



## KERALA STATE ELECTRICITY BOARD LIMITED

(Incorporated under the Indian Companies Act 1956)

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**Minutes of Pre Bid meeting held on 17.09.2018 for "Turnkey Contract Package of Constructing/ Upgrading of 220/110kV line using MCMV / Double Circuit / Narrow base MCMV Towers of "Kottayam Line Package", "North - South Interlink Package (Phase - I)" & "Thrissivaperur Lines Package (Phase-I)" - E tender No. PFCCL/18-19/ET/1**

The Pre bid meeting for "Turnkey Contract Package of Constructing/ Upgrading of 220/110kV line using MCMV / Double Circuit / Narrow base MCMV Towers of "Kottayam Line Package", "North - South Interlink Package (Phase - I)" & "Thrissivaperur Lines Package (Phase-I)" held on 17.09.2018. the meeting chaired by the Chief Engineer, TransGrid, Shornur commenced at 02:00 pm.

**List of participants**

1. Sri. Sanjay Nayak, PFC Consulting Ltd.
2. Sri. Anil Sikka, PFC Consulting Ltd.
3. Sri.P. Rajan, Chief Engineer, TransGrid, Shornur, KSEBL.
4. Sri. Santhosh K, Deputy Chief Engineer, TransGrid (S), Kalamassery, KSEBL.
5. Sri. Sidharthan P B, Deputy Chief Engineer, TransGrid (N), Shornur, KSEBL.
6. Sri. John Thomas, Deputy Chief Engineer, Transmission Circle, Poovanthuruthu, KSEBL.
7. Smt. Usha Varghese, Deputy Chief Engineer, Transmission Circle, Alappuzha, KSEBL.
8. Sri. Mathew P Kurian, Executive Engineer, Transmission Division, Pala, KSEBL.
9. Sri. Shaji K A, Executive Engineer, TransGrid (S), Kalamassery, KSEBL.
10. Sri. Sudheesh K N, AEE, Transgrid Civil Subdivision, Kottayam, KSEBL.
11. Sri. Madhu K, Executive Engineer, TransGrid (N), Kalamassery, KSEBL.
12. Sri. Suresh V, AEE, TransGrid (N), Shornur, KSEBL.
13. Sri. Sivadasan E S, AEE Transgrid TC Chalakkudy, KSEBL.
14. Smt. Sudha S, AEE, TransGrid (S), Kalamassery, KSEBL.
15. Smt. Sherin John, AE, TransGrid (S), Kalamassery, KSEBL.
16. Sri. Rajesh N. S, AE, Transgrid civil Section, Aluva, KSEBL.
17. Sri. L Romesh Singh, Sterlite Power Ltd.
18. Sri. Arun Varghese, Sterlite Power Ltd.
19. Sri. Anaz M, L &T, Kochi.
20. Sri. Cyriac George, DGM, L &T.
21. Sri. Sandesh Ravi Kumar, L&T Chennai.
22. Sri. Saumen, Simplex Infrastructures Ltd, Kolkatta.
23. Sri. KG, Balakrishna, Transrail Ltd.
24. Sri. Swapan Kundu, Transrail Ltd.

Four bidders attended the meeting, viz M/s Simplex Infrastructures Ltd, M/s Transrail Ltd, M/s Sterlite Power and M/s L & T Constructions. Deputy Chief Engineer, Transgrid South welcomed all participants to the meeting and briefly explained the various Transgrid projects.

Sri. Sanjay Nayak of M/s PFC Consulting Ltd, the Bid process coordinator delivered a brief presentation on the bidding process and the qualification requirements that all prospective bidders

shall meet to be eligible for the contract. The Chief Engineer, TransGrid reminded all bidders to submit sufficient evidence for their compliance with the qualification criteria along with the bid. Procedure of E reverse auction and terms of payment were also explained to the bidders on their request. No queries/comments were raised by the bidders regarding the bidding process and qualification requirement other than their written comments submitted. PFC informed that all the written queries received from bidders will be clarified by written letter.

- Compensation for RoW & Tower foot compensations to the account of KSEBL. Other damages/expenses on account of equipment / vehicle access to site, crop damage due to line stringing, other work etc. to be borne by the contractor
- Clearances from PTCC, Railways, Inland Water Authority & Electrical Inspectorate shall be obtained by KSEBL. All other clearances for the execution of the work are in the scope of the contractor
- Each package shall have a Project Manager with experience not less than 15 years in the field of transmission construction. Adequate number of Quality and Safety personnel directly employed by the contractor shall be available. Each site shall have a functionally qualified/experienced site supervisor directly employed by the contractor during the work. Detailed Field Quality Plan and EHS plan specific to the project shall be submitted by the contractor and got approved before starting the work. Contractor to provide Work Breakdown Structure in MS Project before contract execution.
- Tower design is under the scope of KSEBL except for Package D under Kottayam line Package.
- Bidders raised their concern on the completion period of the project that 18 months are not sufficient for such a big contract. The chair informed that the completion period will not be extended as the project is to be completed in a time bound manner as insisted by KIIFB. Contractors can employ multiple team to execute the work at different sites simultaneously.

Presentation on overview of the packages included in the tender was made by concerned Engineers of KSEBL and following points were emphasised for information to the bidders.

#### **Kottayam line Package**

- Project A1 includes Railway crossing and Contractor to arrange work according to the shutdown schedule obtained from the Railways. Project A2 includes construction of one tower (72A) in the lake near national waterways.
- For Kottayam Lines Package Narrow based towers are proposed but for project A1, GLA, B,C,D Broad based towers may be required instead of narrow based towers at feasible locations.
- For Project D, decision on one Multi circuit or two DC towers will be finalised later. The same will be finalised before Engineering approval. Separate item is provided in BOQ, rate shall be quoted accordingly.
- Profile Survey of Kottayam Lines Package has been done by KSEBL. However, check-survey on critical portions are included in the contractor's scope.

#### **North-South Interlink Package and Thrissivaperur Lines Package**


- NSIL Package includes 3 towers in forest, 400kV Xing location at Pariyaram and UG Cable 460m Length through canal bund Road. KSEBL is trying to avoid the UG cable proposal by adopting new RoW at 400kV XING location. The Bidder were advised to quote as per the BoQ published.

- TLP includes Railway crossing and Contractor to arrange work according to the shutdown schedule obtained from the Railways.
- For NSIP and TLP both Narrow based towers and Broad based towers are proposed. HTLS conductor is proposed for TLP.
- Route Survey for NSIL project A, and TLP had been Completed by KSEBL. NSIL project B include new RoW and hence its route Survey is included in the BOQ.

#### Civil works

- Civil work shall be conforming to latest IS standards and are to be executed as per prevailing CPWD specification.
  - For towers in river, Pile foundation is required and pre cast guard piles are expected to driven around the tower. High Strain Dynamic Testing of Pile foundation to find out the ultimate load carrying capacity of pile at the lake location.
  - Contractor has to carry out the mandatory testing of cement, water, steel, coarse aggregates and fine aggregates in a frequency as specified in CPWD specifications. Bidders expressed their apprehension on large number of field tests required for a huge transmission line package projects. The chair informed bidders that as per quality Assurance program insisted by KIIFB field tests are mandatory to assure the quality of materials involved in the project. Documentation of field tests is also mandatory.
  - Item of excavation under water will be carried out only when the tower location is in fully submerged condition as evident from preliminary visual inspection. Quoted rates for all excavation and concreting works shall be inclusive of dewatering and ring bund formation etc wherever necessary. The item of de-watering and ring bund are expected to come rarely. The item No 27 and 38 (dewatering and ring bund formation) will be deleted from BOQ and corrigendum will be issued for the same.
  - Provision for volumetric batching shall be limited to the minimum and design mix concrete wherever possible.
- As per the request from bidders the bid submission period was finalised from 29.09.2018 to 12.10.2018 and no further extension is not possible.
- The site visit was finalised on 18<sup>th</sup> and 19<sup>th</sup> September on assistance of Sri. Saju M, Assistant Executive Engineer of KSEBL. Bidders were informed to submit their queries after site visit before 25<sup>th</sup> September and no queries after that will be considered.

The meeting come to a close at 3:30 pm.

  
 Deputy Chief Engineer.  
 TransGrid South, Kalamassery.

Endt on.DB1/DCE/Transgrid(S)/Kottayam Line Package/18-19/535 dated. 19.09.2018

Copy submitted to:

1. The Director (Transmission & System operation), Thiruvananthapuram.
2. The Chief Engineer, TransGrid, Shornur.

Copy to : All participants.