



Management  
System  
ISO 9001:2015  
www.tuv.rwth-aachen.de  
ID 8198653506



Republic of the Philippines  
**CAMARINES NORTE STATE COLLEGE**  
F. Pimentel Avenue, Brgy. 2, Daet, Camarines Norte - 4600, Philippines

## OFFICE OF THE BAC CHAIRPERSON

July 7, 2023

### ADDENDUM NO. 1 Series of 2023

This Addendum No. 1 for the project, *Supply and Delivery of Mechanical Laboratory Equipment for the College of Engineering, CNSC, Main Campus, Daet, Camarines Norte*

It is being issued in accordance with the Revised IRR of R.A. 9184 specifically Section 22.5.2. and 22.5.3.

Please find the attached revised Schedule of Requirements.

This Addendum shall form integral part of the Bid Documents.

  
MARIA CRISTINA C. AZUELO, Ph.D.  
BAC CHAIRPERSON

Bidders:

Name and Signature \_\_\_\_\_

22	Viscometer -electric, 220V, range 2000000mpa s. test	1	1	Within 90 days upon receipt of the Notice to Proceed
23	Set of U-Tube Manometers	1	1	Within 90 days upon receipt of the Notice to Proceed
24	Set of Calipers-Vernier Caliper 0-200mm/8" range Range:0-8 inch 0-200mm) Graduation: 0.05mm, 1/128" Type: Inch/Metric Dual Scale Accuracy: +/-0.05mm	3	3	Within 90 days upon receipt of the Notice to Proceed



	Training to be conducted as per ASNT SNT-TC-1A			
12	Drilling machine-electric hammer drill 500w	4	4	Within 90 days upon receipt of the Notice to Proceed
13	Planer machine - 600W/800W Original Wood Plainer with hard case	5	5	Within 90 days upon receipt of the Notice to Proceed
14	Sander -220V/60hz 200W, high quality, heavy duty	5	5	Within 90 days upon receipt of the Notice to Proceed
15	Bench vise -swivel size, 4" max clamping, 1300kgs with anvil	2	2	Within 90 days upon receipt of the Notice to Proceed
16	Bar cutter-heavy duty, up to 32mm	1	1	Within 90 days upon receipt of the Notice to Proceed
17	Sheet metal tools – 10" sheet metal cutter	2	2	Within 90 days upon receipt of the Notice to Proceed
18	Beam deflection machine-lever type working principle, ASTM, stainless steel	1	1	Within 90 days upon receipt of the Notice to Proceed
19	Bench grinder -350W, 110-240V high speed	1	1	Within 90 days upon receipt of the Notice to Proceed
20	Power Hacksaw -metal and wood saw 1500W, circular type, 4800rpm	1	1	Within 90 days upon receipt of the Notice to Proceed
21	Dead weight tester-portable, 0.05/0-0.02% accuracy, hydraulic, 0.01-60MPA, oil, gas	1	1	Within 90 days upon receipt of the Notice to Proceed



Feeding Motor power:X/Y/Z axis  
1.5/1.5/1.5Kw  
Min.set unit:X/Y/Z axis 15m/min  
Feeding speed 0-4000mm/min  
Rapid feeding speed:X/Y/Z axis 0.01mm  
Tool spec.max.dia  $\phi 60 \times 175$ mm  
Max loading weight of tool 3.5Kg  
Net weight 1280Kgs  
Overall size 1770x1650x1300mm  
Size of packing(LxWxH)  
1930x1900x2280mm

**Fourth axis**

Turntable Diameter at least 100mm  
Center Height at least 110mm  
Total thickness at least 136mm

Center bore diameter Dia. At least 20H7x12  
Locating Key Size at least 10mm  
T-slot size 4-6mm  
Max speed 16.6 rpm  
Output power 0.5kW  
Motor Torque at least 2Nm  
clamp torque at least 150 Nm  
Air clamp torque at least 65 Nm  
Load capacity Horizontal at least 35kgs  
Load capacity vertical at least 20 kgs  
Max torque capacity at least 200 Nm

**CNC Machine Controller**

Controlled axis at least 4-axis  
highest speed up to 120 m / min  
maximum feed rate up to 30 m / min

**Accessories:**

Avr 15kva 1pc  
Air Compressor 5.5hp  
3 PHASE 1 set  
Cutting oil 1 pale  
Maintenance oil 1 pale  
Milling Chuck BT30-ER20-80L 8 PCS  
Milling collet set - 1pcs - er32 (1-21mm)  
2sets  
Pull stud for BT30 12 pcs  
Face Mill Cutter With 10pcs  
Inserts 1 set  
Facemill Arbor 1 pc



	<p>Flat End Mills (3mm,5mm, 8mm, 10mm, 12mm)5 pcs each 1 set  Ball End mills (3mm,5mm, 8mm, 10mm, 12mm) 5 pcs each 1 set  Drill bit set 1-13 mm 1 set</p>			
9	<p>BHN testing machine -220V, portable hardness tester, with standard hardness test block</p>	1	1	<p>Within 90 days upon receipt of the Notice to Proceed</p>
10	<p>Fatigue testing machine-computer control, dynamic load, mechanical load, max capacity&lt;1000KN</p>	1	1	<p>Within 90 days upon receipt of the Notice to Proceed</p>
11	<p>NDT Phased Array Ultrasonic Testing Equipment for Weld Crack Detection  Phased array UT</p> <p>Consisting of:  UT with Installed Applications; Encoder Module with USB and X &amp; Y Encoder Inputs; Lithium Ion (Installed) Rechargeable Battery Pack; External Battery Pack; Lithium Ion Battery Charger /AC Power Supply; Transport Case; Soft Case; Quick Start Operating Card; Operating Manual on USB; with SOFTWARE</p> <p>Specification:</p> <ul style="list-style-type: none"> <li>- at least 10 inch Diagonal Touch Screen Display</li> <li>- at least 1024 x 768 pixel resolution</li> <li>- Data Storage: at least 128GB SSHD</li> <li>- Ingress Protection</li> <li>- T.O.F.D ready</li> <li>- PA Channel: at least 32:32 PR</li> <li>- PA Aperture: at least 1-32elements</li> </ul> <p>Includes:</p> <p>1 unit PA Probe, at least 4MHz, at least 16elements  1 unit Flat Wedge  1 unit Mini Encoder  1 unit Calibration Block</p> <p>Phased Array UT Hands-on Training (5days) for 2 pax</p>	2	2	<p>Within 90 days upon receipt of the Notice to Proceed</p>



	<ul style="list-style-type: none"> <li>-at least 2 hp, 50-150psi, 220V single stage axial compressors</li> <li>-at least 2 hp, 50-150psi, 220V single stage screw compressors</li> <li>-at least 2 hp, 50-150 psi, 220V single stage diaphragm compressors</li> <li>-at least 2 hp, 50-150psi, 220V single stage vane compressors</li> </ul>			
4	<p>Diesel Engine Test rig:</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>-At least 2-liter direct-injection diesel, at least 60 hp and at least 99 Nm of torque.</li> <li>-With attached at least 4-speed manual transmission</li> <li>-With frame and wheels</li> </ul>	1	1	Within 90 days upon receipt of the Notice to Proceed
5	<p>Gasoline Engine Test Rig:</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>-At least 1.2, 1200 cc, 4-cylinder Petrol engine powers, 99 hp of power and 99 Nm torque.</li> <li>-With attached at least 4-speed power manual transmission,</li> <li>- With frame and wheel</li> </ul>	1	1	Within 90 days upon receipt of the Notice to Proceed
6	Reynolds apparatus -reynolds equipment apparatus, hydrodynamic, customized, 220v, 50hz	1	1	Within 90 days upon receipt of the Notice to Proceed
7	Circular saw – 1800W with Protective Spectacles	1	1	Within 90 days upon receipt of the Notice to Proceed
8	<p>Milling Machine (CNC)</p> <p>Size of worktable(LxH) at least 810×240mm</p> <p>Max load at least 100 kg</p> <p>T slot(Width x Qty x Spaces) 16mm×3×60mm</p> <p>X/Y/Z-Axis travel at least 380×240×370mm</p> <p>Distance between spindle nose and table at least 60-430mm</p> <p>Distance between spindle center and column at least 309mm</p> <p>Max.spindle speed range at least 100-6000 rpm</p> <p>Tool magazine at least ATC 12 pcs</p> <p>Spindle servo motor power at least 2.2/3.7Kw(servo)</p> <p>Positioning accuracy (300mm) 0.025mm</p> <p>Repeatability accuracy (300mm) 0.015mm</p>	1	1	Within 90 days upon receipt of the Notice to Proceed



## Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Number		Qty.	Total	Delivered, Weeks/Months
1	<p>Pump Test Rig: Includes: -at least 2 hp, 50-150psi, 220V single stage centrifugal pump -at least 2 hp, 50-150psi, 220V single stage reciprocating pump -at least 2 hp, 50-150psi, 220V single stage gear pump -at least 2 hp, 50-150psi, 220V single stage axial pump -at least 2 hp, 50-150psi, 220V single stage screw pump -at least 2 hp, 50-150 psi, 220V single stage diaphragm pump -at least 2 hp, 50-150psi, 220V single stage cavity pump</p>	1	1	within 90 days upon receipt of the Notice to Proceed
2	<p>Fan Test Rig: Includes: Industrial ventilation large air flow high efficiency Professional Exhaust Fan axial flow fans At least 3.5KW, 220V, belt type, at least 1000rpm, at least 20,000 m3 air flow, pressure at least 200Pascals. - The transmission mode of this product is belt type transmission, with compact structure, aluminum blades, explosion-proof function, the blades can be unscrewed with the shell, with large air volume and low noise function.</p>	1	1	within 90 days upon receipt of the Notice to Proceed
3	<p>Compressor test rig: Includes: -at least 2 hp, 50-150psi, 220V single stage centrifugal compressors -at least 2 hp, 50-150psi, 220V single stage reciprocating compressors</p>	1	1	within 90 days upon receipt of the Notice to Proceed