



Southern Power Distribution Company of Telangana State Limited (TSSPDCL)

Expression of Interest (“EOI”)

Invitation to participate in the selection of EPC Players for Distribution Automation & Real Time Monitoring in Industrial Areas of TSSPDCL License Area, Telangana, India

Southern Power Distribution Company of Telangana Limited (TSSPDCL) caters to the power requirements of 8 million consumers geographically spread over twenty circles viz. Hyderabad Central, Secunderabad, Banjara Hills, Hyderabad South, Cybercity, Habsiguda, Medchal, Rajendranagar, Saroornagar, Vikarabad, Siddipet, Mahaboobnagar, Nalgonda, Suryapet, Yadadri, Medak, Sangareddy, Nagarkurnool, Wanaparthy & Gadwal. TSSPDCL comprises of 28 Industrial Areas. These are further divided into 94 Industrial Parks in its license area as shown in figure 1.

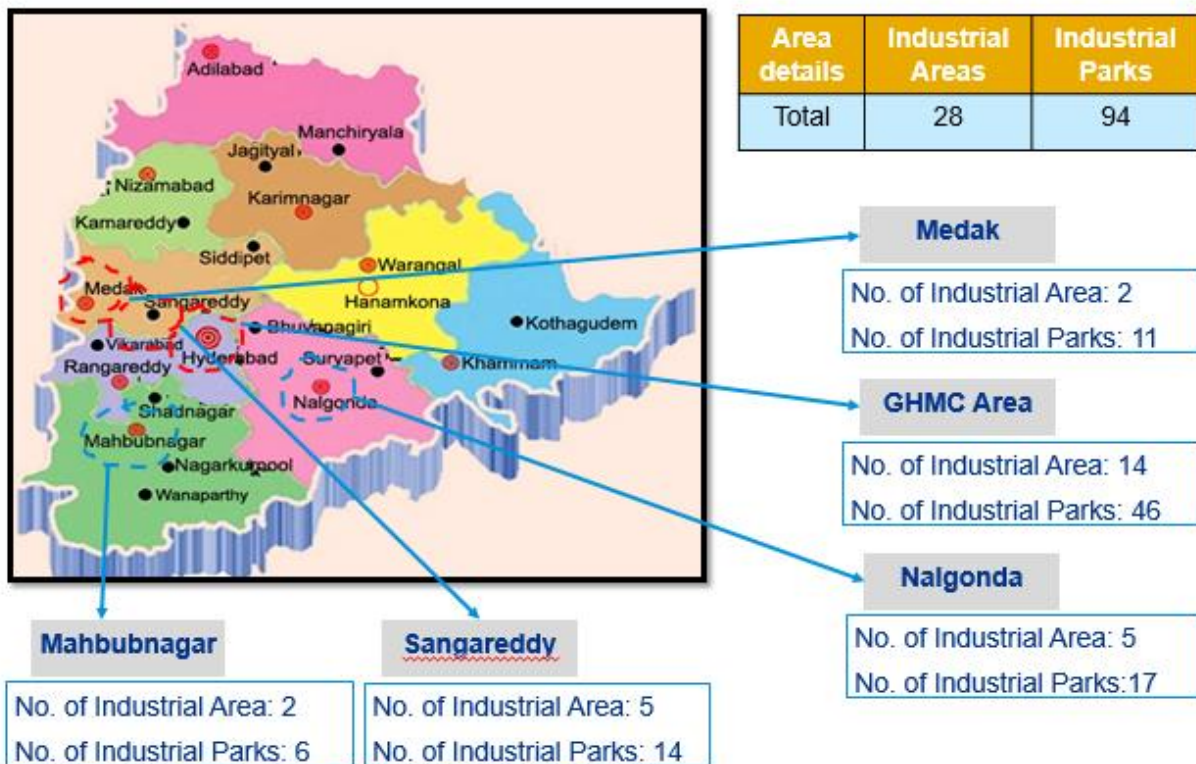


Figure 1

TSSPDCL has been putting continuous efforts to provide uninterrupted, quality & reliable power supply to all consumers and has initiated automation of the distribution network in its license area. Presently, TSSPDCL is covering 228 substations in GHMC area and 156 feeders in Hyderabad city for automation as part of ongoing SCADA project.

Objective of the Project

The state of Telangana has achieved 1st position in Ease of Doing Business (EoDB) Ranking 2016. EoDB rankings mandates 15 areas of compliance for Energy Department and TSSPDCL has achieved a high ranking due to its compliance in the areas outlined for energy department.. TSSPDCL, in an endeavour to further improve the network performance is keen on exploring& adopting leading practices in distribution automation with application of data analytics and real time monitoring. TSSPDCL is also keen on bringing down the SAIDI & SAIFI in these industrial areas thereby effectively impacting the DISCOM level SAIDI & SAIFI. Improvement in SAIDI/SAIFI will also enable revenue enhancement for DISCOMs and help in avoiding capital cost for backup arrangements. Distribution Automation will reduce the duration of faults resulting in lower SAIDI. Condition Based Monitoring & Preventive Maintenance through predictive analytics will additionally result in reduction of frequency of faults resulting in a lower SAIFI. TSSPDCL is also interested in equipping real time monitoring devices and making use of analytics for condition based monitoring and real time load management. The primary objective of the project is to achieve customer delight and to be able to provide interruption free 24x7 power to the consumers.

Project Details

The project would cover 127 substations in the license area catering power to 451 feeders and 13,530 DTRs distributed amongst ten circles as shown in fig 2.

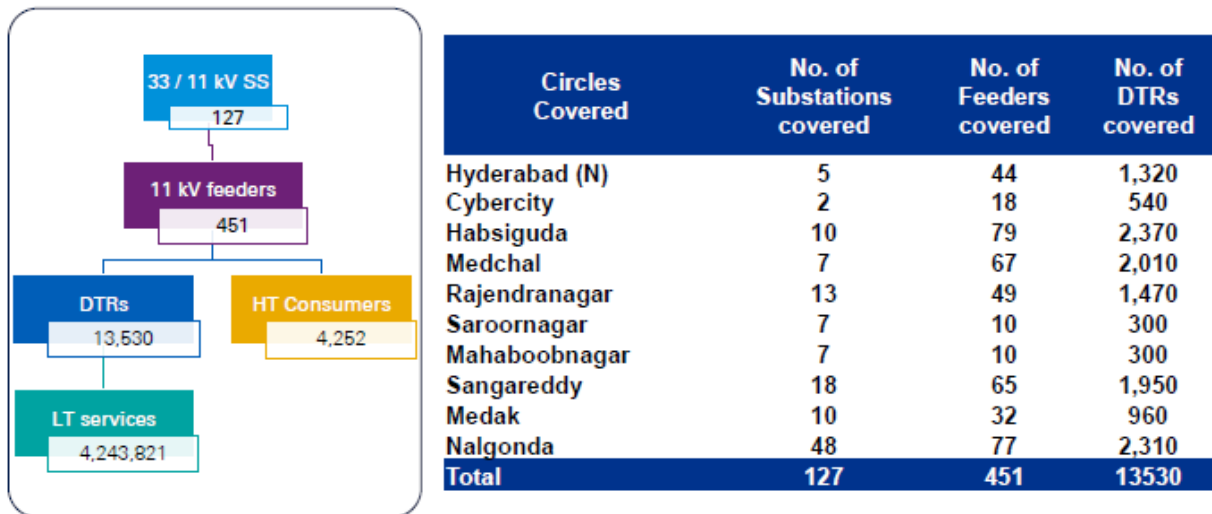


Figure 2: Infrastructure Details (as on September 2017)

Other details of the project are as detailed below:

Scope of Work

- Distribution Automation:** This will include installation of distribution automation equipment on 11kV overhead lines and integration with the suitable communication infrastructure along with control center with required hardware & software on EPC basis with O&M of 5 years.

- b. **Communication Infrastructure:** This will include installation of communication equipment for automation best suitable for the area to be served. The bidder has to do assessment of the area to come up with the optimal solution.
- c. **Data Analytics & Real time Monitoring:** The Player will also be responsible for installation of real time monitoring equipment for condition based monitoring and generating periodic reports through data analytics for maintaining asset health, etc.
- d. **Technical Advisor:** The bidder is also expected to contribute in his capacity as a technical advisor to DISCOM on areas of improving reliability of supply for existing electrical network (existing SCADA/DMS).

Geographical Area & Network Coverage

- a. **Geographical Area:** The distribution automation project will be divided in two area-wise packages.
- b. **Network Coverage:** The project will cover only 11kV distribution radial network catering to the earlier mentioned Industrial areas.

Bid Model: BoQ will be shared with the bidder at the time of RfP and the bidders will be selected on the basis of the Quality and Cost Based Selection (QCBS).

Operation & Administrative Control: Distribution Company (TSSPDCL) will undertake operations in the project area. The operations team will also include staff from the EPC player to enhance the reliability in the target area of operation. The EPC player will also play a role of technical advisor for network improvement. The administrative and operational control will continue to remain with the DISCOM. The recommended actions as suggested by the player under the role of technical advisor will be jointly implemented after technical analysis and scrutiny with due approval from the designated officer/committee from the DISCOM.

Eligibility Criteria

Bidders with the below listed qualifications are only eligible to submit the expression of interest for the project as detailed:

- a. Bidders having relevant experience of operating distribution network with implementation of distribution automation (DMS with auto-reclosers/ Sectionalizers/ RMUs/ FPIs or any combination thereof with Control Center Equipment, etc) and Preventive Maintenance/ Data Analysis preferably as a Licensee/Utility (Public or Private)

or

Experience of implementation of distribution automation and integration activities for the identified interventions. These bidders can tie up with

licensee/utilities to qualify. In such a case, the licensee/ utilities would act as the lead partner to qualify

- b. Bidders should have capability of deploying digital tools and also providing data analytics. Bidders not having this capability can tie up with a suitable vendor
- c. Should have certified and demonstrated parameters of improving reliability in their area of operation (experience shall be certified by NABL agency). Bidders who doesn't have certification at the time of responding to this EOI, can submit it at the time of bidding.

Selection of Bidders

Bidders responding to this EoI will only be eligible for bidding in the next stage. The prospective parties who have expressed interest would be invited to offer their comments on the eligibility criteria and suitable bidding model. However, DISCOM will evaluate the suggestions and would take a considered view. DISCOM is not bound to accept any or all of the suggestions which may be tabled.

The DISCOM reserves its right to proceed with the next stage of bidding, call for a new EOI or annul the current process based on the response received and as the management of TSSPDCL deems fit.

Presentation from Parties responding to EOI

Bidders responding to this EOI should give a presentation to the management of TSSPDCL. The presentation from the bidder should cover the following aspects-

- Experience in implementation of the Distribution Automation Solution and the extent of electricity network infrastructure covered by such a solution.
- Proposed methodology of implementing the Distribution Automation (DA) Solution in TSSPDCL. (Preliminary View)
- Key insights gained by the bidders in implementation of Distribution Automation (DA) Solution in other project areas.
- Best practices in implementation of Communication technologies suited for DA.

The above is list is only indicative and the bidders are encouraged to present additional information which they deem fit based on their experience.

The bidders may submit Expression of Interest (EoI) in two hard copies signed originals and an email copy to Telangana Southern Power Distribution Company Limited addressed to Chief General Manager (Projects) not later than 29th January 2018 at the below mentioned address.

Key Dates

EOI Floating- 28th December 2017

Submission of Interests- 29th January 2018

Discussion and presentation by the EOI bidders – 8th February 2018

Corporate Office

Chief General Manager (Projects)

Southern Power Distribution Company of Telangana Ltd.

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HYDERABAD-500 063

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EOI soft copy can be emailed to <cgmproj@tssouthernpower.com> no later than 29th January, 2018.

Any further information in this regard can be viewed from the website of www.tssouthernpower.com.