



ADDENDUM NO. 01 Series of 2021

This Addendum No. 01 is issued to modify or amend items in the Bidding Documents for the **Provision of Nanocellulose Self-Disinfecting (NACS) Filter: R&D Validation of an Innovative Low-Cost Nanotech-Based Face Mask**. This shall form an integral part of the Bid Documents.

Name of Project: **Provision of Nanocellulose Self-Disinfecting (NACS) Filter: R&D Validation of an Innovative Low-Cost Nanotech-Based Face Mask**

Location: CSU Campus, Ampayon, Butuan City

Brief Description: Provision of Nanocellulose Self-Disinfecting (NACS) Filter: R&D Validation of an Innovative Low-Cost Nanotech-Based Face Mask

Approved Budget for the Contract : **Php. 4,400,000.00**

Source of Funds: Trust Receipts Fund (TRF) – DOST PCIERRD 2021

Contract Duration: 60 Calendar Days

Please be informed of the changes in the Bidding Documents, as follows:

CHANGES/ AMENDMENT	
SPECIFICATION	
FROM	TO
DYNAMIC LIGHT SCATTERING MACHINE WITH ACCESSORIES General features: able to measure different parameters. Size, zeta potential, molecular mass, A2 Transmittance and refractive index. With double sealed optical bench. Configuration: Includes the DLS instrument (with power cable, power supply, USB cable, Instruction Manual). Inclusions: Batch Module, Thermal insulation cover, Instrument Reference Guide, Syringe filters. Other inclusions/requirements: UPS/AVR (500 - 1500 W), laptop unit, Particle counter, 6 channels, probe temperature and humidity sensor, software, manual, power supply, purge filter. Semi-Conductor: 40mW, 658nm single-frequency laser diode Laser Warmup Time: Not more than 6 minutes. Size Measurement; Range: 0.3nm - 10mm (diameter) Minimum sample volume: 12mL.	DYNAMIC LIGHT SCATTERING MACHINE WITH ACCESSORIES General features: able to measure different parameters. Size, zeta potential, molecular mass, A2 Transmittance and refractive index. With double sealed optical bench. Configuration: Includes the DLS instrument (with power cable, power supply, USB cable, Instruction Manual). Inclusions: Batch Module, Thermal insulation cover, Instrument Reference Guide, Syringe filters. Other inclusions/requirements: UPS/AVR (500 - 1500 W), laptop unit, Particle counter, 6 channels, probe temperature and humidity sensor, software, manual, power supply, purge filter. Semi-Conductor: 40mW, 658nm single-frequency laser diode Laser Warmup Time: Not more than 6 minutes. Size Measurement; Range: 0.3nm - 10µm. (diameter) Minimum sample volume: 12µL.



Sensitivity: min. concentration (protein): 0.1 mg/mL (lysozyme). Min. concentration, fwd angle: 1 mg/mL (lysozyme).

Accuracy: **±2% on NIST** traceable standards or better. Repeatability: **±2% on NIST** traceable standards or better.

Measurement angle: must accommodate 3 angles (back, side and forward). Must have an automatic measurement angle selection option. Must have automatic measurement duration selection option. Must be able to detect automatically the filter optical density. Must be able to set automatically the focus position.

Zeta

Measurement;

Range: **> ±**
 1000mV.

Min. sample volume: **50mL** (sample viscosity-dependent). Sensitivity: 0.1 mg/mL (lysozyme).

Max. concentration: 70% w/v (sample-dependent). Mobility range: 10⁻¹¹ to 2 x 10⁻⁷ m²/V.s.

Size range: **3.8nm - 100µm** (diameter).

Must have a reusable cuvette for measurement of both particle size and zeta potential. Able to do phase analysis light scattering continuously. With additional modulator monitor diode.

Must have an automatic power measurement selection option. Must have an automatic measurement duration selection option. Molecular Mass Measurement;

Absolute sensitivity (toluene): > 70 kcps (side-scattering). Measuring range (mass): 980 Da - 20 MDa.

Measuring range (particle size): 40nm (diameter).

Must have an automatic measurement duration selection option.

Transmittance

Measurement;

Measuring time: not more than 10s.

Min. sample volume: not more than **15mL**. Accuracy: better than **± 1%**.

Refractive Index

Measurement;

Measuring range: 1.28 - 1.50.

Accuracy: Better than **± 0.5%**. Min.

Sensitivity: min. concentration (protein): 0.1 mg/mL (lysozyme). Min. concentration, fwd angle: 1 mg/mL (lysozyme).

Accuracy: **±2% on NIST** traceable standards or better. Repeatability: **±2% on NIST** traceable standards or better.

Measurement angle: must accommodate 3 angles (back, side and forward). Must have an automatic measurement angle selection option. Must have automatic measurement duration selection option. Must be able to detect automatically the filter optical density. Must be able to set automatically the focus position.

Zeta

Measurement

; Range: **> ±**
 1000mV.

Min. sample volume: **50µL** (sample viscosity-dependent). Sensitivity: 0.1 mg/mL (lysozyme).

Max. concentration: 70% w/v (sample-dependent). Mobility range: 10⁻¹¹ to 2 x 10⁻⁷ m²/V.s.

Size range: **3.8nm - 100µm**. (diameter).

Must have a reusable cuvette for measurement of both particle size and zeta potential. Able to do phase analysis light scattering continuously. With additional modulator monitor diode.

Must have an automatic power measurement selection option. Must have an automatic measurement duration selection option. Molecular Mass Measurement;

Absolute sensitivity (toluene): > 70 kcps (side-scattering). Measuring range (mass): 980 Da - 20 MDa.

Measuring range (particle size): 40nm (diameter).

Must have an automatic measurement duration selection option.

Transmittance

Measurement;

Measuring time: not more than 10s.

Min. sample volume: not more than **15µL**. Accuracy: better than **± 1%**.

Refractive Index

Measurement;

Measuring range: 1.28 - 1.50.

Accuracy: Better than **± 0.5%**. Mn.



BIDS AND AWARDS COMMITTEE (BAC)

sample volume:
1mL.

Software;

Must be able to input parameters with live signals and results on a one-page presentation

For the analysis, it must be able to perform comparison of measurements from different experiments on single graph. Reporting of results can be done with existing template or can be customized.

Must have an unlimited professional license software. Enables installation on an unlimited number of computers.

Additional Accessories;

Must include module for measurement of time, temperature, concentration, measurement angle, focus, transmittance.

Must include flight case or brief case for transport to CSU

Must include Starter Kit to be used for initial measurement which includes the following: (1) cuvette rack, disposable cuvette (100 pcs) with disposable lid (100 pcs), and omega cuvette (5 pcs).

Must include glass cuvette and low-volume quartz cuvette (12mL - 45mL) and support plate. Additional Accessories; Must include different NIST.

Standards for Particle size: 20nm, 60nm, 100nm, and 220nm (15mL).

Zeta Potential Reference standard

0.002% (15mL). Molecular Mass

standard, 286 kDa standard.

Must include measurement cell for DLS and ELS measurement in aqueous and organic solvents.

Other requirements;

Warranty: 1 year warranty for main unit, 6 months for accessories.

Includes delivery (FOB), installation, training and after sales support. Includes in-house training for 3 personnel.

sample volume:
1mL.

Software;

Must be able to input parameters with live signals and results on a one-page presentation

For the analysis, it must be able to perform comparison of measurements from different experiments on single graph. Reporting of results can be done with existing template or can be customized.

Must have an unlimited professional license software. Enables installation on an unlimited number of computers.

Additional Accessories;

Must include module for measurement of time, temperature, concentration, measurement angle, focus, transmittance.

Must include flight case or brief case for transport to CSU

Must include Starter Kit to be used for initial measurement which includes the following: (1) cuvette rack, disposable cuvette (100 pcs) with disposable lid (100 pcs), and omega cuvette (5 pcs).

Must include glass cuvette and low-volume quartz cuvette (12µL - 45 µL) and support plate. Additional Accessories; Must include different NIST.

Standards for Particle size: 20nm, 60nm, 100nm, and 220nm (15mL).

Zeta Potential Reference standard

0.002% (15mL). Molecular Mass

standard, 286 kDa standard.

Must include measurement cell for DLS and ELS measurement in aqueous and organic solvents.

Other requirements;

Warranty: 1 year warranty for main unit, 6 months for accessories.

Includes delivery (FOB), installation, training and after sales support. Includes in-house training for 3 personnel.

Updated Omnibus Sworn Statement (10 items)



Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;



BIDS AND AWARDS COMMITTEE (BAC)

[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20___ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant



BIDS AND AWARDS COMMITTEE (BAC)

CHANGES / AMENDMENTS	
FROM	TO
BID DATA SHEET ITB Clause 12.1 (a)(ii) <i>The bidder's SLCC similar to the contract to be bid should have been completed within five (5) years prior to the deadline for the submission and receipt of bids.</i>	BID DATA SHEET ITB Clause 12.1 (a)(ii) <ul style="list-style-type: none">For Statement of all its ongoing government and private contracts, including contracts awarded but not yet started.<ul style="list-style-type: none">Bidders must attach additional document in the above-mentioned technical requirement for each of the contract listed reflecting details/data as follows: Name of Contact Person, Contact Numbers and Email Address.The bidder's SLCC similar to the contract to be bid should have been completed within five (5) years prior to the deadline for the submission and receipt of bids.<ul style="list-style-type: none">Bidders must attach additional document in the above-mentioned technical requirement reflecting details/data as follows: Name of Contact person, Contact Numbers and Email Address of the contract presented.
Submission of Bids <ul style="list-style-type: none">Prospective Bidders are allowed to submit the hard copy (duly sealed and signed) consisting of 1 original copy, copy1 and copy 2 aside from the soft/ e-copy (password-protected) of their Bidding Documents on or before the schedule of the opening of bids. The same is established for the security in the part of the bidders in anticipation that there might be technical problems and/or power outage encountered during the conduct of virtual Opening of Bids.	

For guidance and information of all concerned.


ARMIE LEILA M. MORDENO, DPA, CSEE
BAC Chairperson

Received by the Bidder:

