
Manufacturer/Company		
ANTS INNOVATIONS PVT LTD		
Model No.		
MF1200S		
Month/Year of Installation		
May 2018		
Source of Fund	List of Measurements/Methods Muffle Furnace for proximate and ultimate analysis Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. Pankaj Pathak, Brief Description/Novelty of the Equipment Muffle Furnace for proximate and ultimate analysis for any type of solid waste.	
SRM University - AP		

Department of Environmental Science

Name of the Research Lab		
Environmental Science		
Name of the Equipment/Instrument		
Hot Air Oven		
Manufacturer/Company		
Equitron		
Model No.		
Month/Year of Installation		
May 2018		
Source of Fund	SRM University - AP	
List of Measurements/Methods		
Hot Air Oven for dry sterilization like glassware, materials		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Shoji D Thottathil, 9400500516, shoji.t@srmap.eud.in		
Brief Description/Novelty of the Equipment		
Hot Air Oven for dry sterilization like glassware, materials		

Department of Environmental Science

Name of the Research Lab

Environmental Science Lab

Name of the Equipment/Instrument

SimaPro LCA (Software)

Manufacturer/Company

SIPL Pvt Ltd

Model No.

PhD educational license,
version 9.2,

Month/Year of Installation

March 2021

Source of Fund

SRM University-AP



List of Measurements/Methods

To collect, analyze and monitor the sustainability performance of products and services.

The software can be used for sustainable report making, carbon and water foot printing, product design, generating environmental product declarations and determining key performance indicators.

Details of Faculty In-charge (Name, Contact Number, Email ID)

Dr. Karthik Rajendran/ 9962935362 / rajendran.k@srmap.edu.in


Brief Description/Novelty of the Equipment

Single User Permanent LCA software


SimaPro PhD educational version

complete life cycle analysis software with ecoinvent databases


Department of Computer Science and Engineering

Name of the Research Lab		
Cloud & Data Center		
Name of the Equipment/Instrument		
NVIDIA DGX-1		
Manufacturer/Company		
NVIDIA Corporation		
Model No.		
DGX-1		
Month/Year of Installation		
May 2019		
Source of Fund		
SRM University - AP		
List of Measurements/Methods		
Artificial Intelligence development		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Ragunathan T / 9701569427 / ragunathan.t@srmap.edu.in Dr. Jatin Kumar Dash/ 9437368464 / jatindrakumar.d@srmap.edu.in		
Brief Description/Novelty of the Equipment		
NVIDIA® DGX-1™ is the integrated software and hardware system that supports your commitment to AI research with an optimized combination of compute power, software and deep learning performance.		


Department of Computer Science and Engineering

Name of the Research Lab		
IOT Laboratory		
Name of the Equipment/Instrument		
LORA IOT		
Manufacturer/Company		
NVIDIA Corporation		
Model No.		
DGX-1		
Month/Year of Installation		
May 2019		
Source of Fund		
SRM University - AP		
List of Measurements/Methods		
Artificial Intelligence development		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Ashok Kumar Pradhan / 9832780560 / ashokkumar.p@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
Processor: 400MHz, 24K, Flash: 16 MB RAM 64MB Cellular 4G LTE, Quectel EC25 LTE module, Micro SIM Slot Internal 4G Antenna + External 4G Sticker Antenna. Up to 100Mbps downlink and 50Mbps uplink data rates Worldwide LTE,UMTS/HSPA+ and GSM/GPRS/EDGE coverage data rate and link reliability in modem wireless communication systems		


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Thermo-Gravimetric & Differential Scanning Calorimetry	
Manufacturer/Company	
SETARAM Instruments, France	
Model No.	
Labsys Evo-1600	
Month/Year of Installation	
May 2019	
Source of Fund	
DST-SERB, Govt. of India	
List of Measurements/Methods	
Differential Scanning Calorimetry	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in	
Brief Description/Novelty of the Equipment	
<ul style="list-style-type: none"> • Wide temperature range: TGA with simultaneous DTA or DSC measurement can be achieved for temperature up to 1 600 °C • New top loading balance: the unmatched stability, reproducibility and accuracy of this new balance offer unparalleled TGA data 	


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Gold Stir Casting Foaming Furnace		
Manufacturer/Company		
Swam Equipment, Chennai, India		
Model No.		
NA		
Month/Year of Installation		
July 2021		
Source of Fund	List of Measurements/Methods Foaming Furnace Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmmap.edu.in Brief Description/Novelty of the Equipment <ul style="list-style-type: none">Operating temperature range: up to 1400°C	
TITAN (Gold Project)		


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Induction furnace		
Manufacturer/Company		
Metro induction company, India		
Model No.		
NANO GOLD (Model: R2),		
Month/Year of Installation		
July 2020		
Source of Fund	List of Measurements/Methods Furnace	
TITAN (Gold Project)		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Medium Frequency Induction Melting Furnace with Standard Accessories and Chilling unit. Capacity: 250 gms Gold / 120 gms Silver (24 Kt Gold - Brimful) Power: 1 Ph, 220V, 50 Hz, 1.4 KVA, Temp: 1200°C (max.) Crucible : Pure Graphite Crucible.		


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Arc Melting Furnace	
Manufacturer/Company	
VEC Solutions, Bangalore, India	
Model No.	
NA	
Month/Year of Installation	
July 2021	
Source of Fund	
SRM University-AP	
List of Measurements/Methods	
Arc Furnace	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
Vacuum Pumping system with turbo pump 300 Turbo, Furnace Chamber, Electrode assembly with ball socket Sealy assembly, Power Supply, Water cooled Hearth with lifting arrangement or sliding arrangement, Sample Tilting by electrode	


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Magnesium Stir Casting Foaming Furnace	
Manufacturer/Company	
Swam Equipment, Chennai, India	
Model No.	
NA	
Month/Year of Installation	
July 2019	
Source of Fund	
DST-SERB	
List of Measurements/Methods	
Foaming Furnace	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Operating temperature range: up to 1000°C	


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Air compressor		
Manufacturer/Company		
National Equipment Company, India		
Model No.		
TC 300/12/250		
Month/Year of Installation		
July 2020		
Source of Fund		
DST-SERB		
List of Measurements/Methods		
Compressed air output		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
250 Ltrs. tank capacity driven by 3HP 3 phase havells motor		

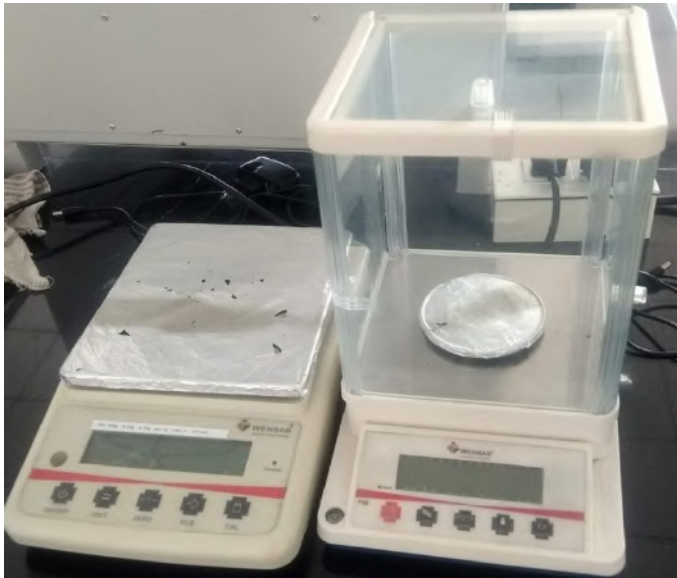
Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Hot air Oven	
Manufacturer/Company	
Ria Instruments, Hyderabad India	
Model No.	
NA	
Month/Year of Installation	
July 2020	
Source of Fund	
DST-SERB	
List of Measurements/Methods	
Hot air oven for glassware drying	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmmap.edu.in	
Brief Description/Novelty of the Equipment	
250 Ltrs. capacity	


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Clean air Fume Exhaust Hood		
Manufacturer/Company		
Siscon India		
Model No.		
NA		
Month/Year of Installation		
July 2021		
Source of Fund	List of Measurements/Methods Clean environment	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
With Single / Three phase 1400 RPM motor / blower assembly with 10 feet PVC duct, drain pan with water inlet, floor leveling jacks, upward sliding toughed glass door, 2 Nos power points, gas cock, In Outer GI & Inner FRP Lining, In FRP GP Construction		


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Weighing balance	
Manufacturer/Company	
Wensar India	
Model No.	
PGB 6000, PGB 301 Precision Balance	
Month/Year of Installation	
July 2020	
Source of Fund	List of Measurements/Methods Clean environment Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmmap.edu.in Brief Description/Novelty of the Equipment Professional, Digital Capacity: 0.1gm to 6000gm (100mg-6kg) Model: PGB 301 Precision Balance Professional, Digital. Capacity: 0.001gm to 300gm (1mg-300gm)
DST- SERB	


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Abrasive Cutting machine		
Manufacturer/Company		
Chennai Metco India		
Model No.		
NA		
Month/Year of Installation		
July 2020		
Source of Fund		
TITAN (Gold Project)		
List of Measurements/Methods		
Clean environment		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in		
Brief Description/Novelty of the Equipment		


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Polishing machine	
Manufacturer/Company	
Chennai Metco India	
Model No.	
NA	
Month/Year of Installation	
July 2021	
Source of Fund	
TITAN (Gold Project)	
List of Measurements/Methods	
Automatic polishing operating up to 600 rpm speed	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Polishing machine	
Manufacturer/Company	
Chennai Metco India	
Model No.	
NA	
Month/Year of Installation	
July 2021	
Source of Fund	
TITAN (Gold Project)	
List of Measurements/Methods	
Automatic polishing operating up to 600 rpm speed	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in	
Brief Description/Novelty of the Equipment	


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Polishing machine		
Manufacturer/Company		
Chennai Metco India		
Model No.		
NA		
Month/Year of Installation		
July 2021		
Source of Fund	List of Measurements/Methods Automatic polishing operating up to 600 rpm speed Details of Faculty In-charge (Name, Contact Number, Email ID) Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmmap.edu.in Brief Description/Novelty of the Equipment	
SRM University-AP		


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Metallurgical microscope		
Manufacturer/Company		
Nikon, Japan		
Model No.		
Eclipse LV150N		
Month/Year of Installation		
July 2021		
Source of Fund		
SRM University-AP		
List of Measurements/Methods		
Optical imaging and analysis		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Upright microscope equipped with Brightfield and Darkfield observation CFI TU PLAN FLOUR optics for industrial and research applications having magnification range 50X to 1000X (Dry).		


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Micro Vickers Hardness Tester		
Manufacturer/Company		
SHIMADZU, Japan		
Model No.		
HMV-G31DT (Auto Reading with Electric Turret)		
Month/Year of Installation		
July 2021		
Source of Fund	List of Measurements/Methods Material hardness analysis	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. G. S. Vinod Kumar/ 9003269206 / vinodkumar.g@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Load 1g to 2000g, Electric 6 Position Turret, Vickers Indenter (1 No) + 1 Free Slot, Objective Lens 40X + 10X + 2 Free Slots, Micrometer Head-Manual (2 Nos), XY Stage (100mm x 100mm, stroke ±12.5mm, Sample max height 100mm)		


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Dilatometer		
Manufacturer/Company		
NETZSCH Germany		
Model No.		
NETZSCH		
Month/Year of Installation		
July 2019		
Source of Fund		
DST-SERB		
List of Measurements/Methods		
Measures volume changes caused by a physical or chemical process		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Sheela Singh/ 7358262471 / sheela.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Pushrod dilatometer from room temperature to 1600oC, 0.0001 to 50kj/min heating rate, Sample diameter : 8mm, Automatic sample length determination		


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
High Temperature Tube furnace	
Manufacturer/Company	
Ant's ceramics, India	
Model No.	
NA	
Month/Year of Installation	
July 2020	
Source of Fund	
DST-SERB	
List of Measurements/Methods	
Material synthesis	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sheela Singh/ 7358262471 / sheela.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Maximum operating temperature up to 1000oC	


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
High Temperature Muffle Furnace		
Manufacturer/Company		
Sigma scientific products, India		
Model No.		
NA		
Month/Year of Installation		
July 2020		
Source of Fund	List of Measurements/Methods	
DST-SERB		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Sheela Singh/ 7358262471 / sheela.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Maximum operating temperature up to 1200oC, Kanthal APM heating coil		


Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Contact Angle Meter	
Manufacturer/Company	
HOLMARC opto-mechatronics Pvt. Ltd., India	
Model No.	
NA	
Month/Year of Installation	
July 2019	
Source of Fund	
DST-SERB	
List of Measurements/Methods	
Examination of surface property, Wettability	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sheela Singh/ 7358262471 / sheela.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Sessile drop measuring method, High performance aberration corrected imaging lens with precise manual focus adjustment, 360-degree rotation for the sample Holder	

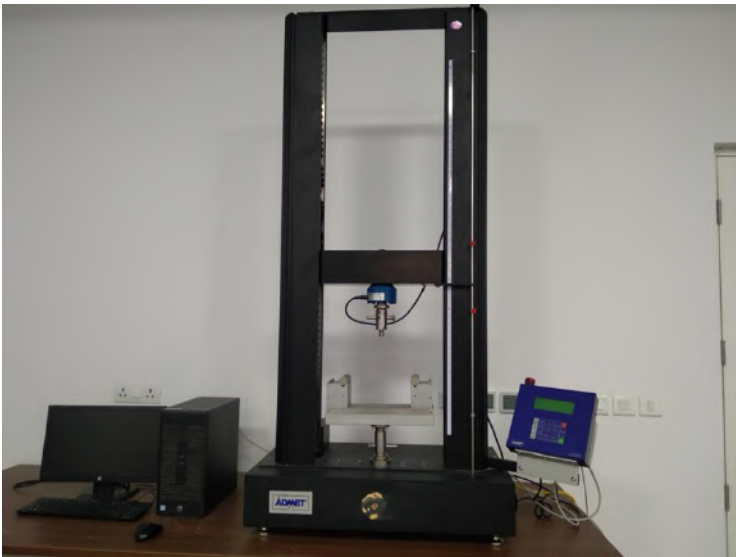
Department of Mechanical Engineering

Name of the Research Lab	
Mechanical Engineering Lab	
Name of the Equipment/Instrument	
Manual Hydraulic Press	
Manufacturer/Company	
Rootway Hydraulics India Pvt. Ltd	
Model No.	
NA	
Month/Year of Installation	
July 2019	
Source of Fund	List of Measurements/Methods
DST-SERB	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Sheela Singh/ 7358262471 / sheela.s@srmap.edu.in	
Brief Description/Novelty of the Equipment	
Up to 30 tons load, Four Colum, Stroke: 150 mm, single acting cylinder, 60mm threaded end piston road, fixed bed	


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Planetary Mill		
Manufacturer/Company		
FRITSCH GmbH, Germany		
Model No.		
Planetary Mill Model Pulversisette-5 classic		
Month/Year of Installation		
July 2021		
Source of Fund	List of Measurements/Methods Sample preparation	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Sheela Singh/ 7358262471 / sheela.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
Universal Testing Machine		
Manufacturer/Company		
ADMET, USA		
Model No.		
NA		
Month/Year of Installation		
July 2019		
Source of Fund		
SRM University-AP		
List of Measurements/Methods		
Mechanical property Testing		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Prakash Jadhav / 9663387438 / Prakash.j@srmap.edu.in		
Brief Description/Novelty of the Equipment		


Department of Mechanical Engineering

Name of the Research Lab		
Mechanical Engineering Lab		
Name of the Equipment/Instrument		
IR (INFRARED) Thermal Imager		
Manufacturer/Company		
TESTO AG, Germany		
Model No.		
TESTO 890 Thermal Imager		
Month/Year of Installation		
Sept2021		
Source of Fund		
SRM University-AP		
List of Measurements/Methods		
Mechanical property Testing		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Surfarazhussain S. Halkarni / 7338273426 / surfarazhussain.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Infrared (IR) resolution (pixels): 640 × 480 pixels Temperature measurement range: 20 °C – 1200 °C Spectral range: 7.5 to 14 μm Image refresh rate : 9 Hz		


Department of Electrical and Electronics Engineering

Name of the Research Lab		
Electrical Engineering Lab		
Name of the Equipment/Instrument		
Controller Board		
Manufacturer/Company		
dSPACE, Germany		
Model No.		
1104		
Month/Year of Installation		
December 2018		
Source of Fund		
SRM University-AP		
List of Measurements/Methods		
20-bit parallel I/O; 8 Channels		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Tousif Khan N/ 7002547584 / tousif.k@srmap.edu.in		
Brief Description/Novelty of the Equipment		
4 multiplexed channels equipped with one sample & hold A/D converter (1x16-bit) Parallel channels each equipped with one sample & hold A/D converter (4x12-bit) 5 A/D converter channels (1x16-bit and 4x12-bit) can be sampled simultaneously		


Department of Electrical and Electronics Engineering

Name of the Research Lab		
Electrical Engineering Lab		
Name of the Equipment/Instrument		
Controller Board		
Manufacturer/Company		
dSPACE, Germany		
Model No.		
1104		
Month/Year of Installation		
December 2018		
Source of Fund	List of Measurements/Methods Current range: 0.5 to 40 A; Voltage range: 15 to 1000 V Basic Power Accuracy: 0.1%; Frequency: DC 0.5 Hz to 100 kHz	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID) : Dr. Tarkeshwar Mahto/ 7002547584 / tarkeshwar.m@srmap.edu.in		
Brief Description/Novelty of the Equipment <ul style="list-style-type: none">• Simultaneous measurement of DC and AC signals• Separate integration functions for charge/discharge and bought/sold power• Saving measured data directly to USB memory• Simultaneous measurement of normal data and harmonic data with the harmonic measurement, /G5 option• WT series for power evaluation of energy-saving equipment		

Department of Electrical and Electronics Engineering

Name of the Research Lab		
Electrical Engineering Lab		
Name of the Equipment/Instrument		
FPGA Processor Boards and Interfacing tool		
Manufacturer/Company		
Digilent, USA		
Model No.		
Basys 3 Artix-7 FPGA Board		
Month/Year of Installation		
July 2020		
Source of Fund		
SRM University-AP		
List of Measurements/Methods		
Artix-7 FPGA is optimized for high performance logic and offers more capacity, higher performance and more resources		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Ramanjaneya Reddy/ 7002547584 / ramanjaneya.r@srmap.edu.in		
Brief Description/Novelty of the Equipment		
16 user switches; 16 user LEDs; 5 user pushbuttons; 4-digit 7-segment display; Three Pmod ports; Pmod for XADC signals; 12-bit VGA output; USB-UART Bridge; Serial Flash; Digilent USB-JTAG port for FPGA programming and communication; USB HID Host for mice, keyboards and memory sticks		

Department of Electrical and Electronics Engineering

Name of the Research Lab	
Electrical Engineering Lab	
Name of the Equipment/Instrument	
eZdsp F28335 and Interfacing tool	
Manufacturer/Company	
Digilent, USA	
Model No.	
Basys 3 Artix-7 FPGA Board	
Month/Year of Installation	
July 2020	
Source of Fund	
SRM University-AP	
List of Measurements/Methods	
Artix-7 FPGA is optimized for high performance logic and offers more capacity, higher performance and more resources	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Ramanjaneya Reddy/ 7002547584 / ramanjaneya.r@srmap.edu.in	
Brief Description/Novelty of the Equipment	
HARDWARE FEATURES: TMS320F28335 Digital Signal Controller, in socket, operating at 150 MHz. On chip 32-bit floating point unit 68K bytes on-chip RAM 256K bytes off-chip SRAM memory	

512K bytes on-chip Flash Memory

On chip 12 bit Analog to Digital (A/D) converter with 16 input channels

Multiple Expansion Connections (analog, I/O)

On board RS-232 connector with line driver

On board CAN 2.0 interface with line driver and connector

Onboard embedded USB JTAG controller

+5 volt operation with supplied adapter

Onboard IEEE 1149.1 JTAG emulation connector

RoHS Compliant


SOFTWARE FEATURES:

- eZdsp F28335 Code Composer Studio DSK Tools. (Includes C compiler, Assembler, Linker, Debugger)
- Texas Instruments F28335 header files and example software
- Texas Instruments Flash APIs to support the F28335
- Compatible with Windows 2000, XP
- Compatible with SDFlash programming utility from Spectrum Digital

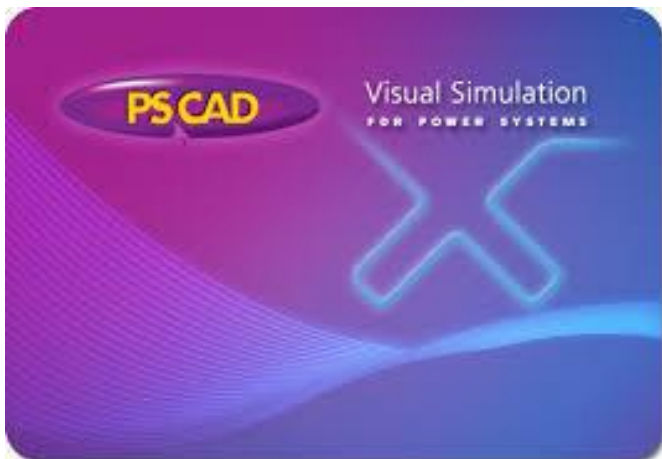
Department of Electrical and Electronics Engineering

Name of the Research Lab		
Electrical Engineering Lab		
Name of the Equipment/Instrument		
Dual Output Power Supply		
Manufacturer/Company		
Keysight Technologies India		
Model No.		
Keysight E3623A		
Month/Year of Installation		
January 2021		
Source of Fund	List of Measurements/Methods Number of Output: 2 (independent); Total Power: 200 400 W Ripple and Noise: > 350 μV_{rms} ; Accuracy: 0.03 % \pm 4 mV Connectivity: USB, LAN, GPIB	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Ramanjaneya Reddy/ 7002547584 / ramanjaneya.r@srmap.edu.in		
Brief Description/Novelty of the Equipment		
A single output E36200 Series auto-ranging bench power supply can power devices requiring up to 200 W. In comparison, a dual output supply provides two independent 200 W outputs that can combine into a single 400 W output. Three technologies generate higher current at more voltages: autoranging, auto-series, and auto-parallel.		


Department of Electrical and Electronics Engineering

Name of the Research Lab		
Electrical Engineering Lab		
Name of the Equipment/Instrument		
Regulated DC Power Supply		
Manufacturer/Company		
Keysight Technologies India Private		
Model No.		
Keysight E3634A		
Month/Year of Installation		
August 2021		
Source of Fund	List of Measurements/Methods Number of Output: 1; Total Power: 120/200 W Ripple and Noise: > 350 μV_{rms} Accuracy: 0.05 % \pm 10 mV Connectivity: RS 232 and GPIB	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Shubh Lakshmi/ 7002547584 / shubh.l@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
This linear power supply meets the requirements of the most demanding applications in R&D design verification, production testing, and quality assurance (QA) verification with reliability you can count on.		

Department of Electrical and Electronics Engineering

Name of the Research Lab		
Electrical Engineering Lab		
Name of the Equipment/Instrument		
PSCAD (Software)		
Manufacturer/Company		
Manitoba Hydro International Ltd.		
Model No.		
PSCAD V4		
Month/Year of Installation		
August 2020		
Source of Fund	List of Measurements/Methods Advanced Tool for Power Systems EMT Simulations	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Shubh Lakshmi/ 7002547584 / shubh.l@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
10 Users Educational Licence		

Department of Electrical and Electronics Engineering

Name of the Research Lab	
Electrical Engineering Lab	
Name of the Equipment/Instrument	
ETAP (Software)	
Manufacturer/Company	
Operation Technology, Inc. USA	
Model No.	
Research and Student version	
Month/Year of Installation	
August 2020	
Source of Fund	
SRM University-AP	
List of Measurements/Methods	
Simulation, design, monitoring, control, operator training, optimizing, and automating power systems. ETAP's integrated digital twin platform offers the best comprehensive suite of enterprise solutions.	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shubh Lakshmi/ 7002547584 / shubh.l@srmap.edu.in	
Brief Description/Novelty of the Equipment	
100 bus - Research Licence (1 User): Base Package Load flow/ voltage drop Time domain load flow DC load flow Battery Discharge and Sizing	

Optimal capacitor placement

50 Bus - Educational Licence (10 Users):

Base package

Load flow/ Voltage drop

Short-circuit - ANSI/IEC

Harmonics


Transient Stability

Star protective device coordination and sequence of operation


Optimal power flow

Wind turbine and PV array


Department of Electrical and Electronics Engineering

Name of the Research Lab	 G A M S	
Electrical Engineering Lab		
Name of the Equipment/Instrument		
GAMS base module+ CONOPT Solver + CPLEX solver (Software)		
Manufacturer/Company		
GAMS Development Corp. GAMS Software GmbH		
Model No.		
Student version		
Month/Year of Installation		
August 2020		
Source of Fund	List of Measurements/Methods GAMS is a high level modeling system for mathematical programming and optimization; CPLEX: High-performance LP/MIP solver; CONOPT: Large scale NLP solver	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Shubh Lakshmi/ 7002547584 / shubh.l@srmmap.edu.in		
Brief Description/Novelty of the Equipment		
Academic Licence		


Department of Electrical and Electronics Engineering

Name of the Research Lab	
Electrical Engineering Lab	
Name of the Equipment/Instrument	
PSIM (Software)	
Manufacturer/Company	
Powersim, Inc	
Model No.	
Student version	
Month/Year of Installation	
August 2021	
Source of Fund	
SRM University-AP	
List of Measurements/Methods	
Electronic circuit simulation software package, designed specifically for use in power electronics and motor drive simulations	
Details of Faculty In-charge (Name, Contact Number, Email ID)	
Dr. Shubh Lakshmi/ 7002547584 / shubh.l@srmap.edu.in	
Brief Description/Novelty of the Equipment	
30 Users professional software package with Basic motor drive, Digital control, Simcoupler, Thermal, Renewable Energy Motor Control design suite, HEV design Suite	


Department of Electronics & Communication Engineering

Name of the Research Lab		
Electronics Engineering Lab		
Name of the Equipment/Instrument		
Mixed Domain Oscilloscope		
Manufacturer/Company		
Tektronix, USA		
Model No.		
MDO32 3-BW-200		
Month/Year of Installation		
November 2021		
Source of Fund	List of Measurements/Methods Reliable and repeatable voltage, current, and power measurements using automated power quality, switching loss, harmonics, ripple, and modulation.	
SRM University-AP		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Pradyut Kumar Sanki / 9330077135 / Pradyut.s@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Analog Bandwidth: 200 MHz; No. of channel: 2; Digital Channel: - 16 Sampling Rate: 2.5 GSPS, Spectrum analyzer input range : 9 kHz- 1 GHz Capture bandwidth: Waveform capture rate : more than 280000 wfm/s		

Department of Civil Engineering

Name of the Research Lab		
Civil Engineering Lab		
Name of the Equipment/Instrument		
Bump Integrator		
Manufacturer/Company		
AIMIL Ltd., India		
Model No.		
AIM 9905-1		
Month/Year of Installation		
NA		
Source of Fund		
SRM University-AP		
List of Measurements/Methods		
Operational Speed: 32 ±5 km/hr		
Unit of measurement: mm/km or m/km		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Uma Maheswar / NA / umamaheswar.a@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Measures unevenness index (UI) or roughness index of a road surface BI is an accepted method in India to assess the extent of functional deterioration to lay a pavement surfacing course		

Department of Civil Engineering

Name of the Research Lab	  	
Civil Engineering Lab		
Name of the Equipment/Instrument		
Marshall Apparatus		
Manufacturer/Company		
HEICO, India		
Model No.		
HB64.05		
Month/Year of Installation		
NA		
Source of Fund		
SRM University-AP		
List of Measurements/ Methods		
Loading rate: 50 ± 8 mm/mim		
Unit of measurement: mm/km or m/km		
Details of Faculty In-charge (Name, Contact Number, Email ID)		
Dr. Uma Maheswar / NA / umamaheswar.a@srmap.edu.in		
Brief Description/Novelty of the Equipment		
Measures water sensitivity of bituminous mixes Also, used for evaluating indirect tensile strength of different bituminous mixes used for road repair such as potholes and undulations As per Ministry of Road Transport and Highways (MORTH), the minimum specified value of retained tensile strength (TSR) is 80%		