

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

No.	Description of items	Quantity
File No. PUR/22/EM&TRG/PK/E/2024-25		
1	SUPPLY OF LiFePO4 Cylindrical Cell (3.2 V, 15Ah)	250 Nos.
2	SUPPLY OF LiFePO4 Prismatic Cell (3.2V, 100Ah).	75 Nos.
(DETAILED SPECIFICATIONS AS PER ANNEXURE – I)		

1. DELIVERY, INSTALLATION & COMMISSIONING:

The delivery is to be completed within 08 weeks from the date of issue of Purchase Order.

2. PAYMENT TERMS:

100% payment shall be paid within 30 days after delivery of LiFePO4 Cylindrical Cell (3.2 V, 15Ah) and LiFePO4 Prismatic Cell (3.2V, 100Ah) and acceptance of the material upon submission of claim supported by the acceptance certificate issued by the purchaser.

3. BID SECURING DECLARATION FORM:

Bid Securing Declaration is to be submitted by the Bidder as per the format prescribed in the tender document.

4. MANUFACTURER AUTHORISATION FORM:

Manufacturer Authorisation Form will be provided by the supplier.

Annexure 1

01. LiFePO₄ Cylindrical Cell (3.2 V, 15 Ah)

Cell Chemistry:	Lithium Iron Phosphate (LiFePO ₄)
Capacity (Nominal):	15 Ah
Voltage (Nominal):	3.2 V
Internal Resistance:	$\leq 3 \text{ m}\Omega$
Operating voltage range:	2 V to 3.6 V or wider range
Maximum charge current:	$\geq 1\text{C}$
Maximum discharge current:	$\geq 2\text{C}$
Operating temperature range:	0 to 45 deg C or wider range
Cell dimension:	Diameter $\leq 32 \text{ mm}$, Length $\leq 140 \text{ mm}$
Cell life:	≥ 2500 cycles

02. LiFePO₄ Prismatic Cell (3.2 V, 100 Ah)

Cell Chemistry:	Lithium Iron Phosphate (LiFePO ₄)
Capacity (Nominal):	100 Ah
Voltage (Nominal):	3.2 V
Pole connection type:	Internal Threading
Internal Resistance:	$\leq 0.6 \text{ m}\Omega$
Operating voltage range:	2.5 V to 3.65 V or wider range
Maximum charge current:	$\geq 1\text{C}$
Maximum discharge current:	$\geq 3\text{C}$
Operating temperature range:	0 to 45 deg C or wider range
Cell dimension:	Thickness $\leq 40 \text{ mm}$, Width $\leq 130 \text{ mm}$, Height $\leq 220 \text{ mm}$
Cell life:	≥ 3500 cycles

