

SOLAR ENERGY CORPORATION OF INDIA LIMITED				
New Delhi				
No. : SECI/C&P/OP/11/0003/26-27/Amendment-01			Dated: 10.09.2026	
Amendment-01 to RfS No. SECI/C&P/OP/11/0003/26-27 (Package 2: Wind)				
Sl. No.	Section No. /Document	Clause No.	Existing Clause	Proposed Modifications
Contractual Tender Document				
1	Section-I Invitation for Bids (IFB)	Bid Information Sheet (A) 6 (ii)	Clause is amended as follows Second Contract (O&M Part): For providing Comprehensive operation & maintenance of this project (Package-2) for 10 (Ten) years from the date as per the information given in Section-V SCC (amended), including supply and storage of all spare parts, consumables, repairs/ replacement of any defective equipment etc.	
2	Annexure to Bid Data Sheet (BDS) Qualifying Requirements	1 General QR in tenders	Addendum to the Clause: In order to avail the exemption in Tender Processing Fee in case of consortium/ JV, all the members should be registered as MSE Vendors under NSIC/ Udyog Aadhaar Category/DIC. In case the consortium/JV proposes to meet the qualifying requirements based on the credentials of its Parent/Holding/Subsidiary/Affiliate and any of its Parent/Holding/Subsidiary/Affiliate is not an MSE, the consortium/JV will not be eligible for exemption of Bid Processing Fees and EMD.	
3	Section-II ITB	32.4.1 “Following factors shall be considered for evaluation of Price Bids:”	The Clause is amended as follows Subsequent to opening of price bids of Techno-commercially qualified bidders, Evaluated Bid Values per MU (EBV/MU) for all Techno-commercially qualified bidders will be computed to derive EBV/MU for all such bidders. The lowest EBV/MU shall be the start price for e-RA. Post the culmination of e-RA, the bidder with the Lowest EBV/MU shall emerge as the successful bidder. The detailed evaluation methodology is explained below a) The Bidder shall submit along with the Bid, an independent Energy Yield Assessment Report prepared by National Institute of Wind Energy, Chennai (NIWE), with the proposed WTG Make/Model for Wind Farm at Ramagiri. The Bidder shall estimate the Energy Yield from the Wind Farm, considering WTG footprints as identified in Annexure SA-B: Land Layout (With Micrositing & Other Details) and Simulation parameters as specified in Annexure GA-A: Estimated Annual Energy Production. b) The Evaluated Bid Value (EBV) shall be calculated as per methodology given under clause 32.3.6 in Section-II (ITB) above. Total Evaluated Bid Value shall be inclusive of Goods & Service Tax (GST) as quoted by the bidder. The award shall be placed Inclusive of GST with taxation bifurcation separately indicated as submitted by the successful bidder in	

		the SOR format c) Bidding Parameter for e-Reverse auction i.e. EBV/MU shall be calculated as below: EBV/MU (Rs/ MU) = Evaluated Bid Value (EBV)/NIWE certified Estimated Cumulative Energy generation (P90 value in MUs over 10 years) (A). Note: During the e-Reverse Auction only the Evaluated Bid Value (numerator) is revised through bidders' price offers, while the NIWE-certified Energy generation (denominator), fixed pre-RA, is NOT open to revision during e-RA. Where MU is Million Unit (Million kWh) A. NIWE certified Wind Energy generation i. Bidders are required to submit the Independent Energy Yield Assessment Report for Wind Farm (considering list of WTG footprints and total rated capacity of 45.6MW (+ 5%)) prepared by NIWE, considering WTG footprints as identified in Annexure SA-B: Land Layout (With Micrositing & Other Details) and Simulation parameters as specified in Annexure GA-A: Estimated Annual Energy Production. ii. The Bidders shall submit the Estimated Yield Assessment Report along with bid documents. iii. The value of Estimated Cumulative Energy generation (P90 value, in MUs) over 10 years for the Wind Farm as per the NIWE certified Report submitted along with First Envelope (also referred to as Techno - Commercial Part) shall be considered for the evaluation purpose only. Note: Bidders with Energy Yield Estimation Report having CUF less than minimum value specified in the Tender Specifications shall be disqualified from further evaluation. iv. The decision of NIWE regarding Wind Energy Generation in MUs for 10 years for proposed WTG models by the bidders shall be final and binding on the bidders and same shall be considered for the evaluation purpose. An illustrative method of evaluation is explained below for reference: <table border="1"> <tr> <td></td><td>Bidder 1</td><td>Bidder 2</td></tr> </table>		Bidder 1	Bidder 2
	Bidder 1	Bidder 2			

				<table><tr><td>Evaluated Bid Value (EBV)</td><td>EBV1 (INR)</td><td>EBV2 (INR)</td></tr><tr><td>Energy Yield Estimation (B) <i>Estimated Cumulative Energy over 10 years (P90 value in MUs) from the Energy Yield Estimated Report</i></td><td>G 1</td><td>G 2</td></tr><tr><td>Evaluated Bid Value per MU (EBV/MU)</td><td>EBV/MU 1 = EBV1 (INR)/G1</td><td>EBV/MU 2 = EBV2 (INR)/G2</td></tr></table>	Evaluated Bid Value (EBV)	EBV1 (INR)	EBV2 (INR)	Energy Yield Estimation (B) <i>Estimated Cumulative Energy over 10 years (P90 value in MUs) from the Energy Yield Estimated Report</i>	G 1	G 2	Evaluated Bid Value per MU (EBV/MU)	EBV/MU 1 = EBV1 (INR)/G1	EBV/MU 2 = EBV2 (INR)/G2
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Evaluated Bid Value per MU (EBV/MU)	EBV/MU 1 = EBV1 (INR)/G1	EBV/MU 2 = EBV2 (INR)/G2											
				v. EBV/MU Factor for the mentioned Evaluated Bid Value per MU will be considered up to 4 decimal places only. vi. If Evaluated Bid Value per MU for Bidder 1 (EBV/MU1) is less than Evaluated Bid Value per MU of Bidder 2 (EBV/MU2), then such Bidder 1 in this case will be successful bidder. vii. Bidder with lowest EBV/MU shall be L-1, Bidder with Second lowest EBV/MU shall be L-2 & so on. d) Billing Break-up (BBU): For each item of SOR 1 & 2, the BBU shall be prepared in the same SOR format (Item name, UoM, Quantity, unit Ex Works price, GST, Total price etc) and the sum of all billing break-up item prices shall be equivalent to each respective SORs item price with discounted rate of e-Reverse auction (If applicable). However, in case of any variation in the line-item prices during BBQ stage the approval of the Owner with due justification will be obtained, keeping the overall price of the Contract constant. The Contractor would be required to provide detailed Bill of Quantity (BOQ) at the BBQ stage and HSN code of the respective goods/services post award during the design approval phase. This will be used by the Owner at the time of payment to the Contractor (Successful bidder). Accordingly, bidders should diligently quote the GST component in the bid. Owner shall reimburse the amount of GST as per the rates mentioned by Contractor in the detailed BOQ. In case of any statutory variation in GST during the currency of the Contract, same will be reimbursed to the Contractor subject to the treatment provided under clause No 51 of the GCC of the Bidding document, only in respect of the items/quantity which have been mentioned by the Contractor in the detailed BOQ. In case of imported									

			Equipment/items purchased from third party (Bought-Out Items) are supplied to the EMPLOYER/Owner in execution of the Project, the price of such Goods shall be inclusive of all cost as well as any duties paid/payable in relation to import/purchase of such goods (viz., customs duties, GST & levies etc.) considering and taking into account the ITC as may be available under the applicable laws including GST.
4	Section-II ITB	32.4.2	<u>The clause is amended as follows</u> 1. The e-auctioning shall be conducted on https://www.bharat-electronictender.com. E Auctioning shall be carried out on the day as intimated by SECI to the eligible bidders. 2. After financial bid evaluation, the bidders shall be shortlisted in the ascending order of price bid quoted. Keeping minimum 03 Bids eligible for e-RA, the H1 bidder (bidder with highest EBV/MU) will be eliminated at this stage itself and resultant as such, will be eligible for e-RA. If the price bid quoted is same for two or more bidders, then all the bidders with same price bid shall be considered of equal rank/ standing in the order. • In case of substantially low response by the bidders & the total no of responsive bids to be less than 03 (Three), Owner/EMPLOYER reserves the sole discretion & all rights of proceeding/non-proceeding with e-RA, against the management approval. Evaluated Bid Values (EBV)/MU for all the Bidders shall be compared to determine the lowest Evaluated Bid Value per MU (EBV/MU). Further, the lowest (L1) evaluated Bid as such, will be selected for the Notification of Award (NOA) subject to the successful bidder selected after E-Ra (Clause 32.4.2). • At least one week prior to e-RA, an advance intimation regarding the date and time of the e RA will be sent by email to all bidders whose technical & financial bids have been opened and found to be qualified. However, from this advance intimation it shall not be construed by the bidders that they have been shortlisted for e-RA. Further at least two hours before the schedule start time of e-Auctioning, a system generated email for invitation for e-Auctioning will be sent to all those bidders only who have been shortlisted based on the criteria mentioned. • Shortlisted bidders for e-Auctioning will be able to login into the ISN website of auctioning 15 minutes before the start time of e-auctioning. • At the start of e-auctioning process, the bid along with the list of short-listed bidders shall be displayed with their pseudo names as their first-round EBV/MU. The auctioning shall be on EBV/MU quoted by the L1 bidder. • The minimum decrement step for e-Auctioning is in the multiples of Rs. 2,000/- (Indian Rupees Two Thousand only) in EBV/MU, i.e. each decrement shall be in multiples of Rs.2,000/- (Indian Rupees Two Thousand only). At the end of the e-RA, the final discount offered by the bidder, in the form of reduction so offered on the EBV/MU, shall be applied proportionately to all of the SOR Line items price (EPC Price + NPV of O&M price) quoted by the bidder initially in the financial bid. Accordingly, the revised reduced price of all of the SOR line items of the EPC & NPV of O&M will be derived. This proportionate price reduction will be applicable on both

			the EPC price & NPV value of O&M price, on which the e-RA has been actually conducted. - While applying the price reduction obtained after e-RA, all the SOR line items of the Schedule Nos 1 & 2 / SOR 1 & 2 (DSI Price of Supply & Service or the EPC price) can be straight away reduced by applying the % reduction factor uniformly on all the line items of Schedule Nos 1 & 2 / SOR 1 & 2. Same way, the NPV value of each year line item of O&M value under Schedule No 3/SOR – 3, can also be straight away reduced by applying the % reduction factor uniformly on all the line items of Schedule No 3/SOR – 3. However, as the reduced line items so arrived will be the NPV values of each year O&M value, so for the purpose of award, absolute values of each year O&M price line item wise will then be back calculated by dividing the finally arrived (After applying % reduction factor post e-RA) yearly reduced NPV values by the respective year “Discounting Rate for NPV calculation” & thereby, the absolute value of O&M price will be calculated on yearly basis. The award will be placed on the absolute value of O&M price including GST only and not on NPV of O&M price. NPV values are considered for the purpose of price bids evaluation (i.e. for calculation of EBV/MU) only. - L2, L3, L4.... LN Bidders have to mandatorily apply their decrements suitably so as to beat the L1 price in the first go itself, else system will not accept their respective Bids. However, at no stage, increase in EBV/MU will be permissible. - During E- Auctioning, no revision in total price (EBV/MU) for which a bidder is considered qualified after evaluation of Technical Bid is allowed. - The initial auctioning period will be of one (01) hour with a provision of auto extension by eight minutes from the scheduled/ extended closing time if any fresh bid is received in last eight minutes of auctioning period or extended auctioning period. If no valid bid is received during last eight minutes of auctioning period or extended auctioning period, then the e auctioning process will get closed. 3. Following information will be displayed in the bidder’s bidding window - First round EBV/MU as their start price (bidding parameter) initially and thereafter last quoted EBV/MU. - The e-reverse auction will be conducted on EBV/MU as bidding parameter. - The list of last quoted EBV/MU (i.e. last Bid Value) of all bidders with their Pseudo Identities and their time of quote. 4. Selection of Successful Bidders Post e-RA, the bidders shall be selected in the ascending order with lowest quoted Evaluated Bid value per Million Unit (MU) (being L1). - The final price will be arrived by adding the EPC price and the NPV of O&M price (as a result of e-auctioning process) - The bidder with lowest Evaluated Bid value (EBV) per Million Unit at the end of e-Auctioning will be considered L1. - In case of tie in the final EBV/MU after e-RA, among two or more bidders being the same at the end of e Reverse
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			Auction, they will be considered in the chronological order of their last bid with preference to the bidder who has quoted his last bid earlier than others. d. In the above case, 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: • The bidder who has provided lowest EBV/MU as per price bid before commencement of E Auction shall be considered as L-1. • If there is also a tie among any of these bidders, then L-1 will be the bidder who has the highest average annual turnover as per the documents submitted as a part of their bid. 5. At the end of selection process, a Notification of Award (NOA) will be issued to the successful bidder (L1) (i.e. Bidder who has quoted lowest EBV/MU at culmination of e-RA). 6. In all cases, SECI's decision regarding selection of bidder through E-Auctioning or even annulment of tendering process shall be final and binding on all participating bidders.	
5	Section-V Special Conditions of Contract (SCC)	3. Definitions (GCC clause 1)	The Time for Commissioning for the cumulative capacity of 45.6 MW Wind Power Project at Ramagiri, Sri Sathya Sai District, Andhra Pradesh, along with other associated equipment as per this tender document in total shall be 14 (Fourteen) Months from the Date of the signing of Contract Agreement or as mentioned in Notification of Award. Further Contractor is also to provide Comprehensive operation & maintenance of Wind Power Project for a period of 10 (ten) years as mentioned in detailed scope of work from the date of commissioning or Operational Acceptance, whichever is later, as detailed in technical specification. The Comprehensive operation & maintenance of the entire plant for the period of Commissioning till Operation Acceptance will also be under the scope of Contractor.	The Time for Commissioning for the cumulative capacity of 45.6 MW Wind Power Project at Ramagiri, Sri Sathya Sai District, Andhra Pradesh, along with other associated equipment as per this tender document in total shall be 14 (Fourteen) Months from the Date of the signing of Contract Agreement or as mentioned in Notification of Award. Further Contractor is also to provide Comprehensive operation & maintenance of the ground mounted SPV plant with BESS for a period of 5 (Five) years as mentioned in detailed Technical Specification/ scope of work. The O&M Period shall commence upon Project Commissioning, pursuant to a written notice issued by the Contractor confirming commencement ("Commencement of Plant O&M Notice"), which the Contractor shall issue no later than two (2) months from the Date of Commissioning of the Project. In the event the Contractor fails to issue the Commencement Notice within the aforesaid period of two (2) months, the O&M Period shall be deemed to have commenced immediately upon expiry of such two (2) month period, save and except where such failure is on account of a Force Majeure event occurring during the intervening period, in which case the provisions of Force Majeure shall apply. Upon commencement of the O&M Period (whether pursuant to the Commencement Notice or by deemed commencement as aforesaid), the Contractor shall be liable for all penalties and/or Liquidated Damages in accordance with the terms of O&M Contract.
6	Section-V	GCC	replace the existing clause	“COMMISSIONING/PART COMMISSIONING” means

	Special Conditions of Contract (SCC)	Clause 1.1.23 [A] Definitions of terms:		Successful completion of all tests specified in the General Annexure E: Plant Documentation, Commissioning and Test Procedure, evidenced by a Readiness Certificate.
7	Section-V Special Conditions of Contract (SCC)	GCC Clause 1.1.51 Definitions "OPERATIONAL ACCEPTANCE"	Replace the existing clause by following	"OPERATIONAL ACCEPTANCE" means, successful completion of the Functional Guarantee Test(s) as per the procedure specified in Section-VII Subsection-C General Annexure-E "Plant Documentation, Commissioning and Test Procedure" of the technical tender document.
8	Section-V Special Conditions of Contract (SCC)	GCC Clause 1.1.67 [A] Definitions of terms:	New Clause "Interface Point"	"INTERFACE POINT" means, the physical and electrical point of demarcation between the Package 1 (Tender No. SECI/C&P/OP/11/0002/26-27 dated 24.06.2026) and Package 2 (Tender no. SECI/C&P/OP/11/0003/26-27 dated 16.07.2026) scopes, located at the incoming terminal/connection point of the 33 kV switchgear panel provided by the Package 1 Contractor, where the Package 2 Contractor's wind reticulation system shall terminate and connect. The exact location of the Interface Point shall be as indicated in Specific Annexure – B (SA-B) and the approved Interface Boundary Drawing.
9	Section-V Special Conditions of Contract (SCC)	GCC Clause 1.1.68 [A] Definitions of terms:	New Clause "Package 1 Evacuation Infrastructure"	"PACKAGE 1 EVACUATION INFRASTRUCTURE" The 33kV/higher-voltage switchyard, transmission line/cable to the grid substation, grid interconnection facilities, SCADA/plant controller, and all works necessary for power evacuation and grid code compliance, within the scope of the Package 1 Contractor.
10	Section-V Special Conditions of Contract (SCC)	GCC Clause 1.1.69 [A] Definitions of terms:	New Clause "Package 2 Wind Facilities"	"PACKAGE 2 WIND FACILITIES" The wind turbine generators, WTG-side collection network, and associated works up to the Interface Point, within the scope of the Package 2 Contractor.
11	Section-V Special Conditions of Contract	GCC Clause 1.1.70 [A]	New Clause "Package Completion (Package 1)"	"PACKAGE COMPLETION (PACKAGE 1)" means the Successful completion of all tests specified in General Annexure E: Plant Documentation, Commissioning and Test Procedure up to and including the Interface Point as well as grid compliance testing

	(SCC)	Definitions of terms:	using available generation sources, evidenced by a Readiness Certificate.														
12	Section-V Special Conditions of Contract (SCC)	SCC Clause 3.2 Project Timelines	<table><thead><tr><th>SCC No.</th><th>Stage</th><th>Reference from D</th></tr></thead><tbody><tr><td>3.1</td><td>Signing of Contract Agreement or as mentioned in Notification of Award</td><td>Zero Date (D)</td></tr><tr><td>3.2</td><td>Date of successful commissioning</td><td>D + 14 Months</td></tr><tr><td></td><td colspan="2">The contractor shall submit the L2/L3 schedule for the project clearly indicating the timelines for submission and approval of drawings, procurement, and transportation of materials to site(s), their installation at site(s), commissioning, PR test etc.</td></tr></tbody></table>			SCC No.	Stage	Reference from D	3.1	Signing of Contract Agreement or as mentioned in Notification of Award	Zero Date (D)	3.2	Date of successful commissioning	D + 14 Months		The contractor shall submit the L2/L3 schedule for the project clearly indicating the timelines for submission and approval of drawings, procurement, and transportation of materials to site(s), their installation at site(s), commissioning, PR test etc.	
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13	Section-V Special Conditions of Contract (SCC)	GCC Clause Liquidated Damages (LD) (GCC clause 20.4)	New Clause														
14	Section-V Special Conditions of Contract (SCC)	GCC Clause Liquidated Damages (LD) (GCC clause 20.6)	New Clause" Employer-Side / Other Contractor Delay as Relief Event"														
15	Section-V Special	GCC Clause	New Clause "No Double Liability"														

	Conditions of Contract (SCC)	Liquidated Damages (LD) (GCC clause 20.7)		for which the Package 1 Contractor is separately liable to the Employer for delay in achieving readiness of the Evacuation Infrastructure
16	Section-V Special Conditions of Contract (SCC)	GCC Clause Liquidated Damages (LD) (GCC clause 20.8)	New Clause" LD Cap Adjustment"	The aggregate Liquidated Damages payable by the Contractor under this Contract shall not exceed 10% of the Contract Price and shall exclude any period during which the Contractor was in Deemed Package Completion status pending Package 1 readiness
17	Section-V Special Conditions of Contract (SCC)	GCC Clause Liquidated Damages (LD) (GCC clause 34.3)	New Clause "Notice & Joint Interface Delay Log"	The Contractor shall notify the Employer in writing within 7 (seven) days of becoming aware of any actual or anticipated delay attributable to Package 1 readiness. The Employer shall maintain a Joint Interface Delay Log, co-signed by both Package Contractors and the Employer, recording the cause and duration of each interface-related delay
18	Section-V Special Conditions of Contract (SCC)	GCC Clause Liquidated Damages (LD) (GCC clause 46.2)	New Clause "Deemed Package 2 Completion"	Where the Contractor has achieved and demonstrated readiness for all tests up to the Interface Point, met all intermediate milestones identified in the SCC and has issued a Notice of Readiness to the Employer, the Contractor shall be deemed to have achieved Package Completion for the purposes of Clause on Liquidated Damages, regardless of whether actual synchronization has occurred, provided the Employer does not identify genuine deficiencies in the Contractor's own scope within 7 (seven) days of such notice
Amendment-1 to Technical Tender Document (i.e. technical package 2)				
1	Specific Annexure SA-A	Specific Annexure SA-A	Specific Annexure SA-A: Indicative SLD – Plant Pooling Substation	Updated Specific Annexure SA-A (Revised): Indicative SLD – Plant Pooling Substation, enclosed.
2	Specific Annexure SA-B	Specific Annexure SA-B	Specific Annexure SA-B: Land Layout (With Micrositing & Other Details)	Updated Specific Annexure SA-B (Revised): Land Layout (With Micrositing & Other Details), enclosed.
3	Section-VII, Sub-Section A: Scope of	2: Project Particulars	Storage - To be arranged by Contractor, however land will be provided by SECI. (Details as Indicated in SA-B: Land Layout)	Arrangement of the storage area required during the execution of the project shall be in the scope of Contactor. However, the storage area (1.5 Acres) along with the power supply

	Work			upto the main distribution panel of the storage facility required during the O&M Period will be provided by SECI. Note: Development of the storage facility shall be in the scope of the Contractor, including required civil works, structural works, storage sheds, flooring, drainage, fencing and other associated facilities. The structural design and construction shall be suitable for the intended storage requirements, applicable loading conditions and relevant statutory requirements.
4	Section-VII, Sub-Section A: Scope of Work	2: Project Particulars	ROW of the 33kV Reticulation System - ROW is in the scope of SECI	Tentative access path to individual footprints are indicated in the Specific Annexure SA-B. However, in case of any additional ROW access, if required, shall be in the scope of the contractor.
5	Section-VII, Sub-Section A: Scope of Work	2: Project Particulars	Design Parameters: Design Ambient Temperature: 50°C (For all the equipment except WTGs) Normal Temperature Condition for WTGs: -10°C to +40°C (As per IEC 61400-1) Extreme Temperature Condition for WTGs: -20°C to +50°C (As per IEC 61400-1) De-Rated Capacity of WTG to be Considered at Temperature: +40°C (As per CEA)	Design Parameters: Design Ambient Temperature: 50°C (For all the equipment except WTGs) Normal Temperature Condition for WTGs: -10°C to +40°C (As per IEC 61400-1) Extreme Temperature Condition for WTGs: -20°C to +50°C (As per IEC 61400-1) De-Rated Capacity of WTG: The WTG shall be capable of delivering its rated capacity up to 40°C. For temperatures above 40°C, the available/de-rated WTG capacity shall be determined at the site-specific design temperature, established in accordance with the CEA Working Group Report (July 2022) and latest applicable CEA/CTU procedure/amendments, based on the maximum temperature recorded at the nearest applicable IMD station, with the applicable temperature margin as specified therein. The Contractor shall submit the corresponding WTG power/de-rating curve and demonstrate the available capacity at the determined design temperature.
6	Section-VII, Sub-	2: Project Particulars	Functional Guarantee:	Functional Guarantee:

	Section A: Scope of Work		Machine Availability 1. 98% during high wind season i.e. 1st May to 31st October 2. 96% during low wind season i.e. 1st November to 30th April	Machine Availability 1. 98% during high wind season i.e. 1st April to 30th September 2. 96% during low wind season i.e. 1st November to 30th April
7	Section-VII, Sub-Section A: Scope of Work	Clause 2: Project Particulars	Metering Point TVM Meter at the dedicated Incomers of the 33 kV Pooling Switchgear located at the Pooling Sub-Station.	Void.
8	Section-VII, Sub-Section A: Scope of Work	2: Project Particulars	Minimum CUF: The minimum CUF to be achieved/considered shall be 28% based on P90 energy assessment over a 20-year period. Note: CUF shall be calculated as the ratio of the average annual P90 net energy generation over the 20-year assessment period to the total installed WTG capacity multiplied by 8,760 hours, expressed as a percentage.	Newly added.
9	Section-VII, Sub-Section A: Scope of Work	2: Project Particulars	Newly Added Clause.	Minimum CUF: The minimum CUF to be achieved/considered shall be 28% based on P90 energy assessment over a 10-year period. Note: CUF shall be calculated as the ratio of the average annual P90 net energy generation over the 10-year assessment period to the total installed WTG capacity multiplied by 8,760 hours, expressed as a percentage.
10	Section-VII, Sub-Section A: Scope of Work	2.0	WTG Type: Low voltage, 50 Hz, upwind / downwind, horizontal axis Wind Turbine Generators (WTGs) with minimum rating of 3 MW.	WTG Type: Low voltage, 50 Hz, upwind / downwind, horizontal axis Wind Turbine Generators (WTGs) with minimum rating of 2.7 MW .
11	Section-VII, Sub-Section A: Scope of Work	2.0	 Available Land Area: 16 Land Patch (Details as Indicated in SA-C: Land Layout)	 Available Footprints: Details as Indicated in SA-B (Revised): Tentative Land Layout (With Micrositing & Other Details) Note: Aerial rights, if required to be obtain for the WTG footprints will be in the scope of the contractor.

12	Section-VII, Sub-Section A: Scope of Work	3.1	Design, engineering, manufacture, in house testing and supply at site of suitable low voltage, 50 Hz, upwind / downwind, horizontal axis Wind Turbine Generators (WTGs) with minimum rating of 3 MW and total capacity 45.6 (+ 5%) MW complete with accessories as may be required for erection, commissioning and successful continuous operation.	Design, engineering, manufacture, in house testing and supply at site of suitable low voltage, 50 Hz, upwind / downwind, horizontal axis Wind Turbine Generators (WTGs) with minimum rating of 2.7 MW and total capacity 45.6 (+ 5%) MW complete with accessories as may be required for erection, commissioning and successful continuous operation.
13	Section-VII, Sub-Section A: Scope of Work	3.2	3 Brief Scope of Work 3.2 Design, engineering, manufacture and supply at site of Towers (including all internals e.g. - fall arrest systems, service lifts , internal cabling, ladders, platforms, and wire ropes), Blades, Hub, Nacelle, Foundation Base and other major & minor components suitable for offered WTGs.	3 Brief Scope of Work 3.2 Design, engineering, manufacture and supply at site of Towers (including all internals e.g. - fall arrest systems, service lifts or equivalent motorized personnel climbing/access system , internal cabling, ladders, platforms, and wire ropes), Blades, Hub, Nacelle, Foundation Base and other major & minor components suitable for offered WTGs.
14	Section-VII, Sub-Section A: Scope of Work	3.10	3.10 Wind Monitoring Mast: 3.10.1 The bid should include supply, installation and maintenance of one wind monitoring mast at offered site till the power curve testing is carried out. The height of the wind mast should be close to the hub height of the WTGs installed therein. Numbers and specifications of the equipment and sensors (anemometers, wind vanes, temperature and pressure sensors and dataloggers etc. shall be as per the requirement set under the IEC-61400-12-1:2017 edition that defines the standard for power performance measurement of electricity producing wind turbines. In any case the numbers of anemometers shall not be less than two. The Wind Monitoring Mast shall be dismantled and removed by the Bidder only after successful completion and formal acceptance of the Power Curve Test by the Employer/Owner and submission of all final validated datasets, reports, and certifications. 3.10.2 This shall include all required data loggers, sensors etc. capable of recording data for a minimum of 10-	3.10 Wind Monitoring Mast: 3.10.1 The bid should include supply, installation and maintenance of one wind monitoring mast at offered site till the power curve testing is carried out. The height of the wind mast should be close to the hub height of the WTGs installed therein. Numbers and specifications of the equipment and sensors (anemometers, wind vanes, temperature and pressure sensors and dataloggers etc. shall be as per the requirement set under the IEC-61400-12-1:2017 edition that defines the standard for power performance measurement of electricity producing wind turbines. In any case the numbers of anemometers shall not be less than two. The Wind Monitoring Mast shall be dismantled and removed by the Bidder only after successful completion and formal acceptance of the Power Curve Test by the Employer/Owner and submission of all final validated datasets, reports, and certifications. 3.10.2 This shall include all required data loggers, sensors etc. capable of recording data for a minimum of 10-minute average intervals to ensure correct and reliable data collection and its computation for analysis, for verification of generation with

			minute average intervals to ensure correct and reliable data collection and its computation for analysis, for verification of generation with reference to the actual wind conditions at Hub height. N.B.: The bidder must quote this item separately in the price bid.	reference to the actual wind conditions at Hub height.
15	Section-VII, Sub-Section A: Scope of Work	5.7	The Contractor shall submit technical connection data, inter alia, generator data for fault studies, dynamic simulation data, details of data & voice communication within one month of signing the LOA. In case, technical data is subjected to change during detailed engineering, the contractor shall furnish the tentative technical data within one month of signing the LOA & shall furnish the final technical data not later than six (6) months from award of work.	The Contractor shall submit technical connection data, inter alia, generator data for fault studies, dynamic simulation data, details of data & voice communication within one month of signing the LOA. In case, technical data is subjected to change during detailed engineering, the contractor shall furnish the tentative technical data within one month of signing the LOA & shall furnish the final technical data not later than six (6) months from award of work. Note: Alternatively, the Contractor may provide the PSCAD/PSSE model of the offered WTG to the third party appointed by the Solar + BESS Contractor under an appropriate NDA, to facilitate the required park-level grid studies.
16	Section-VII, Sub-Section A: Scope of Work	7.5	Employer shall be given online access to the real time SCADA Data at its head office so as to visualise the plant operation and performance status on real-time basis.	Employer shall be given online access to the real time SCADA Data at its head office through the Solar + BESS contractor, so as to visualise the plant operation and performance status on real-time basis. Note: CMCS / Plant SCADA is under the scope of the Solar + BESS Contractor. The Wind Contractor shall provide all necessary interfaces and data points to enable full integration. The scope of the Wind contractor shall include supply and installation of all the components of the Communication network to the respected terminals in the Pooling Sub-Station.
17	Section-VII, Sub-Section B: TS-Electrical	A-1.1	 Minimum Rated Capacity: 3 MW	 Minimum Rated Capacity: 2.7 MW
18	Section-	1.13	The WTG model should be listed in the Revised List of	The WTG model shall be included in the latest applicable

	VII, Sub-Section B: TS-Electrical		Models and Manufacturers (RLMM list) of MNRE as on the date of bid submission.	Approved List of Models and Manufacturers – Wind (ALMM-Wind) issued by MNRE as on the date of bid submission.
19	Section-VII, Sub-Section B: TS-Electrical	14.13	14.13 The Contractor shall submit a comprehensive Power Evacuation Scheme for review and approval by the Employer. The submission shall include, but not be limited to: a) Single Line Diagram (SLD) b) Load flow and short-circuit calculations c) Protection coordination study d) Conductor sizing calculations e) Voltage drop and loss calculations f) Details of grid interconnection point g) Compliance with grid connectivity and metering regulations	Void.
20	Section-VII, Sub-Section B: TS-Electrical	14.15	Metering: Each Wind Turbine Generator (WTG) shall be provided with an independent three-phase, four-wire, bi-directional energy meter of accuracy class 1.0 or better, conforming to applicable IS/IEC standards and utility regulations. The meter shall be installed on the high-voltage side of the Unit Transformer. The energy meter shall: a) Record active energy (kWh) export and import separately b) Provide real-time measurement and data logging capability c) Be capable of Time-of-Day (TOD) recording, if required d) Support communication interface compatible with the Plant SCADA system Energy export and import values recorded in the Local Control Station (LCS) shall be continuously logged and integrated into the Plant SCADA system for monitoring, reporting, and reconciliation purposes. Note: a) Metering arrangement at the incoming feeders of the 33	Metering: Each Wind Turbine Generator (WTG) shall be provided with an independent three-phase, four-wire, bi-directional energy meter of accuracy class 0.2 or better, conforming to applicable IS/IEC standards and utility regulations. The meter shall be installed on the high-voltage side of the Unit Transformer. The energy meter shall: a) Record active energy (kWh) export and import separately b) Provide real-time measurement and data logging capability c) Be capable of Time-of-Day (TOD) recording, if required d) Support communication interface compatible with the Plant SCADA system Energy export and import values recorded in the Local Control Station (LCS) shall be continuously logged and integrated into the Plant SCADA system for monitoring, reporting, and reconciliation purposes. Note: a) Metering arrangement at the incoming feeders of the 33 kV Pooling Switchgear Panel, including supply, installation, testing, commissioning, calibration, communication integration, statutory approvals, and compliance with applicable CEA / CERC / SERC

			kV Pooling Switchgear Panel, including supply, installation, testing, commissioning, calibration, communication integration, statutory approvals, and compliance with applicable CEA / CERC / SERC / STU / DISCOM requirements, shall be entirely in the scope of the Solar + BESS Contractor. b) The Wind EPC Contractor's scope shall exclude the above metering system at the pooling switchgear incomer feeders, except for necessary coordination to ensure seamless integration with the overall plant SCADA and grid compliance requirements.	/ STU / DISCOM requirements, shall be entirely in the scope of the Solar + BESS Contractor. b) The Wind EPC Contractor's scope shall exclude the above metering system at the pooling switchgear incomer feeders, except for necessary coordination to ensure seamless integration with the overall plant SCADA and grid compliance requirements.
21	Section-VII, Sub-Section B: TS-Electrical	17.4	Supply of power plant controllers (PPC) and development of entire energy plant (Solar + BESS + Wind) model in PSS/E & PSCAD software as per CTU/STU (as applicable) are in the scope of the Solar + BESS Contractor. Detail control logic in the PPC shall be finalized during detail engineering and same shall be in line with the above regulation requirements. CMCS/ SCADA and PPC network shall be suitably designed, so that PPC shall directly and independently able to control the individual WTG for active and reactive control.	Supply of the Master PPC for the integrated Solar + BESS + Wind plant and development of the complete plant model in PSS/E & PSCAD shall be in the scope of the Solar + BESS Contractor. The Wind Contractor shall provide the necessary interface with the Master PPC through either of the following arrangements, as applicable to the offered WTG design: a) Direct Interface: The Master PPC shall have the required communication/control interface with each individual WTG for active power, reactive power and voltage control. In this case, the Wind Contractor shall provide and establish the complete communication/control network and interface required between the individual WTGs and the Master PPC. b) Wind Slave PPC: The Wind Contractor shall supply, install, configure and commission a dedicated Wind Slave PPC, along with the required communication/control network connecting all individual WTGs to the Wind Slave PPC. The Wind Slave PPC shall interface with the Master PPC and execute the active power, reactive power and voltage control commands received from the Master PPC for the individual WTGs. The Contractor may adopt either of the above arrangements, subject to meeting all applicable CTU/STU/grid-code requirements and ensuring that the Master PPC is capable of controlling the Wind Plant as an integrated part of the overall Solar

				+ BESS + Wind plant. The detailed control philosophy, communication protocol, interface and responsibility matrix shall be finalized during detailed engineering.																																																																																																																																										
22	Section-VII, Sub-Section C: General Annexure D: Mandatory Spares	3	3. Mandatory Spares Item & Quantity: <table><thead><tr><th>Sl. No</th><th>Description</th><th>Minimum Quantity Requirement</th></tr></thead><tbody><tr><td colspan="3">Electrical & Control Spares (WTG)</td></tr><tr><td>1</td><td>Main Controller Module</td><td>2 Nos.</td></tr><tr><td>2</td><td>I/O Modules</td><td>10% of installed qty</td></tr><tr><td>3</td><td>Power Supply Modules</td><td>2 Nos.</td></tr><tr><td>4</td><td>Converter Control Cards</td><td>1 No.</td></tr><tr><td>5</td><td>Pitch Control Card</td><td>2 Nos.</td></tr><tr><td>6</td><td>Anemometer</td><td>2 Nos.</td></tr><tr><td>7</td><td>Wind Vane</td><td>2 Nos.</td></tr><tr><td>8</td><td>Temperature Sensors</td><td>2 Nos.</td></tr><tr><td>9</td><td>Proximity Sensors</td><td>2 Nos.</td></tr><tr><td>10</td><td>Brake Rectifier</td><td>2 Nos.</td></tr><tr><td colspan="3">Mechanical Spares (WTG)</td></tr><tr><td>1</td><td>Hydraulic Pump</td><td>1 No.</td></tr><tr><td>2</td><td>Hydraulic Accumulator</td><td>2 Nos.</td></tr><tr><td>3</td><td>Hydraulic Valve Set</td><td>1 No.</td></tr><tr><td>4</td><td>Yaw Brake Pads</td><td>2 Nos.</td></tr><tr><td>5</td><td>Pitch Motor</td><td>1 No.</td></tr><tr><td>6</td><td>Cooling Fans</td><td>2 Nos.</td></tr><tr><td>7</td><td>Gearbox Oil Pump</td><td>1 No.</td></tr><tr><td>8</td><td>Grease Pump</td><td>1 per project</td></tr><tr><td colspan="3">Unit Sub-Station (USS)</td></tr><tr><td>1.</td><td>VCB</td><td>2 Nos.</td></tr></tbody></table>	Sl. No	Description	Minimum Quantity Requirement	Electrical & Control Spares (WTG)			1	Main Controller Module	2 Nos.	2	I/O Modules	10% of installed qty	3	Power Supply Modules	2 Nos.	4	Converter Control Cards	1 No.	5	Pitch Control Card	2 Nos.	6	Anemometer	2 Nos.	7	Wind Vane	2 Nos.	8	Temperature Sensors	2 Nos.	9	Proximity Sensors	2 Nos.	10	Brake Rectifier	2 Nos.	Mechanical Spares (WTG)			1	Hydraulic Pump	1 No.	2	Hydraulic Accumulator	2 Nos.	3	Hydraulic Valve Set	1 No.	4	Yaw Brake Pads	2 Nos.	5	Pitch Motor	1 No.	6	Cooling Fans	2 Nos.	7	Gearbox Oil Pump	1 No.	8	Grease Pump	1 per project	Unit Sub-Station (USS)			1.	VCB	2 Nos.	3. Mandatory Spares Item & Quantity: <table><thead><tr><th>Sl. No</th><th>Description</th><th>Minimum Quantity Requirement</th></tr></thead><tbody><tr><td colspan="3">Electrical & Control Spares (WTG)</td></tr><tr><td>1</td><td>Main Controller Module</td><td>2 Nos.</td></tr><tr><td>2</td><td>I/O Modules</td><td>10% of installed qty</td></tr><tr><td>3</td><td>Power Supply Modules</td><td>2 Nos. of each type & rating.</td></tr><tr><td>4</td><td>Converter Control Cards</td><td>1 No.</td></tr><tr><td>5</td><td>Pitch Control Card</td><td>2 Nos.</td></tr><tr><td>6</td><td>Anemometer</td><td>2 Nos.</td></tr><tr><td>7</td><td>Wind Vane</td><td>2 Nos.</td></tr><tr><td>8</td><td>Temperature Sensors</td><td>2 Nos.</td></tr><tr><td>9</td><td>Proximity Sensors</td><td>2 Nos.</td></tr><tr><td>10</td><td>Brake Rectifier</td><td>2 Nos.</td></tr><tr><td colspan="3">Mechanical Spares (WTG)</td></tr><tr><td>1</td><td>Hydraulic Pump</td><td>1 No.</td></tr><tr><td>2</td><td>Hydraulic Accumulator</td><td>2 Nos.</td></tr><tr><td>3</td><td>Hydraulic Valve Set</td><td>1 No.</td></tr><tr><td>4</td><td>Yaw Brake Pads</td><td>2 Nos.</td></tr><tr><td>5</td><td>Pitch Motor</td><td>1 No.</td></tr><tr><td>6</td><td>Cooling Fans</td><td>2 Nos. of each type & rating.</td></tr><tr><td>7</td><td>Gearbox Oil Pump</td><td>1 No.</td></tr><tr><td>8</td><td>Grease Pump</td><td>1 per project</td></tr><tr><td colspan="3">Unit Sub-Station (USS)</td></tr><tr><td>1.</td><td>VCB</td><td>2 Nos.</td></tr></tbody></table>	Sl. No	Description	Minimum Quantity Requirement	Electrical & Control Spares (WTG)			1	Main Controller Module	2 Nos.	2	I/O Modules	10% of installed qty	3	Power Supply Modules	2 Nos. of each type & rating.	4	Converter Control Cards	1 No.	5	Pitch Control Card	2 Nos.	6	Anemometer	2 Nos.	7	Wind Vane	2 Nos.	8	Temperature Sensors	2 Nos.	9	Proximity Sensors	2 Nos.	10	Brake Rectifier	2 Nos.	Mechanical Spares (WTG)			1	Hydraulic Pump	1 No.	2	Hydraulic Accumulator	2 Nos.	3	Hydraulic Valve Set	1 No.	4	Yaw Brake Pads	2 Nos.	5	Pitch Motor	1 No.	6	Cooling Fans	2 Nos. of each type & rating.	7	Gearbox Oil Pump	1 No.	8	Grease Pump	1 per project	Unit Sub-Station (USS)			1.	VCB	2 Nos.
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23	Section-VII / Sub-Section C: General Annex. E: Plant Documenta tion, Commissio ning and Test Procedure	3 (b)	3 Commissioning 3.1 Scope of Commissioning: The Contractor shall be responsible for complete commissioning of the Wind Turbine Generator (WTG) package including but not limited to mechanical completion, electrical completion, grid synchronization, SCADA integration, trial operation, performance testing, reliability run & taking-over. Note: b) In case of delay in readiness of the Pooling Substation, the associated commissioning-linked payment milestones of the WTG EPC Contractor shall stand deferred without prejudice to the WTG EPC Contractor’s entitlement to payments already due for Mechanical Completion and Electrical Completion,	3 Commissioning 3.1 Scope of Commissioning: The Contractor shall be responsible for complete commissioning of the Wind Turbine Generator (WTG) package including but not limited to mechanical completion, electrical completion, grid synchronization, SCADA integration, trial operation, performance testing & taking-over. Note: b) In case of delay in readiness of the Pooling Substation, please refer the Special Conditions of Contract.																																																																																																																																										

			provided the WTG EPC Contractor is otherwise ready for grid integration.	
24	Section-VII / Sub-Section C: General Annex. E: Plant Documentation, Commissioning and Test Procedure	3.5	3.5 Performance Guarantee Tests (PGT): Following successful completion of Trial Operation and Grid Synchronization, the Contractor shall carry out Performance Guarantee Tests (PGT) for each WTG in accordance with the applicable provisions of IEC 61400 series and other relevant international standards, OEM manuals, and Employer's technical requirements. a) Power curve guarantee test. B) Short term performance test	3.5 Performance Guarantee Tests (PGT): Following successful completion of Trial Operation and Grid Synchronization, the Contractor shall carry out Performance Guarantee Tests (PGT) in accordance with the applicable provisions of IEC 61400 series and other relevant international standards, OEM manuals, and Employer's technical requirements. a) Power curve guarantee test (one WTG, as per: Sub-Section C; GA-E, Clause: 3.7.3). B) Short term performance test (Each WTG, as per: Sub-Section C; GA-E, Clause: 3.7.2)
25	Section-VII / Sub-Section C: General Annex. E: Plant Documentation, Commissioning and Test Procedure	3.6	3.6 Reliability Run: Each WTG shall complete a minimum 30-day Reliability Run demonstrating: a) Minimum Technical Availability: As specified in Annexure-2 of Sub-Section F. b) No repeat failure of critical components c) Compliance with alarm limits	Void.
26	Section-VII / Sub-Section C: General Annex. E: Plant Documentation, Commissioning and Test	3.7.1	The Validation of the Power Curve Performance shall be based on the Estimated AEP from the measured Power Curve of the test WTG as per above given procedure and the Estimated AEP from the Warranted Power Curve, both at the reference site air density. The AEP from both the measured Power Curve and the Warranted Power Curve at reference site air density shall be calculated based on a reference nominal wind speed distribution at the site. This could be the wind data from the reference wind mast installed by SECI at the Project site before start of the Project or any other mutually agreed wind speed	The Validation of the Power Curve Performance shall be based on the Estimated AEP from the measured Power Curve of the test WTG as per above given procedure and the Estimated AEP from the Warranted Power Curve, both at the reference site air density. The AEP from both the measured Power Curve and the Warranted Power Curve at reference site air density shall be calculated based on a reference nominal wind speed distribution at the site. This could be the wind data from the reference wind mast installed by SECI at the Project site before start of the Project or any other mutually agreed wind speed distribution dataset.

	Procedure		distribution dataset. The Theoretical annual energy production (AEP) based on the Measured Power Curve of the Wind Turbine and the nominal wind distribution is called as the Measured Power Output (MPO). The Theoretical annual energy production (AEP) based on the Warranted Power Curve of the Wind Turbine and the nominal wind distribution is called as the Warranted Power Output (WPO). Following formula shall be used for the calculation of Verified Power Curve Performance (VPC) of the WTG: If VPC is greater than or equal to 98% then the Power Curve Guarantee Test is considered to be passed.	The Theoretical annual energy production (AEP) based on the Measured Power Curve (All the losses & uncertainties to be considered as per "Sub-Section C: General Annexure A") of the Wind Turbine and the nominal wind distribution is called as the Measured Power Output (MPO) The Theoretical annual energy production (AEP) based on the Warranted Power Curve of the Wind Turbine (All the losses & uncertainties to be considered as per "Sub-Section C: General Annexure A") and the nominal wind distribution is called as the Warranted Power Output (WPO) Following formula shall be used for the calculation of Verified Power Curve Performance (VPC) of the WTG: If VPC is greater than or equal to 95% then the Power Curve Guarantee Test is considered to be passed.
27	Section-VII / Sub-Section C: General Annex. E: Plant Documentation, Commissioning and Test Procedure	3.7.1 f)	All the uncertainties of calculation shall be based on the IEC-61400-12-1	All the uncertainties of calculation shall be based on the IEC 61400-12-1 Ed2 2017
28	Section-VII / Sub-Section C: General Annex. E: Plant Documentation, Commissioning and Test Procedure	3.7.2	3.7.2 Short Term Performance Test (STPT) Procedure for WTG a) The Short-Term Performance Test shall be conducted for each WTG of the Project within 60 days upon commissioning of the respective WTG. Before commencement of the test the Contractor shall inform to the Owner of its intention to conduct the test and the proposed start date for the test. Owner or its representative	3.7.2 Short Term Performance Test (STPT) Procedure for WTG a) The Short-Term Performance Test shall be conducted for each WTG of the Project within 60 days upon commissioning of the respective WTG. Before commencement of the test the Contractor shall inform to the Owner of its intention to conduct the test and the proposed start date for the test. Owner or its representative will have the right to witness the test.

	ning and Test Procedure		will have the right to witness the test. b) On start of the test all the initial readings shall be recorded. c) Test shall be conducted for 96 hours. The procedure for calculating machine availability for individual WTG is specified in Annexure-2 of Sub-Section F i.e: $MA = \frac{[D - (GF + FM + S + U)] \times 100}{D - (GF + FM)}$ Where: D = Total number of hours in the applicable period GF = Grid Failure hours FM = Force Majeure hours S = Scheduled Maintenance hours U = Unscheduled / Forced Maintenance hours d) During the test the Wind Turbine shall achieve Machine be minimum 98%.	b) On start of the test all the initial readings shall be recorded. c) Test shall be conducted for 96 hours. The procedure for calculating machine availability for individual WTG is specified in Annexure-2 of Sub-Section F i.e: $MA = \frac{[D - (GF + FM + S + U)] \times 100}{D - (GF + FM)}$ Where: D = Total number of hours in the applicable period GF = Grid Failure hours FM = Force Majeure hours S = Scheduled Maintenance hours U = Unscheduled / Forced Maintenance hours d) During the test the Wind Turbine shall achieve Machine Availability should be minimum 96%.
29	Section-VII / Sub- Section C: General Annex. E: Plant Documenta tion, Commissio ning and Test Procedure	3.7.3 (b)	LD for Short Term Performance Test Failure If the Contractor fails to satisfy the STPT of a WTG within 60 (sixty) days from the Commissioning Date of the relevant WTG even after repeated tests, then Owner will have the right to reject the WTG and obtain a refund. Contractor will refund all amounts paid by Owner for that WTG along with interest cost (@13% (thirteen percent) per annum) from the date of payments made for WTG including Advance Payment. Said rejected WTG shall not be considered for Availability calculations.	LD for Short Term Performance Test Failure If the Contractor fails to satisfy the STPT of a WTG within 60 (sixty) days from the Commissioning Date of the relevant WTG even after repeated tests, then Owner will have a claim for LD as per the following formula: $COM = \left(\frac{GMA - AMA}{GMA} \right) \times C \times E$ Where: COM = Compensation payable to the Employer (INR) GMA = Guaranteed Machine Availability AMA = Actual Average Machine Availability (Average of all the STPT conducted during the 60 days of stabilisation period from

				commissioning _____ date) C = INR 4.5 per kWh E = Actual energy generated (kWh) during the period under consideration Note: The LD amount recovered for failure to achieve the STPT shall be refunded to the Contractor if the WTG achieves the Guaranteed Machine Availability (GMA) on an annual basis during the first year of operation, as per the applicable contractual requirements.
30	Section VII: Sub-Section E: Annexure 2: Functional Gurantee	Annexure 2: Functional Gurantee	$MA = \frac{[D - (GF + FM + S + U)] \times 100}{D - (GF + FM)}$ Where: D = Total number of hours in the applicable period GF = Grid Failure hours FM = Force Majeure hours S = Scheduled Maintenance hours U = Unscheduled / Forced Maintenance hours	$MA = \frac{[D - (GF + FM + OF + S + U)] * 100}{D - (GM + FM + OF)}$ Where: D = Total number of hours in the applicable period GF = Grid Failure hours FM = Force Majeure hours OF = RLDC/SLDC instructions, FDRE plant-level dispatch requirements, Solar/BESS operation, Pooling Substation/evacuation constraints, Employer's instructions, acoustic requirements or any other reason not attributable to the Wind EPC/O&M Contractor S = Scheduled Maintenance hours U = Unscheduled / Forced Maintenance hours
31	Section - VII / Sub-Section F: O&M Agreement	Annexure-2: Functional Guarantees: 1 (A)	1. Machine Availability A. Definition: Machine Availability includes the availability of WTG as well as the power evacuation system for Wind energy up to interface with the system of power utility, i.e. till Pooling Substation.	1. Machine Availability A. Definition: Machine Availability includes the availability of WTG as well as the power evacuation system for Wind energy up to interface boundary with the other package (Solar + BESS), i.e. upto the cable termination point of the dedicated incoming

				feeders of the pooling switchgear.
32	Section - VII / Sub- Section F: O&M Agreement	4.0	4 PERFORMANCE STANDARDS Contractor shall perform its obligations under the contract in compliance with the contract and otherwise, as applicable, in accordance with the following order of precedence (collectively, the "Performance Standards") as from time to time in force: 4.1.10 Any relevant and reasonable instructions issued by the Employer, relevant to the scope of the contract, to the Contractor at least 15 days before the implementation of such instructions without any cost to the Contractor. 4.1.12 Comply with all operation and maintenance obligations as set out under the PPA or do anything which results in a breach of the Employer's obligations under the PPA.	Void.