



# **NEHRU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)**

(Affiliated to Bharathiar University Reaccredited with "A+" Grade by NAAC,  
ISO 9001:2015 (QMS) Certified, Recognized by UGC with 2(f) & 12(B),  
Under Star College Scheme by DBT, Govt. of India)  
Nehru Gardens, Thirumalayampalayam, Coimbatore - 641 105, Tamil Nadu, India.  
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## **ASSETS ACQUIRED OUT OF DEPARTMENT OF BIOTECHNOLOGY, NEW DELHI**

**REGISTER MAINTAINED BY  
NEHRU ARTS AND SCIENCE COLLEGE  
COIMBATORE**

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Name of the Sanctioning Authority: **Department of Biotechnology, New Delhi.**

2. Name of the Grantee Institution:	Nehru Arts and Science College, Coimbatore
3. Amount of the sanctioned grant:	₹40,00,000.00
4. No. & Date of sanction order:	<b>BT/HRD/11/07/2019 Date of Sanction: 05.03.2019</b>
5. Brief purpose of the Grant:	Strengthening of Life Science and Biotechnology Education and Training at undergraduate level under Star College Scheme

Under the **DBT STAR Scheme** in Biotechnology, a variety of advanced instruments support educational and research activities, facilitating a deeper understanding of biological processes and laboratory techniques. Here is an overview of these instruments:

**Anaerobic System (Himedia):** This system enables the cultivation of anaerobic microorganisms by creating an oxygen-free environment, essential for studying anaerobic metabolic pathways and pathogenic organisms.



**Olympus Binocular Microscope (3 Nos.):** High-resolution binocular microscopes allow students and researchers to examine cells, tissues, and microorganisms, providing clear visualization essential for routine observations and experiments.



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**Mini Autoclave (NSW):** This compact autoclave sterilizes laboratory equipment, media, and reagents, preventing contamination and ensuring aseptic conditions for microbial and cell culture work.



**Deep Freezer:** Designed to maintain ultra-low temperatures, this freezer preserves sensitive biological samples like DNA, RNA, enzymes, and other reagents used in molecular biology.



**Inverted Trinocular Microscope (Olympus):** Useful for examining cell cultures, this microscope allows observation of living cells in a petri dish, particularly important for cell and tissue culture studies.



**Camera with Adapter:** Attached to microscopes, the camera allows for capturing images and recording videos, which can be used for analysis, presentations, and documentation of experimental observations.

**Attachable Mechanical Stage:** This stage provides precise control over slide movements, essential for analyzing samples in detail, especially when working with small microorganisms or tissue sections.

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**Petri Dish Holder:** Holds petri dishes securely during culture preparation and incubation, maintaining organization and preventing contamination.

**PCR Thermocycler:** Polymerase Chain Reaction (PCR) thermocycler amplifies DNA segments, a fundamental tool for genetic research, diagnostics, and molecular biology experiments.



**Column Chromatography Setup:** Allows the separation and purification of biomolecules, such as proteins and nucleic acids, aiding in studies of molecular interactions and biochemical pathways.

**Chromatography Plate with Boroflo Stop:** Essential for thin-layer chromatography, this setup is used to separate components in a mixture, helpful in drug testing and analyzing biochemical compounds.

**Digital pH Meter with Electrode:** Precisely measures the pH of solutions, crucial for preparing and maintaining optimal conditions in various biological experiments.

**Incubator:** Provides a controlled environment with set temperature and humidity for the cultivation of microorganisms and cell cultures.



**Digital Photo Electric Colorimeter (2 Nos.):** Measures the concentration of colored compounds in solutions, used in biochemical assays to quantify proteins, sugars, and other molecules.

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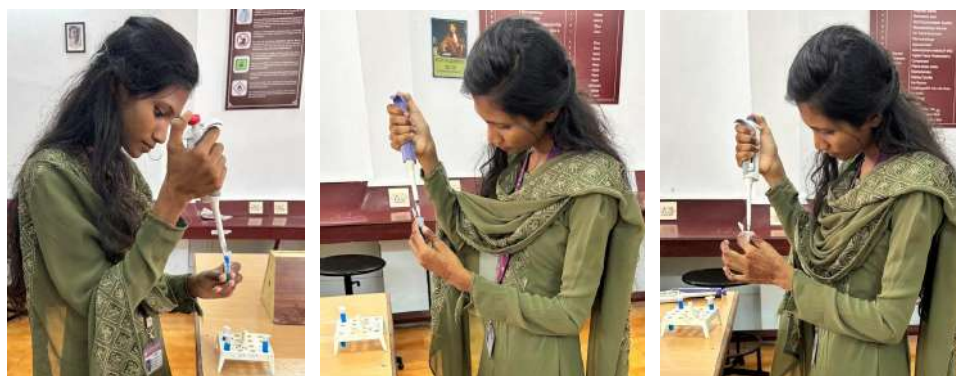
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**UV-Vis Single Beam Spectrophotometer:** Analyzes the absorbance of UV and visible light in samples, allowing for the quantification of nucleic acids, proteins, and other biomolecules.



**Variable Volume Micropipettes (0.5-10 $\mu$ l, 20-200 $\mu$ l, 100-1000 $\mu$ l) (Borosil):** These adjustable micropipettes accurately dispense small volumes of liquids, essential for precise experimental setups in molecular biology and biochemistry.



**Digital Flame Photometer:** Used to detect and measure metal ions, such as sodium and potassium, in biological samples, essential for studies in cellular metabolism and physiology.

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**Vertical Mini Gel System and Power Supplies (Fixed Voltage):** Utilized in gel electrophoresis to separate nucleic acids or proteins by size, crucial for molecular biology experiments.

**Digital pH Meter ("DeepVision" Make):** Offers another option for precise pH measurements, ensuring accuracy across a variety of experiments.

**Stage Micrometer and Ocular Micrometer (Erma) (10 Nos. each):** Used for calibrating microscopes, these tools help measure the size of microscopic structures with high precision.

**Gel Rocker (Genei):** This device gently rocks gels, ideal for procedures like gel staining, which is crucial for visualizing DNA or protein bands in electrophoresis.



**Liquid Nitrogen Container:** Stores and handles liquid nitrogen, essential for preserving cells, tissues, and other biological samples at ultra-low temperatures.

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**Digital Colorimeter (6 Nos.):** Measures light absorbance in colored solutions, used in various biochemical analyses to determine substance concentrations.



These instruments collectively enhance the capabilities of the biotechnology laboratory under the DBT STAR Scheme. They support a range of experimental procedures, from microbial culture and molecular analysis to biochemical assays and genetic studies, providing students and researchers with the tools to gain practical skills and advance their scientific knowledge.

**DBT STAR Scheme** that enhance practical learning and research in microbiology:

**Gel Documentation System:** Essential for visualizing and documenting nucleic acid and protein bands after electrophoresis, supporting molecular studies and analysis of microbial genetics.



**Camera for Gel Documentation:** Captures high-quality images of gels for analysis, aiding in the accurate interpretation of electrophoretic patterns in DNA, RNA, and protein studies.

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**Software for Gel Documentation:** Provides image analysis tools for quantitative and qualitative assessments of gel electrophoresis results, enabling precise data collection in microbial genetics.



**ELISA Reader:** Measures optical density in enzyme-linked immunosorbent assays (ELISA), used in microbial immunology for detecting antigens or antibodies in samples.



**Probe Sonicator ("Labman"):** Utilizes high-frequency sound waves to disrupt cells, facilitating the extraction of intracellular components for downstream analysis.



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**Digital Haemoglobinometer:** Measures hemoglobin levels in blood samples, valuable in microbial pathology studies for understanding host-microbe interactions.

**BOD Incubator ("Scientek"):** Maintains controlled temperature conditions for biochemical oxygen demand (BOD) testing, assessing microbial activity in water samples for environmental microbiology.



**COD Analyzer ("Hach"):** Measures chemical oxygen demand (COD) in water samples, a critical test for evaluating pollution levels and microbial impact in environmental studies.

**Electro Transfer Mini System with Power Supply:** Facilitates protein or nucleic acid transfer from gels to membranes for Western or Southern blotting, aiding in microbial protein expression analysis.

**Nephelo Turbidity Meter (DeepVision):** Measures turbidity in liquid samples, useful for monitoring microbial growth and analyzing water quality.

**Binocular Microscope (Biono CXL, Micron):** Enables close examination of microorganisms, aiding in routine identification and morphology studies in microbiology labs.

**Laboratory and Medical Microscope (KG-5, Micron):** Designed for high-resolution viewing of microbial specimens, supporting medical microbiology studies.

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**Weighing Balance (TTB 31, Wensar):** Provides precise measurements for reagents and samples, essential for preparing accurate culture media and chemical solutions.

These instruments offer a comprehensive setup for hands-on training in microbiology, supporting students and researchers in areas such as microbial genetics, immunology, environmental monitoring, and host-microbe interactions. The advanced equipment aligns with the DBT STAR Scheme's goals of enriching practical skills and fostering innovative research in microbiology.

The instruments for the **ECS (Electronics and Communication Science) Department** under the **DBT STAR Scheme**, supporting practical experiments, research, and skill development in electronics, physics, and analytical chemistry:

**Digital Storage Oscilloscope (5 Nos.):** Allows students to observe and analyze electronic signals in real time, crucial for studying waveforms, circuit design, and signal processing.



**Function Generator (Scientific Make) (2 Nos.):** Produces various electrical waveforms (sine, square, triangle), essential for testing and calibrating electronic circuits in signal processing and communication.



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**Magnetic Stirrer with Hot Plate (Remi):** Combines stirring and heating functions, used for mixing solutions evenly, essential in preparing chemicals for various electronic applications and thin-film research.



**Dip Coating Unit ("Holmark"):** Enables thin-film deposition on substrates, critical in materials science and nanotechnology research within electronics, especially for sensor and coating applications.



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**Hot Air Oven ("Scientex"):** Provides controlled heating, used to dry and cure samples, ideal for preparing electronic components and thin-film coatings.



**UV-Vis Spectrophotometer ("Hitachi"):** Measures absorbance in the UV and visible light spectrum, allowing analysis of materials' optical properties, essential in semiconductor and material characterization.



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**Software for UV-Vis Spectrophotometer:** Facilitates data analysis and visualization, allowing precise interpretation of UV-Vis spectrophotometry results in materials science and analytical chemistry.

**Thin Film Holder and Quartz Cuvette for UV-Vis Spectrophotometer:** Specialized holders and cuvettes ensure accurate measurements of thin films and solutions, crucial for high-precision optical analysis.

**General Purpose Laboratory Centrifuge ("Remi"):** Separates components in a mixture based on density, aiding in the preparation of samples in materials research and biological applications within electronics.



**Electronic Balance ("Wensar"):** Provides accurate measurements for chemicals and samples, ensuring precision in experimental setups for electronics and materials science research.

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**Digital Multimeter ("Mego") (3 Nos.):** Measures voltage, current, and resistance, a fundamental tool for testing and troubleshooting electronic circuits and devices.



**Digital pH Meter ("Deep Vision"):** Measures pH levels in solutions, essential for experiments where precise chemical conditions are needed, particularly in materials preparation.

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**Variable Volume Micropipette (Borosil) (2 Nos.):** Allows precise measurement and dispensing of small liquid volumes, crucial in sample preparation and handling for chemical and biological applications in electronics.



These instruments provide the ECS department with advanced capabilities for hands-on training and experimentation, aligning with the **DBT STAR Scheme's** goal of enhancing technical skills and supporting interdisciplinary research. They are essential for studies in electronics, thin-film deposition, materials analysis, and signal processing, fostering practical skills in a range of scientific and engineering domains.

The instruments provided for the **Computer Science Department** under the **DBT STAR Scheme**. These resources enhance computational and digital literacy, supporting both teaching and research in computer science:

**DELL Optiplex 5060 MT (21 Nos.):** Equipped with Intel i5 8th Gen Processors, 8GB RAM, and 1TB HDD storage, these desktops are ideal for a range of computing tasks. The 19.5-inch screens offer ample display space, and the included Dell keyboard and mouse ensure a complete workstation setup. These systems provide robust performance for programming, data analysis, and software development.

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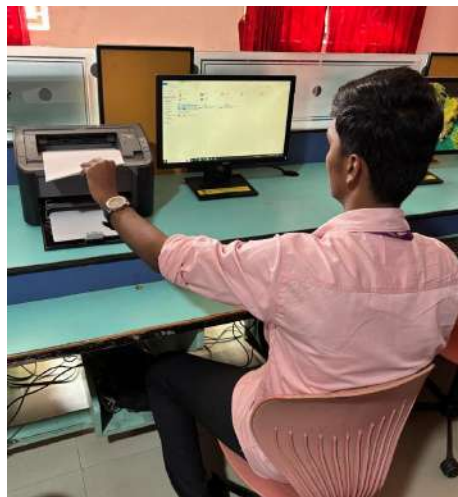
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**Canon Scanner:** This scanner allows for high-quality digital scanning of documents, images, and printed materials. It supports digitization projects, helping students and faculty convert physical documents into electronic formats for data storage and research.



**Epson Printer:** A reliable printer essential for producing hard copies of documents, reports, and assignments, the Epson printer supports routine administrative and academic needs in the department.







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These tools enable the Computer Science Department to effectively manage course work, research, and digital projects. The computing systems support various programming languages, data analytics, software testing, and simulations, fostering students' practical skills in computer science and related fields. The scanner and printer enhance resource sharing and documentation, streamlining the department's academic and research activities.

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## Assets acquired wholly substantially out of Govt. grants Register and maintained by Nehru Arts and Science College, Coimbatore

**Name of the Sanctioning Authority: Department of Biotechnology, New Delhi.**

### Details of Equipment Procured During the Period 05.04.2019 to 04.03.2022) (Department Wise)

Sl. No.	Name of Equipment and Quantity	Sanctioned Cost from DBT (Non-Recurring)	Actual Cost (Factual Figure, not in lakh)	Date of Placing Order	Date of Receiving Equipment	Remark/Payment Voucher No. with Date ( Copy of Payment Voucher may please be enclosed)	Reasons for fluctuation in price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

**(i) D/o Biotechnology:**

1	Anaerobic System (Himedia)	10.00 lakhs	10302	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
2	Olympus Bionocular Microscope (3 Nos.)		96000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
3	Mini Autoclave NSW		16000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
4	Deep Freezer		32000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
5	Inverted Trinocular Microscope (Olympus)		121000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
6	Camera with Adapter		45000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
7	Attachable Mechanical Stage		21500	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
8	Petri dish holder		3200	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
9	PCR Thermocycler		185000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
10	Column Chromatography		710	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
11	Chromatography plate with Boroflo stop		860	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
12	Digital pH meter with Electrode		9500	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
13	Incubator		50000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-
14	Digital Photo Electric Colorimeter		25600	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-

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	(2 Nos.)						
15	Uv-Vis Single Beam Spectrophoto Meter	65000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
16	Variable volume micropipette (0.5 - 10µl) (Borosil)	2900	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
17	Variable volume micropipette (20 - 200µl) (2 Nos.) (Borosil)	5800	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
18	Variable volume micropipette (100 - 1000µl) (3 Nos.)	8700	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
19	Digital Flame photo meter	56000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
20	Vertical Mini Gel System	28000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
21	Power Supplies Fixed Voltage	10000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
22	Digital pH Meter "DeepVision" Make	3600	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
23	Stage Micrometer Erma (10 Nos.)	4000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
24	Ocular Micrometer Erma (10Nos.)	2000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
25	Gel Rocker Genei	14000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	<b>GST (18%) was included in the Vouchers</b>
26	Liquid Nitrogen Container	21000	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
27	Digital Colorimeter (6 Nos.)	22800	03.06.2019	05.07.2019	13796 dated - 05.07.2019	-	
	GST (18%) for ` 8,60,472	15488416	-	-	-	-	
<b>Total:</b>		<b>10.00 lakhs</b>	<b>10.15357 lakhs</b>		-	-	
<b>(ii) D/o Microbiology:</b>							
28	Gel Documentation System	160000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-	
29	Camera for Gel Documentation	80000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-	
30	Software for Gel Documentation	80000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-	
31	Elisa Reader	160000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-	
32	Probe Sonicator "Labman"	138000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-	
33	Digital Haemoglobinometer	5800	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-	
34	BOD Incubator "Scientek"	46000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-	

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35	COD Analyser "Hach"		96000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-
36	Eletro Transfer Mini System with Power Supply		35000	08.06.2019	05.07.2019	13788 dated - 05.07.2019	-
37	GST (18%) for `. 8,00,800		144144	08.06.2019			-
38	Nephelo Turbidity Meter (DeepVision)		15500	08.06.2019	21.03.2020	13788 dated - 05.07.2019	<b>GST (18%) was included in the Vouchers</b>
39	Binocular Microscope (Biono CXL, Micron)		18000	08.06.2019	21.03.2020	13788 dated - 05.07.2019	
40	Laboratory and Medical Microscope (KG-5, Micron)		8000	08.06.2019	21.03.2020	13788 dated - 05.07.2019	
41	Weighing Balance (TTB 31, Wensar)		6000	08.06.2019	21.03.2020	13788 dated - 05.07.2019	
	CGST		4275	-	-	-	
	SGST		4275	-	-	-	
<b>Total:</b>		<b>10.00 lakhs</b>	<b>10.00994 lakhs</b>		-	-	

### (iii) D/o Electronics:

42	Digital Storage Oscilloscope (5 Nos.)		159500	03.06.2019	05.07.2019	13787 dated - 05.07.2019	-
43	Function Generator (Scientific Make) (2 Nos.)		18370	03.06.2019	05.07.2019	13787 dated - 05.07.2019	-
44	Magnetic Stirrer with Hot Plate Remi		5795	03.06.2019	05.07.2019	13787 dated - 05.07.2019	-
45	Dip Coating Unit "Holmark"		195000	03.06.2019	05.07.2019	13787 dated - 05.07.2019	-
46	Hot Air Oven "Scientex"		26500	03.06.2019	05.07.2019	13787 dated - 05.07.2019	-
47	UV-Vis Spectrophotometer "Hitachi"	10.00 lakhs	200000	03.06.2019	05.07.2019	13787 dated - 05.07.2019	-
48	Software for UV- Vis Spectrophotometer		97500	03.06.2019	05.07.2019	13787 dated - 05.07.2019	-
49	Thin film holder and Quartz Cuvette for UV-Vis Spectrophotometer		97500	03.06.2019	05.07.2019	13787 dated - 05.07.2019	<b>GST (18%) was included in the Vouchers</b>
50	Revolutionary General Purpose Laboratory Centrifuge "Remi"		22000	03.06.2019	05.07.2019	13787 dated - 05.07.2019	<b>GST (18%) was included in the Vouchers</b>

# NEHRU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

(Affiliated to Bharathiar University Reaccredited with "A+" Grade by NAAC,  
ISO 9001:2015 (QMS) Certified, Recognized by UGC with 2(f) & 12(B),  
Under Star College Scheme by DBT, Govt. of India)

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51	Electronic Balance "Wensar"		12000	03.06.2019	05.07.2019	13787 dated - 05.07.2019	
52	Digital Multimeter "Mego" (3 Nos.)		5250	03.06.2019	05.07.2019	13787 dated - 05.07.2019	
53	Digital pH Meter "Deep Vision"		3600	03.06.2019	05.07.2019	13787 dated - 05.07.2019	
54	Variable Volume Micropipette (2 Nos.) (Borosil)		5800	03.06.2019	05.07.2019	13787 dated - 05.07.2019	
	GST (18%) for `. 8,48,815		152786.70	-	-	-	
<b>Total:</b>		<b>10.00 lakhs</b>	<b>10.01602 lakhs</b>			-	
<b>(vi) D/o Computer Science</b>							
55	DELL ITOptiplex50 60 MT (I5 8 <sup>th</sup> Gen Processor/8GB Ram/ 1TB HDD /19.5" Screen/Dell Keyboard and Mouse) (21 Nos.)	10.00 lakhs	831991.44	20.06.2019	22.06.2019	HUB/19-20/0541 Dated 22.6.2019	<b>GST (18%) was included in the Vouchers</b>
56	Canon Scanner		3389.83	20.06.2019	22.06.2019	HUB/19-20/0541 Dated 22.6.2019	
57	Epson Printer		8898.31	20.06.2019	22.06.2019	HUB/19-20/0541 Dated 22.6.2019	
	GST (9%) for `.8,44,279.58		75985.16	-	-	-	
	SGST (9%) for `.8,44,279.58		75985.16	-	-	-	
58	Cannon Printer		10,500.00	08.07.2019	08.07.2019		
<b>Total:</b>		<b>10.00 lakhs</b>	<b>10.06750 lakhs</b>			-	
<b>Over all Total [For all Departments]</b>		<b>Rs.40.00 lakhs</b>	<b>40.24703 lakhs</b>			-	

*H. Ganapathy*  
(PROJECT INVESTIGATOR)

(With Seal)

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*K. Chandran*  
(FINANCE OFFICER)

(With Seal)

K. CHANDRAN, M.Com., BGL, CAIIB  
Finance Manager  
Nehru Group of Institutions

*[Signature]*  
(HEAD OF THE INSTITUTE)

(With Seal)

