

**Corrigendum-1 to RFP for Replacement of Battery Banks at Data Centers of UIDAI**

**1. Clause 6.6 is revised and may be read as under**

**6.6 Appendix F–Compliance to Functional and Technical Specifications**

**Consolidated Technical Specifications of Battery Cells**

S. No	Location	Nominal Capacity (AH)	Nominal Voltage	Type	No. of Banks	Battery / Bank	Count	Features
1	Bangalore	1100	2	VRLA-AGM	9	240	2160	
2		360	2	VRLA-AGM	2	240	480	
3		65	12	SMF	2	32	64	
4		120	12	SMF	9	1	9	Inverter Battery
5		100	12	SMF	2	2	4	HT Panel connected
6		CCA - Min 1650 A	12	SMF	5	2/4	10/20	Heavy duty DG set starter
7	Manesar	1200	2	VRLA-AGM	9	240	2160	
8		360	2	VRLA-AGM	2	240	480	
9		65	12	SMF	2	32	64	
10		150	12	SMF	7	1	7	Inverter Battery
11		100	12	SMF	2	2	4	HT Panel connected
12		CCA - Min 1650 A	12	SMF	5	4/8	20/40	Heavy duty DG set starter

**Technical Specifications of each battery type are as under:-**

Bidder has to submit the OEM’s data sheet for each category of battery being supplied by them.

**a) 1100 AH Batteries**

Functional and Technical Specifications		Vendor Remarks	Values
UPS Battery Type 1			
Specification	Requirement		
Battery type	VRLA maintenance free(AGM)		
Nominal capacity of battery @27 degree celsius at the rate of C10	1100 AH		

Functional and Technical Specifications		Vendor Remarks	Values
UPS Battery Type I			
No. of cells in the battery bank	240		
Nominal cell voltage	2 V		
End cell voltage (ECV)	1.75 V		
Boost charging voltage /cell	2.25-2.4 V		
Float voltage /cell	2.2 - 2.3 V		
Max Time required to charge to 85% of C10 rated capacity with a maximum charging current of 160A	10 Hrs		
No. of battery banks	9		
Application	Data centre UPS		
ISO certification	Yes		
Operating temperature	0 - 45 degree celsius		
Relative humidity	25-65%		
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
All accessories including racks for stacking	Yes		
Max Dimension of battery bank L x WxH	To be filled by vendor		
Location & Qty	Hebbal- 2160Nos		

**b) 1200 AH Batteries**

Functional and Technical Specifications		Vendor Remarks	Values
UPS Battery Type II			
Specification	Requirement		
Battery type	VRLA maintenance free (AGM)		
Nominal capacity of battery @27 degree celsius at the rate of C10	1200 AH		
No. of cells in the battery bank	240		
Nominal cell voltage	2 V		
End cell voltage (ECV)	1.75 V		
Boost charging voltage /cell	2.25-2.4 V		
Float voltage /cell	2.2 - 2.3 V		
Max Time required to charge to 85% of C10 rated capacity with a maximum charging current of 160A	10 Hrs		
No. of battery banks	9		
Application	Data centre UPS		
ISO certification	Yes		
Operating temperature	0 - 45 degree celsius		
Relative humidity	25-65%		

Functional and Technical Specifications		Vendor Remarks	Values
UPS Battery Type II			
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
All accessories including racks for stacking	Yes		
Max Dimension of battery bank L x WxH	To be filled by vendor		
Location & Qty	Manesar- 2160Nos		

**c) 360 AH Batteries**

Functional and Technical Specifications		Vendor Remarks	Values
UPS Battery Type III			
Specification	Requirement		
Battery type	VRLA maintenance free (AGM)		
Nominal capacity of battery @27 degree celsius at the rate of C10	360 AH		
No. of cells in the battery bank	240		
Nominal cell voltage	2 V		
End cell voltage (ECV)	1.75 V		
Boost charging voltage /cell	2.25-2.4 V		
Float voltage /cell	2.2 - 2.3 V		
Max Time required to charge to 85% of C10 rated capacity with a maximum charging current of 160A	10 Hrs		
No. of battery banks	4		
Application	Data centre UPS		
ISO certification	Yes		
Operating temperature	0 - 45 degree celsius		
Relative humidity	25-65%		
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
All accessories including racks for stacking	Yes		
Max Dimension of battery bank L x WxH	To be filled by vendor		
Location & Qty	Hebbal- 480Nos :: Manesar -480Nos		

d) 65 AH Batteries

Functional and Technical Specifications		Vendor Remarks	Values
UPS Battery Type IV			
Specification	Requirement		
Battery type	VRLA maintenance free SMF		
Nominal capacity of battery @27 degree celsius at the rate of C20	65 AH		
No. of battery in the battery bank	32		
Nominal battery voltage	12 V		
End cell voltage (ECV)	1.75 V		
Boost charging voltage /battery	13.5-14.4V		
Float voltage /battery	13.2-13.8 V		
Max Time required to charge to 85% of C20 rated capacity with a maximum charging current of 8A	10 Hrs		
No. of battery banks	4		
Application	Data centre UPS		
ISO certification	Yes		
Operating temperature	0 - 45 degree Celsius		
Relative humidity	25-65%		
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
All accessories including racks for stacking	Yes		
Max Dimension of battery bank L x W xH	To be filled by vendor		
Location & Qty	Hebbal- 64Nos :: Manesar -64Nos		

e) 120 AH Batteries

Functional and Technical Specifications		Vendor Remarks	Values
Inverter Battery Type 1			
Specification	Requirement		
Battery type	VRLA maintenance free SMF		
Nominal capacity of battery @27 degree celsius at the rate of C20	120 AH		
No. of battery in the battery bank	1		
Nominal battery voltage	12 V		
End cell voltage (ECV)	1.75 V		
Boost charging voltage /battery	13.5-14.4V		

Functional and Technical Specifications		Vendor Remarks	Values
Inverter Battery Type 1			
Max Time required to charge to 85% of C20 rated capacity with a maximum charging current of 12A	10 Hrs		
No. of battery banks	9		
Application	Inverter for lighting load		
ISO certification	Yes		
Operating temperature	0 - 45 degree celsius		
Relative humidity	25-65%		
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
Max Dimension of battery bank L x W xH	To be filled by vendor		
Location & Qty	Hebbal- 9Nos		

f) 150 AH Batteries

Functional and Technical Specifications		Vendor Remarks	Values
Inverter Battery Type II			
Specification	Requirement		
Battery type	VRLA maintenance free SMF		
Nominal capacity of battery @27 degree celsius at the rate of C20	150 AH		
No. of battery in the battery bank	1		
Nominal battery voltage	12 V		
End cell voltage (ECV)	1.75 V		
Boost charging voltage /battery	13.5-14.4V		
Max Time required to charge to 85% of C20 rated capacity with a maximum charging current of 15A	10 Hrs		
No. of battery banks	7		
Application	Inverter for lighting load		
ISO certification	Yes		
Operating temperature	0 - 45 degree celsius		
Relative humidity	25-65%		

Functional and Technical Specifications		Vendor Remarks	Values
Inverter Battery Type II			
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
Max Dimension of battery bank L x W xH	To be filled by vendor		
Location & Qty	Manesar- 7Nos		

**g) 100 AH Batteries**

Functional and Technical Specifications		Vendor Remarks	Values
DC Panel Battery			
Specification	Requirement		
Battery type	VRLA maintenance free SMF		
Nominal capacity of battery @27 degree celsius at the rate of C20	100 AH		
No. of battery in the battery bank	1		
Nominal battery voltage	12 V		
End cell voltage (ECV)	1.75 V		
Boost charging voltage /battery	13.5-14.4 V		
Max Time required to charge to 85% of C20 rated capacity with a maximum charging current of 10A	10 Hrs		
No. of battery banks	4		
Application	DC Panel supply		
ISO certification	Yes		
Operating temperature	0 - 45 degree celsius		
Relative humidity	25-65%		
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
Max Dimension of battery bank L x W xH	To be filled by vendor		
Location &Qty	Manesar-2 nos		
	Hebbal - 2 Nos		

**h) CCA -Min 1650 A –MDC**

Functional and Technical Specifications		Vendor Remarks	Values
Heavy Duty DG set starter Battery			
Specification	Requirement		
Battery type	VRLA maintenance free SMF		
CCA (Cold Cranking Amps) / battery	Min 1650 A		
Boost charging voltage /battery	13.5-14.4 V		

Functional and Technical Specifications		Vendor Remarks	Values
Heavy Duty DG set starter Battery			
Max Time required to charge to 85% of C20 rated capacity with a max charging current of 25 A	10 Hrs		
No. of battery in the battery bank	Manesar-4/8 (In case single battery cannot provide 1650A, maximum of 2 Battery can be connected in parallel to get a total CCA of 1650A)		
Nominal battery voltage	12 V		
No. of battery banks	05		
Application	Heavy duty DG set starter		
ISO certification	Yes		
Operating temperature	0 - 45 degree Celsius		
Relative humidity	25-65%		
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
All accessories including racks for stacking	Yes		
Max Dimension of battery bank L x W xH	To be filled by vendor		
Location & Qty	Manesar-20 /40 Nos depending on Design Single/Double		

i) **CCA -Min 1650 A –HDC**

Functional and Technical Specifications		Vendor Remarks	Values
Heavy Duty DG set starter Battery			
Specification	Requirement		
Battery type	VRLA maintenance free SMF		
CCA (Cold Cranking Amps) / battery	Min 1650 A		
Boost charging voltage /battery	13.5-14.4 V		
Max Time required to charge to 85% of C20 rated capacity with a max charging current of 25 A	10 Hrs		
No. of battery in the battery bank	Hebbal-2/4 (In case single battery cannot provide 1650A, maximum of 2 Battery can be connected in parallel to get a total CCA of 1650A)		
Nominal battery voltage	12 V		
No. of battery banks	05		
Application	Heavy duty DG set starter		
ISO certification	Yes		
Operating temperature	0 - 45 degree celsius		

Functional and Technical Specifications		Vendor Remarks	Values
Heavy Duty DG set starter Battery			
Relative humidity	25-65%		
Warranty	2 Years		
Comprehensive onsite AMC support	3 Years		
All accessories including racks for stacking	Yes		
Max Dimension of battery bank L x W xH	To be filled by vendor		
Location & Qty	Hebbal-10 /20 Nos Depending on Design Single/Double		

2. The feature Battery Monitoring System (BMS), if any, stands removed from the Scope of RFP.