

Clarifications To Bidders Queries for 50MW / 100 MWh BESS Power Procurement by Tata Power Mumbai Distribution through Tariff-Based Competitive Bidding Process (followed by e-reverse auction) from Grid Connected Inter-State Project

(RfS No. TPCD/PP/FY27/002 Date – 11th August 2026)

Sr. No.	Clause No.	Existing Provision	Clarification Required/Suggested text for the Amendment	Rationale for Clarification or Amendment	Tata Power-D Clarification																		
1	BESPA definition / Article 5.1	SCD is 18 months in definition but 12 months in Article 5.1	Clarify the binding SCD for commissioning and LD.	-	Supply Start Date is 12 months from BESPA <table><tr><th>Req No.</th><th colspan="5">Battery Energy Storage System power supply</th></tr><tr><th></th><th>Supply Start Date</th><th>Supply Capacity</th><th>Minimum Availability - Monthly</th><th>Min Bid Capacity</th><th></th></tr><tr><td>1</td><td>12 months from BESPA</td><td>50 MW / 100 MWh</td><td>≥ 95%</td><td>50 MW / 100 MWh</td><td></td></tr></table>	Req No.	Battery Energy Storage System power supply						Supply Start Date	Supply Capacity	Minimum Availability - Monthly	Min Bid Capacity		1	12 months from BESPA	50 MW / 100 MWh	≥ 95%	50 MW / 100 MWh	
Req No.	Battery Energy Storage System power supply																						
	Supply Start Date	Supply Capacity	Minimum Availability - Monthly	Min Bid Capacity																			
1	12 months from BESPA	50 MW / 100 MWh	≥ 95%	50 MW / 100 MWh																			
2	Delivery-point cost boundary	Tender says bidder bears charges/losses to delivery point; elsewhere beyond delivery point is Procurer	Provide a single unambiguous cost boundary including CTU bay, dedicated line, losses and GNA/ISTS.	-	Delivery Point is CTU Periphery																		
3	BESS land location	BESS land is bidder responsibility but no identified plot/available land is provided	Confirm whether any designated land/CTU substation/site option exists or bidder is fully free to select location.	-	Bidder is free and shall arrange for Land and Non-Solar Connectivity but charging power shall be availed from 33kV bus at existing solar substation at Chhayana.																		

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					Kindly refer RfS clause 1.2.16 and Annexure-A (of this clarification) for interconnection related charges
4	Non-solar connectivity	Bidder must secure connectivity; cost/timeline not specified	Provide available CTU connectivity status, application route, point, bay availability and expected processing timeline.	-	Bidder shall arrange for Land and Non-Solar Connectivity
5	Existing solar interconnection	33 kV interconnection to Chhayan solar site is mandatory	Confirm available bay capacity, protection/interface responsibilities, metering boundary and modification scope.	-	Kindly refer Annexure-A (of this clarification) for interconnection related charges
6	Charging power before COD	Bidder bears charging energy for commissioning tests until COD/UCOD	Clarify permissible source, settlement method and whether solar power can be scheduled before COD.	-	Bidder to follow existing RfS/BESPA conditions
7	RtE measurement boundary	Metered charging energy and scheduled delivery energy used	Confirm exact meter points, treatment of auxiliary consumption, transformer losses and station service.	-	Only BESS charging power shall be supplied by Tata Power-D
8	Availability calculation	Availability based on actual charge/discharge functions and instructed capacity	Confirm treatment of SOC constraints, dispatch not issued, communication failure, partial dispatch and equipment unavailable due to grid conditions.	-	Bidder to follow existing RfS/BESPA conditions

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9	PCS oversizing	BESS must deliver rated power at 0.95 PF and voltage conditions	Confirm exact grid-code operating envelope and whether 50 MW refers active power at 0.95 PF under all stated conditions.	-	Bidder to follow existing RfS/BESPA conditions; maintaining 50MW at delivery point
10	EMS indigenous development	EMS software must be developed indigenously within India	Define whether adaptation/configuration of foreign OEM EMS is acceptable and what evidence is required.	-	Bidder to follow existing RfS/BESPA conditions
11	Cyber security	CEA 2021 and subsequent requirements	Confirm approved cyber architecture, data hosting, remote access and audit requirements.	-	Bidder to follow existing RfS/BESPA conditions and shall follow applicable requirements from relevant authorities, amended and issued time to time
12	Fire thermal runaway /	Characterization required for high-energy-density systems	Confirm required test standard, authority and acceptance protocol.	-	Bidder to follow existing RfS/BESPA conditions and shall follow applicable requirements from relevant authorities, amended and issued time to time
13	OEM warranty	Performance guarantee and life expectancy required	Clarify minimum warranty duration and acceptable degradation curve / throughput basis.	-	Bidder to follow existing RfS/BESPA conditions
14	Financial closure	100% project cost funding evidence in six months	Confirm whether committed equity + sanctioned debt is sufficient and exact lender certificate format.	-	Bidder to follow existing RfS/BESPA conditions and refer checklist for financial closure

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15	PBG release	PBG valid to 12 months after SCD + 1-year claim period; release 45 days after successful commissioning	Clarify substitution/release if commissioning occurs in parts.	-	Bidder to follow existing RfS/BESPA conditions
16	Change in Law 1% threshold	Compensation only if net impact $\geq 1\%$ of project cost/revenue	Clarify treatment of multiple smaller changes aggregated within Contract Year.	-	Bidder to follow existing RfS/BESPA conditions
17	Invoice dispute	50% payment mandatory; later reconciliation	Clarify treatment of LD claims and disputed performance data pending resolution.	-	Bidder to follow existing RfS/BESPA conditions
18	Insurance proceeds	Insurance proceeds first used for reinstatement / claims	Clarify lender step-in and ownership of residual proceeds after reinstatement.	-	Bidder to follow existing RfS/BESPA conditions
19	Substitution / lender rights	Lender substitution possible	Confirm eligibility/technical credential treatment for substitute entity and process timeline.	-	Bidder to follow existing RfS/BESPA conditions
20	End-of-life disposal	Waste/e-waste/battery rules apply	Confirm whether residual value / recycling proceeds belong to BESSD and any site-remediation obligation.	-	Yes and selected bidder shall be responsible for statutory compliances regarding waste/e-waste rules
21	2.2.2	Technical Capacity: For demonstrating technical capacity and experience (the "Technical Capacity"), the Bidder shall have experience in construction, commissioning, owning, operating and maintaining Battery Energy	Technical Capacity: For demonstrating technical capacity and experience (the "Technical Capacity"), the Bidder shall have experience in construction, commissioning or owning, operating and	EPC players who have sufficient experience don't own the asset therefore	Bidder to follow existing RfS/BESPA conditions

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		Storage station(s) having an installed capacity equivalent to at least half the capacity for which the Bidder is willing to Bid. Bidders shall not be allowed to increase their capacity at e- Reverse Auction Process greater than for which Technical Capacity has been demonstrated.	maintaining Battery Energy Storage station(s) having an installed capacity equivalent to at least half the capacity for which the Bidder is willing to Bid. Bidders shall not be allowed to increase their capacity at e-Reverse Auction Process greater than for which Technical Capacity has been demonstrated.	requesting TPCL to include the proposed modification to enable competition in market within public interest	
22	2.2.3 (i)	certificate(s) from statutory auditors of the Bidder, stating the power stations which are constructed, commissioned, owned and operated by the Bidder or its Associate(s) / Affiliate(s), as the case may be, as specified in paragraph 2.2.2 (A) above; and	certificate(s) from statutory auditors of the Bidder, stating the BESS projects which are constructed, commissioned, owned and operated by the Bidder or its Associate(s) / Affiliate(s), as the case may be, as specified in paragraph 2.2.2 (A) above; and	Since it's a typo error requesting TPCL to change it and clarify on the same	Bidder to follow existing RfS/BESPA conditions

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23	6.2	The Tata Power-D will schedule charging (adjusted for the guaranteed Round-Trip Efficiency-RtE) and discharging of the BESS on day-ahead/intra-day basis, in coordination with the supplier. This shall be achieved by mitigating degradation through necessary augmentation, thereby maintaining full deliverable capacity throughout the agreement. The quantum of charging energy shall be revised in accordance with the RtE values committed in the BESPA.		Please clarify on the Y-o-Y degradation BESS system	Full capacity at the delivery point shall be maintained throughout the entire period of BESPA
24				Please confirm whether capacity charges are payable on MW availability, irrespective of actual MWh dispatched by TPCL	Yes. Please refer Article-9 of draft BESPA

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25	12	2.1.1 In this Article 12, the term Change in Law shall refer to the occurrence of any of the following events, after the last date of the bid submission: (a) the enactment, bringing into effect, adoption, promulgation, amendment, modification or repeal, of any statute, decree, ordinance or other law, regulations, notice, circular, code, rule or direction by Governmental Instrumentality having a binding mandate or a change in its interpretation by a Competent Court of law, tribunal, government or statutory authority or any of the above regulations, taxes, duties charges, levies that results in any change with respect to any tax or surcharge or cess levied or similar charges by the Competent Government on the storage of electricity (leviable on final output i.e. the drawl or injection from BESS projects in the form of energy) or on supply of energy storage capacity. (b) Introduction / modification /		Please confirm whether Change in Law provisions include future amendments related to battery safety, recycling, or energy storage regulations	Bidder to follow existing RfS/BESPA conditions

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		changes in rates of Safeguard Duty and/or AntiDumping Duty and/or Customs Duty and/or Goods and Services Tax including surcharge thereon which have direct effect on the Project cost. 12.1.2 For avoidance of doubt, it is clarified that any change in taxes or surcharge or cess or similar charges on inputs like material, labor or any other input for setting up the Project will not be allowed under Change in Law except as specified in 12.1.1(b). It is further clarified that, Change in Law/ Regulation shall not include (i) any change in taxes on corporate income or any change in any withholding tax on income or dividends, or (ii) change in respect of deviation settlement mechanism/charges or frequency intervals by an Appropriate Commission.			

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				Please include the 50% local content at the project level as it will empower the indigenous development of BESS similar to the other utility tenders based in India.	Bidder to follow existing RfS/BESPA conditions
26	1st Time Charging			Kindly clarify the provision and source of construction power and commissioning power for the project.	Bidder to follow existing RfS/BESPA conditions
27	4.1.1.1, 4.2.3	Delivery Point shall be at CTU Periphery.	Kindly clarify whether the CTU feeder bay shall be provided by CTU or is required to be constructed by BESSD.	Required for accurate estimation of CTU substation scope and project cost.	Bidder to follow existing RfS/BESPA conditions
28	4.1.1.1, 4.2.3	BESSD shall arrange connectivity up to Delivery Point.	Kindly confirm whether CTU bay extension works are within BESSD scope.	Major cost impacting item.	Yes, bidder is entirely responsible for arranging Non-solar connectivity

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29	4.1.1.1	Interconnection with existing 150 MW Solar Project at 33kV bus.	Kindly confirm availability of a spare 33kV feeder/panel at the existing Solar Plant for BESS charging connection.	Required for switchgear scope assessment.	Kindly refer Annexure-A (of this clarification) for interconnection related charges
30	General	Existing Solar Plant to be used for BESS charging.	Kindly provide SLD, switchyard configuration, protection philosophy and available bay details of the existing 150MW Solar Plant.	Required for detailed engineering and interconnection design.	Kindly refer Annexure-A (of this clarification) for interconnection related charges
31	General	Charging power to be sourced from existing Solar Plant.	Kindly provide the exact interconnection arrangement and voltage level for BESS charging from the Solar Plant.	Required for system configuration and equipment sizing.	Kindly refer Annexure-A (of this clarification) for interconnection related charges
32	General	Not specified.	Kindly provide the approximate distance between the Solar Plant interconnection point and proposed BESS location.	Required for cable/transmission cost estimation.	Kindly refer Annexure-A (of this clarification) for interconnection related charges and Bidder is free to choose land for BESS installation
33	Delivery Point Definition	Delivery Point shall be at CTU Periphery.	Kindly provide CTU substation name, voltage level and delivery point configuration.	Required for transmission system design.	Bidder is free to choose CTU Substation and responsible for Non-solar connectivity
34	4.2.3, 4.2.4	BESSD responsible for connectivity and integration.	Kindly clarify whether protection integration, relay coordination and disturbance recorder integration at CTU are in BESSD scope.	Scope clarification for protection system works.	Bidder to follow existing RfS/BESPA conditions

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35	4.2.3, 4.2.4	Connectivity arrangement under BESSD scope.	Kindly clarify whether SAS integration at CTU substation is in BESSD scope.	Significant impact on substation engineering cost.	Bidder to follow existing RfS/BESPA conditions
36	Schedule-E	Communication and monitoring requirements.	Kindly provide detailed telemetry, SCADA and communication integration requirements with CTU/RLDC/NLDC.	Required for communication system design and costing.	Bidder to follow existing RfS/BESPA conditions
37	Schedule-E	Communication equipment requirement at BESS end shall be as per CTU stipulations.	Kindly clarify whether OFC connectivity and communication infrastructure up to CTU/RLDC are in BESSD scope.	Scope and cost clarification.	Bidder to follow existing RfS/BESPA conditions
38	Article 7	Metering arrangement at CTU end.	Kindly clarify the quantity and location of Main, Check and Backup meters required for project implementation.	Required for metering BOQ estimation.	Bidder to follow existing RfS/BESPA conditions
39	General	Not specified.	Kindly clarify the source and responsibility of construction power and commissioning power for the project.	Required for project execution planning.	Bidder to follow existing RfS/BESPA conditions and the responsibility for arranging construction and auxiliary power is solely with the bidder
40	6.1.6	Auxiliary power shall be in scope of BESSD.	Kindly clarify the source, voltage level and metering arrangement for auxiliary power supply.	Required for auxiliary system design.	Bidder to follow existing RfS/BESPA conditions
41	4.2.6	Studies such as harmonic, transient and stability studies to be conducted by BESSD.	Kindly confirm whether network data and study models required for harmonic, dynamic and	Required for completion of mandatory grid studies.	Bidder to follow existing RfS/BESPA conditions

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			stability studies shall be provided by Tata Power-D.		
42	6.1.5	BESSD shall comply with applicable reactive power requirements.	Kindly provide the reactive power requirement and PQ capability requirement at the Delivery Point.	Required for PCS sizing and compliance.	Bidder to follow existing RfS/BESPA conditions and shall comply to all relevant standards/rules/requirements from competent authorities
43	General	Land arrangement under BESSD scope.	Kindly confirm whether land adjacent to the existing Solar Plant may be utilized for BESS installation.	May reduce transmission infrastructure requirement.	Land and connectivity are entirely at bidders discretion
44	General	Not specified.	Kindly provide Geotechnical Report, ERT Report, Topographical Survey and Contour Survey, if available.	Required for civil and foundation design.	Bidder to follow existing RfS/BESPA conditions
45	General	Not specified.	Kindly clarify whether CTU connectivity charges, bay charges, protection integration charges, communication charges and RLDC-related charges are in BESSD scope.	Critical for accurate commercial bidding and project costing.	All the charges and losses till CTU periphery are in the bidders scope
46	4.2.3, 4.2.5	Transmission system up to Delivery Point to be arranged by BESSD.	Kindly clarify whether transmission line route approval, ROW permissions and statutory approvals up to Delivery Point shall be under BESSD scope.	Required for transmission scope definition.	Bidder is responsible to make all the arrangements till delivery point

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47	General	Interconnection with Solar Plant.	Kindly confirm whether any modifications to the existing Solar Plant protection, SCADA or switchgear systems shall be carried out by BESSD.	Scope boundary clarification.	Bidder to follow existing RfS/BESPA conditions and refer Annexure-A
48	Article 7	Metering requirements.	Kindly clarify the revenue metering location for charging energy and discharged energy settlement.	Required for energy accounting and billing.	Bidder to follow existing RfS/BESPA conditions
49	Schedule-E	EMS and Communication System Requirements.	Kindly provide detailed list of signals/data points required between BESS EMS, Solar SCADA, CTU and RLDC.	Required for EMS and SCADA engineering.	Bidder to follow existing RfS/BESPA conditions
50	General	Not specified.	Kindly clarify whether a dedicated communication channel leased line shall be required and indicate the responsible party.	Communication infrastructure cost impact.	Bidder to follow existing RfS/BESPA conditions
51	General	Not specified.	Kindly clarify whether any spare bays, metering cubicles or communication infrastructure are already available at the CTU substation.	Helps optimize project cost and scope.	Bidder to follow existing RfS/BESPA conditions

ANNEXURE-A

Connectivity-related Charges for availing Charging Power

(To be included while quoting BESS tariff)

Upfront and Recurring Charges for Shared Infra - BESS Charging	
One-time Infrastructure / Upfront Charges	Recurring O&M Charges
-Rs 30 Cr (including PMC Charges + applicable GST) - To be paid at the time of PPA signing	- Rs 2 Cr per annum (inclusive of GST) - 5% annual escalation from 2nd year onwards till the end of PPA - To be paid at the start of every financial year
<u>Proportionate Share of Infrastructure and Site-related Charges, including:</u> - <u>Switchyard</u> - <u>Evacuation Infra</u> - <u>Common Infra</u> - <u>Site R&M Charges</u> - <u>Miscellaneous Site Charges</u>	