

Technical Requirements

Procurement of 200 UPS Systems for ATM Network

The purpose of this tender is to procure **200 Online UPS systems** with centralized monitoring software for deployment across the Bank's ATM network (indoor and outdoor locations).

The solution must ensure:

- **30-60 min autonomy per ATM**
- Centralized real-time monitoring
- Enterprise-grade reliability

SCOPE OF SUPPLY	2
TECHNICAL REQUIREMENTS	2
UPS Type.....	2
CENTRALIZED MONITORING & MANAGEMENT SOFTWARE (MANDATORY)	3
SECURITY REQUIREMENTS.....	4
WARRANTY & SLA	4
VENDOR QUALIFICATION REQUIREMENTS.....	5
DELIVERY & IMPLEMENTATION	5

SCOPE OF SUPPLY

The Bidder shall supply:

1. 200 Online Double Conversion UPS units
2. Internal batteries (included)
3. External battery modules (if required to achieve ≥ 1 hour runtime)
4. Centralized Monitoring & Management Software
5. SNMP communication modules (if not embedded)
6. Documentation & training
7. Warranty and SLA support

All equipment must be **new, unused, and from latest production series.**

TECHNICAL REQUIREMENTS

UPS Type

- Online Double Conversion (VFI-SS-111 per IEC 62040-3)
- Pure sine wave output
- Zero transfer time

Power Rating

- Minimum: 1500–2000 VA
- Output power factor ≥ 0.8
- Minimum 30% capacity headroom above ATM nominal load
- Designed to support:
 - Typical load: 150–300 W
 - Peak load: up to 900 W

Battery & Autonomy

- Sealed maintenance-free batteries (VRLA or Lithium-ion)
- Minimum autonomy:
30-60 minutes at 300W load
- Recharge time: ≤ 6 hours to 90%
- External battery pack support mandatory (if internal battery insufficient)

Input Specifications

- 220–240 VAC
- 50 Hz
- Input voltage range: 160–300 VAC
- Input power factor ≥ 0.95

Output Specifications

- 220/230/240 VAC selectable
- 50 Hz $\pm$ 1%
- Pure sine wave
- Voltage regulation $\pm$ 2%

Protection Features

- Overload protection
- Short circuit protection
- Surge protection
- Battery deep discharge protection
- Overtemperature protection
- Automatic self-test

Environmental Requirements

- Operating temperature: 0°C to +40°C
- Storage temperature: -20°C to +50°C
- Humidity: 0–95% non-condensing
- Noise level $\leq$ 50 dB

CENTRALIZED MONITORING & MANAGEMENT SOFTWARE (MANDATORY)

The solution must include centralized software capable of monitoring all 200 UPS units in real time.

Core Capabilities

- Web-based dashboard (HTTPS)
- Real-time monitoring of:
 - Input/output voltage
 - Load %
 - Battery capacity
 - Remaining runtime
 - Temperature
 - Alarm conditions
- SNMP v3 support (mandatory)
- REST API for integration
- Role-based access control (RBAC)

Alarm & Notification

- Email notifications
- SMS integration (via gateway)
- SNMP traps
- Configurable escalation matrix

- Real-time alerting

Embedded Reporting (Mandatory)

System must generate automated:

- Daily, Weekly, Monthly reports
- UPS uptime reports
- Battery health trend analysis
- Power outage history
- Runtime performance reports
- SLA compliance reports

Export formats:

- PDF
- XLSX
- CSV

Scheduled automatic delivery required.

Scalability

- Support minimum 2000 UPS devices
- Expandable licensing
- Modular architecture

SECURITY REQUIREMENTS

- TLS 1.2+ encrypted communication
- SNMP v3 secure configuration
- LDAP / Active Directory integration preferred
- Full audit trail logging

WARRANTY & SLA

Warranty

- Minimum 60 months for UPS
- Minimum 36 months for batteries
- On-site support

SLA Requirements

- Response time:
 - Urban areas ≤ 8 hours
 - Regional areas ≤ 24 hours
- Resolution time ≤ 24 hours
- Replacement unit within 48 hours if repair not possible

- Preventive maintenance once per year

VENDOR QUALIFICATION REQUIREMENTS

Bidder must:

- Have minimum 3 years experience supplying UPS
- Provide at least 2 reference projects (≥ 100 UPS units)
- Maintain local service presence
- Guarantee spare parts availability ≥ 5 years

DELIVERY & IMPLEMENTATION

- Delivery timeline: ≤ 100 days
- Staged delivery acceptable
- Training for IT and technical staff required