



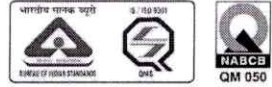
# ASSAM ELECTRICITY GRID CORPORATION LIMITED

OFFICE OF THE MANAGING DIRECTOR

Regd. Office: (FIRST FLOOR), BIJULEE BHAWAN, PALTANBAZAR; GUWAHATI - 781001

CIN: U40101AS2003SGC007238GSTIN: 18AAFCA4973J9Z3

PHONE: 0361-2739520 Web: [www.aegcl.co.in](http://www.aegcl.co.in)



No. AEGCL/CGM/SLDC/T-161/part file-21/25-26/ 04

Date: 23/03/2026

## CORRIGENDUM & ADDENDUM – I

**BID Identification No.:** AEGCL/CGM/SLDC/TECH-161/Part File-21/25-26/02 **Date:** 07.03.2026

### **CORRIGENDUM & ADDENDUM TO THE BIDDING DOCUMENT**

**Name of Work:**

*Supply, Installation, Testing & Commissioning of 12V, 150Ah SMF Battery Bank along with 20 KVA Online UPS for the SAMAST Data Centre at SLDC, AEGCL, Kahilipara.*

The following provisions of the tender document against the above-mentioned package are hereby revised to the extent indicated below:

#### **1.0 Modification under Section 20.0 – Scope of Work (Page No. 8 & 9)**

Clause 20.2 is modified and shall be read as follows:

The activities under the scope of work shall, among other related aspects, include the following:

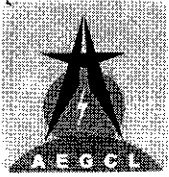
- a) **Supply, Erection, Testing and Commissioning of 12V, 150Ah Battery Bank equivalent to 72,000 VAH along with a True Online UPS of 20 KVA rating, having Three Phase Input and Single-Phase Output with inbuilt Isolation Transformer, suitable for operation with the 150Ah Battery Bank, at SAMAST Data Centre, SLDC, AEGCL, Kahilipara.**

#### **2.0 Modification under Section 21(a) – Page No. 13 & 14**

The clause is modified and shall be read as follows:

**Description**

Supply of **20 KVA / 20 kW 3-Phase Input / 3-Phase Output Online UPS, with Unity Power Factor, modular architecture and Three-Level IGBT based inverter technology, capable of delivering efficiency up to 96% in a compact design.**



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The UPS system shall be compatible with **12V SMF VRLA** and shall include the following features:

- Multicolour intuitive display, Conformal coated PCB for improved reliability, Dual input configuration, Phase sequence corrector, Back feed protection, Input voltage window: **310 – 480 V**, Common battery bank sharing capability between two UPS units, Flexible DC bus voltage: **432 VDC – 480 VDC (32 to 40 batteries)**, Communication interfaces: **SNMP, RS-232, RS-485**, Open MS battery rack, Interlink cables, 20-meter battery cable, Battery breaker with enclosure, PRS kits

The UPS battery system shall ensure uninterrupted power supply to critical loads during maintenance activities allowing battery servicing or replacement without switching the UPS to bypass mode or turn it off and ensure uninterrupted power supply to critical loads during maintenance activities with a minimum battery capacity of 150Ah delivering a total back-up capacity of 72000VAH.

**The proposed UPS system shall be installed either in parallel operation mode or hot standby mode with the existing 20kVA UPS system of Vertiv make Model No: Liebert S600E available at SLDC, AEGCL based on technical suitability and site requirements.**

## Detailed Requirement Specification of 20 KVA 3-Phase UPS

### Details Requirement Specification of 20KVA 3Ph UPS:

Sl No	Specifications	Features
1	Power Rating	20KVA /20kw(3in-1out) Battery Backup VRLA Battery Bank with 3 Hrs Back Up
	Technology	20KVA UPS True online double conversion confirming (VFI-SS-III), with provision for parallel or Hot Standby Configuration with existing Vertiv 20 KVA UPS (Model No: Liebert S600E)
2	UPS Topology	<u>True Online Double Conversion IGBT based latest Technology</u>
3	Input Parameters	Nominal 415 ±15% at 100% Load Frequency Range 45 to 55 Hz Phase 3 Phase Input Power Factor 0.99 Input auto phase sequence protection should be available.
4	Output Parameters	1 Phase, Voltage 230 AC <b>Output Voltage Regulation ±1% typical</b> <b>Frequency (Online Mode) 50Hz±10%, Frequency (Battery mode) 50Hz±0.1Hz</b> Frequency regulation ±0.05Hz in free running mode and ±3Hz in Sync



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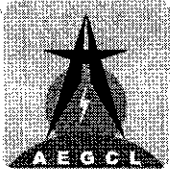
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		Phase: Single Phase 230/220Vac
		Wave form True Sine wave
		Harmonic Distortion(THDv) $\leq 2\%$ with linear load, $\leq 5\%$ on Non linear load
		Output Power factor $\geq 0.9$ Lagging
		Crest factor 3:1
		Cold Start must available.
		Efficiency: Inverter (DC-AC) $> 90\%$
		<b>Overload Capability</b> $\geq 110\%$ for 60min, $\geq 125\%$ for 10min, $\geq 150\%$ for 01min.
		Auto battery test should be available
5	D.C Parameter	Voltage 384V DC
		DC Ripple: $< 1\%$
		Battery Isolation from DC Bus
6	Inverter	Sinewave PWM Technology with IGBT as switching devices. Overload rating: 120% for 10minutes/150% for 1 Min or better
7	Charger	Has automatic float cum boost charging capability with settable float & boost charging voltage and current levels and boost charger timer.
8	By-pass	Automatic(Static) & Manual Bypass
9	Isolation	UPS output Isolated from mains Input (Total Galvanic Isolation). Inbuilt isolation Transformer Based. Isolation transformer should be inbuilt at the input side of the UPS
10	General Parameters	Operating temperature :0-45 degree Cel
		Storage 20 to 65 degree Centigrade
		Relative humidity: 0 to 95%(non-condensing)
		Noise Level: Less than 60db at 1 mtr. At 100% load & $\leq 55$ db at 50% load
11.	Mechanical Parameters	Enclosure Protection: IP-20(General)
		Installation on Castor Wheels
12	Protection	a) Input over/Under voltage b) DC Over/Under voltage c) Inverter Over/Under Voltage d) Inverter Overload e) Overheat f) Output AC Over/Under voltage
13	Audible Alarm & others	Built in Buzzer operates on fault conditions, LCD Display, LED Indication, RS232 port, RS485 port
14	PC interface	Should Available
15	Certificate	ISO 9001, ISO 50001, IEC62040-1, IEC62040-2, IEC62040-3, CE, ROHS & EPR (CPCB Govt of India)
16	Warranty	2 Years on UPS



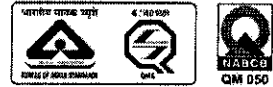
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17	Manufacturer	UPS OEM should have active business in India for last 25(Twenty-five) years as a Manufacturer
18	SLA & After-Sales Support	The OEM must have Dedicated/toll free telephone for Service Support. The OEM should have their own service centre or Authorized Service Centre & Service Engineering at Guwahati, Assam.
19	Application	Data Centre / Server critical Load
20	Surge Protection	Built-in
21	MONITORING, DISPLAY & COMMUNICATION	1)Display: LCD/LED 2) Minimum Parameter Displayed: Input, Output, Battery &Load

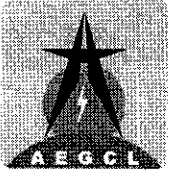
### 3.0 Modification under Section 21(b) – Page No. 14, 15 &16

#### Detailed Requirement Specification for 12V / 150Ah VRLA / SMF Battery Bank

**Approved Makes:** Exide / Amara Raja / Panasonic

**Total Capacity:** 72,000 VAH

SL NO.	DESCRIPTION	Features
		12V/150 AH
1.	Name & Address of Supplier & Manufacturer	
2.	Battery Rating	12Volt
3.	Battery Type	VRLA(Valve Regulated Lead Acid), SMF
4	Application	Suitable for online UPS/Inverter
5	Battery Technology	AGM(Absorbed Glass Mat)
6	Designed Life	Minimum 10-12 Years at 27degree C(Float Service)
7	Float Charging Voltage@27degreeC	13.5-13.8V
8	Boost/Equalize Voltage	14.1-14.4V
9	Self-Discharge	≤4%per month at 27degreeC
10	Container Material	ABS/Flame Retardant
11	Terminal Type	Insert/Bolt Type(Copper)
11	Separator	AGM(Microporous Glass Fiber)
12	Spill Proof	Yes



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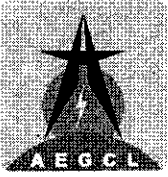
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13	Electrolyte	Dilute Sulphuric Acid(Immobilizer)
14	Short Circuit Protection	As per IEC standard
15	Warranty	Minimum 2 Years
16	Model Name/ Model Number	
17	Country of Origin	
18	Dimension	
19	Applicable Standards	
20	Nominal Cell Voltage (V)	12Volt per cell
21	Nominal Cell Capacity in ampere hour (AH)	150Ah or higher
22	Weight	
23	Internal resistance (mil-ohm) Max at fully (5 secs)	
24	Maximum Discharge Current (Amps.)	
25	Maximum Charge CURRENT (Amps.)	

26.	Operating Temperature Range	0°C-45°C
27.	Self-discharge per month	<3% of the Rated Capacity at 27°C
28.	Ah Efficiency	>90%
30.	Wh Efficiency	≥80%
31.	Temperature Compensation	
32.	Cycle life of the battery @ 27 °C	
33.	Service life expectancy	
34.	Short Circuit Current	



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## 4.0 Modification under GTP Section (a & b) – Page No. 26,27,28 &29

### A. UPS Technical Particulars

SI No	Specifications	Features	To be filled by Bidder
1	Power Rating	20KVA /20kw(3in-1out)	
		Battery Backup VRLA Battery Bank with 3 Hrs Back Up	
	Technology	20KVA UPS True online double conversion confirming (VFI-SS- III), with provision for parallel or Hot Standby Configuration with existing Vertiv 20 KVA UPS (Model No: Liebert S600E)	
2	UPS Topology	<u>True Online Double Conversion IGBT based latest Technology</u>	
3	Input Parameters	Nominal 415 $\pm$ 15% at 100% Load	
		Frequency Range 45 to 55 Hz	
		Phase 3 Phase	
		Input Power Factor 0.99	
		Input auto phase sequence protection should be available.	
4	Output Parameters	1 Phase, Voltage 230 AC	
		<b>Output Voltage Regulation</b> $\pm$ 1% typical	
		<b>Frequency (Online Mode)</b> 50Hz $\pm$ 10%, <b>Frequency</b> <b>(Battery mode)</b> 50Hz $\pm$ 0.1Hz	
		Frequency regulation $\pm$ 0.05Hz in free running mode and $\pm$ 3Hz in Sync	
		Phase: Single Phase 230/220Vac	
		Wave form True Sine wave	
		Harmonic Distortion(THDv) $\leq$ 2% with linear load, $\leq$ 5% on Non linear load	
		Output Power factor $\geq$ 0.9 Lagging	



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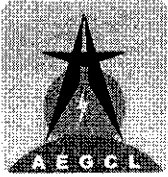
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		Crest factor 3:1	
		Cold Start must available.	
		Efficiency: Inverter (DC-AC) >90%	
		<b>Overload Capability</b> <b>≥110% for 60min, ≥125% for 10min, ≥150%for 01min.</b>	
		Auto battery test should be available	
5	D.C Parameter	Voltage 384V DC	
		DC Ripple:<1%	
		Battery Isolation from DC Bus	
6	Inverter	Sinewave PWM Technology with IGBT as switching devices. Overload rating: 120% for 10minutes/150% for 1 Min or better	
7	Charger	Has automatic float cum boost charging capability with settable float& boost charging voltage and current levels and boost charger timer.	
8	By-pass	Automatic(Static) & Manual Bypass	
9	Isolation	UPS output Isolated from mains Input (Total Galvanic Isolation). Inbuilt isolation Transformer Based. Isolation transformer should be inbuilt at the input side of the UPS	
10	General Parameters	Operating temperature :0-45 degree Cel	
		Storage 20 to 65 degree Centigrade	
		Relative humidity: 0 to 95%(non-condensing)	
		Noise Level: Less than 60db at 1 mtr. At 100% load & ≤55db at 50% load	
11.	Mechanical Parameters	Enclosure Protection: IP-20(General)	
		Installation on Castor Wheels	
12	Protection	a) Input over/Under voltage	



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		b) DC Over/Under voltage	
		c) Inverter Over/Under Voltage	
		d) Inverter Overload	
		e) Overheat	
		f) Output AC Over/Under voltage	
13	Audible Alarm & others	Built in Buzzer operates on fault conditions, LCD Display, LED Indication, RS232 port, RS485 port	
14	PC interface	Should Available	
15	Certificate	ISO 9001, ISO 50001, IEC62040-1, IEC62040-2, IEC62040-3, CE, ROHS & EPR (CPCB Govt of India)	
16	Warranty	2 Years on UPS	
17	Manufacturer	UPS OEM should have active business in India for last 25(Twenty-five) years as a Manufacturer	
18	SLA & After-Sales Support	The OEM must have Dedicated/toll free telephone for Service Support. The OEM should have their own service centre or Authorized Service Centre & Service Engineering at Guwahati, Assam.	
19	Application	Data Centre / Server critical Load	
20	Surge Protection	Built-in	
21	MONITORING, DISPLAY & COMMUNICATION	1)Display: LCD/LED 2) Minimum Parameter Displayed: Input, Output, Battery & Load	

## B. Battery Bank GTP

**Approved Makes:** Exide / Amara Raja / Panasonic

**Total Capacity:** 72,000 VAH



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SL NO.	DESCRIPTION	Features	To be filled by the Bidder
		12V/150 AH	
1.	Name & Address of Supplier & Manufacturer		
2.	Battery Rating	12Volt	
3.	Battery Type	VRLA(Valve Regulated Lead Acid), SMF	
4	Application	Suitable for online UPS/Inverter	
5	Battery Technology	AGM(Absorbed Glass Mat)	
6	Designed Life	Minimum 10-12 Years at 27degree C(Float Service)	
7	Float Charging Voltage@27degreeC	13.5-13.8V	
8	Boost/Equalize Voltage	14.1-14.4V	
9	Self-Discharge	<4%per month at 27degreeC	
10	Container Material	ABS/Flame Retardant	
11	Terminal Type	Insert/Bolt Type(Copper)	
11	Separator	AGM(Microporous Glass Fiber)	
12	Spill Proof	Yes	
13	Electrolyte	Dilute Sulphuric Acid(Immobilizer)	
14	Short Circuit Protection	As per IEC standard	
15	Warranty	Minimum 2 Years	
16	Model Name/ Model Number		
17	Country of Origin		
18	Dimension		
19	Applicable Standards		
20	Nominal Cell Voltage (V)	12Volt per cell	
21	Nominal Cell Capacity in ampere hour (AH)	150Ah or higher	
22	Weight		
23	Internal resistance (mil-ohm) Max at fully (5 secs)		
24	Maximum Discharge Current (Amps.)		



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25	Maximum Charge CURRENT (Amps.))		
26.	Operating Temperature Range	0°C-45°C	
27.	Self-discharge per month	<3% of the Rated Capacity at 27°C	
28.	Ah Efficiency	≥90%	
30.	Wh Efficiency	≥80%	
31.	Temperature Compensation		
32.	Cycle life of the battery @ 27 °C		
33.	Service life expectancy		
34.	Short Circuit Current		

Chief General Manager  
SLDC, AEGCL, Kahilipara

Memo No. No. AEGCL/CGM/SLDC/T-161/part file-21/25-26/

Date:

Copy to: -

1. The DGM, IT cell, O/o the MD, AEGCL for upload in the AEGCL's website.

Chief General Manager