

**KERALA STATE ELECTRONIC DEVELOPMENT
CORPORATION LIMITED**

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EOI Invitation

For

Technology Partner

Illumination of roads with LED lights and Steel Tubular poles at ADDA Durgapur

EOI No: KSEDC/KMO/Kolkata Dated 21/02/2018

Important deadline for bidders

EOI Submission: -- 01/03/2018 at 3.00pm

KELTRON,20,BALLYGUNJ CIRCULAR ROAD,KOLKATA

PART A

**EXPRESSION OF INTEREST FOR SELECTING “TECHNOLOGY PARTNERS” FOR
Illumination of roads with LED lights and Steel Tubular poles at ADDA Durgapur**

1. BACKGROUND

The KELTRON group companies comprise of the holding company the Kerala State Electronics Development Corporation Limited (KSEDC LTD.), two subsidiaries and seven Marketing Offices (KMOs), located at Ahmedabad, Bengaluru, Kolkata, Chennai, Delhi, Hyderabad and Mumbai. KELTRON is the first State Electronics Development Corporation in India, fully owned by the Government of Kerala. KELTRON is incorporated on 29th September 1972 under Companies Act, 1956 with its registered office at Keltron House, Vellayambalam, Trivandrum – 695 033. KELTRON is the Total Solution Provider for the Government of Kerala.

Today, KELTRON products/ projects remain as icons of technology brought to benefit the people. As diverse as its products and their uses are, they are unified by its pivotal strength as a solutions provider. It is this philosophy that has made KELTRON a vital contributor to the changing needs of the world and the community to which it belongs to, during the last 42 years.

Continuing in its quest to bring the benefits of frontier technology to its customers, KELTRON has forged strategic alliances with world leaders in the trade. Its focus today is in adapting technology to fulfil the needs of its customers with a renewal mission to emerge as a provider of better solutions for the future. KELTRON’s major products are Electronic Components, Security and Surveillance Systems, Strategic Electronics, Intelligent Transportation systems, Automatic Traffic Regulating System, Power Electronics, Information Technology Solutions, Process Automation Systems, Project Consulting etc.

KELTRON’s strategic vision is to become a world-class, growth-oriented electronics corporation specialised in providing quality, market-focused products, services and cost-effective system solutions to a large clientele. Company aims to achieve a turnover level of Rs.1000 Crores within the next 5 years.

2. PROJECT

KELTRON is in the process of augmenting its business domain to include <Project Name>, herein after called “Solution” and is looking for a suitable ‘Technology Partner herein after called TP” who has got expertise and experience in designing and/or in providing Technology Support, manufacturing, supply, testing, installation & commissioning in the above solution.

3. OBJECTIVE:

KELTRON proposes to appoint a TP with proven professional track record and experience in above solution .With this Request for Qualification through Competitive Bidding, KELTRON seeks Expression of Interest (“EOI”) from interested Parties (“Bidders”) to work as TP to perform the indicative Scope of Work illustrated under Section 4 (Scope of work) of the EOI document.

The EOI document can be downloaded from the website at www.keltron.org

4. SCOPE OF WORK

Supply ,installation of LED street lights and steel tubular poles with necessary accessories and civil works

4.1 Design, development, manufacturing, supply, testing, installation, and commissioning (as is applicable) of the following to work as a single integrated solution. The solution comprises of the following modules/ subsystems.

a) Supply at the work site of 7 (seven) mtr. long swaged & welded steel tubular pole of designation 410 SP 2 with 300mm long telescopic piece over ground level, base plate, pole cap etc. complete. Respective lengths of bottom, middle & top portions are 4.00 mtr. (114.30 x 4.50) mm, 1.50 mtr. (88.90 x 4.05) mm, & 1.50 mtr (76.10 x 3.25) mm. Make: India Poles Corporation/ BST Infratech Ltd./ J.K. Poles & Pipes Co./ Utkarsh Tubes & Pipes Ltd.1. Erection of this single steel tubular pole of length as given above with/without sole plate & Cap etc. in CC foundation (Proportion and dimension indicated below), having 600x600x150 mm thick CC (4:2:1) base block below sole plate/pole with hard jhama metal / stone chips including CC (6:3:1) muffing 0.30 mts. dia and 0.30 mts. above ground level including 3 mm thick neat cemented finish and GI earth bolt after making drilled holes etc. on pole & carriage of pole upto 1.6 Km from Store to work-site including filling up the excavated earth pit with shifted soil and ramming properly. Size (0.6 x 0.6 x 1.70) mtr.

b)

Supply & installation on a suitable masonry plinth of Street Light Control Kiosk of size 900mm x 750mm x 450mm, made of 14 SWG MS sheet and comprising of the following,-a) One set 63A (10KA) FP MCB of Legrand/Siemens/ABB make.b) One set suitable timer (Astro, L&T) with 70A (at AC3) capacity 3 pole power contactor (ML4) of L&T make with requisite auxiliary contacts.c) One no. toggle switch & one no. 2A capacity slide lock fuse.d) Suitable neutral bar- 01 set. e) 40 A capacity SP MCB (10KA) (complete set) –06 nos. Make: Legrand/Siemens/ABB. F) Separate lockable compartment for installation of Energy Meter. All the interconnections inside the kiosk are complete with suitable size copper wire, necessary glands, sockets etc. The box is painted with two coats of anticorrosive red-oxide primer & two coats of bus-green paint complete with earthing attachment etc. as per direction & satisfaction of EIC. Making plinth with all requisite materials & labour is included.

c)

. Supply & fixing of outdoor type dust & vermin proof 3-ph pole box on the pole with all necessary items & connections. The box is made of 2mm thick CRCA sheet painted with powder coated paint through seven tank process having 4 nos. terminal suitable for termination of 3nos. 4c x 25 sq. mm Al. armoured cable with glanding arrangements, earth bolt, earthing terminal and 6A SP MCB of Legrand.

Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts. long and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level as below: By ISI-Medium GI pipe.

d)

Supply at the work site of 4C x 25 sq. mm Al. conductor, PVC/ XLPE insulated, armoured, overall PVC sheathed, 1.1 KV grade power cable conforming to IS: 1554/ 7098 (Part-I) 1988 with latest amendments.Make: Polycab/ CCI/ Nicco/ Universal/ Finolex/KEI.

Supplying & fixing of 50mm dia. medium gauge GI Pipe (ISI-Medium) protection with necessary fittings and jointing materials as required.

Cutting chase upto 125mm x 150mm and subsequent mending of damages in concrete/ bituminous / similar surface/ wall. Laying only Cable upto 50 sq.mm through existing RCC/Hume/ GI Pipe/open masonry trench for single, 2, 3, 3½ & 4 core.

e)

Laying of one No. cable upto 35 sq.mm in underground trench 460 mm wide x 760 mm average depth, with brick protection on the top of the cable with 8 (eight) nos. bricks per meter, including filling the space between the brick & cable and also the trench with shifted soil, leveling up and restoring surface duly rammed.

Supply & installation on a suitable masonry plinth of Street Light Control Kiosk of size 900mm x 750mm x 450mm, made of 14 SWG MS sheet and comprising of the following,-a) One set 63A (10KA) FP MCB of Legrand/Siemens/ABB make.b) One set suitable timer (Astro, L&T) with 70A (at AC3) capacity 3 pole power contactor (ML4) of L&T make with requisite auxiliary contacts.c) One no. toggle switch & one no. 2A capacity slide lock fuse.d) Suitable neutral bar- 01 set. e) 40 A capacity SP MCB (10KA) (complete set) –06 nos. Make: Legrand/Siemens/ABB. F) Separate lockable compartment for installation of Energy Meter. All the interconnections inside the kiosk are complete with suitable size copper wire, necessary glands, sockets etc. The box is painted with two coats of anticorrosive red-oxide primer & two coats of bus-green paint complete with earthing attachment etc. as per direction & satisfaction of EIC. Making plinth with all requisite materials & labour is included.

Excavation of soil for installation of Earth Electrode and filling and ramming. For soft soil./morrum soil Extra for treatment of soil by using salt & charcoal or coke for electrode.

f)

Connecting the equipment to earth busbar / earth terminal including S & F GI (Hot Dip) wire of size as below on wall/floor/through pipe with staples buried inside wall/floor as required and making connection to equipment with bolts, nuts, washers, cable lugs etc. as required and mending good damages. Solid GI wire. 4 SWG.
Supplying & fixing of 25mm dia. medium gauge GI Pipe (ISI-Medium) protection with necessary fittings and jointing materials as required.

Painting of Steel Tubular Pole of lengths and no. of coats of paint, as given below with ready mixed paint/primer of approved make, and brand incl. preparation of surface by sand paper/emery paper, cleaning etc. for receiving fresh coat of paint. Upto 9 mtr. long pole. One coat of red lead / zinc chromate priming.

Painting of Steel Tubular Pole of lengths and no. of coats of paint, as given below with ready mixed paint/primer of approved make, and brand incl. preparation of surface by sand paper/emery paper, cleaning etc. for receiving fresh coat of paint. Upto 9 mtr. long pole. 1st coat of synthetic enamel paint over the primer.

Painting of Steel Tubular Pole of lengths and no. of coats of paint, as given below with ready mixed paint/primer of approved make, and brand incl. preparation of surface by sand paper/emery paper, cleaning etc. for receiving fresh coat of paint. Upto 9 mtr. long pole. 2nd coat of synthetic enamel paint over the primer.

g)

Supply at the work site of 1100 volt grade 1.5 sq. mm FR PVC insulated single core stranded copper wire conforming to IS: 694:1990. (Ph., N & E) from pole box to light fitting as per direction of EIC. Finolex/KEI/ Polycab.

Drawal of 1100 volt grade 1.5 sq. mm FR PVC insulated single core stranded copper wire conforming to IS: 694:1990 (Ph., N & E) from pole box to light fitting as per direction of EIC.

h)

Finishing the end of following XLPE/PVC armoured cables by crimping method incl. supplying and fixing solderless i) socket (Dowels make), tapes, anticorrosive paste & jointing materials : 4 core 25 sq. mm.

Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below : 4 core 25 sq. mm.

4.2 Impart training to Keltron staff (as applicable)

1. On the project/modules/ solutions.
2. Test and QC procedures: Formulation of Test Procedure for inward inspection, in-process quality control and final product testing & acceptance.
3. Installation and Commissioning.
4. After Sales / Maintenance Support.

4.3 As part of Project Implementation Cycle to provide documents: (as applicable)

1. Site / Requirement study
2. Bill of materials
3. Project costing
4. Vendor development support
5. Die & tools development support
6. Type approvals & certification support

4.4 Post Project Implementation Support: (as applicable)

1. Successful Implementation with appropriate approved Test Procedures
2. Continued support to successful running of the project
3. Upgrades if necessary
4. Seamless integration with other systems through “various means”

5. EOI PREPARATION

1. Bidders shall provide the solution, in its entirety to Keltron.
2. Bidder shall submit the EOI in the application form provided as “Form-B”.
3. Bidder shall submit the EOI along with a covering letter as per “Form-A”.
4. Bidder shall submit the EOI in sealed envelope with “EXPRESSION OF INTEREST FOR “TECHNOLOGY PARTNER” written on top, containing one (1) hard copy in original and three (3) photo copies (“Printed Documents”) along with the entire required Appendix in the order provided in the table of enclosures.
5. Bidder shall note that it shall submit the duly filled EOI format and covering letter as mentioned above along with all the supporting documents in hard copy form as well in soft copy form on a CD.

The EOI should reach KELTRON,20,BALLYGUNJ CIRCULAR ROAD,KOLKATA

on or before **01/03/2018 at 3.00pm** KELTRON will not be responsible for or accept as a valid reason any postal delay or non-receipt/non-delivery of the EOI.

6. Any deviation from the prescribed format mentioned in the exhibits will make the bid liable for rejection. Bids incomplete in any respect or not providing adequate information will also be ground for rejection.
7. If the Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in the EOI, in any manner whatsoever, in order to create circumstances for the acceptance of its EOI, KELTRON reserves the right to reject such EOI. KELTRON shall have no liability to any person for excluding or rejecting any such bid.
8. KELTRON reserves the right to accept or reject any EOI or to annul the bidding process and reject all EOIs at any time, without assigning any reasons thereof and KELTRON shall not entertain any claim whatsoever on this account. The Bidder shall have no claim on KELTRON in case his EOI is rejected or the bidding process is annulled.
9. Participants requiring any clarification on the EOI may notify KELTRON in writing or by e-mail to the ID : Keltron.cal@gmail.com
10. KELTRON shall endeavour to respond to the questions raised or clarifications sought by the Participants. However, KELTRON reserves the right not to respond to any question or provide any clarification, in its sole discretion, and nothing in this Clause shall be taken or read as compelling or requiring KELTRON to respond to any question or to provide any clarification.
11. KELTRON may also on its own motion, if deemed necessary, issue interpretations and clarifications to all Participants. All clarifications and interpretations issued by KELTRON shall be deemed to be part of the EOI. Verbal clarifications and information given by KELTRON or its employees or representatives shall not in any way or manner be binding on KELTRON.

6. ELIGIBILITY CRITERIA

1. Bidder should be an Indian Company registered under Companies Act 1956.
2. Bidder should not have been debarred / black listed by any Government, Semi-Government organizations in India, Public Sector Undertakings of the Centre or State Governments.
3. Registered as a company for Supply and installation of LED street lights and steel tubular poles
4. The Bidder should have possession of source code for Firmware (as is applicable) and should have the capability to modify and incorporate changes.
5. The Bidder should have the competency for the mentioned Implementing the solution and should have a panel of expert in the roll.
6. If the Bidder is not a manufacturer (only a technology provider) it should have an authentic undertaking from the corresponding OEM/OEMs - either Indian or foreign.

7. EVALUATION of EOI

1. The SBU/KMOs will constitute an Evaluation Committee to evaluate the responses of the Participants as per the Evaluation Methodology.

The Evaluation Committee constituted shall evaluate the responses to the EOI and all supporting documents & documentary evidence. Inability to submit requisite supporting documents or documentary evidence, may lead to rejection of the EOI response. The Committee may seek additional documents as it deems necessary, at its discretion.

2. EOI evaluation will be carried out considering the information furnished by Bidders as prescribed under covering letter and Application form for EOI. The Bidder must fulfil the minimum qualification requirements as mentioned in Section -6 (Eligibility Criteria) KELTRON intends to conduct the bidding process for the selection of the TP based on a Competitive Two Stage Bidding Process-
 - a) In the first stage, KELTRON intends to qualify bidders who meet the Qualification Requirements detailed in Section -6 (Eligibility criteria) of this Expression of Interest (“EOI”) and declare them as Qualified Bidders and
 - b) In the second stage, Qualified Bidders will be called for a detailed presentation for evaluating their technical capability, product quality, QA procedure, etc.
 - c) Each of the responses shall be evaluated to validate compliance of the Participant according to the processes and approach to enable partnership, presentation and demonstration.
 - d) KELTRON will intimate the outcome of the EOI evaluation in due course. The decision of KELTRON in this regard shall be final and binding on all bidders. After identification of the successful Bidder, KELTRON intends to execute an Agreement/SLA with the successful Bidder, thus concluding the process of appointing a TP.
3. Notwithstanding anything stated above, KELTRON reserves the right to assess Bidder’s capability and capacity to perform along with quality of execution by the bidder based on field visit and feedback, in the overall interest of KELTRON.
4. The decision of the Evaluation Committee in the evaluation of responses to the Expression of Interest shall be final. No correspondence will be entertained outside the evaluation process of the Committee.

The Evaluation Committee reserves the right to reject any or all responses.

8. OWNERSHIP OF THE EOI

The bidder shall submit all the documents given in Form C.

- 8.1 Without affecting any intellectual property rights, which may exist in a response to this EOI, all responses submitted will become the property of KELTRON. Without limiting this section, KELTRON reserves the right to copy and reproduce, for KELTRON's own internal use, responses for the purposes of evaluation, clarification, negotiation and/or contract execution and anything else related to these purposes. In addition, the KELTRON will retain copies (soft and hard) of all responses, evaluation, negotiation or such other materials as are required for the discharge of its legal obligations and in order to efficiently and effectively manage any contract entered into with a Bidder.
- 8.2 KELTRON reserves the right to change, modify, add, alter the EOI document or cancel the bidding process without assigning any reasons thereof, at any time during the bidding process. The bidding process shall end with signing of the Agreements. Any such change shall be notified in Keltron web site.
- 8.3 Notwithstanding anything stated above, KELTRON shall not be responsible or liable for non receipt of any such change/notice by bidder. The bidder or any third party shall not object to such changes/modifications/ additions/ alterations explicitly or implicitly. Any such objection by the bidder shall make the bidder's proposal (at EOI stage, RFP stage and/or financial proposal Evaluation stage) liable for rejection by KELTRON. Further objection by any third party shall be construed as infringement on confidentiality and privileged rights of KELTRON with respect to this document.

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