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**ROYAL GOVERNMENT OF BHUTAN**  
**Ministry of Agriculture & Livestock**  
**Tashichhodzong, Thimphu: Bhutan**



MoAL/RNRJobs/Pro-02/2025-26

11<sup>th</sup> March, 2026

**ADDENDUM No.2**

The RNR Jobs Office under the Ministry of Agriculture and Livestock (MoAL) hereby issues an Addendum No.2 to the Request for Bids (RFB) for the *Construction of Propagation House for the Multiplication of Citrus Rootstock, Grafted Seedlings, and Laboratory for Shoot Tip Grafting to Produce Disease-Free Seedlings*, which was published on 24<sup>th</sup> February 2026 on the MoAL website.

Please be informed on the amendment to the Bid as follows:

- (i) Please be informed that the Section I & 3 (Bills of Quantities (BOQ) and Technical Specifications) under Section VII-Works' Requirement is revised as attached.
- (ii) With the revision in BOQ, ITB clauses 22.1 (Bid Submission) and 25.1 (Public Bid Opening) is amended as 16<sup>th</sup> March, 2026 at 10:30AM and opening on the same day at 11:00 PM.

### Bill of Quantities

SN	Item code	Description of Work	Quantity	Unit	Rate in Figure	Rate in Words	Amount
1	EW0046	Earth work in excavation over areas using Excavator, exceeding 300mm in depth, 1.5m in width as well as 10 sq.m in area on plan, including dressing, levelling and disposal of excavated earth, lead up to 50m and lift up to 1.5m	1,082.25	cu.m			
2	EW0106	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift	163.31	cu.m			
3	SM0070	Providing and laying Hammer dressed dry stone soling	206.34	cu.m			
4	CW0005	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level-1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominalsize)	170.56	cu.m			
5	RC0108	Providing & fixing centering and shuttering (formwork) using Shuttering Plywood, including Timber frame and timber strutting, propping with complete form tie system etc. and removal of formwork	141.34	sq.m			
6	SM0005	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth-In cement mortar 1:4 cu.m	251.67				
7	RW0123	Consolidation of sub-grade with roller, and making good the undulation with earth and re-rolling the sub grade	849.35	sq.m			
8	EW0197	Providing & laying dry earth bedding, including consolidating each deposited layer by watering, ramming and dressing	181.67	sq.m			
9	BW0002	Providing & laying Second-Class Brick work in Foundation & Plinth, 250mm, in CM 1:4	33.08	cu.m			

10	BW0021	Providing & laying Second-Class Half-brick Masonry (125 mm) in rsie wall inside greenhouse complete, in cement mortar 1:4	784.98	sq.m			
11	PL0075	Providing & laying cement plaster, finished with floating coat of neat cement-20mm plaster in C.M 1:4	983.02	sq.m			
12	SW0021	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint-In Tees, angles, flats and channels	14,502.10	kg			
13	MR	Providing and fixing of UV stabilized, IR, Anti drip for Multilayer 8mm thick multi wall polycarbonate sheet inculding nuts and bolts with necessary fittings complete	2.00	L/Sum			
14	MR	Providing and fixing silver T profile aluminium polycarbonate dome top bottom complete	2.00	L/Sum			
15	MR	Providing and fixing solenoid/electric valve, 50mm dia , 12V, DC complete	2.00	nos			
16	MR	Providing and fixing filter in complete, 25m3/hrs with fittings	2.00	nos			
17	MR	Providing, fixing, testing and commissioning of Exhaust fan including drawing of 3phase of cable line from nearest point including all fittings complete:- Exhaust fan 48 inch with galvanized body, 1.5Hp motor 3 phase , belt drive with louvers	6.00	nos			
18	MR	Providing, fixing, testing and commissioning of Overhead blower of size 1200X195X220mm with the air speed of 9-11m/s inside Anti-room including cable line from nearest point and all fittings complete.	2.00	nos			
19	MR	Providing, fixing, testing and commissioning of Pump-2HP for Sprinkler Irrigation System and fogger system including all fittings and assasories complete.	2.00	nos			

20	MR	Providing, fixing, testing and commissioning of worldwide smart automation system, for irrigation, exhaust fans, PAR lamps, and pumps, with mobile-app based control and monitoring, including all controllers, sensors, actuators, relays, communication modules, power supply units from the nearest point and associated hardware complete.	2.00	L/Sum			
21	WW0715	Providing, fixing and installation of 2.5-track, UPVC sliding windows including wire mesh, 88mm wide, 5mm clear glass with hardware fittings - EPDM gaskets, U-groove roller, Aluminium track, Fastner nut, interlock, touch lock and wool pile, complete-Plain white window	32.92	sq.m			
22	MR	Providing and fixing of thermal net complete, comprising of of 50% shading installed inside the greenhouse, including side supports, GI/Aluminium clamps, fasteners, ropes/wires and a manual collapsible (retractable) arrangement, complete in all respects as per specifications and site requirements.	831.85	sq.m			
23	MR	Providing, fixing, testing and commissioning of Sprinkler Irrigation System complete, comprising of overhead anti-leak modular sprinklers of discharge 70 LPH / 43 LPH installed at 2.0 m × 2.0 m spacing, including LLDPE laterals of 16 mm diameter, 50 mm HDPE mainline (PN 12.5), PVC/HDPE pipes of required diameters, control valves, end caps, connectors, clamps, risers, fittings, accessories and all necessary components- complete	2.00	L/Sum			
24	MR	Providing, fixing, testing and commissioning of Fogger System complete, comprising of overhead 4-way anti-leak foggers of 28 LPH discharge installed at 2.5 m × 2.5 m spacing, including sub-main pipelines, 16 mm LLDPE laterals, PVC ball valves, connectors, clamps, end caps, fittings, accessories and all other required components-complete	2.00	L/Sum			

25	DR0001	Providing and laying Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth-With 50mm thick cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	220.08	sq.m			
26	DR0011	Constructing second class brick masonry open surface drain in cement mortar 1:4 including earth work in excavation 100 mm thick concrete bed 1:5:10, 40mm aggregate and 25mm thick cement concrete 1:2:4,12 mm aggregate for filling haunches including 12mm cement plastering 1:4 with a floating coat of neat cement and disposal of surplus earth etc. complete-150mm wide x 200mm average depth	203.00	m			
27	RC0083	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	1,255.61	kg			
29	RC0002	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level-1:1.5:3 (1 cement : 1.5 sand : 3 graded crushed rock 20 mm nominal size)	18.00	cu.m			
29		Providing & laying G.I. pipes including G.I. fittings-					
29.a	PO0009	100mm	1.20	m			
29.b	PO0008	80mm	0.60	m			
30	PO0020	Providing & laying H.D.P.E pipes, 10 PN, including H.D.P.E fittings-75mm	30.00	m			
31	PO0109	Providing & fixing brass full way valve with wheel-80mm	2.00	each			
32	M/R	Providing & fixing brass full way valve with wheel-100mm	2.00	each			
33	PO0018	Providing & laying H.D.P.E pipes, 10 PN, including H.D.P.E fittings-50mm, PN 10	400.00	m			

34	OHS001	Incorporation of Occupational Health and Safety measures at construction sites as per the attached requirements list. The standards and specifications for the Insurance, OHS materials and (or) equipment shall be in compliance with the Labour and Employment Act - 2007, Regulation on Occupational Health, Safety and Welfare - 2012, and other relevant national documents. All OHS items will remain as the property of the bidder upon completion of the project.	1.00	L/Sum			
35	OHS002	Providing temporary living accommodation which includes bed room, kitchen, and toilet cum bathroom including proper water supply and electricity as per the drawing and temporary living accommodation standards. The accommodation facilities must be dismantled and cleaned upon the completion of project. All reusable materials of the accommodation facilities will remain as the property of the bidder upon completion of the project.	1.00	L/Sum			
<b>Total Quoted Amount in Figure</b>							
<b>Total Quoted Amount in Words</b>							