

SOLAR ENERGY CORPORATION OF INDIA LIMITED					
New Bid					
No. SEC/C&OP/15/0001/25-26/ Amendment 1					Dated: 15.06.2025
(RIS title) : Clarifications to the queries on the Request for Proposals for Selection of BESS Supplier for 600 MW/1200 MWh Battery Energy Storage System (BESS) along with 15 years of Comprehensive Service and Maintenance (DC Package)					
(RIS No. SEC/C&OP/15/0001/25-26)					
S. No.	Clause No.	Exclusion Clause	Proposed Modifications	Rationale/Remarks	SECT's response
1	RIP-Cl. 16 & 16.1 LD	It may be noted that the Liquidated Damages mentioned in Clauses 16.1 and 16.4 above are distinct LDs and damages levied as per Clause 16.4 shall be over and above the damages levied as per Clause 16.1.	SECT is requested to clarify how two LDs imposed for a single event of delay by the contractor. Cl. 16.1 states that LD at max 5% shall be recovered from the CPG of the contractor in the event of delay. Cl. 16.4 states that LD at max 5% shall be recovered from the CPG of the contractor in the event of delay. Cl. 16.5 States that "It may be noted that the Liquidated Damages mentioned in Clauses 16.1 and 16.4 above are distinct LDs and damages levied as per Clause 16.4 shall be over and above the damages levied as per Clause 16.1." SECT is requested that only single LD provision may be kept in the tender for delay to execution by the contractor.		Tender conditions remains unchanged
2	RIP-Cl. 28.2.1 (b) Termination for Supplier's Default:	Termination for Supplier's Default: b. has without valid reason failed to commence supply on the Supplies promptly or has suspended the progress of Contract Performance for more than twenty-eight (28) days after receiving a written instruction from the Employer to proceed.	The supplies of the project shall be governed by L2 schedule submitted by the contractor and duly approved by SECI. Since the DC block of BESS consists of mostly imported equipment, commencement supply of equipment may take more than 28 days from date of signing of CA. Accordingly, SECT is requested to govern the delay in execution for establishing supplier/contractor default from the approved L2 schedule.		Tender conditions remains unchanged
3	RIP-Cl.43 Instructions to Bidders for Structuring of Bid Proposals in Response to RIP	Power of Attorney from the Bidder/ Lead Member of JV Consortium as per Format 7.2A.	Bidders being CPSE organisation, issues General Power of Attorney from Company Secretary backed by Board Resolution to its executives for bid submission against Tender documents. In view of, above, SECT is requested to accept General Power of Attorney in lieu of PoA as per Format 7.2A.		Tender conditions remains unchanged
4	RIP-Cl. 56 (a) Financial Eligibility Criteria & 56.2	A summarized sheet of average turnover, certified by a practicing Chartered Accountant/Statutory Auditor should be compulsorily enclosed along with corresponding annual accounts. A Company/Consortium would be required to submit annual audited accounts for the previous three financial years, along with Net Worth, Annual Turnover and Working Capital from a practicing Chartered Accountant/ Statutory Auditor to demonstrate fulfillment of the criteria.	Bidder company is listed CPSE and Audited Financial Results are published by the company on quarterly and annually basis. Accordingly, SECT is requested to allow submitting the summary sheet of average turnover backed by audited financial results of last three years relaxing the requirement of getting the summary sheet signed by practising CA/ Statutory Auditor.		Tender conditions remains unchanged
5	General	Comprehensive Service and Maintenance Period	Bidder understanding is AC package vendor- on training will execute the BESS OEM as per mentioned procedures of BESS DC package supplier (Bidder). SECT may provide Comprehensive Service & Maintenance Period Terms / procedures to accept by Bidder, and OEM- Intervals of visit.		Please refer Service Level Agreement
6	General		Bidder understanding is during O&M if AC package vendor has not performed regular Practices and fault/unavailability arises - Customer will accordingly provide communication.		Please refer Service Level Agreement
7	General		Bidder understanding is DC Earthing calculation depends on Battery OEM design fault kA . SECT may kindly confirm.		Agreed
8	Annexure-B- Section-A.	10.3. Total Operation & Maintenance of the Plant Facilities shall be with the AC Package Contractor under an O&M Contract as per the terms and conditions of the Operation and Maintenance Agreement. The AC Package Contractor shall enforce the SLA on behalf of the Employer. 10.4. To provide a detailed training plan for all O&M procedures to Employer's nominated staff, which shall have prior approval from the Employer.	Bidder understanding is During Comprehensive Service& Maintenance Period - AC package vendor will ensure all O&M BESS procedures is implemented and documented. SECT may kindly confirm.		The BESS Supplier under DC Package shall be responsible for Preventive and Scheduled Maintenance of equipment Supplied (as well as meet Response Time Criteria specified therein). Please refer the SLA provisions for Supplier's Scope of Works and applicable LDs.
9	Annexure-B- Section-B.	12.7.3. The PCS AC Output voltage shall be 690 V.	The PCS AC Output voltage shall be as per OEM. SECT may kindly access.		Tender conditions remains unchanged
10	General		Upper cap of Comprehensive Service& Maintenance Period LD shall be provided. As per standard market practice, SECT may accept as below w.rte		Please refer Service Level Agreement
11	Annexure-B-Cl. F 3.7.2 Round-trip Efficiency	Acceptance criteria Round-trip efficiency of the BESS shall be more than or equal to, including auxiliary Consumption at 100% rated power: (i) 86% at the PCS AC Terminals (ii) 82% at the 220 kV Interconnection Point	During OAT test - minimum Round-trip efficiency of the BESS shall be more than or equal to, including auxiliary Consumption at 100% rated power: (i) 86% at the PCS AC Terminals (ii) 80% at the 220 kV Interconnection Point. RTE during O&M shall be as per OEM.		Tender conditions remains unchanged
12	RIP-CL21.1	Contract Performance Guarantee (CPG) The Successful Bidder shall submit a Contract Performance Guarantee (CPG) for an amount equal to 10% of the Contract Value/Price of the CA within 20 days of issuance of NoA. It may be noted that the Successful Bidder shall submit the CPG according to the Format T-3D with a validity period up to (6 including) the date as on 27 months from the date of issuance of NoA.	We request SECT to reduce the Contract Performance Guarantee (CPG) for an amount equal to 3% of the Contract Value.		Tender conditions remains unchanged
13	Annexure-B- CLA.2.	Project Particulars- During System Maintenance Contract Period BESS Availability - 98% Round-trip Efficiency	We request SECT to reduce the BESS Availability upto 95% as this is 2hours 2 Cycle per day and all other tenders like NTPC, MSEDCIL, KPCL and itself SECT considering 95% Battery limit or less than that.		Terms and conditions of tender prevail. Total no. of annual cycles shall be 550. Please refer Amendment-01
14	Annexure-B-Cl. F 3.7.2 Round-trip Efficiency	Acceptance criteria Round-trip efficiency of the BESS shall be more than or equal to, including auxiliary Consumption at 100% rated power: (i) 86% at the PCS AC Terminals (ii) 82% at the 220 kV Interconnection Point	We request SECT accept below consideration for RTE (i) 85% at the PCS AC Terminals (ii) Kindly incorporate RTE only at PCS AC terminal for DC Package Bidder. The RTE 82% at the 220 kV Interconnection Point should be under the scope of the AC Package Bidder.		Please refer Amendment-01
15	Annexure-B-Cl. F.4.	Liquidated Damages due to shortfall of Round-Trip Efficiency during PG Test	We request SECT to confirm that this RTE is for Initial Testing for Acceptance of Plant or binding throughout the tender.		The RTE is binding throughout the term of the SLA i.e. 10 years (Please refer Amendment-01) for term of SLA
16	Annexure-B-CLB.10.3	Total Operation & Maintenance of the Plant Facilities shall be with the AC Package Contractor under an O&M Contract as per the terms and conditions of the Operation and Maintenance Agreement. The AC Package Contractor shall enforce the SLA on behalf of the Employer	As per tender, SLA will be enforced by AC Contactor, which is not acceptable. We request SECT that SLA should be enforced by SECT only itself as it will avoid the risk of contradiction.		The SLA shall be signed by the DC Package Contractor with SECT. The AC Package Contractor shall enforce the SLA on behalf of the Employer as it has the overall responsibility for Operation of the Plant Facilities.
17	Annexure-B-CLB.11.1	Power rating* (A)- 600 MW, continuous	Power Rating (A) should be 600MW at BOL and its reduces with respect to Degradation Chart year on year as energy rating (B). We request SECT to confirm on this. Suggestion:- Power rating* (A)- 600 MW at BOL and Yearly rating applicable as per Dispatchable Degradation Chart year on year.		Power Rating shall remain 600 MW while Dispatchable Energy degradation is acceptable. Please refer Scope of Works.
18	Annexure-B-CLB.11.1	BESS Availability - 98%	We request SECT to reduce the BESS Availability upto 95% as this is 2hours 2 Cycle per day and all other tenders like NTPC, MSEDCIL, KPCL and itself SECT considering 95% Battery limit or less than that.		Terms and conditions of tender prevail. Total no. of annual cycles shall be 550. Please refer Amendment-01
19	Annexure-B-CLB.11.1	Use case requirements (i) Energy Shifting (ii) Ancillary Services – TRAS, SRAS	Ancillary Services – TRAS, SRAS Since, as per Clause 11.1, "Table 2 - Project Specific Ratings and Requirements", Grid charging is not permitted, drawing power from the grid for Ancillary Services such as TRAS and SRAS to regulate frequency will not be possible." Note:- a) If demand > supply → frequency falls → BESS to discharge - Applicable b) If supply > demand → frequency rises → BESS to charge - Not Applicable. Since Grid Charging is not mentioned we can support only during discharge for Frequency regulation. We request SECT to confirm on this.		Grid Charging is permitted. Please refer Amendment-01
20	General		SECT intends to setup the 600MW/1200MWh Battery Energy Storage System (BESS) interconnected with Karmool-3 Substation of the ISTS Network for implementing a Market based Operation of BESS at Kollongandla, Nandyal District, Andhra Pradesh under the "Operational Guidelines for Tranche-2 of Market Component of Scheme for Viability Gap Funding for development of Battery Energy Storage Systems" vide F. No. 26/02/2023-RCM/NRE dated 23.01.2025 issued by Ministry of Power (MoP), along with subsequent amendments and clarifications thereof. Since the project is funded under VGF Tranche-II, SECT is requested to confirm whether the recent amendment dtd. August 4, 2025 from Ministry of Power (MoP) mandating the use of indigenous Energy Management System (EMS) software i.e. application software for the BESS Energy Management System (EMS) be developed within India only.	No. use of indigenous Energy Management System (EMS) software i.e. application software for the BESS Energy Management System (EMS) is not applicable to current tender. The referenced order is not applicable for under the "Operational Guidelines for Tranche-2 of Market Component of Scheme for Viability Gap Funding for development of Battery Energy Storage Systems" issued by Ministry of Power (MoP)	
21	Annexure-B-CLF.3.7.2	Acceptance criteria Round-trip efficiency of the BESS shall be more than or equal to, including auxiliary Consumption at 100% rated power: (i) 86% at the PCS AC Terminals (ii) 82% at the 220 kV Interconnection Point	SECT has informed that the RTE need to be guaranteed for the life of the project. However, SECT may note that batteries degrade over their life i.e. there is gradual decline in a battery capacity to store and deliver energy over time. Each charging and discharging cycle causes physical and chemical changes within the battery, leading to degradation. Deeper discharges and high charge/discharge rates accelerate this process. Various chemical reactions, such as the formation of the solid electrolyte interphase (SEI) layer on the anode and cathode, lead to reduced ion transport and increased internal resistance, impacting battery performance i.e. capacity loss. As battery capacity fades, the BESS can store and deliver less energy, decreasing the energy output for a given energy input, thus lowering RTE. Reference is drawn to recent Tender from NTPC for EPC + O&M of BESS of 100MW/400MWh capacity at Ramnagarmand wherein NTPC states "Declared efficiency shall be the annual average round trip AC/AC Efficiency (%) of BESS system at Metering Point considering the energy loss (including auxiliary power requirement) of BESS. Annual average round trip AC/AC efficiency shall not be less than 80% for 1st year. Degradation in efficiency in subsequent years shall be allowed. However, RTE including auxiliary consumption shall not be less than 75 % in any year." We have extensively deliberated with several Battery OEMs and solution providers for a competent solution. However even with market leading industrial products, the required AC to AC RTE of >82% with auxiliary power consumption appears remotely attainable at SOL and not attainable over the project life. An AC to AC RTE with Auxiliary consumption of 80% is attainable at SOL and shall fall to ~75% by EOL. Accordingly, SECT is requested to modify the RTE requirement AC to AC RTE with Auxiliary consumption of 80% is at SOL and at ~75% by EOL.		Tender conditions remains unchanged
22	RIP-CL56(a)	A summarized sheet of average turnover, certified by a practicing Chartered Accountant/Statutory Auditor should be compulsorily enclosed along with corresponding annual accounts. A Company/Consortium would be required to submit annual audited accounts for the previous three financial years, along with Net Worth, Annual Turnover and Working Capital from a practicing Chartered Accountant/ Statutory Auditor to demonstrate fulfillment of the criteria.	Bidder company is listed CPSE and Audited Financial Results are published by the company on quarterly and annually basis. Accordingly, SECT is requested to allow submitting the summary sheet of average turnover backed by audited financial results of last three years relaxing the requirement of getting the summary sheet signed by practising CA/ Statutory Auditor/ on the letterhead of the Chartered Accountant's Firm.		Tender conditions remains unchanged
23	RIP-CL43 (xi-d)	Certified copies of annual audited accounts for the last 3 financial year, i.e. FY 2022-23, 2023-24 and 2024-25 duly certified by a practicing Chartered Accountant (as applicable), along with certified copies of Balance Sheet, Profit & Loss Account, Schedules and Cash Flow Statement supported with bank statements as on the date at least 7 days prior to the due date of bid submission (if applicable), shall be required to be submitted.	Bidder company is listed CPSE and Audited Financial Results are published by the company on quarterly and annually basis. Accordingly, SECT is requested to allow submitting the annual audited accounts as submitted to SEBI relaxing the requirement of getting the annual audited accounts signed by practising CA/ Statutory Auditor/ on the letterhead of the Chartered Accountant's Firm.		Tender conditions remains unchanged

24	RIP-CL43(xi-c)	A certificate of shareholding of the bidding company, its Parent and Ultimate Parent (if any) duly certified by a practicing Chartered Accountant/ Company Secretary as on a date within 30 days prior to the last date of bid submission.		Bidding company is listed CPSE and Audited Financial Results are published by the company on quarterly and annually basis. Accordingly, SECI is requested to allow submitting the share holding certificate as per latest audited results relaxing the requirement of getting the certificate of shareholding signed by practising CA/Company Secretary.	Tender conditions remains unchanged
25	RIP-CL54.6	A foreign company can also participate as a member of JV/consortium. In case of JV/consortium, Lead member shall mandatorily be a Company registered under Companies Act, 2013. In case a Foreign Company is selected as the Successful Bidder as a member of JV/consortium, it shall comply with all the laws and provisions related to Foreign Direct Investment in India.		We request you to kindly clarify, whether the Foreign bidder participate as a lead member of the JV.(if the foreign company have subsidiary firm in India, request you to kindly confirm whether the experience of parent company of foreign bidder shall be considered if the projects has been executed outside of India.)	The lead member of JV/Consortium shall be an Indian registered Company
26	RIP-CL54.2	Joint Venture (JV) Consortium of not more than 03 (Three) companies with one of the Companies as the Lead Member. In the case of a Joint Venture/Consortium, all partners shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV/Consortium shall nominate the Lead partner of the JV/Consortium who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV/Consortium during the Bidding process and, in the event the JV/Consortium is awarded the Contract, during contract execution. The Bid shall be signed by the authorized representative of the Lead partner of the JV/Consortium on behalf of the JV/Consortium, and so as to be legally binding on all the partners as evidenced by a Power of Attorney signed by their legally authorized representatives.		Request you to kindly clarify that the in case of JV, whether JV can nominate the partner other than lead member of JV to submit the Bid on behalf of JV and conduct all the business for and on behalf of JV.	Lead Member shall be the member who shall submit the bid and fulfils 50% of Technical and Financial Qualification Requirement
27	General	Functional Guarantee		Alternative I: We propose a reduction in the Functional Guarantee period from fifteen (15) years to twelve (12) years, while maintaining the assumption of two cycles per day. Alternative II: We suggest modifying the maximum lifecycle requirement to $(365 \times 12 \times 2)$ minus three years: calendar degradation allowance for the 130h to 150h year period], with a maximum limitation of 384 cycles per annum.	The term of the SLA for the DC Package shall be 10 years. The BESS shall be operated for up to 2 cycles per day and not more than 550 cycles in a year. Please refer Amendment-01
28	General			Furthermore, we seek clarification on the performance guarantee measurement methodology. Given that the DC Package supplier's scope extends to the PCS output, we respectfully suggest that performance guarantees should be based solely on PCS output measurements. Since the metering arrangement is positioned at the Point of Interconnection (POI) at 220kV level, we request the establishment of a clear mechanism for calculating performance at the PCS output utilizing SCADA data.	Please refer the SLA for requisite details.
Note: All the queries received from various prospective bidders have been scrutinized and have been tried to be answered comprehensively. In case of any query not published here and is not covered under the Amendments issued to the RIS, it shall be construed in such cases, tender conditions shall prevail.					