



MEGHALAYA BASIN MANAGEMENT AGENCY (MBMA)

C/o Meghalaya State Housing Financing Cooperative Society, Upper Nongrim Hills,
Behind Bethany Hospital, Shillong, East Khasi Hills District, Meghalaya – 793003
(CIN No. U75144ML2012NPL008509)
Phone: +91-364- 2522921/2522992
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MBMA/CDP/2023/856/153

16th April, 2026

Clarification, Addendum and Corrigendum

Pre-Bid Queries for Supply Installation & Commissioning of machineries for development of industry-scale liquid biofertilizer and biopesticide units under Cluster Development Programme (CDP), National Horticulture Board, West Jaintia Hills Cluster, Meghalaya

RFP Reference No. CDP/2023/856/45

Dated: 21st January 2026

Clarification: #1

Sl No.	Sl No. as per RFP	Item	Clause Reference / Original Clause	Queries / Clarification requested	MBMA Response / Addendum
COMPONENT A: EQUIPMENT FOR MOTHER CULTURE MAINTENANCE LABORATORY AND STORAGE FACILITIES					
1	4	Hot Air Oven	Capacity: 122 Ltrs	Request to kindly amend for better participation.	No changes specification will remain same as per RFP
2	5	BOD Incubator	External Chamber - MS / SS 304 / SS 316		External Chamber - MS
			Exterior Body Material: Powder coated GI Sheet	Exterior Body Material: Powder coated GI Sheet/ MS epoxy powder coated	No changes specification will remain same as per RFP
			Humidity Control: Ambient to 90 %	Request to remove	No changes specification will remain same as per RFP
			Display: Backlit LED display	Display: Backlit LED/LCD display	No changes specification will remain same as per RFP
3	6	Horizontal Laminar Airflow	Operational Requirements - The basic equipment shall consist of a HEPA filter, pre filter, suitable blower assembly, necessary lighting, indicators and controls for the cabinet.		Operational Requirements - The basic equipment shall consist of a HEPA filter (HEPA filter efficiency: 99.97% to 99.99% efficiency at 0.3µm.), pre filter (Polyester fibre, washable), suitable blower assembly, necessary lighting, indicators and controls for the cabinet.
			Material- Stainless steel		Working area material: Stainless steel S304
			Sterilizing - UV germicidal tube		Sterilizing: UV germicidal tube (germicidal wavelength range: 253.7-254 nm)
			Design - Custom sturdy cart or stand, Cup sink and vacuum fittings, Polypropylene base cabinet and Ultraviolet light source with full sash	Epoxy powder-coated stand with ultraviolet light source and full sash.	Remove Cup sink and vacuum



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			Additional Specification		Material of Construction (Main Body): GI Powder Coated
			Additional Specification		Switches and indicators: Individual switches and indicator lamps for blower motor, florescent lamp and UV lamp
			Additional Specification		Front & Side Windows: Approx. 5mm toughened glass, anti-UV
			Additional Specification		Noise level: 65±5 dB
4	7	Horizontal autoclave	Sterilizer chamber capacity: 275 Ltr	Sterilizer chamber capacity: 275 Ltr or better	Remove this item from the list In place of Horizontal autoclave we need Vertical Autoclave (small) quantity will be amended from 1 nos to 2 nos
5	8	Vertical Autoclave (small)	Sterilizer chamber Capacity (usable volume) – 185 Ltr		Sterilizer chamber Capacity (usable volume) - 180Ltr to 185Ltr
			Door sealing: by elastomeric rubber gasket suitable to withstand temperature up to 140 degree C & pressure up to 20-30psi	Door sealing: by elastomeric rubber gasket suitable to withstand temperature up to 135 degree C & pressure up to 15-22 psi or better	Door sealing: by elastomeric rubber gasket suitable to withstand temperature up to 140 degree C & pressure up to 20-30psi
			Dimension - 16 Dia x 24 ht (inch)		Dimension – Working chamber size: 550mm x 760mm
			Power: 4KW	Power: 6 KW	Power: 4KW
			Quantity – 1 Nos		Quantity - 2 Nos
6	10	Digital Colony Counter	Range: 0-999999 Dish Size: 110mm Grid Glass Plate: 110 mm	Range: 0-1999 CFU Dish Size: From Ø 55 to Ø 90 mm Grid Glass Plate: up to 90 mm	No changes specification will remain same as per RFP
7	12	Shaker Incubator	Temperature Range: 4° C to 75 ° C	Temperature Range: 5° C to 60 ° C or better	No changes specification will remain same as per RFP
8	15	Electronic Weighing scale load capacity (10 KG)	Pan/ platform size: 145mm x 125 mm	Pan/ platform size: 170mm x 130 mm (w x d)	No changes specification will remain same as per RFP
9	21	Magnetic Stirrer with hot plate	Top Plate: Stainless Steel	Top plate: SS/ Aluminium housing/ ceramic coated	Top plate: SS/ Aluminium housing/ ceramic coated
10	22	UV Chamber with UV Tube Lights	Mild steel sterilization chamber with partitioned drawer system for egg-bearing cards	Light-proof UV chamber with dual UV wavelengths (254 nm & 365 nm), safety interlock, and UV-	Light-proof UV chamber with dual UV wavelengths (254 nm & 365 nm), safety interlock, and UV-protective viewing window needed for



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				protective viewing window	sterilization of approx. 150 Tricho cards at a time.
COMPONENT B: MOTHER CULTURE FERMENTOR, BACTERIAL AND FUNGAL PRODUCTION FERMENTERS AND ITS ESSENTIAL ACCESSORIES					
11	1	IN-SITU STERILIZABLE FERMENTER (TOP DRIVEN for Bacteria)	Online OD measurement - In-situ sterilizable sensor		DO sensor - In-situ sterilizable DO sensor
12	4	SEED FERMENTER (for Fungi and bacteria)	Top plate - SS 316L with 25 mm ports for pH/DO2/foam/temp/heater/Sample port feed/ inoculation ports etc		Top plate - SS 316L with 25 mm ports for pH/DO/foam/temp/heater/ Sample port feed/ inoculation ports etc
			Control - Micro controller/ PLC/TFT based Auto Temperature/RPM/pH/ DO2/Antifoam/ Air Flow etc with password protection		Control - Micro controller/ PLC/TFT based Auto Temperature/RPM/pH/ DO/Antifoam/ Air Flow etc with password protection
			Control Parameters - • Temperature: Min 00 - Max 500 • Agitation speed: min 50 RPM to 500 RPM • Working pressure: Max 3.75 kg/cm2 • pH control, DO monitoring, Mass flow control, Antifoam control, Back pressure control, Gas analyser, Redox monitoring, Feed control, Software logging, turbidity sensor		Control Parameters - • Temperature: Min 00 - Max 500 • Agitation speed: min 50 RPM to 500 RPM • Working pressure: Max 3.75 kg/cm2 • pH control, DO monitoring, Back pressure control, Feed control, Software logging
13	10	Steam generator	Electric heating, 200 kg/hour capacity, 18 kW power, single phase	Technically inconsistent specifications :- 1) 200 kg/h boiler needs around 140 kW power 2) Single phase works up to 3 kW only	Electric heating, Steam rating: 80-100 kg/hr capacity, 36 kW power & 3 phase connection
			Quantity - 2 Nos		Quantity - 1 Nos
14	11	Air Compressor	114 CFM capacity	Too highly overrated. 750 ltr fermentor requires only 2.5 cfm air flow	80 CFM with 700Ltr Tank Capacity and air dryer line filter
			Quantity - 2 Nos		Quantity - 1 Nos
15	12	Chiller Circulator (10 TR)	10 TR capacity	1) Too highly overrated. 750 ltr fermentor requires only 1 TR chiller 2) Also, chiller is not required for	5 TR capacity

Current Office Address: Meghalaya Basin Development Authority/Meghalaya Basin Management Agency

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				biofertilizer process since operating temperature is 30 oC, which can be easily fulfilled by simple cooling tower	
			Quantity – 2 Nos		Quantity – 1 Nos
16	13	Cooling tower 70 TR with Circulation Pumps	70 TR capacity	Too highly overrated. 750 ltr fermentor requires only 1 TR cooling tower	No changes specification will remain same as per RFP
COMPONENT C: POWER SUPPLY, POWER BACKUP AND WATER SUPPLY					
			Frequency range - 30-40 Hz	Frequency range – 50hz 230v	Frequency range – 50hz 230v
			Voltage - 120V	Voltage – 230v	Voltage – 220 v to 230v
17	1	WATER PURIFYING SYSTEM	Type-III Grade Water Specifications – • Conductivity:<20µS/cm • Product Flow Rate (L/hr):5/10/15/20/25/30 • Tank: Integrated/ Inbuilt • Feed/RO/%Rejection Monitoring: Yes • Cell Constant: K= 0.01/0.1/1.0	Type-III Grade Water Specifications - It is Not required in Lab water system.	Removed Type-III Grade Water specifications from this item
COMPONENT D: FOR EQUIPMENT (GLASSWARE AND PLASTICWARE)					
18	4	Digital pH meter	Temperature range- 32 to 1940 F (0 to 900 C)	Request to kindly clarify if the temperature range, as 900 Degree C is not available with any manufacturer.	Temperature: 32 to 194°F (0° to 90°C)

Addendum: #3

Sl. no.	Original Clause	Modified / Amended 1	Modified / Amended 2	Modified / Amended 3
1	Last date and time for submission of-bids is 26th February 2026, before 3:00 PM IST	Last date and time for submission of bids is 20th March 2026, before 3:00 PM IST	Last date and time for submission of bids is 17th April 2026, before 3:00 PM IST	Last date and time for submission of bids is 15th May 2026, before 3:00 PM IST
2	Date and time of opening of Prequalification & Technical bids on 26th February 2026, at 3:30 PM IST	Date and time of opening of Prequalification & Technical bids on 20th March 2026, at 3:30 PM IST	Date and time of opening of Prequalification & Technical bids on 17th April 2026, at 3:30 PM IST	Date and time of opening of Prequalification & Technical bids on 15th May 2026, at 3:30 PM IST

Deputy Project Director (CDP)
Meghalaya Basin Management Agency