

## ANNEXURE

Date: 13.12.2025

Eg  
for n.a.pl.  
15/12/25

We have 1.65Mwp Solar Power Plant seasonal tilt, Situated at Mallicherla (Vi), Vizianagaram (md), Vizianagaram (Dist). The solar Power Generated units are pumping to Near sub substation Vontithadi, Vizianagaram at 33KV potential. We are looking for operation and maintenance for this plant. The plant connected equipments such as solar array system, solar panel, strings, SCB's, DC cables, Inverters 1Mwp,0.5Mwp, AC supply, AC cables, Transformers 1250KVA ,750KVA, Auxiliary Transformers 100kva, 33KV VCB's, 33KV substation at plant includes CT, PT's, Metering equipment's. The AC distribution lines maintenance distance approx.1.7KM and 33KV substation at APEPDCL substation vontithadi, Vizianagaram includes CT, PT's and metering equipment. Ht line Tree cuttings, R.O plant etc.

### 1.65 Mwp Solar power plant:

#### **I. Asset Management Performance Management (AMPM)**

1. Solar panel maintenance (including cleaning)-24 Cycle/Year
2. Vegetation Management – 04 Cycle/Year
3. Seasonal Tilting-03 Jobs/Year
4. Preventive maintenance-04 Jobs/Year
5. Corrective Maintenance- AS NEEDED
6. Annual maintenance – 01 Job/Year
7. HT Distribution line tree cutting- 04 times /Year.

#### **II. Unified AI & ML platform (Software) (EIRA)**

1. Access to Asset Management Software
2. Real-Time Schedule & Service updates
3. Real – Time reports
4. Access to D-Cloud for Documentation

#### **III. Innovative Product Development (Collaborative BOT's)**

1. Collaborative BOT (COBOT) for Module Cleaning
2. Transco BOT vegetation Management

#### **IV.ABB Inverters**

ABB AMC (Comprehensive) for Inverters-2 numbers (The spare Parts is to be use for the year cost up to Rs.5 lakhs as and when required.

1.0 Mwp-1 no, 0.5 Mwp-1 no.

## V. Equipments Testing and Reports

The Equipments such as

1. Transformers (Oil testing, IR values testing for the cable and transformers) if the BDV is to be below 40KV the oil filtration is to be conducted by contractor and submit the reports (Amount for this work is contractor scope).
2. All the Breakers and relays shall do maintenance, and it is to be evaluated by CEIG approved agency and submit the reports (Amount for this work is contractor scope).
3. Earth pits IR values and for all earth pits is to be evaluated by A grade license contractor and submit reports (Amount for this work is contractor scope).
4. Attend and fulfill the work noticed by the Respective Electrical Inspector on the yearly inspection as scheduled and maintain the equipment's as guidelines. The Expenditures are in the contractor's scope only.
5. R.O plants shall do cleaning and maintenance regularly by Manufacturer, the output of RO it to be all ways maintain 1000 liters per hour and spare parts if any required for this contractor must pay.
6. The Metering CT's And PTs from the substation side and generation side work is to be taken up by contractors including follow up with APEDCL department like seal removing, its correspondence and CT's and PT's replacement and its calibration as and when required. The material cost will be paid by visakha dairy and liasioning with APEPDCL and maintenance, labour charges for the above installing as when required cost will be paid by the contractor scope.

## V. non-technical management

- ✓ Module cleaning
- ✓ tracker cleaning
- ✓ weather station cleaning
- ✓ vegetation Mgmt
- ✓ pest & rodent Mgmt
- ✓ plant security Mgmt.
- ✓ water, Drain and Erosion Mgmt
- ✓ lighting Mgmt
- ✓ Control room cleaning.
- ✓ roads and perimeter

## VI. Technical management

- ✓ Array /string combiner Mgmt.
- ✓ Inverter Mgmt.
- ✓ RUM/LV Elec. panel Mgmt
- ✓ Transformer Mgmt
- ✓ Lightning Arrestor
- ✓ Earth & Grounding Mgmt.
- ✓ Monitoring system
- ✓ Fire Alarm Mgmt
- ✓ Whether station Mgmt
- ✓ Switch Yard & metering Mgmt.

## VII. Expert Support Management (As when needed).

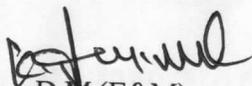
- ✓ Electrical ("initiative-taking")- 3 or 6 visit a year.
- ✓ Mechanical (initiative-taking")- 1 or 3 visit a year.
- ✓ Civil ("initiative-taking")- 1 or 3 visit a year.
- ✓ Electrical ("break-Fix")- within 24 hours
- ✓ Mechanical ("break-Fix")- within 24 hours
- ✓ Civil ("break-Fix")- within 24 hours

## VIII. Asset Management

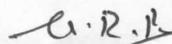
- ✓ Spare part Mgmt
- ✓ warranty Mgmt
- ✓ Insurance Mgmt
- ✓ Outage scheduling
- ✓ Grid integration Mgmt.
- ✓ Energy Bill generation (For BOO model owners)
- ✓ Joint meter reading (For State PPA Owners)
- ✓ Utility/Discom performance reporting

## IX. Performance Management

- ✓ PR reporting (Adjusted to Weather& Grid)
- ✓ Fault & Corrective action reporting
- ✓ Service ticket handling report.
- ✓ Analytics-in future
- ✓ Forecasting-in future.

  
D.M (E&M)

  
AGM(E&M)

  
Chief Quality Assurance