

SALIENT TECHNICAL FEATURES



BALANCE OF SYSTEM PACKAGE OF ISTS-CONNECTED WIND ENERGY PROJECT(S) WITH NOMINAL CAPACITY OF 600MW AT KURNOOL IN ANDHRA PRADESH

IFB No. NRE-CS-5925-003(BOS)-9(R)

“Salient Technical Features of the equipment/ systems/ services covered in IFB No. NRE-CS-5925-003(BOS)-9(R) are mentioned below. These Salient Technical Features are mentioned only to facilitate the prospective bidders to prima-facie understand the requirements under the tender and shall not in any way limit or alter the scope of work and technical features/specification of equipment/ systems/ services covered in the Bidding Documents. Detailed provisions in regard of scope of work and technical features/specification of equipment/ systems/ services, contained in the Bidding Document shall be final and binding.”

Reference Wind Turbine Rating to be considered for determining Project Capacity and Design (for AEP certification, costing of Power Evacuation Infrastructure and PSS etc.)	3.15 MW
Rotor Diameter to be considered for Project Design and Spacing Calculations. Micro-siting of wind farm must be done considering this rotor dia.	167 M
Actual Wind Turbine Rating to be installed in offered wind farm (separate WTG Supply & Equipment Package-2)	RLMM listed turbine with minimum rating 3.0 MW
No. of Land Footprints (WTG Locations) to be offered by a BoS Bidder	Either 100 Nos or 200 Nos
Minimum No. of Land Footprints (WTG Locations) to be offered by a BoS Bidder at a Single Site	20 Nos
Quoted Capacity by a BoS Bidder	Either {100 x 3.15 MW = 315 MW} or {200 x 3.15 MW = 630 MW}
Losses to be considered in AEP Certification	As per Technical Specifications (Section-VI)
Wind Masts for AEP Certification	As per Technical Specifications (Section-VI)
ISTS Connectivity	To be arranged by the Employer

Note: 1. All interested bidders are requested to read tender documents thoroughly before submission of their bid.

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- Successful bidder shall be responsible for Detailed design, engineering, micro-siting, manufacturing, supply, erection, testing, commissioning, and proving the guaranteed performance parameters for installation of the offered wind farm starting from 33kV internal evacuation lines from unit substation, pooling substation, central monitoring and control station (CMCS), wind monitoring mast(s), external EHV transmission line till ISTS substation etc.
- The bidder shall offer land for the offered wind farm with clear title and free from all encumbrances, liens, encroachments or litigation etc.
- Bidder shall offer land footprints, either 100 Nos or 200 Nos which shall be compatible for installation of any WTG of size ranging from 3.0 MW to higher rating WTG machine. The reference turbine used for AEP certification and evaluation shall be based on reference turbine of 3.15 MW. Bidder to note that micro-siting of the offered wind farm(s) shall be done based on rotor dia. of 167M and following latest MNRE/ SNA guidelines (refer above Table).
- All associated electrical works required for grid interfacing (i.e. internal HT overhead lines, common group control and metering station, common EHV Sub-stations with necessary switch gear etc.).
- All associated civil engineering works like internal roads, office cum control room building, pooling substation, storage sheds, permanent water supply arrangements, approach roads etc.
- Unshared and Independent Internal Transmission lines from WTGs to pooling substation.
- No sharing on 33 kV side of Pooling S/S of wind farm.
- EHV Transmission line for evacuation of power generated from wind farm(s).
- Supply and installation of Pooling sub-station, SVG and all associated civil and electrical works complete required for interfacing with grid.
- Tariff Meters as per applicable regulations.
- Complete grid compliance study for the offered wind farm(s), Power Plant Controller.
- 3 years comprehensive O&M for the offered Wind BOS package along with mandatory spares.

Note: Supply, civil works and installation of Wind Turbine Generators (WTGs), unit sub-station & SCADA are not in the scope of Wind BOS package.