

Punjab State Power Corporation Limited

Ref No.58/PSPCL/500MWh/ELEC/BIO-43/(BESS-I)/Amendment No.2 Dated 12-03-2026

Request for Selection of eligible bidders for setting up of 250 MW/500 MWh Standalone Battery Energy Storage Systems (BESS) in Punjab under Tariff-Based Global Competitive Bidding with Viability Gap Funding supported through PSDF.			
RfS No. 58 /PSPCL/500MWh/ELEC/BIO-43/(BESS-I) dated 13.01.2026			
Sr. No.	Reference Clause No. of RfS/ BESP	Existing Clause	Amended clause
1	New Clause no. 3.10 added to RfS.	-	3.10 BESSD shall comply with all provisions of Cyber Security related orders issued by the government from time to time.
2	New Clause no. 3.11 added to RfS.	-	3.11 BESS should be in line with latest guidelines of CEA, CERC and LDC. BMS, EMS, Fire Safety of the BESS should comply with the latest IS or/and IEC or/and IEEE standards and guidelines issued by statutory authorities. Fire safety of the Battery and container should be in line with latest Indian or/and international standards.
3	New Clause no. 3.12 added to RfS.	-	3.12 Reactive power compensations and power quality compliance for entire BESS system upto 220 KV grid interconnection point at the switchyard is included in scope of bidder.
4	New Clause no. 3.13 added to RfS.	-	3.13 During operation of the BESS Plant, in case of grid failure, emergency supply requirement for BESS Plant shall be in the scope of Bidder.
5	RfS clause no.6.2	The land for the project will be provided by PSPCL from the idle land available after the demolition of the 460 MW Guru Nanak Dev Thermal Plant. The land is located adjacent to the 220 kV substation at Bathinda. BESSD shall conduct necessary site visits and assess	The land for the project will be provided by PSPCL from the vacant land available after the demolition of the 460 MW Guru Nanak Dev Thermal Plant. Thermal Plant has already been demolished. The land is located adjacent to the 220 kV substation

		any land treatment or preparatory work required to make the site suitable for BESS installation. Four bays of the thermal plant are currently idle and may be utilized by the BESSD after assessing and carrying out any required renovation or upgradation. The BESSD is allowed to construct new bay, if necessary.	at Bathinda. BESSD shall conduct necessary site visits and assess any land treatment or preparatory work required to make the site suitable for BESS installation.
6	RfS clause no.6.4	The GA layouts and single line diagrams of Grid Substations are enclosed as part of Annexure-D .	The GA layouts and single line diagrams of Grid Substations are enclosed as part of Annexure-E .
7	RfS Clause no.7.2	The responsibility of getting the STU connectivity shall entirely be of the BESSD and shall be at the cost of the BESSD, in line with applicable regulations. With such availability of transmission system being dynamic in nature, the Bidder has to ensure actual availability of power injection/evacuation capacity at STU/PSTCL transmission system. The transmission of power up to the point of interconnection where metering is done for energy accounting, shall be the responsibility of the BESSD at its own cost. The maintenance of Transmission system up to the interconnection point shall be responsibility of the BESSD, to be undertaken entirely at its risk and cost.	The responsibility of getting the STU connectivity shall entirely be of the BESSD and shall be at the cost of the BESSD, in line with applicable regulations. The transmission of power up to the point of interconnection where metering is done for energy accounting, shall be the responsibility of the BESSD at its own cost.
8	RfS Clause no.7.3	The entire cost of construction of infrastructure from the Project up to and including at the Interconnection Point, including but not limited to the transmission line, including the construction of new Bay/renovation of the idle Bay by PSPCL/PSTCL as deposit work of BESSD, Bus bar extension/augmentation & protection relay augmentation with installation of protection and control panel, maintenance & all cost up to the delivery point shall be borne by the BESSD. The maintenance of the Transmission	Notwithstanding anything contained in this document, the BESSD shall pay grid connectivity charges for creation of proper facility for connectivity with substation of PSTCL. These charges shall be paid by the BESSD to O/o CE/TS, PSTCL. The charges shall include cost of complete line bay and related switchgear (including civil works) and its inter-connections with existing electrical system i.e. bus bar. After successful commissioning of the project, all equipments of complete line bay

		<p>system up to the interconnection point shall be the responsibility of the BESSD, to be undertaken entirely at its cost and expense. The NLDC/SLDC/ Scheduling charges, connectivity and other charges shall be payable by BESSD.</p>	<p>and related switchgear shall become asset of PSTCL. Notwithstanding anything contained in this document, the O&M of the complete line bay and related switchgear at the substation shall be done by PSTCL at its own cost for the term of the agreement. The NLDC/SLDC/Scheduling charges, connectivity and other charges shall be payable by BESSD.</p>
9	RfS Clause no.8.1 (c)	<p>The BESSD shall make the BESS available for 2 operational cycles per day, i.e. 2 complete charge-discharge cycles per day. The Project, when fully charged, shall be capable of discharging up to its rated capacity during any 15-minute time block, as per the schedule provided by the State Load Dispatch Centre (SLDC). The discharge may occur intermittently—i.e., the Project may discharge for one or more non-consecutive time blocks—provided that the cumulative discharge duration equals 2 hours per cycle. The Project shall support two such discharge cycles per day. The detailed illustration is provided at Annexure-D.</p>	<p>The BESSD shall make the BESS available for 2 operational cycles per day, i.e. 2 complete charge-discharge cycles per day. The Project, when fully charged, shall be capable of discharging up to its rated capacity during any 15-minute time block, as per the schedule provided by the State Load Dispatch Centre (SLDC). The discharge may occur intermittently—i.e., the Project may discharge for one or more non-consecutive time blocks—provided that the cumulative discharge duration equals 2 hours per cycle. The Project shall support two such discharge cycles per day. The detailed illustration is provided at Annexure-D.</p> <p>Primary/Secondary/Tertiary frequency responses shall not be considered as cycle(s).</p>
10	RfS Caluse no.9 of RfS	<p>The Commissioning of the Project shall be carried out by the BESSD in line with the procedure as per the BESP. The BESSD shall commission the Project in line with provisions of the CERC/SERC (Indian Electricity Grid Code) Regulations, 2023, as amended from time to time. In line with this regulation, the BESSD proposing the Project, or its part, for commissioning, shall give to PSPCL, a preliminary notice not later than 60 days prior and advance notice not later than 30 days prior to the proposed</p>	<p>The Commissioning of the Project shall be carried out by the BESSD in line with the procedure as per the BESP. The BESSD shall commission the Project in line with provisions of the CERC/SERC (Indian Electricity Grid Code) Regulations, 2023, as amended from time to time. In line with this regulation, the BESSD proposing the Project, or its part, for commissioning, shall give to PSPCL, a preliminary notice not later than 60 days prior and advance notice not later than 30 days prior to the proposed</p>

	<p>commissioning date. PSPCL may authorize any individual or committee or organization to witness and validate the commissioning procedure on site. Commissioning certificates shall be issued by PSPCL after successful commissioning. The BESSD shall obtain necessary safety clearances from the Central Electricity Authority/CEIP prior to commissioning of the Project.</p>	<p>commissioning date. Developer shall provide engineering drawings, data, process calculations, test procedures, Equipment layout, Drawings/Data sheets of bought out items, Performance & Guarantee Test procedure etc. to PSPCL.</p> <p>Developer shall provide documentation for design and expected performance through design calculations, software, design drawings, equipment drawings, and modifications to the existing drawings.</p> <p>Developer shall also provide complete manufacturing including conducting all type, routine and acceptance tests, Preassembly, (if any), testing, pre-commissioning and commissioning and putting into satisfactory operation all the equipment including successful completion of initial operation.</p> <p>Developer shall have to get appropriate "Commissioning Instruction" prior to actually first charging of the equipment through the grid. The charging instruction shall be issued only when PSPCL is satisfied that:</p> <ol style="list-style-type: none"> a) The connection works have been completed; b) Developer has complied with its all obligation as set out in the BESPAA; c) Developer has demonstrated the voice & data communication facilities to SLDC. d) Developer has obtained necessary approval of Electrical Inspector or competent authority. e) Developer has complied with its obligations under various standards. <p>PSPCL may authorize any individual or committee or organization to witness and</p>
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			validate the commissioning procedure on site. Commissioning certificates shall be issued by PSPCL after successful commissioning. The BESSD shall obtain necessary safety clearances from the Central Electricity Authority/CEIP prior to commissioning of the Project.
11	RfS Clause no.42.5. 42.6, 42.7	<p>42.5 On completion of Techno-Commercial bid evaluation, if it is found that only one or two Bidder(s) is/are eligible for the next stage, opening of the financial bid of the Bidder(s) will be at the discretion of PSPCL. Thereafter, PSPCL will take appropriate action as deemed fit.</p> <p>42.6 If the first-round tariff quoted is same for two or more Bidders, then all the Bidders with same tariff shall be considered of equal rank/standing in the order.</p> <p>42.7 All Bidders with same tariff shall be eligible for reverse auction round (provided their rank is equal to or less than nth Bidder as mentioned in Clause 43.2 of the RfS.</p>	<p>42.5 On completion of Techno-commercial bid evaluation, if it is found that the total aggregate capacity of the Battery Energy Storage Projects short-listed is lower than or equal to 250 MW, then further process shall be as follows:</p> <p>Assuming: - ST=Capacity of the total number of techno-commercially qualified bidders S-RA= Eligible Capacity for e-Reverse Auction, In Case $ST \leq 250$ MW, all techno-commercially qualified bidders whose financial bids are in accordance with the provisions of the RfS, will be shortlisted for e-RA.</p> <p>Note: 1. In case of each category, on completion of Techno-commercial bid evaluation, if it is found that only one bidder is eligible, opening of the financial bid of the bidder will be at the discretion of PSPCL. Thereafter PSPCL will take appropriate action in consultation with PSERC. 2. If more than 5 bidders submitted their bids, then the bidder or bidders with the highest quoted Tariff shall be disqualified from this Tender process. 3. In case more than one bidder has quoted highest built-up tariff i.e., such bidders are at the same tariff, all such bidders will be eliminated.</p>

			<p>4. The above elimination will take place subject to the condition that the total bid capacity after such elimination remains more than 250 MW. In the contradictory scenario, no elimination will take place at this stage.</p> <p>5. If the first-round tariff quoted is same for two or more bidders, then all the bidders with same tariff shall be considered of equal rank/ standing in the order.</p> <p>42.6 Deleted. 42.7 Deleted.</p>
12	RfS Clause no.43.2	<p>43.2 The total number of eligible Bidders for the reverse auction shall be decided as mentioned below:</p> <p>Assuming, T = Total Techno-Commercially Qualified Bidders;</p> <p>Total eligible Bidders (n) for e-Reverse Auction:</p> <p>a) In case $T \leq 03$: All the techno-commercially qualified bidders whose financial bids are in line with the RfS provisions, will be shortlisted for e-RA.</p> <p>Accordingly, the no. of bidders shortlisted for e-RA, i.e., "n" = "T"</p> <p>b) In case $T > 03$: The lowest ranked bidder, i.e. the bidder quoting the highest Price (the "H1 bidder") shall be eliminated at this stage, and the remaining techno-commercially qualified bidders whose financial bids are in line with the RfS provisions, will be shortlisted for e-RA.</p> <p>Accordingly, the no. of bidders shortlisted for e-RA, i.e., "n" = "T"-1</p> <p>Note:</p> <p>a) In case more than one bidder is ranked as "H1" bidder, i.e. such bidders are at the same Price, all such bidders will be</p>	43.2 Deleted.

		<p>eliminated at this stage.</p> <p>b) The above elimination will take place subject to the condition that the total number of shortlisted bidders after such elimination remains more than 2. In the contradictory scenario, no elimination will take place at this stage.</p> <p>For e.g. (Shortlisting of Bidders for reverse auction): </p>	
13	43.3	<p>43.3 At least one week prior to reverse auction, an advance intimation regarding the date and time of the reverse auction will be sent by e-mail to all the bidders whose technical bids have been opened and are found to be qualified. However, from this advance intimation it shall not be construed by the bidders that they have been shortlisted for Reverse Auction. Further, at least two hours before the scheduled start time of Reverse Auction, a system generated email for invitation for Reverse Auction will be sent to all those bidders only who have been shortlisted based on the criteria mentioned at Clause 43.2 above.</p>	<p>43.3 At least one week prior to reverse auction, an advance intimation regarding the date and time of the reverse auction will be sent by e-mail to all the bidders whose technical bids have been opened and are found to be qualified. However, from this advance intimation it shall not be construed by the bidders that they have been shortlisted for Reverse Auction. Further, at least two hours before the scheduled start time of Reverse Auction, a system generated email for invitation for Reverse Auction will be sent to all those bidders only who have been shortlisted based on the criteria mentioned at Clause 42.5.</p>
14	RfS Clause no.44	<p>44 Selection of Successful Bidder</p> <p>44.1 Subsequent to conclusion of the e-RA process, the Bidder quoting the lowest Tariff (L1 Tariff) after the e-Reverse Auction (e-RA) for the Project will be identified and shall be declared as the Successful Bidder.</p> <p>44.2 In case of a tie among two or more Bidders (i.e. their last quoted Tariff being the same at the end of e-RA), following steps will be followed:</p> <p>a. Time stamping- Bidder will be</p>	<p>44. Selection of Successful Bidders</p> <p>44.1 The bidders shall be selected in the ascending order with lowest quoted tariff (being L1) till the capacity is exhausted.</p> <p>44.2 The lowest quoting bidder will be allotted its qualified project capacity and then, next higher bidder will be allotted its qualified project capacity and so on, till the total capacity i.e. 250 MW is exhausted.</p> <p>44.3 After arranging the bidders in the ascending order of tariff,</p>

		<p>considered in the chronological order of their last quoted Tariff during the e-RA with preference to be given to that Bidder who has quoted its last Tariff during the e-RA, earlier than others.</p> <p>b. In the above case, if the time of quote also becomes exactly same among the Bidders in a tie, then the ranking among these Bidders shall be done as follows:</p> <ul style="list-style-type: none"> • Step 1: Highest rank will be given to the Bidder who has quoted the lowest Tariff in Financial Bid (Electronic Form) and so on. If there is also a tie among any of these bidders, then the following step (Step 2) will be followed. • Step 2: Ranking will be done based on draw of lots. 	<p>the Project capacities will be awarded only to those bidders whose final price bids are within a range of “L1+3%”, in terms of Rs./MW/month.</p> <p>44.4 In case of the last selected bidder, if the balance project capacity is less than the total project capacity mentioned by the bidder, then the balance capacity shall be awarded to the bidder till the total capacity i.e. 250 MW is exhausted. However, if the allocated capacity is less than the 50% of the offered capacity by the bidder then right to refusal shall be lie with the bidder. In case the last selected bidder opts for right of refusal as stated above, the bidder shall intimate PSPCL about its refusal within two working days after e- Reverse Auction event in writing. This balance capacity will be offered to next eligible bidders at PSPCL's discretion.</p> <p>44.5 In case of tie, among two or more bidders (i.e. their last quoted tariff being the same) they will be considered in the chronological order of their last bid with preference to that bidder who has quoted his last bid earlier than others.</p> <p>44.6 In the above case (as mentioned in previous Section), if the time of quote also become exactly same among the bidders at a tie, then the ranking among these bidders shall be done as follow: Step – 1: Lowest rank will be given to the bidder who has quoted the lowest in Financial Bid (Electronic Form) and so on. If there is also a tie among any of these bidders, then the following step (Step 2) will be followed:</p>
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			<p>Step – 2: Ranking will be done based on draw of lots.</p> <p>44.7 In case of ST ≤ 250 MW, after reverse auction, PSPCL may at its own discretion allot capacity to the bidders up to the eligible bid capacity received (i.e. techno commercially qualified).</p> <p>44.8 PSPCL shall reserve the right to short close the capacity lower than 250 MW at its discretion if prices are abruptly high.</p>
15	RfS Clause no.46.43	<p>“PROJECT” shall mean the Battery Energy Storage System set up by the BESSD for supply of Power an “on Demand” basis, having single point of injection/drawl into/from the grid at Interconnection/ Delivery/ Metering Point, or in case of sharing of transmission lines, by separate injection at Pooling Point and having separate control systems and metering. The Project shall also comprise auxiliaries and associated facilities, bay(s) for transmission system in the their switchyard, transmission line up to the injection point and all the other assets, buildings/structures, equipment, plant and machinery (pertaining to the BESS), facilities and related assets required for the efficient and economic operation of the power supply facility, whether completed or at any stage of development and construction or intended to be developed and constructed for the purpose of supply of power to PSPCL. It is clarified that BESS charged using a source other than RE power would not qualify as RE power.</p>	<p>“PROJECT” shall mean the Battery Energy Storage System set up by the BESSD for supply of Power an “on Demand” basis, having single point of injection/drawl into/from the grid at Interconnection/ Delivery/ Metering Point, or in case of sharing of transmission lines, by separate injection at Pooling Point and having separate control systems and metering. The Project shall also comprise auxiliaries and associated facilities, bay(s) for transmission system in the their switchyard, transmission line up to the injection point and all the other assets, buildings/structures, equipment, plant and machinery (pertaining to the BESS), facilities and related assets required for the efficient and economic operation of the power supply facility, whether completed or at any stage of development and construction or intended to be developed and constructed for the purpose of supply of power to PSPCL.</p>
16	RfS Format 7.9	<p>.....</p> <p>We hereby undertake to certify in line with Clause 23 under the title “Financial Closure” that the following details shall be furnished within 9 (nine) months from</p>	<p>.....</p> <p>We hereby undertake to certify in line with Clause 23 under the title “Financial Closure” that the following details shall be furnished within 6 (six) months from</p>

		Effective Date of the BESPA.	Effective Date of the BESPA.
17	BESPA Clause no.12.2.9	The recovery of the impacted amount, in case of the fixed amount shall be, — (a) within a period of one-hundred eighty months ; or (b) in case of recurring impact, until the impact persists	The recovery of the impacted amount, in case of the fixed amount shall be, — (a) within a period of one-hundred and forty-four months ; or (b) in case of recurring impact, until the impact persists

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Dy.CE/Electrical,
Thermal Designs,
PSPCL, Patiala