

**SOLAR ENERGY CORPORATION OF INDIA LIMITED**  
**NEW DELHI**

Ref No. SECI/C&P/IPP/13/007/Amendment-02

Dated 08.02.2023

Amendment-02 to the RfS for Selection of Hybrid Power Developers for Setting up of 1200 MW ISTS-connected Wind-Solar Hybrid Power Projects with assured peak power supply in India under Tariff-Based Competitive Bidding (Tranche-VI)				
RfS No. SECI/C&P/IPP/13/0007/22-23 dated 02.11.2022				
S. No.	Clause/ Article No.	Existing Clause/Article	Amended Clause/Article	
Amendments in the RfS document				
1.	Format 7.3A	...[Insert amount not less than that derived on the basis of Rs. 11.46 Lakhs per MW of cumulative capacity proposed] ....	...[Insert amount not less than that derived on the basis of Rs. 12.26 Lakhs per MW of cumulative capacity proposed] ....	
2.	Appendix -A1	Table modified as follows:		
		Standard/ Code (or equivalent Indian Standards)	Description	Certification Requirements
		IEC 62485-2	Safety requirements for secondary batteries and battery installations - to meet requirements on safety aspects associated with the erection, use, inspection, maintenance and disposal: Applicable for Lead Acid and NiCd / NiMH batteries	Applicable only for Lead Acid and NiCd/NiMH batteries
		UL 1642 or UL 1973, Appendix E (cell) or IEC 62619 (cell) + IEC 63056 (cell)	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	Required for Cell
		UL 1973 (battery) or (IEC 62619 (battery) + IEC 63056 (battery))	Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications / Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	Either UL 1642 or UL1973 or (IEC 62619 + IEC 63056) for the Battery level
		IEC 62281 / UN 38.3	Safety of primary and secondary lithium cells and batteries during transport: Applicable for storage systems using Lithium Ion chemistries	Required for both Battery and Cell.

		IEC 61850/ DNP3	Communications networks and management systems. (BESS control system communication)	
		UL 9540 or (IEC TS 62933-5-1 + IEC 62933-5-2)	Electrical energy storage (EES) systems - Part 5-1: Safety considerations for grid-integrated EES systems – General specification / Standard for Energy Storage Systems and Equipment	Either UL9540 or (IEC 62933-5-1 + IEC 62933-5-2) is required for BESS system level
		IEC 62933-2-1	Electrical energy storage (EES) systems - Part 2-1: Unit Parameters and testing methods - General Specification	Tests for Class B applications: 1. Duty Cycle Round Trip Efficiency Test 2. Equipment and Basic Function Test 3. Available energy Test 4. Insulation test
		<b>Power Conditioning Unit Standards for BESS</b>		
		IEC 62477-1	Safety requirements for power electronic converter systems and equipment - Part 1: General	
		IEC 62477-2	Safety requirements for power electronic converter systems and equipment - Part 2: Power electronic converters from 1 000 V AC or 1 500 V DC up to 36 kV AC or 54 kV DC	
		IEC 61000-6-2 Ed. 2	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	
		IEC 61000-6-4 Ed. 2.1	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	
		IEC 62116 Ed. 2	Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures	
		IEC 60068-2-1:2007	Environmental testing - Part 2-1: Tests - Test A: Cold	
		IEC 60068-2-2:2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
		IEC 60068-2-14:2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	
		IEC 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
		<b>The corresponding table in Schedule-4 of the draft PPA stands amended in line with the above</b>		
3.	Annexure -D	Location of 400/220 kV S/S in Ananthapuram has been finalized as follows: Vill: Thimmapuram Taluka: Gooty Distt: Ananthapuram		

		State: Andhra Pradesh		
		Proposed coordinates:		
			Latitude	Longitude
		Corner-1	15 <sup>0</sup> 9' 16.74"N	77 <sup>0</sup> 25' 49.14"E
		Corner-2	15 <sup>0</sup> 9' 0.32"N	77 <sup>0</sup> 25' 25.99"E
		Corner-3	15 <sup>0</sup> 8' 44.81"N	77 <sup>0</sup> 25' 34.83"E
		Corner-4	15 <sup>0</sup> 9' 1.14"N	77 <sup>0</sup> 25' 59.46"E