

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: 17-01-2020

Corrigendum/ Addendum No.1

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. 1, this sentence has been removed **“Developments in energy storage are vital if India has to meet its 2022 target of 175 GW of renewable energy based installed capacity”**.

Refer to page no. 3, Part 1: General Information, Word **“site survey”** has been deleted.

Refer to page no. 3, Part 1: General Information, **Table 1: Particulars of Items: Earnest Money Deposit amount** has been changed to INR 9,00,000.00.

Refer to page no. 5, Checklist of Annexures: Annexure III: Word **“NGO”** has been removed.

Refer to page no. 7, Table 4: Particulars of Tender, point no. 2: Word **“site survey”** has been deleted.

Refer to page no. 9, Local Conditions: Point no. 1.2.1 has been changed as **“Bidders eligible for bidding: Bidding is open to bidders having office(s) in Employer’s country. Consortium/ Joint Venture of two or, more firms as partner(s) is not allowed.”**

Refer to page no. 11, Section 2: Eligibility Conditions, point no. VI has been changed as **“The Bidder having installed & operationalized the battery energy storage system(s) of cumulative installed capacity of 125 kW for 2 hours or higher, out of which at least one grid interactive battery energy storage system should be of 50 kW for 2 hours capacity or, higher (in India or globally). Certificate**

issued by the Employer/ Client certifying the operation without any adverse remark along-with copy of purchase order prior to the date of technical bid opening, shall be provided.”

Refer to page no. 12, please read table no. 5 as given below.

| Sr. No. | Criteria | Point/ Marks |
|---------|---|--------------------------|
| 1 | Bidder’s experience as a prime contractor for Supply, installation, Commissioning and maintenance of Lithium/advanced lead acid- based BESS in past five years along with Purchase order and Completion certificate from central / State Government Agencies / PSU / Private firms Up-to than 250 kWh Up-to than 500 kWh Up-to or More than 750 kWh | 10 15 20 (Maximum) |
| | OR | |
| | Bidder’s cumulative experience as sub-contractor for installation, Commissioning and maintenance of Lithium/advanced lead acid based BESS in past five years along with Purchase order and Completion certificate from central / State Government Agencies / PSU / Private firms Up-to than 500 kWh Up-to than 700 kWh Up-to or More than 1,000 kWh | 5 10 20 (Maximum) |
| 2 | Bidders will also make a techno-economic presentation of BESS (offered in the bid) to the officials of BRPL and TERI. Presentation must include brief about following points: <ul style="list-style-type: none"> ▪ Introduction to technology and associated equipment such as PCS, Battery cell/modules, Spare parts etc. (with specifications) ▪ Suitability of the technology characteristics for applications mentioned in the tender document ▪ Brief overview of major terms & conditions of the contract (if selected) ▪ Techno-economic analysis indicating cost of BESS in terms of per unit cycle cost and per unit cost ▪ Any other information bidder desires to provide More information may be requested from the bidder for evaluation purpose, if required. Bidders have to provide the information as and when requested. | 30 |
| 3 | Financial evaluation shall be carried out on the basis of total BESS cost for supply, installation, commissioning and maintenance, per unit cycle cost (INR/ cycle) or per unit output cost (INR/ kWh) etc. as per technical characteristics as mentioned in table 7 and table 8 | 30 |
| 4 | In-kind contribution in R&D activity related to BESS sizing & control algorithm, financial concession, disposal plan and safety. | Preferred |

Refer to page no. 13, point no. 3.3.1, please read the sentence as **“The expected bid price is INR 2 Crore for cumulative 400 kWh capacities at 3 sites excluding all taxes and duties”**.

Refer to page no. 14, point no. 3.5 of Performance Bank Guarantee, please read it as **“The successful Bidders, who execute the agreement with TERI for the work, shall have to furnish a security amount equivalent to 10% of contract price in the form of Performance Bank Guarantee (PBG – as per format no 4) valid for a period of 66 months from the date of execution of agreement. The bank guarantee may be issued by a nationalized bank and shall be in favour of ‘TERI’. The aforesaid Bank Guarantee shall be furnished within two weeks from signing of the Purchase order along with contract (terms and conditions), if not furnished then EMD amount will be forfeited and purchase order remains cancelled”**.

Refer to page no. 15, point no. 3.7.1, please read it as **“The bidder shall furnish, as part of its bid, bid security of INR 9,00,000 in the form of demand draft issued by a nationalized bank. The details of the same to be furnished by the bidder as per format no. 5.”**

Refer to page no. 15, point no. 3.7.3, please read it as **“No Interest shall be payable on the amount of Earnest Money Deposit (EMD) to the Bidders and the EMD will be released after the finalization of tender”**

Refer to page no. 15, point no. 3.7.4 (a), please read it as **“If a bidder withdraws its tender during the period of validity of price bid specified by the Bidder in the tender”**.

Refer to page no. 15, point no. 3.8.2: the word **“NGO”** has been removed.

Refer to page no. 17, Under the clause 4.3 Deadline for submission of bids, one point has been added as **“4.6. Submitted bids having deviations from aforementioned instructions of submission of tender will be cancelled and will be the responsibility of the prospective bidder.”**

Refer to page no. 18, point no. 5.1.2: please read it as **“Second Part (Part-II) containing Financial Bid shall be opened at the time and date mentioned in the tender notice by TERI’s representatives in the presence of Bidders, who choose to be present (after obtaining clarifications and establishing technical suitability of the offer) as per schedule. Second part of only those Bidders shall be opened whose first part (Part-I) shall be found technically suitable”**

Refer to page no. 19, point no. 6.1: please read it as **“First the Technical bids shall be opened and evaluated. Then the price bid of technically qualified bidders shall be opened. The bidder offering highest technical performance at lowest price (i.e., L1) shall be awarded contract. However, TERI reserves the right to split the order to more than one bidder if the technically qualified bidders can match the L-1 price”**.

Refer to page no. 19, point no. 6.2.1: please read it as **“The lowest rate (i.e. L-1) in terms of per unit cycle – INR/cycle as per technical parameters mentioned for each category (refer table 7 and table 8) received (and in turn approved by the competent authority) would be the ‘Approved Rate’”**.

Refer to page no. 21, Part 3: General conditions of contract, point no. 1.1: please read it as **“TERI shall select the successful Bidder (s) on the basis of techno commercial after verifying their capacity. The Project shall be executed by TERI. The successful Bidder(s) shall have to sign the contract with TERI”**.

Refer to page no. 26, point no. 24, please read it as **“The contractor/bidder shall be interpreted in accordance with the laws of India under Delhi jurisdiction.”**

Refer to page no. 27 & 28, point no. 28, Payments, few changes as mentioned below regarding point a , c and d.

(a) 10% payment of the purchase order will be made in advance at the time of issuing of purchase order before release of payment PBG has to be submitted.

(b) 50% payment against delivery of material, as per purchase order, on site and subject to submission of documents as proof of delivery.(no change as mentioned in tender)

(c) 30% payment against installation and commissioning of the system, as per purchase order, on site and subject to submission of documents as proof of delivery.

(d) At the time of payment of last installment, there is an additional requirement of submission of Bank Guarantee for an amount of 10% of the PO amount for a validity of five years. Supplier has to submit the BG after the completion of one year of I & C. If supplier does not wish to submit the BG, then 10% payment will be released after ending of CMC contract.

Refer to page no. 28, under point **h**, word **“Contractor / successful”** has been added before ‘bidder’.

Refer to page no. 29, clause 28.1(A), 60% includes 10% advance payment and 50% payment against delivery.

Refer to page no. 29, clause 28.1(B), 35% has been changed to 30%.

Refer to page no. 29, clause 28.1(C), 5% has been changed to 10%.

Refer to page no. 29, under point **C 3rd Payment (5%)**: word **“successful”** has been added before ‘bidder’.

Refer to page no. 30, under Materials -Quality& Workmanship, point no. 1: word **“successful”** has been added before ‘bidder’.

Refer to page no. 30, under Materials -Quality& Workmanship, point no. 2: word **“successful”** has been added before ‘bidder’.

Refer to page no. 30, under Materials -Quality& Workmanship, point no. 3: word **“successful”** has been added before ‘bidder’.

Refer to page no. 30, under Materials-Quality& Workmanship, point no. 4: word **“successful”** has been added before ‘bidder’.

Refer to page no. 30, under Materials-Quality& Workmanship, point no. 6: word “**successful**” has been added before ‘bidder’.

Refer to page no. 30, under Materials-Quality& Workmanship, point no. 7 – please read 2% as 1%.

Refer to page no. 31, under Materials -Quality& Workmanship, point no. 8: word “**successful**” has been added before ‘bidder’.

Refer to page no. 31, under Materials -Quality& Workmanship, point no. 10: word “**successful**” has been added before ‘bidder’.

Refer to page no. 31, under Materials -Quality& Workmanship, point no. 11: word “**successful**” has been added before ‘bidder’.

Refer to page no. 31, under Materials -Quality& Workmanship, point no. 12: word “**successful**” has been added before ‘bidder’.

Refer to page no. 33, 1.0 Erection and commissioning, point A: Word “**Site Survey**” has been removed.

Refer to page no. 34, under Operation and maintenance, point d: word “**successful**” has been added before ‘bidder’.

Refer to page no 34, under Operation and maintenance, point f: word “**successful**” has been added before ‘bidder’.

Refer to page no 35, under Operation and maintenance manual, point g: word “**successful**” has been added before ‘bidder’.

Refer to page no. 35, under Technical Specifications for Battery Energy Storage System, word “**successful**” has been added before ‘bidder’.

Refer to page no. 35, under Delivery of materials, the word “**LOA**” has been replaced with “**Purchase order**”.

Refer to page no. 36, Table 7: please read it as “**Technical characteristics of BESS for Category A**”.

Refer to page no. 36, Table 8: please read it as “**Technical characteristics of BESS for Category B & Category C**” and please read point no. 3 as mentioned below

| | | | |
|----------|---------------------------|----------|-------------------------|
| 3 | Depth of Discharge | % | > 85 (Li-ion) |
|----------|---------------------------|----------|-------------------------|

Refer to page no. 45, under Special Tools and Mandatory Spares, word “**successful**” has been added before ‘bidder’.

Refer to page no. 48, Part – 6: Financial Bid: Word “**Site Survey**” has been removed.

Refer to page no. 50, Format – 1: Word “**Site Survey**” has been removed.

Refer to page no. 52, point no 14: Word “**Site Survey**” has been removed.

Please note that the word “**Purchaser**” has been replaced everywhere by the word “**Employer**”.