BALANCE OF SYSTEM PACKAGE OF ISTS-CONNECTED WEP WITH NOMINAL CAPACITY OF 600MW AT ANANTAPUR IN ANDHRA PRADESH

IFB No. NRE-CS-5924-003(BOS)-9(R)

"Salient Technical Features of the equipment/ systems/ services covered in IFB No. NRE-CS-5924-003(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."

Minimum No. of Land Footprints (WTG Locations) to be offered by a Bidder at a Single Site	**20**
Minimum No. of Land Footprints (WTG Locations) to be offered by a Bidder	**100**
Maximum No. of Land Footprints (WTG Locations) to be offered by a Bidder at a Single/ Multiple Sites	**200**
Reference Turbine Capacity to be considered for determining Project Capacity and Design (for AEP certification, costing of Power Evacuation Infrastructure and PSS)	**3.3 MW**
Quoted Capacity by Bidder	**3.3 MW x No. of Land Footprints offered**
Rotor Diameter to be considered for Project Design and Spacing Calculations. Micro-siting of wind farm shall be done considering this rotor dia.	**167 M**
Wind Turbine Machine Capacity (Separate WTG Equipment Package)	**Available RLLM listed machine with minimum capacity 3.0 MW**
Range of Cumulative Capacity for BoS Package	**minimum {100 x 3.3 MW = 330 MW} to maximum {200 x 3.3 MW = 660 MW}**

- 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 windfarm with clear title and free from all encumbrances, liens, encroachments or litigation.
- Bidder shall offer land footprints minimum 100 Nos to maximum 200 Nos (in multiples of 100 footprints) 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 3.3 MW. (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).
- All associated civil engineering works like internal roads, office cum control room building, pooling substation, storage sheds, permanent water supply arrangements, approach road etc.
- Unshared and Independent Internal Transmission lines from WTGs to pooling substation.
- No sharing on 33 kV side of Pooling S/S of Wind Energy Plant.
- EHV Transmission line for evacuation of power generated from wind energy project.
- Pooling substation and associated civil and electrical works required for interfacing with grid.
- Tariff Meters as per applicable regulation.
- Grid compliance study for the wind project, Power Plant Controller and supply and installation
- 3 years comprehensive O&M for offered Wind BOS package along with mandatory spares.

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