

SALIENT TECHNICAL FEATURES



BALANCE OF SYSTEM PACKAGE OF ISTS-CONNECTED WIND ENERGY PROJECT WITH NOMINAL CAPACITY OF 1000 MW IN BELLARY REGION, KARNATAKA (TRANCHE-V)

IFB No. NRE-CS-5929-003(BOS)-9

“Salient Technical Features of the equipment/ systems/ services covered in IFB No. NRE-CS-5929-003(BOS)-9 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.”

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| Minimum No. of Land Footprints (WTG Locations) to be offered by a Bidder at Single Location | 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 Single/ Multiple Locations | 333 |
| Reference Turbine Capacity to be considered for determining Project Capacity and Design (for AEP certification, costing of Internal Evacuation 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, Land requirement and Spacing Calculations | 160 Mtr. |
| 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 {333 x 3.3 MW = 1098.9 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.

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- Bidder shall offer land footprints, Minimum – 100 Nos. and Maximum – 333 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 3.3 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-station(s) with necessary switch gear) and grid extension (i.e. external overhead line up to ISTS grid sub-station, bay extension or creation of additional facilities at grid sub stations).
- 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.
- 3 years comprehensive O&M for offered 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 BOS package.