

**Tender for Design, Supply, Testing, and Installation & Commissioning along-with Comprehensive Annual Maintenance Contract (CAMC) for 5 years of Battery Energy Storage Systems (BESS) on Turnkey Basis under UI-ASSIST initiative with BRPL in NCT of Delhi**

**TERI/MAT/2019-20/002**

**Tender Date: 16-12-2019**

**Due Date for Submission of Bids: 31-01-2020**

**Corrigendum/Addendum No.4**

**Tender Notice**

The Energy & Resources Institute (TERI)  
6C, Darbari Seth Block,  
India Habitat Centre, Lodhi Road, New Delhi – 110003

TERI invites bids from prospective bidders through tendering for **planning, design, engineering, and transportation to site, insurance, supply at site, un-loading, handling, installation, integration, testing, commissioning & demonstration and comprehensive AMC for acceptance of all equipment/ materials and miscellaneous items required for completing the BESS installation**, as per the details given in tender document.

Refer to page no 3, Table 2, please read it as below, rest remains the same:

<b>Sr. No.</b>	<b>Milestone</b>	<b>Date and time (dd-mm-yyyy; hh:mm)</b>
6	Last date for submission of technical bid and financial bid response	31.01.2020; 11:00 AM
7	Opening of technical bid	31.01.2020; 2:00 PM
8	Declaration of shortlisted bidder for technical presentation	03.02.2020; 4:00 PM
9	Technical Presentation by the shortlisted bidders (Final presentation should be shared at least one day before the presentation date)	05.02.2020; 10:00 AM
10	Declaration of shortlisted firms on the basis of technical evaluation will be published on TERI/ UI-ASSIST official websites	10.02.2020; 2:00PM
11	Financial bid opening of only technically qualified bidders	11.02.2020; 14:00PM
12	Finalization of Bidder (to be notified via website/ e-mail as necessary)	13.02.2020; 3:00PM

Refer to page no 13, point no 3.2 Documents comprising the bid, point no 3.2.1.F has been deleted which is **“For submission of Performance Bank Guarantee, format no 6 to be used.”**

Refer to page no 24, point no 11.3, Word **“5 (five) years”** has been replaced with **“1 (one) year”**.

Refer to page no 24, point no 11.4, Word **“5 (five) years of warranty period”** has been replaced with **“1 (one) year of warranty period”**.

Refer to page no 24, point no 11.6.b, Word **“5 (five) years period”** has been replaced with **“1 (one) year period”**.

Refer to page no 25, point no 11.6.c, has been changed as **“If the Contractor/ Bidder fails to attend the complaint within 2 working days, every time, a reasonable penalty of 5% (five percent) may be deducted from the retention pending amount due during that period.”**

Refer to page no 27 & 28, under Payment clause, point e has been deleted which is as **“Purchase order for on-site warranty for five years will be released separately. The payment for this activity will be released as reimbursement and on half-yearly basis, on submission of documents as proof of execution.”**

Refer to page no 30, point no 32. Materials -Quality& Workmanship – please read point no 7 as **“The time and the date of installation of the system stipulated in the Purchase Order shall be deemed to be the essence of the Contract, and installation must be completed within 7 (Seven) months of issuing PO. If the contractor fails to install or any consignment thereof within the period prescribed for such installation, TERI shall be entitled at their option: As agreed under the liquidated damages clause, TERI has the rights to recover a price sum equivalent to 1 % of the price of any article which the contractor failed to deliver, for each week. The same applies to a part of the week during which the delivery of such products may be in arrears subject to a maximum of 10% of the price”**.

**Refer to page no 34, Part 4: Scope of Work & Technical Specifications, under Category B, clause has been added as: “In case of any change in location after bid submission, it is the responsibility of the Bidder to carry out the site visit and evaluate the new site for installation of Battery Energy Storage System. Any additional cost, if arises, due to any change in scope of work shall be finalized on mutual agreement between Teri & Contractor on the basis of component wise cost already submitted by the bidder as a part of financial bid.”**

Refer to page no.36, **Table 7:** Technical characteristics of BESS for Category A, below points have been changed and rest of the points remains the same:

Sr. No.	Parameters	Unit	Value
8	**Annual throughput (±10% permissible range)	kWh	2,000 kWh

\*\* It indicates the annual energy required from BESS for category A as per current load pattern of distribution transformer. Annual throughput has been mentioned just to estimate the annual

degradation of battery useful capacity. In-addition, BESS will not be utilizing for more than one cycle in a day for specified application under category A. However, warranty & AMC shall be provided on the basis of total throughput of BESS.

Refer to page no.36, **Table 8**: below points has been changed and rest of the point's remains the same:

Sr. No.	Parameters	Unit	Value
9	***Annual throughput (±10% permissible range)	kWh	3,600 kWh for category B and 9,000 kWh for category C

\*\*\* It indicates the annual energy required from BESS for category B & C. Annual throughput has been mentioned just to estimate the annual degradation of battery useful capacity. In-addition, BESS will not be utilizing for more than one cycle in a day for specified application under category B & C. However, warranty & AMC shall be provided on the basis of total throughput of BESS.

Refer to page no 37, under The Battery Energy Management System (EMS) architecture shall comply with following requirements clause **“The sampling time for recording of the parameters shall be adjustable up to 100 ms. The real time analogue data such as grid voltage & current, battery voltage & current, SoC, frequency etc. at 10 second interval and digital data such as alarm, events will be stored for 30 days.”** has been replaced with **“The sampling time for measurement/monitoring of key electrical parameters shall be adjustable up to 100 ms. The real time analogue data such as grid voltage & current, battery voltage & current, SoC, frequency etc. at 10 second interval and digital data such as alarm, events will be stored for 30 days.”**

Refer to page no 50, Format 1: covering letter, one para has been changed as **“We confirm that, we have the capability for the Planning, design, engineering, transportation to site, insurance, supply at site, un-loading, handling, installation, integration, testing, commissioning & demonstration for acceptance of all equipment/ materials and miscellaneous item required to complete the BESS installation and carrying out one year warranty and five years comprehensive annual maintenance of BESS Unit for the given time period (supporting documents in proof of capacity should be attached)”**.