

GOVERNMENT OF KERALA
KERALA FOREST DEPARTMENT

PC1-139/2017

Dated: 27-02-2017

E-TENDER NOTICE

(Tender No -18/2016-17 to 21/2016-17)

Online tenders are invited from reputed firms for the **"Supply, Installation, Testing and Commissioning of Solar Fencing"** for use in Kerala Forest Department by the Chief Executive Officer, Punalur FDA / the Divisional Forest Officer, Punalur. The Solar Fencing should conform to the technical standards and specifications detailed in Annexure A attached to this notice. Tender documents, schedules and conditions are available in the website: www.etenders.kerala.gov.in. The Earnest Money Deposit and tender fee should be submitted through the Internet online banking of SBT or through NEFT for other banks.

All bid/tender documents are to be submitted online only and in the designated Online cover(s)/envelope(s) on the www.etenders.kerala.gov.in website and tenders submitted manually /through post will not be entertained. Late tenders will not be accepted

Details of Tender fee and PAC amount is as follows:

Sl. No	Tender No.	Item	Length in Kilometre (approx.)	PAC (Rs. in lakhs)	EMD	Tender Fee (excluding VAT) (Rs)	Period of completion
1	18/2016-17	Supply, Installation, Testing and Commissioning of Solar Fencing from Neduvannoorkadavu to Kalamkunnu Pallamvetty in Kalamkunnu Section of Anchal Range during 2016-17	8.00	17.38	43500/-	5000/-	60 days
2	19/2016-17	Supply, Installation, Testing and Commissioning of Solar Fencing from Poombara Colony to Neduvannoorkadavu in Kalamkunnu Section of Anchal Range during 2016-17	2.00	4.41	11100/-	900/-	30 days
3	20/2016-17	Supply, Installation, Testing and Commissioning of Solar Fencing from Technical Highschool junction to Ambalakkadavu in Kulathupuzha Section of Anchal Range during 2016-17	1.50	3.60	9000/-	750/-	30 days
4	21/2016-17	Supply, Installation, Testing and Commissioning of Solar Fencing from Kandanchira to Technical Highschool junction in Kulathupuzha Section of Anchal Range during 2016-17	4.00	8.75	21900/-	1800/-	45 days

The other details regarding this tender are as follows:

(i)	Period for completion	Within 60 days, 30 days, 30 days & 45 days from the date of agreement respectively
(ii)	Mode of Payment	. On line
(iii)	Place to be delivered	.Punalur
(iv)	Date from which the tender will be available in the website	20-03-2017, 12.00 hours
(v)	Last date for receipt of tender (Closing of tender)	05-04-2017, 17.00 hours
(vi)	Tender Opening Date	12-04-2017, 14.30 hours

The Length in Kilometers mentioned above is approximate. The KFD will be at liberty to increase or decrease the length/work to be done or may decide not to execute the work at all.

Online tenders/bids are to be accompanied with a preliminary agreement executed in Kerala Stamp paper worth Rs.200/-. Tenders/bids received online without the scanned copies of relevant documents, preliminary agreement, will not be considered and shall be summarily rejected. Any further clarifications on this tender can be obtained from NIC/ the e-tender Helpdesk number available in the www.etenders.kerala.gov.in website and from the office of the CEO Punalur FDA & DFO Punalur during the office hours. The details regarding e-Payment (Bidder's Bank Account No. where he/she is having core banking facility and email id) should be submitted along with the tender. Tenders without these details will not be accepted. Technical bid and financial bid shall be submitted in their respective designated online covers.

The Forest Department will not be responsible for any inconveniences or loss to the Bidder while uploading/ downloading the bid.

The rate/Kilometre and the rate for annual Maintenance contract beyond the warranty period of five years ^{also} are to be quoted ~~separately~~.

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Chief Executive Officer of FDA Punalur &
The Divisional Forest Officer, Punalur
(For and on behalf of the Governor of Kerala)

Place : Punalur,
Date : 27-02-2017

ANNEXURE-‘A’

GUARANTEED TECHNICAL PARTICULARS OF THE PRODUCTS QUOTED

(All the information asked for shall be given. No rows shall be left blank)

GENERAL TECHNICAL SPECIFICATIONS

Description	Specification	Remarks	Yes / No
	Base Units		(Please specify if better technical specification is quoted)
Energizer	<p>Should be Battery Operated. Switch to high, medium and low power settings. Solar panel option to recharge 12-Volt battery. Full and reduced power output terminal.</p> <p>Should operate at one / different fences independently.</p> <p>Should be capable to energize the length of fence up to 3 Km. Should be suitable for other requirements of the work.</p> <p>Operating voltage at 50 K load- 10 Kv Maximum.</p> <p>Other parameters with 1 K Load</p> <p>Operating voltage - 6.0 -8.0 Kv. - At High setting</p> <p>O/p energy - 3.5 J minimum. - At High setting</p> <p>Peak current - 7.0 - 8.0 Amps. - At High setting</p> <p>RMS Current - 2.4-2.8 Amps. - At High setting</p> <p>Output Charge - 1.0-1.4 milli-Col. - At High setting</p> <p>Fib. Energy - 3.5 -4.5 MCA - At High setting</p> <p>Pulse duration - 0.01- 3 mill-sec.</p> <p>Pulse interval - 1.1- 1.4 sec.</p>	<p>1. Must confirm to all National and International Standards of safety and should not be fatal to human and animal life.</p> <p>2. Registration of the firm in any Govt. Depts. (Like Directorate General of Supplies and Disposals etc.) will be preferred</p>	Yes / No
Solar PV Modules	37 Watts, 12 Volts rating with minimum 10 years warrantee against manufacturing defects.	Must be of CEL /BHEL / REIL / TATA BP Make	
Module stand with post	MS angle, strips and pole 50 NB. Hot dip galvanized to minimum of 30 microns zinc coating thickness. Tilted to 15 degrees. To be grouted properly	To suit PV module	
Battery	12 Volts, 120 Ah low maintenance battery with 2 year guarantee	Must be of Exide/ Kirlosker/Union make	
Lightening diverter kit	Must be capable of diverting stray lightening. The diverter assembly must be adjustable for spark gaps. Adequate earthling to be provided.	With proper earthling system	
Housing box with post	Made of 16 gauges GI sheet, painted and fixed on 100NB, class B pipe, and must be grouted	Should be capable of housing battery and energizer.	

Accessories

Earthing system	Must contain earth mixture capable of retaining moisture. 8-mm. Diameter stainless steel rod, non-rusting quality of at least 4 feet length	Should be capable of providing proper earthing to the system.	Yes / No
Strain Insulators	Strain insulator must be of Polycarbonate material and should withstand 15 KV voltages	UV stabilized & Rainwater run-off should be provided on the insulator	(Please specify if better technical specification is quoted)
PP Reel Insulators	Must be of virgin plastic material. Polypropylene or equivalent	UV stabilized. High tensile	
High Tensile wire	2.5 mm. wire dia High tensile wire with minimum of 230-300 gms./sq.m zinc coated thickness. UTS 140.5kg/mm ² , Break strength of 740 kgs. Zn purity above 99%.	To be guaranteed for more than 5 years	
14 gage wire	14 gauge wires for binding insulators	High quality zinc coating	
Wire tighteners	In suit tightners for proper tensioning of wires should be made from Al-alloy non-rusting quality		
Tension springs	Spring steel capable of taking compression loads. Galvanized.		
Joint clamps	Positive locking mechanism. Zinc coating of more than 25 microns.		
Warning sign boards	Polyethylene plastic with statutory colour and signs	Yellow with black letter in local language	
Lead out cable	Must be double insulated withstanding 15 KV voltages. Inner core wire must be hot dip galvanized	For under gate and base unit connection	
Rope gate kit	Steel rope with handle and spring assembly. Handle made of polyethylene	Length of rope to suit gate width	
Tool kit	Should contain: Wire tightener handle, Twisting tool, Pliers, Double ended spanner for clamp tightening		
Drop chain	12.5 mm loop size (of 12 gauge M.S. Wire)	For rivers and streams	
Flood gate controller	Should be capable of automatically cut off the current in the drop chains, in case of floods	To be used in conjunction with drop chains	
Cut out switch	Should be temper proof & capable of withstanding high voltage from energizer	Provision for switching off the power, of a section of the fence by using a removable key should be made.	
Elephant toupees	2.5 mm dia galvanized iron wire and G.I. Clamps should be used	For protection of posts from elephants	

Posts:

Section/Corner/End/ Pull through posts	50NB Class 'B' pipe-8.5 feet long Hot dip galvanized to more than 60 microns. Stay support 25-mm. diameters with brackets also hot dip galvanized. Must include fasteners. Posts must be grouted 1.5 feet in 2X2X2 feet size P.C.C. in 1:2:4 cement sand& stone ballast		Yes / No
Intermediate posts	more than 60 microns galvanized T' section post 8.5 feet long 25X25X3 mm., to be inserted 1.5 feet in ground		(Please specify if better technical specification is quoted)

Testers

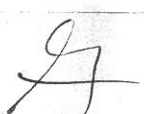
Digital volt meter	Must display fence voltage digitally up to 12 kv only. Made of non-shocking plastic		Yes / No
Xenon flash tube	Capable of flashing with each pulse to monitor the fence. Must be visible from a distance of 1000m		(Please specify if better technical specification is quoted)
Neon tester	Neon light measuring the fence for excellent, very good, good and poor marking		

Other General Technical Requirements:

The tenderer firm shall have-

1. ISO certification for "Design, manufacture, install, maintaining the power fence for animal control.
2. Test report from any Govt. test laboratory to confirm the required technical specification of the energizer.
3. Test reports from any reputed test laboratory to confirm the required technical specification of other major components

(Attach the attested photocopies of all the above documents)


Chief Executive Officer of FDA Punalur &
The Divisional Forest Officer, Punalur