
	The Energy and Resources Institute	ISSUE NO.	01	DATED	01-09-2023
	Tender	REVISION NO.	00	DATED	01-09-2023
		DOC. NO.	F/Mat/14		


Request for Proposal
Design, Supply, Testing, Installation, Commissioning,
Operation and Maintenance of 20 MW/ 40 MWh
Battery Energy Storage Systems (BESS) in Delhi under
Tariff-Based Competitive Bidding

Ref: TERI/MAT/2023-24/014
Tender publishing date: 01 Sep 2023
Last Date for Submission of Bids: 03 Oct 2023

Corrigendum No.3

	The Energy and Resources Institute	ISSUE NO.	01	DATED	01-09-2023
	Tender	REVISION NO.	00	DATED	01-09-2023
		DOC. NO.	F/Mat/14		

S. No	Clause No.	Existing Clause	Amended /Added Clause
1	Volume-1, Technical Parameters of BESS, 1.4, row no. 3	PCS shall have the capability to provide active / reactive power as per the requirement limited to rated/contracted capacity of the system. PCS shall have 4-quadrant operation and complied to IEEE 1547 and IEEE 519. Similarly, change in charging current of batteries shall also be smoothly controllable. PCS shall be able to provide 0.8 lead to 0.8 lag reactive power support without curtailing the active power	PCS shall have the capability to provide active / reactive power as per the requirement limited to rated/contracted capacity of the system. PCS shall have 4-quadrant operation and complied to IEEE 1547 and IEEE 519. Similarly, change in charging current of batteries shall also be smoothly controllable. PCS shall be able to provide 0.95 lead to 0.95 lag reactive power support without curtailing the active power
2	Volume-2, Technical Eligibility Criteria, page 4.	The Bidder is required to submit the Technical Bid as per the enclosed Formats 2 and 5 of the RFP in Volume 2, along with a technical presentation.	The Bidder is required to submit the Technical Bid as per the enclosed Formats 2, 2a , and 5 of the RFP in Volume 2, along with a technical presentation.
3	Volume-2, Evaluation criteria and finalization of bid, Technical Bid Evaluation, page 17-18		Section to be read in conjunction of Annexure 1 of corrigendum No. 3


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	Tender	REVISION NO.	00	DATED	01-09-2023
		DOC. NO.	F/Mat/14		

Annexure 1: Technical Bid Evaluation

Technical Evaluation 1

All bidders will be evaluated by the Evaluation Committee as per the below evaluation matrix. Bidders are requested to submit the checklist as per Format 2 and Format 2a along with the necessary proofs as specified.

S. No.	Criteria	Maximum Marks
1	General professional experience of the Power Sector in no. of years Proof – Bidders to provide suitable documentation	5
2	Specific professional experience in BESS installation in no. of years (<i>please mention India and Global experience separately</i>) Proof – Commissioning certificate of first BESS project	10
3	Cumulative Capacity commissioned during last 5 years in MWh (<i>please mention India and Global projects separately</i>) Proof – Commissioning certificates of each BESS project	10
4	Number of grid-connected BESS projects commissioned (<i>please mention India and Global projects separately</i>) Proof – Commissioning certificate of each BESS project	10
5	Largest BESS project commissioned in MWh (<i>please mention India and Global projects separately</i>) Proof – Commissioning certificate of the BESS project	10
6	Cumulative Capacity under commissioning during last 1 year in MWh (<i>please mention India and Global projects separately</i>) Proof – Letter of Award of each BESS project	10
7	Fulfillment of Technical Performance Criteria as per Vol-1 of RfP, including but not limited to: - Round-trip Efficiency at the Commercial Operation Date (COD) - Round-trip Efficiency at the end of last year - Auxiliary energy consumption - Energy throughput degradation profile Proof – Self-certification of technical parameters of BESS	15
8	Submission of Certificates as per RfP - ISO 9001:2015 quality management system - ISO 14001:2015 Environment management system - ISO 27001:2013 Information Security Management System Proof – Respective ISO certifications. If any of the above certifications are not available,	10

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		DOC. NO.	F/Mat/14		


	the bidder must submit a declaration that they will obtain certification prior to signing of the BESSA	
9	Timeline for commissioning of the project Proof - Self-declaration of project commissioning schedule	20
	Total Assessment	100

Technical Evaluation 2 – Technical Presentation

All the bidders scoring above 30% in Technical Evaluation 1 will be called for a Technical Presentation. The shortlisted bidders are expected to cover a brief about the capabilities and credentials of the bidders (all members of consortium, if applicable), capabilities in BESS, EMS/SCADA integration, implementation plan for the project: work steps, milestones, schedule etc. A detailed list of information is present in in 2.1 Technical Eligibility Criteria. The presentation should be limited to 20 minutes, with 5 minutes for questions from the Evaluation Committee.

The Technical Presentation will be scored by the Evaluation Committee out of 20 marks. The final score of the bidder will be calculated by adding up the Score in Evaluation 1 (which will be scaled down to 80 marks) and the Technical Presentation Score.


Bidders who are shortlisted after both rounds of the Technical Evaluation will be called for Financial Bid Opening. The top 60 percent of bidders (rounded up to the next highest number), as per the final scores will be shortlisted for the Financial Bid Opening. This is subject to a minimum of 3 bidders for the Financial Bid Opening.

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	Tender	REVISION NO.	00	DATED	01-09-2023
		DOC. NO.	F/Mat/14		

Format 2a: Technical Bid

Bidders are requested to include Format 2a and corresponding documentation as an annexure to Format 2 of Volume 2 of the RfP:


S. No.	Criteria	Unit	Value
1	General professional experience of the Power Sector in no. of years Proof – Bidders to provide suitable documentation	Years	
2	Specific professional experience in BESS installation in no. of years (<i>please mention India and Global experience separately</i>) Proof – Commissioning certificate of first BESS project	Years	
3	Cumulative Capacity commissioned during last 5 years in MWh (<i>please mention India and Global projects separately</i>) Proof – Commissioning certificates of each BESS project	MWh	
4	Number of grid-connected BESS projects commissioned (<i>please mention India and Global projects separately</i>) Proof – Commissioning certificate of each BESS project	Nos.	
5	Largest BESS project commissioned in MWh (<i>please mention India and Global projects separately</i>) Proof – Commissioning certificate of the BESS project	MWh	
6	Cumulative Capacity under commissioning during last 1 year in MWh (<i>please mention India and Global projects separately</i>) Proof – Letter of Award of each BESS project	MWh	
7	Fulfillment of Technical Performance Criteria as per Vol-1 of RfP Proof – Self-certification of technical parameters of BESS		
	- Round-trip Efficiency at the Commercial Operation Date (COD)		
	- Round-trip Efficiency at the end of last year		
	- Auxiliary energy consumption		
8	Submission of Certificates as per RFP Proof – Respective ISO certifications. If any of the above certifications are not available, the bidder must submit a declaration that they will obtain certification prior to signing of the BESSA		
	- ISO 9001:2015 quality management system	(Yes/ No)	
	- ISO 14001:2015 Environment management system	(Yes/ No)	

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	Tender	REVISION NO.	00	DATED	01-09-2023
		DOC. NO.	F/Mat/14		

	- ISO 27001:2013 Information Security Management System	(Yes/ No)	
9	Timeline for commissioning of the project Proof - Self-declaration of project commissioning schedule	Months	


Energy throughput degradation profile:

Year	Min. Dispatchable Capacity at the end of Year (as a % of 40 MWh)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

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		DOC. NO.	F/Mat/14		

Format 5: Minimum Eligibility Conditions

S No.	Qualification criteria	Description	Documentary evidence attached at page no.
1	The bidder should be an organization registered/ incorporated under Companies Act. 1956 or Companies Act. 2013, and further amendment(s)		
2	Bidders should not be under a declaration of ineligibility for corrupt and fraudulent practice. In this regard an undertaking (self-certificates) has to be provided as per Format 8 that the bidder has not been blacklisted/ debarred by any central/state government or any other institution including electricity boards		
3	Undertaking that the bidder is not a willful defaulter to any lender as per the General Eligibility Criteria (as per Format 8)		
4	The bidder should demonstrate experience of having installed, operationalized, and operated BESS across the globe. Purchase Order/ Completion Certificates should be enclosed		
5	The Bidder should have valid GST and PAN registration certificate. A copy of which should be enclosed		
6	Net Worth of the Company/ Firm/ Corporation in the last financial year (FY 2022-23) should be at least INR 35 Crore (Thirty-Five Crores)		
7	Bidder should have valid CPRI/ERDA/ equivalent international laboratory Type test report of offered battery storage system of all National & International standards for Battery and Inverter mentioned in Table of Volume 1		
7.1	UL 1642 or UL 1973, Appendix E (cell) or IEC 62619 (cell) + IEC 63056 (cell)		
7.2	UL 1973 (battery) or (IEC 62619 (battery) + IEC 63056 (battery))		
7.3	IEC 62281 / UN 38.3		
7.4	IEC 61850/ DNP3		

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7.5	IEC 61508		
7.6	UL 9540 + UL 9540A and (IEC TS 62933-5-1 + IEC 62933-5-2) IS 17092		
7.7	IEC 62933-5-4		
7.8	UL 9540A		
7.9	IEC 61508		
7.10	IEC 62933-2-1		
7.11	IEC 62933-3		
7.12	IEC/TS 62933-4		
7.13	IEC/TS 62933-5		
7.14	IEEE 2030.2.1-2019		
7.15	IS 17387		
7.16	NFPA 855		
7.17	IEC-60529		

(Signature of Bidder with seal)