

## **REQUEST FOR QUOTATION (RFQ)**

Companies	Date: 30 August 2019
	Reference: RFQ/047/19 – Supply and installation of multi-tired
	hydroponic unit with production capacity of 500 kg green biomass
	per day

Dear Sir / Madam:

We kindly request you to submit your quotation for Supply and Installation of Multi-Tiered Hydroponic Unit, as detailed in Annex 1 of this RFQ. When preparing your quotation, please be guided by the form attached hereto as Annex 2.

Quotations may be submitted on or before 18.00 (GMT 5+), 16 September 2019 and via e-mail, or courier *mail* to the address below:

### **United Nations Development Programme**

4, Taras Shevchenko Street, Tashkent city, 100029, Republic of Uzbekistan Procurement Unit

Electronic version of your quotation must be sent to <u>bids.uz@undp.org<sup>1</sup></u>.

Quotations submitted by email must be limited to a maximum of 5 MB, virus-free and no more than 2 email transmissions. They must be free from any form of virus or corrupted contents, or the quotations shall be rejected.

The following must be on the subject of email with your quotation to be sent to bids.uz@undp.org:

## RFQ/047/19 – Supply and installation of multi-tired hydroponic unit with production capacity of 500 kg green biomass per day<sup>2</sup>

It shall remain your responsibility to ensure that your quotation will reach the address above on or before the deadline. Quotations that are received by UNDP after the deadline indicated above, for whatever reason, shall not be considered for evaluation. If you are submitting your quotation by email, kindly ensure that they are signed and in the .pdf format, and free from any virus or corrupted files.

Please take note of the following requirements and conditions pertaining to the supply of the abovementioned good/service:

<sup>&</sup>lt;sup>1</sup> Quotations submitted to other email accounts will not be accepted and will be declined

<sup>&</sup>lt;sup>2</sup> Email submission that will not contain this subject or without reference to subject tender will not be opened and will be declined 1

Delivery Terms [INCOTERMS 2010]	⊠ DAP Nukus				
Customs clearance, if needed, shall be done by:	⊠ UNDP				
Exact Address of Delivery and Installation Locations	Republic of Karakalpa - 1 set in Kegeyli rep - 1 set Kanlikul regi - 2 sets in Takhtaku	on locations are based in the following regions of the kistan: gion (approx. 115 km. from Nukus city); on (approx. 85 km. from Nukus city); pir region (approx. 120 km. from Nukus city); egion (approx. 210 km. from Nukus city);			
Distribution of shipping documents	Karakalpak Republ Uzbekistan. Goods a waybill (2 originals), ii	uppliers, the cargo shall arrive to Nukus city, ic of Uzbekistan for the name of UNDP CO in re supposed to be exported to the end-user with nvoice (2 originals) and packing list (2 originals), with mation documents if required. In addition, all OTERMS 2010.			
Latest Expected Delivery Date and Time	⊠ 60 calendar days from the issuance of the Purchase Order (PO)				
Delivery and Installation Schedule	⊠ Required				
Mode of Transport	🗵 LAND	⊠ Other			
Preferred	☑ United States Dolla	rs to foreign suppliers;			
Currency of Quotation	🗵 Local Currency: Uzł	pekistan So'm (UZS) to Uzbekistan based Suppliers			
Value Added Tax on Price Quotation	Must be exclusive of VAT and other applicable indirect taxes				
After-sales services required	<ul> <li>Warranty on Parts and Labor for minimum period of 12 months</li> <li>Provision of a Service when pulled out for maintenance/ repair within 12 months</li> </ul>				
Deadline for the Submission of Quotation	16 September 2019, T	ashkent time 18:00 (GMT +5)			
All documentations, including catalogs, instructions and operating manuals, shall be	<ul> <li>☑ English and/or</li> <li>☑ Russian</li> <li>Bids and supporting</li> </ul>	g documents in other than English or Russian			
in this language		translated into above either language version.			

List of mandatory documents to be submitted by Offeror's together with their Quotations by the deadline set above	<ul> <li>Duly Accomplished Form as provided in Part 1 of Annex 2, and in accordance with the list of technical requirements in Annex 1</li> <li>Declaration of owners' interest in other companies using form provided in Part 2 of Annex 2</li> <li>Company's profile with detailed information (name of the company, address, contact details etc.) using form provided in Part 3 of Annex 2</li> <li>Contact details (email, telephone, website) of clients whom the bidder supplied Multi-Tiered Hydroponic Unit in the last 3 years. At least 2 contracts for supply of Multi-Tiered Hydroponic Unit is must using form</li> </ul>
	provided in Part 4 of Annex 2 ⊠ A statement whether any import or export licenses are required in respect of the goods to be purchased including any restrictions on the country of origin, use/dual use nature of goods or services, including and disposition to end users <sup>3</sup>
	Manufacturer's Authorization Letter issued in favour of the bidder allowing selling their product to UNDP (if Supplier is not the manufacturer). The same document must demonstrate that the manufacturer takes an obligation to reserve required quantity of goods offered by the bidder for the tender should the bidder selected
	<ul> <li>Verified copy of the latest valid business registration certificate of the Offeror's company<sup>4</sup></li> <li>Quality Certificates (ISO, etc.), Catalogue with details description of</li> </ul>
	offered product with pictures I Written Self-Declaration of not being included in the UN Security Council
	1267/1989 list, UN Procurement Division list or other UN Ineligibility List
List of documents to be requested by UNDP additionally from the three	<ul> <li>(a) Verified by third party (tax agency or other authorized body) copy of Financial Reports for the last two years</li> <li>OR</li> </ul>
lowest priced bid Offerors <sup>5</sup>	(b) a bank statement from Offeror's bank, issued not less than 30 days prior the bid submission or quotation date, that Offeror has available or

	has access to liquid assets (asset that can be readily converted to cash), to meet the obligations/supply cash flow for the contract of not less than Offeror's bid value.
Period of Validity of Quotes starting the Submission Date	$\boxtimes$ 60 calendar days after deadline for submission of quotation In exceptional circumstances, UNDP may request the Vendor to extend the validity of the Quotation beyond what has been initially indicated in this RFQ. The Proposal shall then confirm the extension in writing, without any modification whatsoever on the Quotation.
Partial Quotes	☑ Partial quotes are not allowed.

<sup>&</sup>lt;sup>3</sup> Mandatory for the supply of imported goods

<sup>&</sup>lt;sup>4</sup> Verified by the signature of the authorized Offeror's representative and Offeror's company stamp/seal

<sup>&</sup>lt;sup>5</sup> Non-provision of any of additionally requested documents provided in this section will serve as a ground for disqualification of the Offer

To Local Supplier (Company registered in Uzbekistan):
$\boxtimes$ 15% advance payment and 85% final payment will be paid in Uzbek
Soums (UZS) by bank transfer to the Supplier's account after delivery and acceptance of goods;
To Foreign Suppliers (Company registered outside Uzbekistan):
☑ 100% payment will be by bank transfer to the Supplier's account after
delivery and acceptance of goods. Advance payment up to a maximum of
15% of contract value can be allowed against the Advanced Payment
Guarantee from reputable bank. A Bank Guarantee in the full amount of
the advance payment should be in the form available at
https://popp.undp.org/ layouts/15/WopiFrame.aspx?sourcedoc=/UNDP_P OPP_DOC
UMENT_LIBRARY/Public/PSU_Contract%20Management%20Payment
%20and%20
Taxes_Advanced%20Payment%20Guarantee%20Form.docx&action=defau
<u>lt</u> .
And the second sector of the Colling Second sector of
Will be imposed under the following conditions:
Penalty will be applied as percentage of contract price per day of delay:
0.1%, but up to maximum 20% of total contract value
☑ Next course of action: penalty and termination of contract and return
of advance payment if applicable
☑ Technical responsiveness/Full compliance to requirements and lowest
price
Strong financial position: (a) Liquidity ratio for the last two years not
less than 1 if financial statements are presented
<u>OR</u>
(b) Confirmation from bank on financial strength of the Offeror as per
requirement outlined above
☑ Full acceptance of the PO/Contract General Terms and Conditions
Comprehensiveness of after-sales services and guarantee
☑ At least 2 contracts for supply and installation of Multi-Tiered
Hydroponic Unit
Demonstrated availability of a permanent office reachable via landline
telephone and permanent staff of at least 5 persons
⊠ One supplier.
UNDP will not consider offers, which include subcontracting.
⊠ Purchase Order (PO)
☑ Cancellation of PO/Contract if amount of penalty for delay in delivery
exceeds 20% from total contract value
☑ Written Acceptance of Goods based on full compliance with RFQ

Annexes to this RFQ	Specifications of the Goods Required (Annex 1)
	$\boxtimes$ Form for Submission of Quotation (Annex 2)
	General Terms and Conditions / Special Conditions (Annex 3).
	Non-acceptance of the terms of the General Terms and Conditions (GTC) shall be grounds for disqualification from this procurement process.
Contact Person for Inquiries	UNDP CO Uzbekistan, Procurement Unit
(Written inquiries only)	4, Taras Shevchenko Street, Tashkent city 100029,
	Uzbekistan
	Fax: (+998 78) 1203485
	Email: <u>pu.uz@undp.org</u>
	Any delay in UNDP's response shall be not used as a reason for extending the deadline for submission, unless UNDP determines that such an extension is necessary and communicates a new deadline to the Proposers.
Post-qualification Actions	☑ Verification of accuracy, correctness and authenticity of the
	information provided by the bidder on the legal, technical and financial documents submitted;
	☑ Inquiry and reference checking with Government entities with
	jurisdiction on the bidder, or any other entity that may have done
	business with the bidder;
	oxtimes Inquiry and reference checking with other previous clients on the
	quality of performance on ongoing or previous contracts completed;
	oxtimes Physical inspection of the bidder's plant, factory, branches or other
	places where business transpires, with or without notice to the bidder;
Other	Offers submitted by two (2) or more Offerors shall all be rejected if they
	are found to have any of the following:
	a) they have at least one controlling partner, director or shareholder
	in common; or b) any one of them receive or have received any direct or indirect
	subsidy from the other/s; or
	c) they have the same legal representative for purposes of this RFQ;
	d) they have a relationship with each other, directly or through
	common third parties, that puts them in a position to have access
	to information about, or
	e) influence on the Offer of, another Offeror regarding this RFQ
	process;
	f) they are subcontractors to each other's Offer, or a subcontractor
	to one Offer also submits another Proposal under its name as lead Offeror; or
	g) an expert proposed to be in the team of one Offeror participates
	in more than one Offer received for this RFQ process. This condition
	does not apply to subcontractors being included in more than one Offer.

Goods offered shall be reviewed based on completeness and compliance of the quotation with the minimum specifications described above and any other annexes providing details of UNDP requirements.

The quotation that complies with all of the specifications, requirements and offers the lowest price, as well as all other evaluation criteria indicated, shall be selected. Any offer that does not meet the requirements shall be rejected.

Any discrepancy between the unit price and the total price (obtained by multiplying the unit price and quantity) shall be re-computed by UNDP. The unit price shall prevail and the total price shall be corrected.

If the supplier does not accept the final price based on UNDP's re-computation and correction of errors, its quotation will be rejected.

After UNDP has identified the lowest price offer, UNDP reserves the right to award the contract based only on the prices of the goods in the event that the transportation cost (freight and insurance) is found to be higher than UNDP's own estimated cost if sourced from its own freight forwarder and insurance provider.

At any time during the validity of the quotation, no price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted by UNDP after it has received the quotation. At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.

Any Purchase Order that will be issued as a result of this RFQ shall be subject to the General Terms and Conditions attached hereto. The mere act of submission of a quotation implies that the vendor accepts without question the General Terms and Conditions of UNDP herein attached as Annex 3.

UNDP is not bound to accept any quotation, nor award a contract/Purchase Order, nor be responsible for any costs associated with a Supplier's preparation and submission of a quotation, regardless of the outcome or the manner of conducting the selection process.

Please be advised that UNDP's vendor protest procedure is intended to afford an opportunity to appeal for persons or firms not awarded a purchase order or contract in a competitive procurement process. In the event that you believe you have not been fairly treated, you can find detailed information about vendor protest procedures in the following link: <u>http://www.undp.org/procurement/protest.shtml</u>.

UNDP encourages every prospective Vendor to avoid and prevent conflicts of interest, by disclosing to UNDP if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, specifications, cost estimates, and other information used in this RFQ.

UNDP implements a zero tolerance on fraud and other proscribed practices, and is committed to identifying and addressing all such acts and practices against UNDP, as well as third parties involved in UNDP activities. UNDP expects its suppliers to adhere to the UN Supplier Code of Conduct found in this link: <a href="http://www.un.org/depts/ptd/pdf/conduct\_english.pdf">http://www.un.org/depts/ptd/pdf/conduct\_english.pdf</a>.

Thank you and we look forward to receiving your quotation.

Sincerely yours,

Procurement Unit UNDP in Uzbekistan

## **Technical Specifications**

The requested unit will be used for obtaining green biomass

1		MEASU RE		DELEVIRY DATE
	<b>Multi-tiered hydroponic system</b> with a capacity of 500 kg / day per set. Placed in a container-box made of sandwich panels filled with polyurethane foam with a density of 20 kg / m3. Container length 12.2-13.7 m, width 2.4-2.5 m, height 2.6-2.75. Heat and hydro isolation of the walls, ceiling, and the floor consists of the following:	Set	1	Not more than 60 calendar days from day of signing contract by both parties
	<ul> <li>Heath-isolation is made of polystyrene foam with 16kg/m3 density (walls, ceiling);</li> <li>Layer of the hydro-isolation is made of PVC film (walls, ceiling);</li> <li>Finishing of the wall panels are made of non-combustible plastic (walls, ceiling);</li> <li>Concrete screed inside the floor of the container, reinforced with a metal mesh 150x150x3 mm, with an drainage outlet for water darning (floor);</li> </ul>			
	Door made of aluminum profile 2100 x 850 mm - 3 pcs. Window made of aluminum profile 2000 x 550 mm - 2 pcs. Shelving sections are made of anodized aluminum profile, anti- corrosion, at least 1.8 mm thick. Equipped with PVC pipe piping for uniformed water supply with horizontal sprayers. Lighting: moisture-proof LED lamps –8 pcs. Polypropylene pallets for the bookmark of germinated grain. Daily grain consumption: 100-105kg Daily green biomass production per 1 kg of grain: 4-6 kg. Grain sprouting cycle period: 6-7 days.			
	<b>Automated control panel</b> for automated control of and management of irrigation system, temperature of the water, ozonation of the water, water level, temperature and humidity of the indoor area, lighting and supply of fresh air inside the unit;	Piece	1	
	<b>Channel air conditioner BTU-18000</b> (English thermal unit). Productivity: at least 1500 m <sup>3</sup> / hour Power consumption: 2.5-3.5 kW/hour. Designed to maintain the optimal microclimate and provide fresh air to ensure the necessary level of CO <sub>2</sub> . Operating temperature range (-15) - (+ 60) ° C	Piece	1	
	<ul> <li>Sensors:</li> <li>Water temperature</li> <li>Air humidity</li> <li>Air temperature</li> <li>designed to ensure a control of all environment setting up and equipped with foiled connecting cables with impedance not higher than 15 ohm.</li> </ul>	Piece Piece Piece	1 3 3	

Designed for water treatment (filtration, heating and ozonation of		
water, oxygen saturation) and irrigation.		
Cast-iron bath	Piece	1
Size: 1200-1700 x 600-750 x 500-600mm.		
Designed for washing, steeping and disinfecting grain and washing		
plastic pallets.		
Polypropylene durable glossy pallets	Piece	520
Dimension: (630-700) x (375-400) x (50-60)mm.		
Designed for accommodation of the germinated grains		
Polyethylene Boxes	Piece	20
Size: (600-800) x (300-500) x (150-250) mm		
Designed for getting of early germination of grains preparatory to go		
to bio mass growing process.		
<b>PVC pipe line (</b> d25-32 mm for horizontal pipes, d 32-40 mm for vertical	Set	1
pipes, d 40-50 mm for water giving system)		
It is equipped with set of PVC pipes and set of fitting.		
Assembled-disassembled sprinklers, with the possibility of cleaning,	Piece	136
designed for long life.		
Throughput: 100-120 l / h		
Working radius: 360 degrees		
Watering diameter: 1.5-2 meters		
Mechanical manometer 1-6 atm. to control the water pressure in the	Piece	1
irrigation system		
Mini electrolysis unit 0.3-1.0 KW with a capacity of 2 L per cycle to	Piece	1
produce a sodium hypochlorite solution intended for disinfecting grain,		
water, and sanitizing a room.		

[Enter name of authorized staff] [Designation] [Click here to enter a date]

### PART 1: FORM FOR SUBMITTING SUPPLIER'S QUOTATION (This Form must be submitted only using the Supplier's Official Letterhead/Stationery)

We, the undersigned, hereby accept in full the UNDP General Terms and Conditions, and hereby offer to supply the items listed below in conformity with the specification and requirements of UNDP as per RFQ Reference No. RFQ/047/19<sup>6</sup>.

ITEM #	DESCRIPTION	ITEM DESCRIPTION/SPECIFICATION OF NECESSARY MATERIALS AND SERVICES	UNIT OF	Q- TY	PRICE IN [C (EXCLUSIV	CURRENCY] (E OF VAT)
			MEAS URE		Unit Price	Total Price
1	Multi-tired hydroponic unit with production capacity of 500 kg green biomass per day	Multi-tiered hydroponic system with a capacity of 500 kg / day per set. Placed in a container-box made of sandwich panels filled with polyurethane foam with a density of 20 kg / m3. Container length 12.2-13.7 m, width 2.4-2.5 m, height 2.6-2.75. Heat and hydro isolation of the walls, ceiling, and the floor consists of the following:	Set	1		
		<ul> <li>Heath-isolation is made of polystyrene foam with 16kg/m3 density (walls, ceiling);</li> <li>Layer of the hydro-isolation is made of PVC film (walls, cealing);</li> <li>Finishing of the wall panels are made of non-combustible plastic (walls, ceiling);</li> <li>Concrete screed inside the floor of the container, reinforced with a metal mesh 150x150x3 mm, with an drainage outlet for water darning (floor);</li> </ul>				
		Door made of aluminum profile 2100 x 850 mm - 3 pcs. Window made of aluminum profile 2000 x 550 mm - 2 pcs. Shelving sections are made of anodized aluminum profile, anti-corrosion, at least 1.8 mm thick. Equipped with PVC pipe piping for uniformed water supply with horizontal sprayers. Lighting: moisture-proof LED lamps –8 pcs. Polypropylene pallets for the bookmark of germinated grain. Daily grain consumption: 100-105kg				

#### TABLE 1: Offer to Supply Goods Compliant with Technical Specifications and Requirements

<sup>&</sup>lt;sup>6</sup> Pricing of goods should be consistent with the INCO Terms indicated in the RFQ

		1			,
	Daily green biomass production per 1 kg of				
	grain: 4-6 kg.				
	Grain sprouting cycle period: 6-7 days.				
	Automated control panel for automated	Piece	1		
	control of and management of irrigation				
	system, temperature of the water,				
	ozonation of the water, water level,				
	temperature and humidity of the indoor				
	area, lighting and supply of fresh air inside				
	the unit;				
	Channel air conditioner BTU-18000	Piece	1		
	(English thermal unit).		_		
	Productivity: at least 1500 m <sup>3</sup> / hour				
	Power consumption: 2.5-3.5 kW/hour.				
	Designed to maintain the optimal				
	microclimate and provide fresh air to				
	ensure the necessary level of $CO_2$ .				
	Operating temperature range $(-15) - (+60)$				
	° C				
	Sensors:	<b>D</b> .			
	Water temperature	Piece	1		
	Air humidity	Piece	3		
	Air temperature	Piece	3		
	designed to ensure a control of all				
	environment setting up and equipped with				
	foiled connecting cables with impedance				
	not higher than 15 ohm.				
	Galvanized tinplate airways.	Set	1		
	Size (500-600) x (180-300) mm, with a				
	total length of 16 running meters and with				
	metal thickness 0.45 mm.				
	Designed to supply fresh air and ensure				
	uniform circulation in the facility room.				
	Automatic shutter.	Piece	2		
	Size (500-600) x (180-300) x 100 mm.	i iece	Ĺ		
	For supply of fresh air required for plants.				
	Material: Aluminum	Diass	4		
	Mechanical shutter.	Piece	4		
	Size 500 x 300 x 100 mm.				
	Designed for the outflow of moist air from				
	the installation room.				
	Material: Aluminum				
	Moisture-proof fluorescent lamps with	Set	8		
	two fluorescent bulbs, providing a				
	luminous flux of 2500-2800 lumens each.				
	Total power of the lights 120 kWh				
	Bactericidal lamps.	Piece	4		
	Designed for air disinfection.				
	Consumption: up to 30W				
	Air filter with combined fabric synthetic	Piece	2		
	winterizer (syntheticwinterizer).		-		
	Size (500-600) x (180-400) mm.				
	5120 (500 000) X (100 400) Min.				

Designed for filtering of air from dust and				
insects.				
Ozone generator.	Piece	1		
Capacity: 3-7 g $O_3$ per hour.	FIELE	1		
Designed for water disinfection and				
saturation with oxygen, disinfection of				
steeped cereals and plants during				
watering.				
Centrifugal pump	Piece	1		
Capacity: 18-20 m3 / h,	TICCC	-		
Pressure: 2.5-3.0 atm.				
Power consumption: 3.0 KW.				
Phase: 1				
Designed for water supply for irrigation				
system.				
Vacuum pump	Piece	2		
Capacity: 10-15 m <sup>3</sup> / hour,		2		
Pressure: 2-2.5 atm.				
Power consumption: 1.5-2.0 KW.				
(The first piece is for supplying the				
required water level in the water tank and				
the second piece is for washing the grain,				
pallets and the overall indoor area )				
Mechanical back pressure valve. d 40-50	Piece	1		
mm to ensure evenly pressure in the	riece	-		
irrigation system				
Polyethylene tank	Set	1		
Capacity: 1-1.2 m <sup>3</sup> .	Set	1		
Dimension: 1000				
Equipped with:				
an electric heater of 1.5-2.0 kW (2				
pcs),				
a temperature sensor				
mechanical floats,				
• disk diffusers (2 pcs),				
a water refilling and discharge				
system with direct installation filters .				
Designed for water treatment (filtration,				
heating and ozonation of water, oxygen				
saturation) and irrigation.				
Cast-iron bath	Piece	1		
		1	1	1
Size: 1200-1700 x 600-750 x 500-600mm.				
Designed for washing, steeping and				
Designed for washing, steeping and disinfecting grain and washing plastic				
Designed for washing, steeping and				
Designed for washing, steeping and disinfecting grain and washing plastic pallets.				
Designed for washing, steeping and disinfecting grain and washing plastic pallets. Polypropylene durable glossy pallets	Piece	520		
Designed for washing, steeping and disinfecting grain and washing plastic pallets. Polypropylene durable glossy pallets Dimension: (630-700) x (375-400) x (50-	Piece	520		
Designed for washing, steeping and disinfecting grain and washing plastic pallets. Polypropylene durable glossy pallets Dimension: (630-700) x (375-400) x (50- 60)mm.	Piece	520		
Designed for washing, steeping and disinfecting grain and washing plastic pallets. Polypropylene durable glossy pallets Dimension: (630-700) x (375-400) x (50- 60)mm. Designed for accommodation of the	Piece	520		
Designed for washing, steeping and disinfecting grain and washing plastic pallets. Polypropylene durable glossy pallets Dimension: (630-700) x (375-400) x (50- 60)mm.	Piece	520		

S	ize: (600-800) x (300-500) x (150-250)				
	nm				
	Designed for getting of early germination				
	f grains preparatory to go to bio mass				
	rowing process.				
	VC pipe line (d25-32 mm for horizontal	Set	1		
	ipes, d 32-40 mm for vertical pipes, d 40-				
	0 mm for water giving system)				
	t is equipped with set of PVC pipes and				
S	et of fitting.				
A	ssembled-disassembled sprinklers, with	Piece	136		
t t	he possibility of cleaning, designed for				
	ong life.				
Т	hroughput: 100-120 l / h				
v	Vorking radius: 360 degrees				
V	Vatering diameter: 1.5-2 meters				
N	<b>/lechanical manometer 1-6 atm.</b> to	Piece	1		
C C	ontrol the water pressure in the irrigation				
S	ystem				
N	/lini electrolysis unit 0.3-1.0 KW with a	Piece	1		
C	apacity of 2 L per cycle to produce a				
S	odium hypochlorite solution intended for				
d	lisinfecting grain, water, and sanitizing a				
re	oom.				
	otal Prices of Multi-tired hydroponic				
	nit with production capacity of 500 kg				
g	reen biomass per day (1 set)				
	otal Prices of Multi-tired hydroponic unit	with pro	duction c	apacity of	
	500 kg green biomass per day (5 sets)Transportation costs for 5 sets (CIP Nukus)				
	Packing, Insurance and other costs for 5 sets				
	raining costs for 5 sets				
l Ir	nstallation and commissioning costs for 5 se	ets			
C	Other costs (travel, accommodation and livi	ng, etc.)			
Т	Total All-Inclusive Bid Price for 5 sets of Multi-tired hydroponic unit				1
	vith production capacity of 500 kg green b			inc unit	

# Table 2 – Table of technical compliance of the offered goods

DESCRIPTION: Multi-tiered hydroponic Unit with a capacity of 500 kg / day

Description / Specifications of Goods (required by UNDP)	Description / Specifications of Goods (offered by Supplier) <sup>7</sup> Please indicate parameters of the offered goods Please indicate for the offered goods: Model: Manufacturer: Country of origin:
<b>Multi-tiered hydroponic system</b> with a capacity of 500 kg / day per set. Placed in a container-box made of sandwich panels filled with polyurethane foam with a density of 20 kg / m3. Container length 12.2-13.7 m, width 2.4-2.5 m, height 2.6-2.75. Heat and hydro isolation of the walls, ceiling, and the floor consists of the following:	
<ul> <li>Heath-isolation is made of polystyrene foam with 16kg/m3 density (walls, ceiling);</li> <li>Layer of the hydro-isolation is made of PVC film (walls, cealing);</li> <li>Finishing of the wall panels are made of non-combustible plastic (walls, ceiling);</li> <li>Concrete screed inside the floor of the container, reinforced with a metal mesh 150x150x3 mm, with an drainage outlet for water darning (floor);</li> </ul>	
Door made of aluminum profile 2100 x 850 mm - 3 pcs. Window made of aluminum profile 2000 x 550 mm - 2 pcs. Shelving sections are made of anodized aluminum profile, anti-corrosion, at least 1.8 mm thick. Equipped with PVC pipe piping for uniformed water supply with horizontal sprayers. Lighting: moisture-proof LED lamps –8 pcs. Polypropylene pallets for the bookmark of germinated grain. Daily grain consumption: 100-105kg Daily green biomass production per 1 kg of grain: 4-6 kg.	
Grain sprouting cycle period: 6-7 days. <b>Automated control panel</b> for automated control of and management of irrigation system, temperature of the water, ozonation of the water, water level, temperature and humidity of the indoor area, lighting and supply of fresh air inside the unit;	
Channel air conditioner BTU-18000 (English thermal unit). Productivity: at least 1500 m <sup>3</sup> / hour Power consumption: 2.5-3.5 kW/hour. Designed to maintain the optimal microclimate and provide fresh air to ensure the necessary level of CO <sub>2</sub> .	

Operating temperature range (-15) - (+ 60) ° C	
Sensors:	
Water temperature	
Air humidity	
Air temperature	
designed to ensure a control of all environment setting up	
and equipped with foiled connecting cables with	
impedance not higher than 15 ohm.	
Galvanized tinplate airways.	
Size (500-600) x (180-300) mm, with a total length of 16	
running meters and with metal thickness 0.45 mm.	
Designed to supply fresh air and ensure uniform	
circulation in the facility room.	
Automatic shutter.	
Size (500-600) x (180-300) x 100 mm.	
For supply of fresh air required for plants.	
Material: Aluminum	
Material: Aluminum Mechanical shutter.	
Size 500 x 300 x 100 mm.	
Designed for the outflow of moist air from the	
installation room.	
Material: Aluminum	
Moisture-proof fluorescent lamps with two fluorescent	
bulbs, providing a luminous flux of 2500-2800 lumens	
each. Total power of the lights 120 kWh	
Bactericidal lamps.	
Designed for air disinfection.	
Consumption: up to 30W	
Air filter with combined fabric synthetic winterizer	
(syntheticwinterizer).	
Size (500-600) x (180-400) mm.	
Designed for filtering of air from dust and insects.	
Ozone generator.	
Capacity: 3-7 g O₃ per hour.	
Designed for water disinfection and saturation with	
oxygen, disinfection of steeped cereals and plants during	
watering.	
Centrifugal pump	
Capacity: 18-20 m3 / h,	
Pressure: 2.5-3.0 atm.	
Power consumption: 3.0 KW.	
Phase: 1	
Designed for water supply for irrigation system.	
Vacuum pump	
Capacity: 10-15 m <sup>3</sup> / hour,	
Pressure: 2-2.5 atm.	
Power consumption: 1.5-2.0 KW.	
(The first piece is for supplying the required water level	
in the water tank and the second piece is for washing the	
grain, pallets and the overall indoor area )	
Mechanical back pressure valve. d 40-50 mm to ensure	
-	
evenly pressure in the irrigation system	
Polyethylene tank	15

Capacity: 1-1.2 m <sup>3</sup> .	
Dimension: 1000	
Equipped with:	
<ul> <li>an electric heater of 1.5-2.0 kW (2 pcs),</li> </ul>	
<ul> <li>a temperature sensor</li> </ul>	
<ul> <li>mechanical floats,</li> </ul>	
<ul> <li>disk diffusers (2 pcs),</li> </ul>	
<ul> <li>a water refilling and discharge system with direct</li> </ul>	
installation filters .	
Designed for water treatment (filtration, heating and	
ozonation of water, oxygen saturation) and irrigation.	
Cast-iron bath	
Size: 1200-1700 x 600-750 x 500-600mm.	
Designed for washing, steeping and disinfecting grain	
and washing plastic pallets.	
Polypropylene durable glossy pallets	
Dimension: (630-700) x (375-400) x (50-60)mm.	
Designed for accommodation of the germinated grains	
Polyethylene Boxes	
Size: (600-800) x (300-500) x (150-250) mm	
Designed for getting of early germination of grains	
preparatory to go to bio mass growing process.	
PVC pipe line (d25-32 mm for horizontal pipes, d 32-40	
mm for vertical pipes, d 40-50 mm for water giving	
system)	
It is equipped with set of PVC pipes and set of fitting.	
Assembled-disassembled sprinklers, with the possibility	
of cleaning, designed for long life.	
Throughput: 100-120 l / h	
Working radius: 360 degrees	
Watering diameter: 1.5-2 meters	
Mechanical manometer 1-6 atm. to control the water	
pressure in the irrigation system	
Mini electrolysis unit 0.3-1.0 KW with a capacity of 2 L	
per cycle to produce a sodium hypochlorite solution	
intended for disinfecting grain, water, and sanitizing a	
room.	

<sup>&</sup>lt;sup>7</sup> Please provide description of offered product, model and brand name, that must meet minimum technical specifications provided in Annex 1 above

\_\_\_\_\_

Other Information pertaining to our Quotation	Your Responses			
are as follows:	Yes, we will No, we cann comply comply		not If you cannot comply, pls. indicate counter proposal	
Terms of supply of equipment at final destination				
within 60 calendar days				
Warranty and After-Sales Requirements				
a) Minimum one (1) year warranty on both				
parts and labor				
b) Service Unit to be Provided when the				
Purchased Unit is Under Repair				
All Provisions of the UNDP General Terms and				
Conditions				
Other requirements [pls. specify]				

All other information that we have not provided automatically implies our full compliance with the requirements, terms and conditions of the RFQ.

[Name and Signature of the Supplier's Authorized Person] [Designation] [Date] Dear Sir/Madam,

We/I, \_\_\_\_\_ (Name and Title), as shareholder(s)/owner(s) of \_\_\_\_\_ Company, declare that:

- a) Have no financial and other interests in, association or relationship with, are not employed and do not have relatives (i.e. spouse, parents, children or siblings) employed by the United Nations Development Programme (UNDP) or the Government of Uzbekistan that announced the RFQ; and do not have access to information about, or influence on the selection process for this RFQ
- b) Have no common controlling partner, director, shareholder, legal representative for the purposes of this RFQ with any other entity submitting its Quotation under this RFQ; are not subcontracting or are subcontractors to other entities for the purposes of this RFQ; and that the experts proposed in the team do not participate in more than one Quotation for this RFQ
- c) Are not involved in activities that could have an impact on the objectivity and independence of the Contractor's team in carrying out its duties under the contract or can affect the image of the United Nations and the Government of Uzbekistan.

We certify that the information stated is true, correct and complete to the best of our knowledge and belief. We are obliged to comply with all requests for additional information, documentation, clarification and/or verification concerning the Declaration of Interest statement.

All other information that we have not provided automatically implies our full compliance with the requirements, terms and conditions of the RFQ.

[Name and Signature of the Supplier's Authorized Person] [Designation] [Date]

1. Offeror's Legal Name [insert	Bidder's legal name]	
2. In case of Joint Venture (JV),	legal name of each party: [insert	egal name of each party in JV]
3. Actual or intended Country/	es of Registration/Operation: [ins	ert actual or intended Country of Registration]
4. Year of Registration in its Loc	ation: [insert Bidder's year of regi	stration]
5. Countries of Operation	6. No. of permanent staff in each Country	7.Years of Operation in each Country
8. Legal Address/es in Country, reaistration1	/ies of Registration/Operation <sup>8</sup> : [i	nsert Bidder's legal address in country of
9. Value and Description of Top	two (2) Biggest Contracts for the	past three (3) years
10. Latest Credit Rating (Score	and Source, if any)	
11. Brief description of litigatio outcomes, if already resolv		aims, etc.), indicating current status and
12. Offeror's Authorized Repres	entative Information	
Name: [insert Authorize	ed Representative's name]	
Address: [insert Author	ized Representative's Address]	
	rs: [insert Authorized Representat	
Email Address <i>linsert</i>	Authorized Representative's email	address]
IS. ALL YOU IN THE ONPO LIST I	267.1989 or UN Ineligibility List?	

[Name and Signature of the Supplier's Authorized Person] [Designation] [Date]

<sup>&</sup>lt;sup>8</sup> You must specify address of permanent office, landline telephone numbers

### PART 4: EXPERIENCE IN SIMILAR NATURE\*

Name of the good supplied	Delivery period (month, year)	Amount of the contract	Client (Name, contact person, telephone, email)

\* At least 2 contracts for the last 3 years for supply of Multi-Tiered Hydroponic Unit is must

> [Name and Signature of the Supplier's Authorized Person] [Designation] [Date]