



Letter of Invitation for Bids

Monrovia, Liberia

August 27, 2024

Re: Procurement of Crop Science Laboratory Equipment and Reagents
Ref. No: LIB/IFAD/TCEP I/GC-0026/24-25

1. The Government of Liberia has received financing from the International Fund for Agricultural Development (IFAD) towards the cost of *Tree Crop Extension Project I (TCEP I)* and intends to apply part of the financing for the purchase of these goods. The use of any IFAD financing shall be subject to IFAD's approval, pursuant to the terms and conditions of the financing agreement, as well as IFAD's rules, policies and procedures. IFAD and its officials, agents and employees shall be held harmless from and against all suits, proceedings, claims, demands, losses and liability of any kind or nature brought by any party in connection with *Tree Crop Extension Project I(TCEP I)*
2. The *Tree Crop Extension Project I (TCEP I)* was established to provide incomes and climate change resilience of smallholder cocoa producers particularly women-headed households, youths and FBOs. The project has total beneficiaries of 11,000: 8,000 farmers in kuu/FFS groups, 2,400 additional farm benefit from roads; and 600 youths who will benefit from job creation. The project is expected to end by 2025.
3. The purchaser now invites sealed bids from eligible entities ("bidders") for the provision of *Crop Science Laboratory Equipment and Reagents*. More details on these goods and related services are provided in the schedule of requirements in this bidding document.

Crop Science Laboratory Equipment and Reagents			
No	Item/equipment	Qty	Unit
1	Laminar flow cabinet	2	set
2	Portable plant nutrition teater	1	set

3	Plant Culm Strength Meter	1	set
4	Digital Leaf Area Meter	1	set
5	Photosynthesis meter	2	set
6	Chlorophyll meter	1	set
7	Refractometer Plant Growth Chamber	2	pc
8	Biosafety cabinet	2	set
9	Compound microscope (binocular)	3	set
10	Dissecting / stereo microscope	1	set
11	Refractometer	2	unit
12	Moisture meter (Portable Wheat Maize Paddy Moisture Meter)	1	unit
13	Drying oven ofr Easily Oxidized Substances	1	unit

14	Freeze dryer	2	unit
15	Lab water distiller	1	set
16	Demineralizer plant	1	set
17	UV/VIS Spectrophotometer	1	unit
18	EC meter	2	set
19	Centrifuge	4	unit
20	Refrigerator	2	unit
21	pH meter	1	unit
22	Deep freezer	1	unit
23	Autoclave	1	piece
24	Digital bacteriological and cell culture incubator	1	unit
25	CO2 incubator for anaerobic cell and tissue culture	1	

26	Drying & sterilizing oven	2	
27	Measuring cylinder	20	piece
30	Geno grinder/tissue lyser	1	pc
31	Homogenizer	1	
32	semi-micro balance	2	pc
33	Multifunctional precision balance	2	set
34	Thermostatic water-bath/circulator	2	PC
35	Micropipettes	3	PC
36		3	PC
37		3	PC
38		3	PC
39	Stand for pipettes	3	set
40	Stirrer Hotplate, circular	1	set
41	Microscope slide box	2	pc
42	Dissecting instruments kit	2	set
43	Anaerobic jar	2	pc
44	Colony counter	1	set
45	Mortar and pestle	2	pc

47	Bunsen Burner	2	pc
Supplies / Reagents			
48	Pipette tips	1	pack of 1000
49	Pipette tips	1	pack of 1000
50	Pipette	1	pack of 960
51	Pipette	1	pack of 960
52	Couvettes	2	packs of 500
53	Acetic acid	5	L
54	Hydrochloric acid	10	litres
55	Nitric acid	5	L
56	Ascorbic acid	100	g
57	Perchloric acid	4	L
58	Ammonium hydroxide	1	6 x 2.5 ml bottles
59	Ammonium acetate	5	kg
60	Dimethyl sulphoxide (DMSO)	1	4 L bottle
61	Sodium hydroxide	10	kg
62	Calcium chloride (CP)	500	g
63	Sodium chloride (NaCl)	1	1 kg poly bottle
64	EDTA	1	kg
65	Magnesium chloride (CP)	1	kg
66	Polyvinylpyrrolidone (PVP)	1	500 g poly bottle
67	Sodium metabisulfate	1	2.5 kg plastic bottle
68	Potassium chloride (AR)	2	kg
69	Sodium hydroxide (CP)	5	kg
70	Potassium acetate	2	500 g poly bottle
71	Sodium acetate	2	500 g poly bottle
72	Tris-Acetate-EDTA (TAE buffer)	1	4 L poly cube
73	Tris-Borate-EDTA (TBE buffer)	1	4 L poly cube
74	Tris-HCL	1	500 g pk
75	TE (buffer)	2	500 ml Nalgene bottle
76	Agarose gel	1	20 gel pk
77	Polyacrylamide gel	2	200 ml bottle
78	Ammonium persulfate (APS)	1	pack of 4 -25g APS crystals
79	TEMED solution	2	25 ml pk
80	Tris-Cl	1	500 ml bottle
81	Tris buffered saline (TBS)	1	500 ml poly bottle
82	Sodium dodecyl sulfate (SDS)	1	500 g bottle
83	Isoamyl alcohol	1	500 ml glass bottle

84	Absolute ethanol	2	liters
85	Tris Base	1	500 g poly bottle
86	Isopropanol	1	500 ml glass bottle
87	Agar powder	1	2000 g poly pail
88	Ammonium chloride	1	kg
89	Ammonium oxalate (COONH ₂) ₂ .H ₂ O	1	500 g poly bottle
90	Aniline blue (water-soluble) for microscopical staining	1	25 g glass bottle
91	Boric acid	0.5	kg
92	Bromothymol blue	1	500 ml glass bottle
93	Calcium carbonate	5000	g
94	Calcium chloride	1000	g
95	Calcium sulphate precipitated (CaSO ₄ .2H ₂ O)	0.5	kg
96	Congo red	5	25 g glass bottle
97	Copper sulphate, anhydrous (CuSO ₄)	0.5	kg
98	Dipotassium hydrogen orthophosphate heptahydrate, anhydrous (K ₂ HPO ₄)	500	g
99	Ethanol 96% V/V (C ₂ H ₅ OH)	2	L
100	Ethanol 99.7–100% V/V (absolute) (C ₂ H ₅ OH)	0.5	L
101	Ethylenediamine tetraacetic acid (ferric monosodium salt) [(CH ₂ N(CH ₂ .COOH) ₂) ₂ FeNa]	250	g
102	Ferric chloride	1	500 g poly bottle
103	Fuchsin (acid) for microscopical staining	1	25 g glass bottle
104	Fuchsin (basic) for microscopical staining	2	100 g bottles
105	Glucose	2	500 g pk / bottle
106	Iodine resublimed	1	500 g glass bottle
107	Lactophenol	1	pk of 50 ampules (0.75ml each)
108	Magnesium sulphate - dried (MgSO ₄ .H ₂ O)	1	500 g poly bottle
109	Magnesium sulphate heptahydrate - molecular biology grade (MgSO ₄ .7H ₂ O)	1	500 g poly bottle
110	Malic acid	2	500 g plastic bottle
111	Manganese chloride (MnCl ₂ .4H ₂ O)	50	g

112	Mannitol	1	500 g poly bottle
113	Molybdenum trioxide - AR (MoO ₃)	100	g
114	Orthoboric acid powder (H ₃ BO ₃)	1	500 g pk
115	Peptone	2	500 g pk
116	Phenol (redistilled molecular biology grade) (C ₆ H ₅ OH)	1	500 g pk
117	Potassium dihydrogen orthophosphate (KH ₂ PO ₄)	1	500 g pk
118	Potassium hydroxide	1	500 g pk
119	Potassium iodide (KI)	1	500 g pk
120	Potassium sulphate (K ₂ SO ₄)	1	500 g pk
121	Saframin O for microscopical staining	2	25 g amber glass
122	Sodium molybdate	1	500 g glass bottle
123	Yeast extract	1	500 g pk
124	Zinc sulphate (ZnSO ₄ .7H ₂ O)	1	500 g poly bottle
Glassware			
125	Pipette	1	Pack of 500
126	Beaker	2	pcs
127	Beaker	2	pcs
128	Beaker	5	pcs
129	Beaker	1	pk of 12
130	Beaker	1	pk of 12
131	Beaker	1	pk of 12
132	Beaker	1	pk of 12
133	Beaker	1	pk of 12
134	Beaker	1	pk of 12
135	Cylinder, graduated	2	pcs
136	Cylinder, graduated	2	pcs
137	Cylinder, graduated	2	pcs
138	Cylinder, graduated	2	pcs
139	Cylinder, graduated	2	pcs
140	Cylinder, graduated	2	pcs
141	Microscope slide	2	packs of 100
142	Cover-glass	2	packs of 200
143	Cover-glass	2	packs of 200
144	Pipette	1	pack of 5
145	Test-tube	1	Pack of 1000
146	Petri dish	1	pack of 500

147	Petri dish	20	pack of 10
148	Conical flask	50	pc

- 3 This IFB is open to all eligible bidders who wish to respond. Subject to the restrictions noted in the bidding document, eligible entities may associate with other bidders to enhance their capacity to successfully deliver the goods and related services.
4. The goods and related services, and the contract expected to be awarded and is One lot: **Crop Science Laboratory Equipment and Reagents**. Interested bidders may send their expression of interest to evah@moa.gov.lr to obtain a softcopy of the bidding document.
5. Bidding will be conducted using the International Competitive Bidding (ICB) method, the evaluation procedure for which is described in this bidding document, in accordance with the IFAD procurement handbook, which is provided on the IFAD website at www.ifad.org/project-procurement. The ICB process, as described, will include a review and verification of qualifications and past performance, including a reference check, prior to the contract award.
6. Please note that a pre-bid conference **will be** held as described in the bid data sheet BDS, Section II of the bidding document.
7. Bids must be delivered to the address below and in the manner specified in the BDS ITB 25 no later than **October 4, 2024 at 1:00 PM**.
8. Bidders should be aware that late bids will not be accepted under any circumstances and will be returned unopened to the bidder. All bids must be accompanied by a bid security (as required) in the manner and amount specified in the bid data sheet.
9. Please note that electronic bids **shall not be accepted** as defined in ITB BDS 25.

Yours sincerely,

*Attn: Project Coordinator
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