

DEMOCRATIC SOCIAL REPUBLIC OF SRI LANKA
MINISTRY OF PLANTATION & COMMUNITY INFRASTRUCTURE



COCONUT RESEARCH INSTITUTE

BIDDING DOCUMENT

FOR

**PROCUREMENT OF MATERIALS, INSTALLATION & COMMISSIONING OF
ELEPHANT ELECTRIC POWER FENCE AROUND “MADURUOYA” COCONUT
GENETIC RESOURCES CENTRE**

CONTRACT NO: CRI/2026/NCB/77

Volume 1

Section I – ***Instructions to Bidders (ITB)***

Section VI – ***Conditions of Contract***

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Volume 2

Section II – ***Bidding Data Sheet (BDS)***

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Section VII – ***Contract Data***

Name of the Bidder:

2026

Section II. Bidding Data Sheet (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

[Instructions for completing the Bid Data Sheet are provided, as needed, in the notes in italics mentioned for the relevant ITB Clauses.]

ITB Clause Reference	A. General
ITB 1.1	The Employer is: Director Coconut Research Institute, Bandirippuwa Research Centre, Lunuwila.
ITB 1.1	The name and identification number of the Contract are: Procurement of Materials, Installation & Commissioning of Elephant Electric Power Fence around Maduruoya Coconut Genetic Resources Centre Contract No. CRI/2026/NCB/77 Contract Period: Six Months
ITB 2.1	The source of funding is: Estate Generated Funds
	B. Contents of Bidding Documents
ITB 7.1	For <u>Clarification of bid purposes only</u> , the Employer's address is: Attention: The Director Address: Coconut Research Institute, Bandirippuwa Estate, Lunuwila 61150, Telephone: 94 (0)31-2255300 Electronic mail address: <u>director@cri.gov.lk</u>
ITB 11.1	<u>The bidder should submit the following additional documents:</u> 1. Valid certificate of registration obtained from the Registrar of Public Contracts, as prescribed in <u>Public Contract Act</u> , No. 3 of 1987, if the contract exceeds five Million rupees. 2. Copy of Certificate of Incorporation
ITB 7.1	A pre-bid meeting shall take place at the following date, time and place: Maduruoya Coconut Genetic Resources Centre, Bogaswewa, Kashshapapura (Aralaganwila / Polannaruwa) at 11.30 a.m. on 14.09.2026
ITB 14.3	The Bidder shall quote for all the equipment and items (Items or equipment must be brand-new/ un-used)
ITB 15.1	The bidder shall quote in Sri Lankan Rupees.
ITB 19.1	The bid shall be valid until the; - 11.12.2026

ITB 20.1	a) Bid shall include a Bid Security (issued by bank) included in Section IV Bidding Forms; b) A commercial bank operating in Sri Lanka approved by the Central bank of Sri Lanka. c) A bank based in another country, backed by a commercial bank operating in Sri Lanka and approved by the Central Bank of Sri Lanka.
ITB 20.2	The amount of the Bid Security shall be Rs. 100,000/- The bid security shall be valid until the; 08.01.2027
	D. Submission and Opening of Bids
ITB 22.2 (c)	The inner and outer envelopes shall bear the following identification marks: Procurement of Materials, Installation & Commissioning of Elephant Electric Power Fence around Maduruoya Coconut Genetic Resources Centre Contract No. CRI/2026/NCB/77
ITB 23.1	For bid submission purposes, the Employer's address is: Attention: Director, Address: Coconut Research Institute, Bandirippuwa Research Centre, Lunuwila. The deadline for the submission of bids is: 25.09.2026 Time: 13.00 hrs Bid Box: Establishment Unit (Admin) of the CRI Lunuwila
	E. Evaluation and Comparison of Bids
ITB 35.3(d)	The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: (a) Deviation in Delivery schedule: Option 1 is selected and the adjustment is: 0% (b) Deviation in payment schedule: No Deviation (c) the cost of major replacement components, mandatory spare parts, and service: No such adjustments
ITB 35.4	The following factors and methodology will be used for evaluation: The contract to be awarded to the lowest evaluated responsive bid Bids with following deviations shall be considered as non-responsive in the evaluation 1. Bids which do not quote for all equipment and items 2. non-submission of bid security 3. insufficient bid security

	4. failure to provide sufficient validity period of the bid 5. unsigned bid or not signed by an authorized person/s 6. eligibility requirements 7. failure to bid on specified documents 8. bidder requires price fluctuations whereas bidding document specified otherwise 9. deviation from bid documents which affect the bid price but cannot be given monetary value 10. departure from technical specifications of critical nature 11. absence of documents intended to substantiate the legitimacy of the bid (i.e. that the Bid is not a 'speculative', exploratory' or 'wait -and-see Bid) or proof of reliability of the equipment/ items offered 12. conditional Bids, that is, subject to prior sale, availability of components in the market 13. unacceptable technical features 14.bids which do not responsive to critical, technical or commercial requirements in the bidding documents
ITB 35.5	Bidder Shall quote for all the equipment, items & works
Engineer of the Contract – Eng. D.C Weerathunga, R.P.M Office, System B, Welikanda.	

1. Evaluation Criteria (ITB 35.3 (d))

The Employer's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB Clause 14, one or more of the following factors as specified in ITB Sub-Clause 35.3(d) and in BDS referring to ITB 35.3(d), using the following criteria and methodologies.

(a) Delivery schedule²⁷

Option 1

The Goods specified in the List of Goods are required to be delivered within the acceptable time range (after the earliest and before the final date, both dates inclusive) specified in Section VI, Delivery Schedule. No credit will be given to deliveries before the earliest date, and bids offering delivery after the final date shall be treated as non-responsive. Within this acceptable period, an adjustment, as specified in BDS Sub-Clause 35.3(d), will be added, for evaluation purposes only, to the bid price of bids offering deliveries later than the "Earliest Delivery Date" specified in Section VI, Delivery Schedule.

Option 2

The goods covered under this invitation are required to be delivered within an acceptable range of weeks specified in the Schedule of Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as nonresponsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added for evaluation to the bid price of bids offering deliveries later than the earliest delivery period specified in the Schedule of Requirements.

Option 3

The goods covered under this invitation are required to be delivered in partial shipments, as specified in the Schedule of Requirements. Bids offering deliveries earlier or later than the specified deliveries will be adjusted in the evaluation by adding to the bid price a factor equal to a percentage, specified in the Bid Data Sheet, of price per week of variation from the specified delivery schedule.

(b) Deviation in payment schedule. [insert one of the following]

- (i) Bidders shall state their bid price for the payment schedule outlined in the Contract Data. Bids shall be evaluated on the basis of this base price. Bidders are, however, permitted to state an alternative payment schedule and indicate the reduction in bid price they wish to offer for such alternative payment schedule. The Employer may consider the alternative payment schedule and the reduced bid price offered by the Bidder selected on the basis of the base price for the payment schedule outlined in the Contract Data.

Or

- (ii) The Contract Data stipulate the payment schedule specified by the Employer. If a bid deviates from the schedule and if such deviation is considered acceptable to the Employer, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared with those stipulated in the Contract Data, at the rate per annum specified in BDS Sub-Clause 35.3 (d).

- (c) Cost of major replacement components, mandatory spare parts, and service. [insert one of the following]
 - (i) The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the BDS Sub-Clause 17.3, is in the List of Goods. An adjustment equal to the total cost of these items, at the unit prices quoted in each bid, shall be added to the bid price, for evaluation purposes only. Add quantities
- or
- (ii) The Employer will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the BDS Sub-Clause 17.3. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the bid price, for evaluation purposes only.
- (d) Specific additional criteria Other specific additional criteria to be considered in the evaluation, and the evaluation method shall be detailed in BDS Sub-Clause 35.3(d)]

2. Evaluation Criteria (ITB 35.4)

(described the methodology)

3. Post qualification Requirements (ITB 37.2)

After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 36.1, the Employer shall carry out the post qualification of the Bidder in accordance with ITB Clause 37, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

(a) Financial Capability

The Bidder shall furnish documentary evidence that it meets the following financial requirement(s):

- (i) Availability of bank credit or liquid assets for at least **SLR 3.0 million**

(b) Experience and Technical Capacity

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

- (i) The bidder shall be a Manufacturer or an authorized representative of a manufacturer who has designed, manufactured, tested and supplied Equipment and Items involve in Construction and maintenance of Electric Power Fences, within past 5 years. Those Equipment and Items shall be in successful operation for last 2 years, as on the date of bidding. (Attach proofs)
- (ii) Bidder shall furnish information on past five (05) year's performance and successful operation of items/ equipment for past 2 years
- (iii) Bidder shall furnish documentary evidence (clients' certificates) in support of satisfactory performance and operation specified above

- (iv) The bidder shall furnish the required details for the maintenance of supplied equipment and items for a period of three years
- (v) The bidder shall furnish the evidence of his ability to carry out the maintenance, repairs and supply of spare parts if the Employer is so required.

4. Domestic Preference (ITB 34.1)

If the Bidding Data Sheet so specifies, the Employer will grant a margin of preference to goods manufactured in Sri Lanka for the purpose of bid comparison, in accordance with the procedures outlined in subsequent paragraphs.

Bids will be classified in one of three groups, as follows:

- (a) Group A: Bids offering goods manufactured in Sri Lanka, for which (i) labor, raw materials, and components from within Sri Lanka account for more than thirty (30) percent of the price quoted; and (ii) the production facility in which they will be manufactured or assembled has been engaged in manufacturing or assembling such goods at least since the date of bid submission.

- (b) Group B: All other bids

All evaluated bids in each group will then be compared to determine the lowest evaluated bid of each group. Such lowest evaluated bids shall be compared with each other and if as a result of this comparison a bid from Group A, it shall be selected for the award.

If, as a result of the preceding comparison, the lowest evaluated bid is from Group B, all Group B bids will then be further compared with the lowest evaluated bid from Group A, after adding to the evaluated bid price of goods offered in the bid for Group B

PRICE SCHEDULE

1	2	3	
Line Item No.	Description of Goods or Related Services	Unit	Qty
1	Energizer (with complete set of spares. See No:02 of spec) 15J	Nos.	1
2	Solar array 135 A with Galvanized array frame kit	Nos.	1
3	Charge controller	Nos.	1
4	Fence cut-out switch	Nos.	1
5	Spring gates	Nos.	1
6	Flood gate controller with all equipment	Nos.	1
7	Joints Clamp	Nos.	1310
8	Fence Tension Spring	Nos.	61
9	Wire tighteners	Nos.	77
10	2.5mm lead out cable	m	565
11	Porcelain reel insulator with anchor clip (short)	Nos.	780
12	anchor clip (short)	Nos.	780
13	Porcelain bull nose strain insulator	Nos.	480

1	2	3	
Line-Item No.	Description of Goods or Related Services	Unit	Qty
14	Lightning Diverter	Nos.	1
15	Digital volt meter	Nos.	1
16	Wire tightener handle	Nos.	1
17	Wire cutting plier	Nos.	1
18	Spanner	Nos.	1
19	Wire dispenser	Nos.	1
20	2.5mm High Tensile heavy galvanized wires	m	25,000
21	12V 90 Ah Batteries	Nos.	1

22	Battery inter connector set	Set.	1
25	Anchor clips for earth wire	Nos.	255
26	2.5mm 2 core flexible Wire	m	20
27	Galvanized earth stakes with clamps	Nos.	28
28	PVC Pipes (1/2")	m	132
1	2	3	
Line-Item No.	Description of Goods or Related Services	Unit	Qty
29	PVC bends (1/2")	Nos.	44
30	Fence warning signs	Nos.	25
31	3'-6" Iron bracket with 1/2" dia. 8" nut & bolt with 1/2" dia. 02 washers	Nos.	780
32	3'-0" Iron bracket with 1/2" dia. 8" nut & bolt with 1/2" dia. 02 washers	Nos.	255
33	Line Post (GI) (9'×3")	Nos	195
34	Coner Post (Timber -9")	Nos.	60
35	Support Post (Timber – 10")	Nos.	60
36	GI Net (8' x 2')	Nos.	260
37	Energizer Hut Box	Nos.	1
38	Light Jungle Cleaning	Item	455,541,21
39	Unskilled Labour for Construction of Electric Fence	Days	60
40	Post Concreting	Item	266,715.00

Section V. Schedule of Requirements

Contents

1. List of Goods and Delivery Schedule
2. List of Related Services and Completion Schedule
3. Technical Specifications
4.. Drawings
5. Inspections and Tests

1. List of Goods and Delivery Schedule

[The Employer shall fill in this table, with the exception of the column “Bidder’s offered Delivery date” to be filled by the Bidder]

Line-Item N°	Description of Goods	unit	Quantity	Final (Project Site) Destination as specified in BDS	Delivery Date ¹		
					Earliest Delivery Date	Latest Delivery Date	Bidder’s offered Delivery date [to be provided by the bidder]
[insert item No]	[insert description of Goods]	[insert quantity of item to be supplied]	[insert unit for the quantity]	[insert place of Delivery]	[insert the number of days following the date of effectiveness the Contract]	[insert the number of days following the date of effectiveness the Contract]	[insert the number of days following the date of effectiveness the Contract]
1	Energizer (with complete set of spares. See No:02 of spec) 15J	Nos.	1	Maduruoya Coconut Genetic Resources Centre.	7 days	56 days	
2	Solar array 135 A with Galvanized array frame kit	Nos.	1		do	do	
3	Charge controller	Nos.	1		do	do	
4	Fence cut-out switch	Nos.	1		do	do	
5	Spring gates	Nos.	1		do	do	
6	Flood gate controller with all equipments	Nos.	1		do	do	
7	Joints Clamps	Nos.	1310		do	do	
8	Fence Tension Spring	Nos.	61		do	do	
9	Wire tighteners	Nos.	77		do	do	
10	2.5mm lead out cable	m	565		do	do	
11	Porcelain reel insulator with anchor clip (short)	Nos.	780		do	do	
12	anchor clip (short)	Nos.	780		do	do	
13	Porcelain bull nose strain insulator	Nos.	480		do	do	
14	Lightning Diverter	Nos.	1		do	do	
15	Digital volt meter	Nos.	1		do	do	
16	Wire tightner handle	Nos.	1		do	do	
17	Wire cutting pliers	Nos.	1		do	do	
18	Spanner	Nos.	1		do	do	
19	Wire dispenser	Nos.	1		do	do	
20	2.5mm High Tensile heavy galvanized wires	m	25,000		do	do	

Line Item N°	Description of Goods	unit	Quantity	Final (Project Site) Destination as specified in BDS	Delivery Date ¹		
					Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
21	12V 90 Ah Batteries	Nos.	1	Maduruoya Coconut Genetic Resources Centre	7 days	56 days	
22	Battery inter connector set	Set.	1		do	do	
23	Anchor clips for earth wire	Nos.	255		do	do	
24	2.5mm 2 core flexible Wire	m	20		do	do	
25	Galvanized earth stakes with clamps	Nos.	28		do	do	
26	PVC Pipes (1/2")	m	132		do	do	
27	PVC bends (1/2")	Nos.	44		do	do	
28	Fence warning signs	Nos.	25		do	do	
29	3'-6" Iron bracket with 1/2" dia. 8" nut & bolt with 1/2" dia. 02 washers	Nos.	780		do	do	
30	3'-0" Iron bracket with 1/2" dia. 8" nut & bolt with 1/2" dia. 02 washers	Nos.	255		do	do	
31	Line Post (GI) (9'×3")	Nos.	195		do	do	
32	Coner Post (Timber -9")	Nos.	60		do	do	
33	Support Post (Timber – 10")	Nos.	60		do	do	
34	GI Net (8' x 2')	Nos.	260		do	do	
35	Energizer Hut Box m	Nos.	1		do	do	

Signature with company Seal

Date

3. Technical Specifications

SPECIFICATION FOR ELECTRIC FENCE ITEMS

A. GENERAL

A.1. Climate Condition

The elements shall operate satisfactory in tropical condition to withstand temperature in the range of 20°C to 40°C and relative humidity variations of 60% to 95%.

A.2. Standard Specifications and Legal Requirements

The equipment and the items shall meet the requirements of relevant British, European, U.S. or Australian, or equivalent standard of specifications for this class of industrial/commercial equipment. The components should limit the current itself to a safe minimum value specified by appropriate IEE regulations.

A.3. Departure from Specifications

The tenderer is required to quote for the materials, items and equipment which satisfy the approved standards, specifications and legal requirements.

The system components, equipment and modules shall be compatible and preferably manufactured by the same manufacturer in order to maintain a high-quality system integrity. in case of the equipment offered deviates from technical specifications such deviations should be clearly stated.

A.4. Information to be supply with the tender

A.4.1. Two complete copies of manufactures technical specifications for the equipment (Where necessary) and system offered with detailed drawings.

A.4.2. compliance certificate against requirements of these specifications. Details of any non-conformity to specifications

A.5. Installation Procedure

A.5.1 The selected bidder should be carried out installation of electric fence with above equipment according to all the details given by attached drawing in Section V and acceptable environmental standards.

Technical Compliance

Item No. 1-Energizer	
Specifications	Tenderer's Comparative Specifications
1.1. Energizer shall be manufactured to IEC 60335-2-76 (1999-06) International Electromechanical Commission standard for current limited electric fence Energizers. 1.2. Energizer shall be operated on solar with 12 Volts DC battery power as well as 230 volts 50 Hz AC Mains Power. Should be able to configure so that it works as a main powered, mains powered with battery backup or battery only. 1.3. Energizer should have replaceable modules for easy servicing and the unit must incorporate advance lightning protection to protect its circuit from surges in the main line (230 Volts.) 1.4. The peak energizer stored energy should be minimum 15 joules. 1.5. Energizer shall deliver a wider pulse (width) which renders a better shock than a narrow peak type of wave shape (manufactures test certificates should be attached to the bid documents) 1.6. Input current drain shall not exceed 1.5 Amps and shall reduce at lighter loads. (i.e. resistance above 300 ohms) to save battery power. 1.7. The adaptive control system shall ensure that the light fence load. The current consumption of the unit is reduced to save battery power. 1.8. The energizer shall incorporate internal adaptive control, to maintain effective deferent pulses increasing its output automatically when the fence is overloaded with vegetation, short circuit ect. 1.9. The energizer should have a minimum of 6.5 Jules at 500 ohms load resistance. 1.10. A digital readout display built into the unit for fence operation and diagnostics shall include the following. 1.10.1 Stored Energy in joules showing how much loading there is on the fence and how hard the unit is working. 1.10.2 Output voltage readout at the energizer. 1.10.3 Earth reference voltage readout to monitor the ongoing quality of the earthling system. 1.10.4 An alarm relay that is activate when the fence voltage has fallen below a preset level and if the earth voltage has risen above a present level. 1.10.5 Whether the energizer operates from main or battery power. 1.10.6 Low battery 1.10.7 Stand by or normal operation 1.10.8 Self diagnostics should detect following; i. Energizer failure ii. Reversal of fence and earth iii. Greater than 1kV earth Voltage iv. Non-connection of reference earth	

Item No. 1-Energizer	
1.11. The energizer system shall incorporate a remote-control unit that can be used to turn the fence energizer OFF or ON out in the field by touching the remote onto the electric fence wire, anywhere the fence is powered	
1.12. Manufacturer's test certificates should be provided to prove all above conditions.	
1.13. Solar power system Energizer shall charge with a Solar array of 12V with 7.5 Amp. peak current	

Item No. 2 – Solar Array with Frame kits	
Specifications	Tenderer's Comparative Specifications
2.1 Shall be made of 1" x 1"x ½" hot dipped galvanized Angle Iron to mount solar Modules.	
2.2 All fixing nuts and bolts shall be provided	
2.3 The solar Array of 12V with 7.5 Amp. peak current which suit to the Energizer in Item No. 1	

Item No. 3 – Charge Controller(Solar controller)	
Specifications	Tenderer's Comparative Specifications
3.1 Solar controller shall be capable of handling 10Amperes at 12 Volts	
3.2 Solar controller shall have battery deep discharging protection	
3.3 Shall be able to protect lead against short circuit conditions.	
3.4 Visual charge indicators and battery voltage check indicators.	
3.5 Shall have manual boost charging facility.	
3.6 Shall have reserve polarity protection.	

Item No. 4– Fence Cut-Out Switch	
Specifications	Tenderer's Comparative Specifications
4.1. Cutout switches should be designed to isolate fence voltage from 1-15 kV.	
4.2. Shall have highly visible ON/OFF positions.	

Item No. 4– Fence Cut-Out Switch	
4.3. Shall have protected contacts to eliminate shocks.	
4.4. Shall be fully sealed, weather proof, dirt and insect resistant	

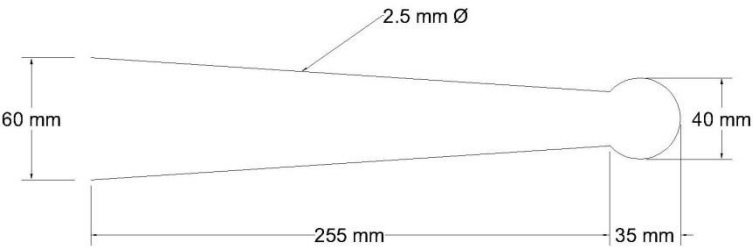
Item No. 5- Spring Gate	
Specifications	Tenderer's Comparative Specifications
5.1. The gate shall have clearly visible insulated handle for the safety operation. The gate shall be able to use up to different sizes of gate spans without over stretching.	

Item No. 6 Flood Gate Controller	
Specifications	Tenderer's Comparative Specifications
6.1 Flood Gate Controller should reduce/ prevent energy discharge to the ground (through water) during flood by shutting off the flood gates automatically.	

Item No. 7- Wire joint clamps	
Specifications	Tenderer's Comparative Specifications
7.1 This must be heavily galvanized to ensure good conductivity at the wire joints.	

Item No. 8 & 9- Fence Wire Tension Spring & Wire Tightner	
Specifications	Tenderer's Comparative Specifications
9.1. This unit should be able to maintain the constant tension throughout the fence and adjust when required.	

Item No. 10- 2.5mm Lead out cable (real type)	
Specifications	Tenderer's Comparative Specifications
10.1. These Cable shall be 2.5mm in diameter and insulated with 2 layers of PVC sheath.	

Item No. 10- 2.5mm Lead out cable (real type)	
Item No. 11- Porcelain Reel Insulator with Anchor Clip	
Specifications	Tenderer's Comparative Specifications
11.1 Line insulator (reel type) should be made from high quality porcelain and must be complete with galvanized anchor clip to pin through the fence and to be reverted from the back of the post. 11.2 Insulation strength of the insulators shall be designed to prevent fence voltage leak into the fence post or ground during normal and adverse weather conditions. 	

Item No. 12- Porcelain Bull Nose Strain Insulator	
Specifications	Tenderer's Comparative Specifications
12.1. Strainer insulators should be made from high quality porcelain and shall be able to tension the fence wires above 200 kg. 12.2. Insulation strength of the insulators shall be designed to prevent fence voltage leak into the fence post or ground during normal and adverse weather conditions.	

Item No. 13– Lightning Diverter	
Specifications	Tenderer's Comparative Specifications
13.1. This unit should be able to prevent the damage to the fence energizer for any direct and indirect lightning strikes on the fence wires. 13.2. Earth resistance of diverter earth system should be less than 5 Ohms. 13.3. Should be adjustable (manually at site) to suit any fence voltage.	

Item No. 14- Digital Volt Meter(volt meter and current meter mode)	
Specifications	Tenderer's Comparative Specifications
14.1. Should be specially made for electrical fencing applications. 14.2. Should be able to display fence Voltages 0.2 kV to 12 kV. 14.3. Should display in increments of 100V under 10kV and 1000V from 10kV to 12kV. 14.4. Should only get activated when fence pulse is detected. 14.5. Should operate from a 9-volt battery and should show low battery condition on display. 14.6. Should be water resistant. 14.7. Shall facilitate locating of faults by showing the direction of fault.	

Item No. 15 Wire Tightner Handle	
Specifications	Tenderer's Comparative Specifications
15.1 This unit should be able to adjust the wire tension by tightening or loosening the wire tightner and should be made from steel.	

Item No. 16 Wire Cutting Pliers	
Specifications	Tenderer's Comparative Specifications
16.1. This should be able to use for heavy duty work and be able to cut high tensile wires from gauges 10-15. 16.2. These pliers should have a good grip and also assist in holding the wire during the straining process. 16.3. Should be specially made for fencing application.	

Item No. 17 Spanners	
Specifications	Tenderer's Comparative Specifications
17.1. This should be able to tighten or loosen the joint clamps, earth clamps ect. size should be 6 inches.	

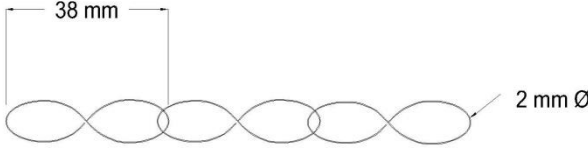
Item No. 18 – Wire Dispenser	
Specifications	Tenderer's Comparative Specifications
18.1 Wire Dispenser shall suit to work with the relevant items.	

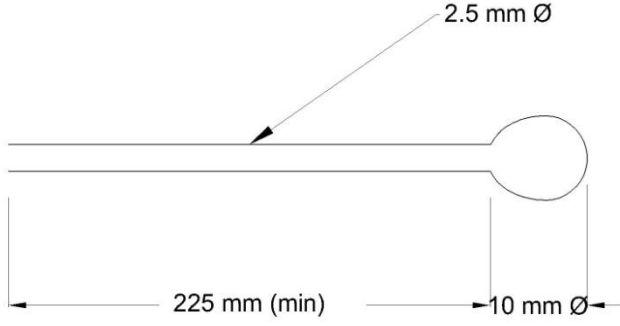
Item No. 19-Fence Voltage Alarm with Siren and Flash Light	
Specifications	Tenderer's Comparative Specifications
19.1. Shall consist of alarm controller siren light. 19.2. Shall have simple and easy connection to energizer 19.3. Alarm controller shall provide at least 3 relay outputs, which shall alarm under the following conditions 26.3.1 If energizer output voltage falls below a pre-set level. 26.3.2 If earth voltage rises above a pre-set level 26.3.3 If fence voltage falls below a pre-set level (If the fence is configured with a return wire). 19.4. Above alarm conditions should trigger the warning siren light. 19.5. The light should be able to be mounted outside the control room at a high elevation to be seen from a distance	

Item No. 20 -High tensile galvanized Wire	
Specifications	Tenderer's Comparative Specifications
20.1. Heavy galvanized steel not less than 2.5 mm in diameter. 20.2. Minimum requirement of the Zinc coating shall be 260g/m ² 20.3. Minimum tensile strength shall be 1200 MPa and minimum breaking strength 600 kg. 20.4. Resistance shall not be exceed 35 ohms/km at 20 0C	

Item No. 21 – 12 V 90 AH Battery	
Specifications	Tenderer's Comparative Specifications
21.1. 12 Volts 90 Amp hours Lead Acid batteries shall be provided.	

Item No. 22- Battery inter connector	
Specifications	Tenderer's Comparative Specifications
22.1. Battery inter connectors should be able to connect the above battery terminals.	

Item No. 23 Chain Links for Flood Gates	
Specifications	Tenderer's Comparative Specifications
23.1. 2.5mm (diameter) galvanized chain links should be provided. Please refer diagram. 	

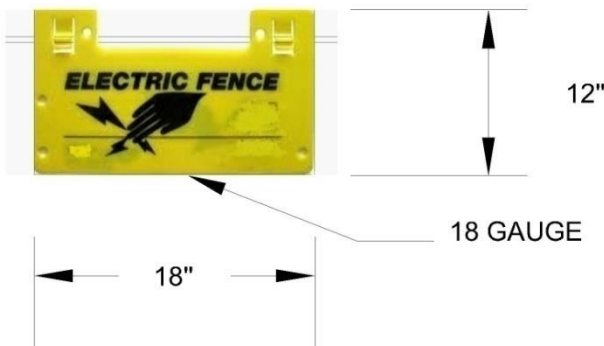
Item No. 24-Anchor clips for Earth Wire	
Specifications	Tenderer's Comparative Specifications
24.1. Galvanized clip should be provided for every attachment of 2.5mm fence wire to the concrete/ timber post. 	

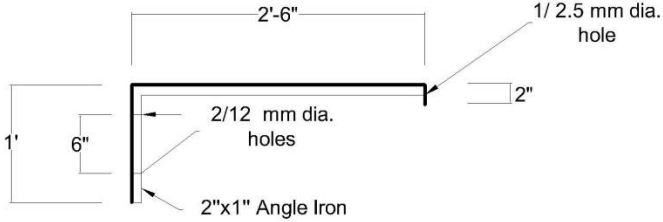
Item No. 25 –2.5 mm ² , 2-core flexible cable	
Specifications	Tenderer's Comparative Specifications
25.1. A cross section of 2.5 mm ² PVC insulated 2 core cable with PVC sheath	

Item No. 26-galvanized Earth stakes and clamps	
Specifications	Tenderer's Comparative Specifications
26.1. 50mm Diameter GI pipes with 2 meters length should be provided.	
26.2. Galvanized earth clamps should be used to connect the earth wire to the 50mm GI Earth Stake.	

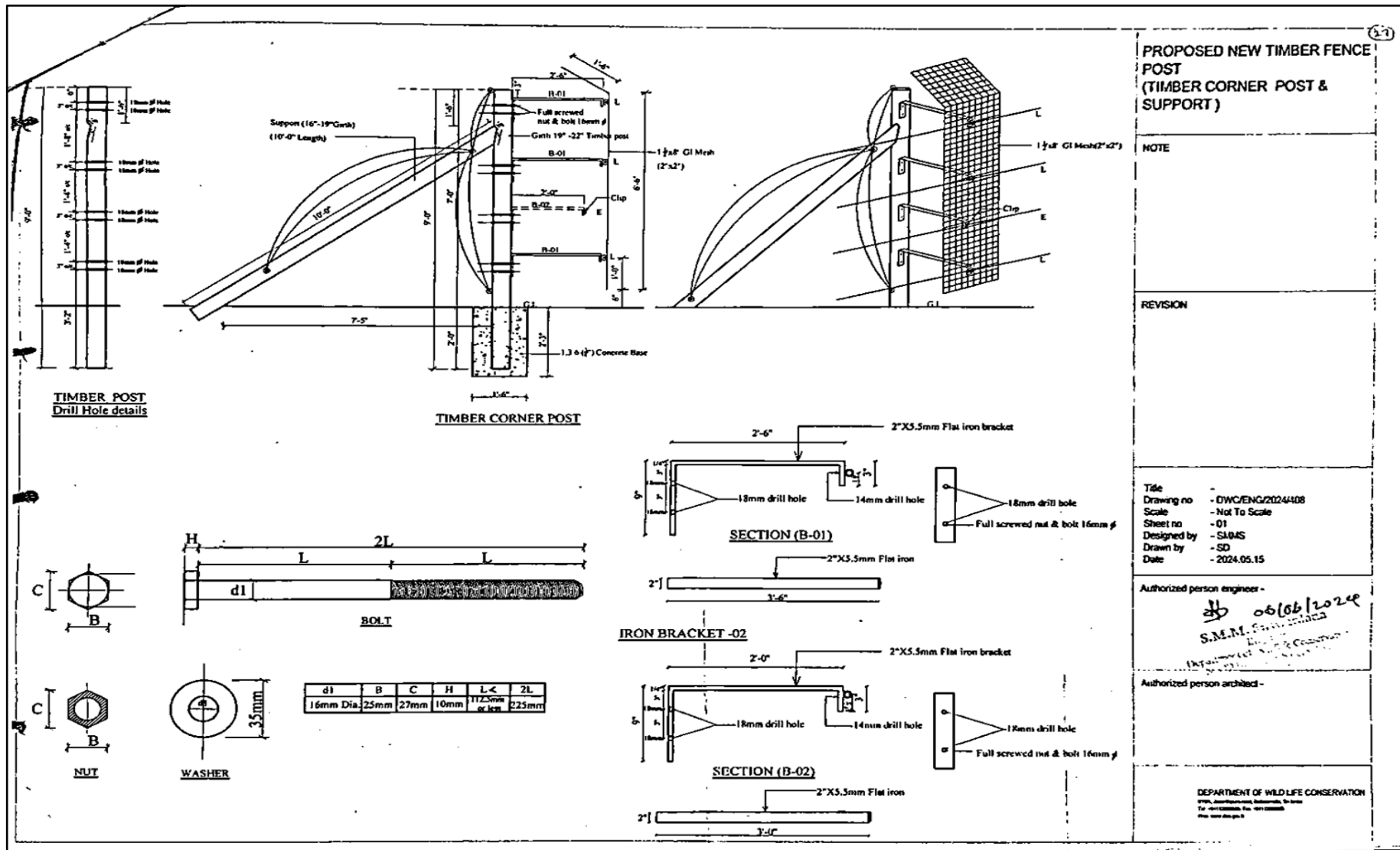
Item No. 27 – 1/2” diameter PVC pipes	
Specifications	Tenderer's Comparative Specifications
27.1. Shall be SLS certified PVC pipes of 20mm diameter suitable for underground cable laying.	
27.2. Shall provide the thickness of the pipe.	

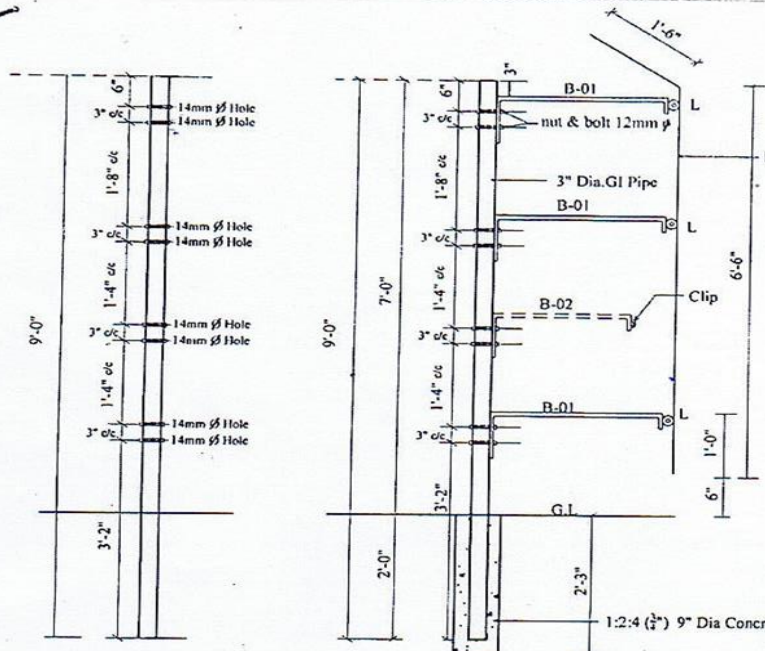
Item No. 28- 1/2”diameter PVC pipe Bends	
Specifications	Tenderer's Comparative Specifications
28.1. Shall be SLS certified PVC pipe bend of 20mm diameter	
28.2. Shall be suitable for PVC pipes in Item No. 27	

Item No. 29 – Warning Sign Board	
Specifications	Tenderer's Comparative Specifications
Warning Sign Board shall be capable to fix with high tensile wire. 	

Item No. 30 – 2'6'' Iron Bracket	
Specifications	Tenderer's Comparative Specifications
30.1 Iron Bracket shall be as shown in the following sketch.  2'-6" 1/ 2.5 mm dia. hole 2" 2/12 mm dia. holes 2"x1" Angle Iron 1' 6"	

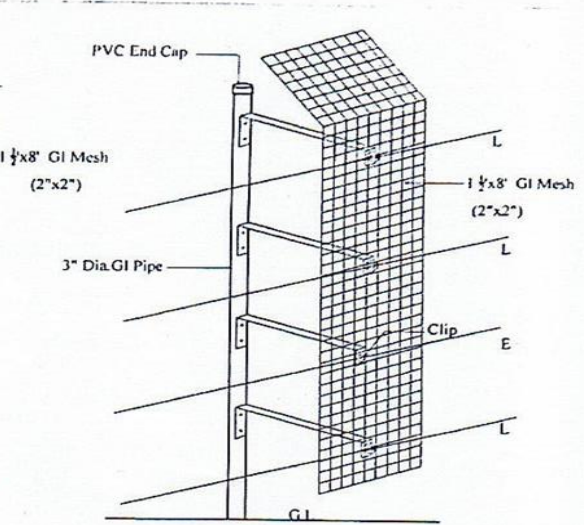
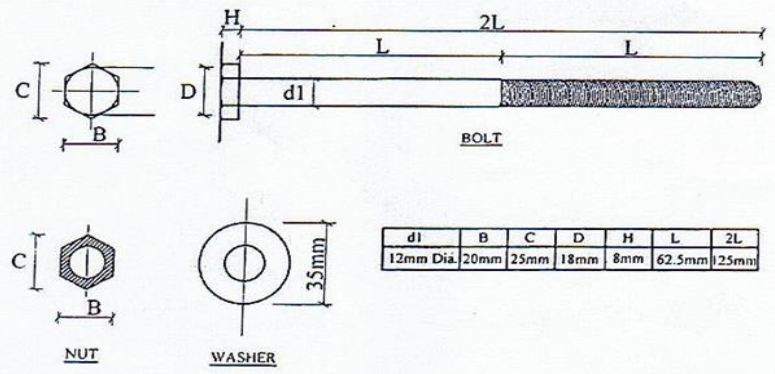
- 4.





3"Dia. GI PIPE POST
(Drill Hole details)

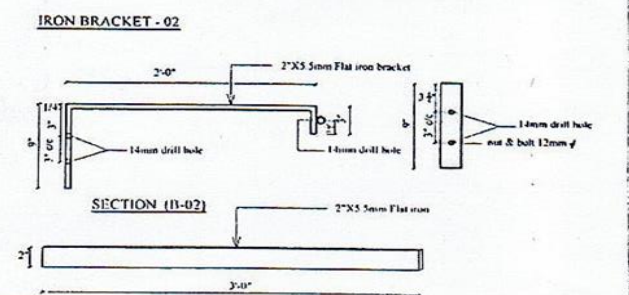
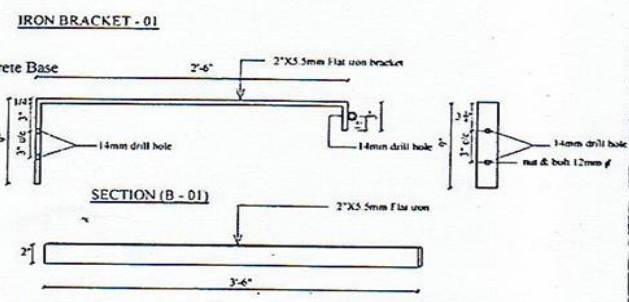
3"Dia. GI PIPE LINE POST



PROPOSED NEW FENCE POST
(3" Dia. GI PIPE LINE POST)

NOTE
3" Dia GI Post
14mm hole
Drilling Hole should be pass through the diameter

REVISION



Title
Drawing no - DW/ENG/2024/03
Scale - Not To Scale
Sheet no - 02
Designed by - SM&S
Drawn by - SD
Date - 2024.05.15

Authorized person engineer -
[Signature] 0610612024

Authorized person architect -

DEPARTMENT OF WILD LIFE CONSERVATION
A-1/16, Ashokpuri Phase II, New Delhi-110028
Tel: 011-26109405 Fax: 011-26109355
Web: www.wildlife.gov.in

5. Inspections and Tests

The following inspections and tests shall be performed:

- *Manufacture's Final Inspection Reports are required for all the items and equipment*
- In the case of High Tensile Galvanized wires (Item No. 02 in schedule of requirements) two samples should be provided by the Bidder for the purpose of testing its properties and qualities in the laboratory of the Industrial Technological Institute (ITI) of Sri Lanka. The cost of the same tests should be borne by the bidder.
- Trial performance or any other tests if so, required by the Engineer of the Contract

Section VII. Contract Data

The following Contract Data shall supplement and / or amend the Conditions of Contract (CC).
Whenever there is a conflict, the provisions herein shall prevail over those in the CC.

CC 1.1(i)	The Employer is: Director, Coconut Research Institute, Bandirippuwa Research Centre, Lunuwila
CC 1.1 (m)	The Project Site/Final Destination is/are: Given in List of Goods and Delivery Schedule
CC 8.1	For notices, the Employer's address shall be: Attention: Director, Address: Coconut Research Institute, Bandirippuwa Research Centre, Lunuwila Telephone: 031-2255300/031-2262000 Fax number: 031-2257391/031-2255583
CC 12.1	Details of Shipping and other Documents to be furnished by the Contractor are. Not applicable
CC 15.1	CC 15.1—The method and conditions of payment to be made to the Contractor under this Contract shall be as follows: Payment for Goods and Services shall be made as follows: (i) (i) Advance Payment: Ten (10) percent of the Contract Price shall be paid within thirty (30) days of signing of the Contract and upon submission of an advance payment guarantee from a commercial bank registered under central bank of Sri Lanka for equivalent amount valid until the contract is completed and in the form provided in the bidding documents or another form acceptable to the Employer.
Payment Method	*The Contract shall be administered on a Measure and Pay basis. The rates and prices entered by the Contractor in the Bill of Quantities (BOQ) shall be deemed to include full compensation for all labor, materials, equipment, plant, transportation, supervision, overheads, profit, taxes, testing, temporary works, environmental protection measures, safety requirements, and all other costs necessary to complete the Works in accordance with the Contract. *Payment shall be made only for the actual quantities of work executed, measured, and certified by the Engineer , in accordance with the approved drawings, technical specifications, and the provisions of the Contract.

	*Quantities stated in the Bill of Quantities are estimated for bidding purposes only and shall not be taken as the actual or final quantities of work to be executed. The Employer reserves the right to increase or decrease any quantity of work as required during the execution of the Contract, without invalidating the Contract. *Interim payments shall be made based on measurements jointly taken by the Engineer and the Contractor and certified through Interim Payment Certificates. Final payment shall be made after completion of the Works, submission of the final statement of account, and certification by the Engineer.
Retention	* The Employer shall retain ten percent (10%) of the amount certified in each Interim Payment Certificate as Retention Money until the total amount retained reaches ten percent (10%) of the Accepted Contract Price. * The Retention Money shall be held by the Employer as security for the Contractor's due performance of the Works and the correction of any defects occurring during the Defects Liability Period. * The entire Retention Money (10% of the Contract Price) shall be released to the Contractor upon the expiry of one (1) year from the date of the Taking-Over Certificate, provided that: 1. The Contractor has satisfactorily completed all Works in accordance with the Contract. 2. All defects identified during the Defects Liability Period have been rectified to the satisfaction of the Engineer. 3. The Contractor has fulfilled all contractual obligations, including submission of required documents, warranties, and as-built drawings. No interest shall be payable by the Employer on the Retention Money held during the retention period.

CC 17.1	A Performance Security shall be required. The amount of the Performance Guarantee shall be 10% of the total contract price. <u>(issued by reputed commercial bank)</u> i. A commercial bank operating in Sri Lanka approved by the Central bank of Sri Lanka. ii. A bank based in another country, backed by a commercial bank operating in Sri Lanka and approved by the Central Bank of Sri Lanka.
CC 25.1	The inspections and tests shall be: Inspection and tests of Goods and final acceptance are as follows: • <i>Manufacture's Final Inspection Reports are required for all the items and equipment (Where Necessary)</i> • In the case of High Tensile Galvanized wires (Item No. 20 in schedule of requirements) two samples should be provided by the Bidder for the purpose of testing its properties and qualities in the laboratory of the Industrial Technological Institute (ITI) of Sri Lanka. The cost of the same tests should be borne by the bidder. • Trial performance or any other tests if so, required by the Engineer of the Contract
CC 26.1	The liquidated damage shall be: Rs.3,500/= per day
CC 26.1	The maximum number of liquidated damages shall be 10 % of contract price