



Bharath Institute of Higher Education and Research
(Deemed to be University)

Office of the Dean of Engineering,

Sree Balaji Institute of Science and Technology (SBIST),

7, Works Road, Chromepet, Chennai – 600044

SBIST/MAINT/REC/2025-26/004

Date: 01 October 2025

OFFICE ORDER

BACKUP ELECTRIC POWER SUPPLY SYSTEM

1. INTRODUCTION

Sree Balaji Institute of Science and Technology (SBIST) has established a reliable and efficient **Backup Electric Power Supply System** to ensure uninterrupted academic, laboratory, research, and administrative operations during power interruptions.

The backup system is designed in compliance with AICTE infrastructure norms to maintain continuity of teaching–learning processes and to safeguard sensitive electronic equipment.

2. PRIMARY POWER SUPPLY

The institution receives its primary power supply from the authorized electricity board.

- Power is routed to the **Main Distribution Board (MDB)** of the campus.
- From the MDB, electricity is distributed to academic blocks, laboratories, administrative offices, library, and other facilities.
- Voltage regulation and distribution are monitored to ensure safe and stable supply.

3. BACKUP POWER INFRASTRUCTURE

To ensure uninterrupted operations, the institution has installed:

⚡ 200 kVA Uninterruptible Power Supply (UPS) System

The 200 kVA UPS system:

- Acts as an immediate backup power source.

- Automatically activates during power failure.
- Provides zero-delay switching to prevent operational disruption.
- Protects against voltage fluctuations and sudden power loss.





PROFORMA INVOICE



Unicorn Power Solutions Pvt. Ltd.
 First Floor, New No.9, Old No.191/1
 S.V.Lingem Salai, K.K. Nagar, Chennai - 78.
 Accounts.Che@unicornpower.com
 GST: 33AAACU3566G1ZG
 CIN:U29299KL1998PTC012260
 GSTIN/UIN: 33AAACU3566G1ZG
 State Name : Tamil Nadu, Code : 33
 Consignee

Faculty of Pharmacy
 Bharath Institute of Higher Education and Research
 (Sree Balaji Medical College Campus)
 No.2, 6th Main Road, New Colony,
 Chromepet, Chennai - 600044,
 State Name : Tamil Nadu, Code : 33

Invoice No. **UPSDGPI003/19-20**
 Delivery Note
 Supplier's Ref.

Dated **24-Apr-2019**
 Mode/Terms of Payment
 10% Advance & 90% Bank Guarantee
 Other Reference(s)

Buyer's Order No. **FCP/PUR/LIB/003/2019**
 Despatch Document No.

Dated **23-Apr-2019**
 Delivery Note Date

Despatched through
 Terms of Delivery
 Destination

Buyer (if other than consignee)

Faculty of Pharmacy
 Bharath Institute of Higher Education and Research
 (Sree Balaji Medical College Campus)
 No.2, 6th Main Road, New Colony,
 Chromepet, Chennai - 600044,
 State Name : Tamil Nadu, Code : 33

Sl No	Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
01	DG Set - 125kVA Supply of 125 kVA, 50 Hz, 415 V, 3 Phase FG WILSON (CATERPILLAR) Diesel Generator with Standard Control Panel coupled to 125 kVA /113 kW 50 HZ, 415 V Brushless Single Bearing Alternator with Built in Diesel Tank, Batteries and Acoustic Enclosure CPCB - II Approved Model FB125-2		1.00 Nos	6,20,000.00	Nos	6,20,000.00
	Output SGST					55,800.00
	Output CGST					55,800.00
	Total		1.00 Nos			₹ 7,31,600.00

Amount Chargeable (in words)

INR Seven Lakh Thirty One Thousand Six Hundred Only

E. & O.E

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
	6,20,000.00	9%	55,800.00	9%	55,800.00	1,11,600.00
Total	6,20,000.00		55,800.00		55,800.00	1,11,600.00

Tax Amount (in words) : **INR One Lakh Eleven Thousand Six Hundred Only**

Company's PAN : **AAACU3566G**

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and



4. AREAS SUPPORTED BY BACKUP POWER

The backup electric supply system supports the following critical infrastructure:

Computer Laboratories
Servers and Data Centers
Networking Equipment and Routers
Smart Classrooms
Examination Control Rooms
Administrative Offices
Essential Lighting & Fans
Library Digital Systems

5. FUNCTIONAL MECHANISM

1. Main supply is received from the electricity board.
2. Supply is routed through the Main Distribution Board.
3. The 200 kVA UPS system is connected in parallel.
4. In case of power interruption:
 - UPS activates automatically.
 - No interruption occurs in critical systems.
 - Continuous power is supplied to essential infrastructure.

6. EQUIPMENT PROTECTION & SAFETY

The UPS system ensures:

- Protection of sensitive electronic equipment
- Prevention of data loss
- Protection from voltage fluctuations
- Reduced hardware damage risk
- Safe power stabilization

Regular maintenance and inspection of the UPS system are carried out by qualified personnel.

7. BENEFITS TO ACADEMIC ENVIRONMENT

The backup system ensures:

Uninterrupted laboratory sessions
Smooth conduct of online classes and examinations
Continuous server and internet connectivity
Protection of research data
Reliable administrative operations

This significantly enhances academic reliability and operational efficiency.

8. MAINTENANCE & MONITORING

- Periodic inspection and servicing of UPS.
- Battery health monitoring.
- Load capacity monitoring.
- Preventive maintenance schedule maintained.
- Maintenance records documented.

9. COMPLIANCE STATEMENT

The 200 kVA Backup Electric Power Supply System ensures compliance with:

- AICTE Infrastructure Norms
- NAAC Quality Parameters (Criterion 4 – Infrastructure & Learning Resources)
- NBA Laboratory Infrastructure Standards

The system guarantees uninterrupted teaching–learning processes and institutional operational efficiency.

10. CONCLUSION

The institution's 200 kVA UPS backup power system provides a reliable and efficient solution to ensure continuity of academic, administrative, and research activities during power outages.

This infrastructure strengthens institutional resilience, protects technological assets, and ensures a conducive environment for quality technical education.

J. Indumathi

