REQUEST FOR QUOTATION

Large Equipment for NJDOT Laboratories

STATE OF NEW JERSEY
Honorable Philip D. Murphy, Governor
Honorable Sheila Y. Oliver, Lt. Governor

DEPARTMENT OF TRANSPORTATION
Francis K. O'Connor, Commissioner

April 7th, 2025

Important Dates

Question Cut-Off:	April 18th, 2025 @ 10:00 AM Email: dot-ems_bid.procurement@dot.nj.gov
Answers to Bid Questions:	Bidders are encouraged to monitor the NJDOT – EMS website daily for updates, changes and responses to questions through the submission due date. http://www.nj.gov/transportation/business/procurement/ems/current.shtm
Bid Opening:	May 6th, 2025 @ 10:00 AM Email: dot-ems_bid.procurement@dot.nj.gov Please identify the Project Name in the subject line of your e-mail. Quotes sent to any other e-mail address may result in the quote being rejected. The quote must be submitted in PDF format. No other format will be accepted.
Procurement Contact:	Nikki Ghorbani Email: dot-ems_bid.procurement@dot.nj.gov

1.0 Purpose

The purpose of this Request for Quotation is for the purchase of Large Equipment needed by various NJDOT Laboratories.

Per the specifications listed below. The description and parts are minimum requirements and are provided for reference. Equivalent or better equipment may be acceptable as substitutions.

2.0 Specifications

2.1 CEMENT LAB

1. Heavy-Duty Chipmunk Jaw Crusher (Quantity 1)

   - Model LC-35;
   - Sealed heavy bronze bearings are protected from dust and dirt, and lubricated by grease cups;
   - 110V;
   - Unit has a 3hp/1 Phase motor while LC-36 is a 3hp/3 Phase motor;
   - 60Hz;
   - 1 Phase;
   - Jaw size is 4x9in (101.6x228.6mm) with a 4x2.375in (101.6x60.3mm) opening;
   - Reduction adjusts for 1/16–5/8in (1.6–15.9mm) particle size; and
   - The maximum feed size is 2.4x4in (61x101.6mm), with an 800lb (362.8kg) capacity per hour.

2. 5qt Laboratory Mixer, ASTM/AASHTO Compliant (115V, 60Hz) (Quantity 1)
    - **Model:** MA-52X;
    - Laboratory Mixer has a capacity of 5qt (4.7L);
    - Unit is supplied with a 1/6hp motor and selectable operating speeds of 139, 285, and 591rpm;
    - They are constructed of durable metal and have heavy-duty motors with direct gear drives to assure constant mixing speeds under load;
    - Locking hand-lever raises and lowers bowl; and
    - This mixer is factory modified with an included MAA-30A Bracket to meet the requirements of ASTM C305, C227, and C109 (AASHTO T 162 and T 106).

3. 12qt Laboratory Mixer (115V, 50/60Hz) (Quantity 1)
    - **Model:** MA-54A;
    - Laboratory Mixer has a 12qt (11.4L) capacity;
    - Unit is supplied with a 1/2hp motor with selectable mixing speeds of 107, 198, and 365rpm;
    - A 6ft (1.8m) power cord is included;
    - Optimal for mixing large batches of cement, asphalt, and grout in a lab setting; and
    - Product dimensions of 19x23x29in (482.6x584.2x736.6mm) WxDxH.

4. Lab Oven 27 cubic feet (Quantity 1)

    - Model DOL-270A (Despatch LBB2-27 or equivalent);
    - Required capacity of 27.7 cubic feet;
    - Electrical operation required is 240V, 50-60Hz, 21.7 Amps;
    - Forced convection from top mounted fan and plenums on sides of chamber;
    - Two chamber doors and includes two heavy-duty shelves with 200lb (91kg) capacity;
    - Temperatures up to 204°C (400°F);
    - Required interior dimensions of 37 x 37 x 35in (939.8 x 939.8 x 889mm), WxDxH;
    - Rated temperature uniformity is ±3° at 150°C;
    - 304 Stainless steel interior;
    - Digital control with 3/4 inch (1.9cm) LED display;
    - Nickel plated shelves - by model rated to 50 or 200lbs (23 or 91kg);
    - High-limit control;
    - Five year heater warranty; and
    - UL and C-UL listed.

5. Environmental Chamber Binder

    - Model Tenney Junior Compact Temperature Test Chamber or equivalent;
    - Required capacity of 1.2 cubic feet;
    - Temperature Range of -68°C to +180°C;
    - Control: +/-1.0°C;
    - Viewing windows up to 6" x 8" and thermally insulated;
    - Interior lighting • Shelving, adjustable and removable;
    - Automatic CO2 or LN2 cooling boost system;
    - Ability to accommodate recording instruments;

- Stacking option for bench model;
- 50 Hz -CE mark available; and
- NIST Calibration.

6. Gravity Oven 3 cubic feet (Quantity 1)

- Model Blue M GO-90;
- Required temperature uniformity ≤ ± 3%;
- Required Temperature control tolerance ≤ ± 1°C;
- Stainless steel interior with powder-coated exterior;
- Vertical up-gravity convection air flow;
- Adjustable shelving provides flexible workspace configuration;
- 2 Perforated shelves;
- Independent and adjustable over-temperature protection;
- Stainless steel interior;
- Required temperature range of +10 to 260°C;
- Required interior dimensions of 450 x 450 x 450mm; 17.7 x 17.7 x 17.7in; and
- Required capacity of 3.2 cu. ft.

2.2 RESEARCH LAB

Binder Incubator: Forced Air, 14.13 cu ft Capacity, 31 ¾ in x 36 3/8 in x 6 3/8 ft, Digital QTY: 3

1. Brand: BINDER or Equivalent
2. Product Type: Incubator
3. Convection Type: Forced Air
4. Capacity: 14.13 cu ft
5. Refrigerated: Refrigerated
6. Voltage: 100/120V
7. Wattage: 1.4 kW
8. Maximum Temperature Setting: 100 °C
9. Minimum Temperature Setting: -10 °C
10. Temperature Accuracy Tolerance: 0.1 %
11. Temperature Uniformity: 0.2 +/- K @ 37 °C
12. Interior (LxWxH): 19-1/8 in x 25-5/8 in x 4-1/4 ft
13. Interior Height: 4-1/4 ft
14. Interior Width: 25-5/8 in
15. Interior Depth: 19-1/8 in
16. Overall Depth: 31-3/4 in
17. Overall Width: 36-3/8 in
18. Overall Height: 6-3/8 ft
19. Exterior (LxWxH): 31-3/4 in x 36-3/8 in x 6-3/8 ft
20. Display Type: Digital
21. Number of Shelves: 2
22. Maximum Humidity: 70 %
23. Humidity Range: 70 %
24. Programmable: Yes
25. Alarm Indicator Type: Audio and Visual
26. Alarm Included: Yes
27. Shelf Capacity: 66.14 lb

28. Shelving Material: Stainless Steel
29. Shelving Type: Perforated
30. Interior Material: Tempered Safety Glass
31. Refrigerant Type: R-134a
32. Weight: 487.22 lb
33. Door Lock Type: Keyed Lock
34. Humidity – Maximum: 70 %
35. Manufacturer Part Number: 9020-0305
36. Standards: DIN 12880
37. UNSPSC: 0
38. Country of Origin: Germany (subject to change)

2.3 AGGREGATE LAB

1. Rotary Silent Sifter (115V; 60Hz) (Quantity 3)

    - Digital timer, 99 minutes, 59 seconds at ±1sec;
    - Specifically engineered with advanced soundproofing materials and techniques;
    - 16–18dB quieter than standard rotary sifter;
    - Ergonomic test positioning knob;
    - 3 rubber covered rollers;
    - 10 Tapping hammers;
    - Rotary sifter cabinet;
    - Door safety switch;
    - Sieve turntable;
    - Countdown timer with LED display;
    - 8 and 12 in sieve turntable opening; and
    - Steel support stand.

2. Soil Dispersion Mixer (115V, 60Hz)
    - Soil dispersion mixer for hydrometer analysis of soil;
    - 29 oz capacity;
    - 1/3 hp motor with 13,000, 16,000 and 18000 rpm speeds;
    - Manual pulse switch;
    - Meets ASTM and ASASHTO requirements T88 Soil dispersion mixer; and
    - Baffled dispersion cup.

3. Lab Oven 27 cubic feet (Quantity 2)

    - Model DOL-270A (Despatch LBB2-27)
    - Required capacity of 27.7 cubic feet
    - Electrical operation required is 240V, 50-60Hz, 21.7 Amps
    - Forced convection from top mounted fan and plenums on sides of chamber
    - Two chamber doors and includes two heavy-duty shelves with 200lb (91kg) capacity
    - Temperatures up to 204℃ (400℉)
    - Required interior dimensions of 37 x 37 x 35in (939.8 x 939.8 x 889mm), WxDxH
    - Rated temperature uniformity is ±3° at 150°C

- 304 Stainless steel interior
- Digital control with 3/4 inch (1.9cm) LED display
- Nickel plated shelves - by model rated to 50 or 200lbs (23 or 91kg)
- High-limit control
- Five year heater warranty
- UL and C-UL listed

4. Lab Oven 18 cubic feet (Quantity 1)

- Model DOL-180A (Despatch LBB2-18)
- Model Required capacity of 18 cubic feet
- Electrical operation required is 240V, 50-60Hz, 16.7 Amps
- Two chamber doors and includes two heavy-duty shelves with 200lb (91kg) capacity
- Temperatures up to 204℃ (400℉)
- Required interior dimensions 37 x 24 x 35in (939.8 x 622.3 x 889mm), WxDxH
- Rated temperature uniformity is ±3° at 150°C
- 304 Stainless steel interior
- Digital control with 3/4 inch (1.9cm) LED display
- Nickel plated shelves - by model rated to 50 or 200lbs (23 or 91kg)
- High-limit control
- Five year heater warranty
- UL and C-UL listed

5. Hydrometer Jar Bath (Quantity 2)

- Model H4239A (Humboldt or equivalent);
- Complies with AASHTO T88;
- Bath provides a 68°F (20°C) ambient temperature throughout the unit;
- Unity includes an integral heater and chiller. The control processor in the H-4239A;
- Provides a consistent bath temperature of 68°F (20°C) accurate to within 0.1% of input span ±1°F;
- Bath can maintain temperatures within its temperature range of 50°F (10°C) and 120°F (49°C);
- Bath is fully-insulated;
- Includes a circulating pump, which ensures a constant water temperature throughout bath; and
- Includes a stainless steel shelf, which supports specimens while allowing 2" of free circulating water above and below specimens.

6. Three Wheel Polishing Device
   - Polishes unbound aggregates and asphalt mixtures;
   - Testing with Dynamic Friction Tester;
   - Wheels polish at a 11.2” diameter (matches DFT);
   - Supports AASHTO PP103 and AASHTO PP104 standards;
   - Voltage 115/130VAC 60Hz;

- ½ hp, three-phase gear motor;
- 115V, 60Hz submersible water pump; and
- RPM range: 50-70.

7. Testing Screen Shaker (Quantity 3)

- Model TM-6;
- Must have a 7-tray capacity to accommodate testing specifications;
- Requires a fully-enclosed structure to reduces sound and control dust;
- No bolting or installation is required via a counter-balanced drive;
- Requires an integral hopper to evenly disperse samples;
- Requires an interlock switch that shuts down the machine when doors are open;
- Requires a hydraulic foot pedal that easily tightens or releases screen trays;
- Integral, digital timer enables repeatable tests;
- Can accommodate a minimum sample volume of $1.6ft^3$ (45.3L);
- Requires built-in electronic digital controller has an LED display; and
  Requires a capacitor-start 1/3hp motor.

2.4 BITUMINOUS LAB

1. Oven: SPX BLUE M ELECTRIC QTY: 1
   - 3 SHEVES
   - DEPT APRX 28”
   - HEIGHT APRX 73”
   - WIDTH APRX 64”
   - AMPERES 60
   - VOLTS 240
   - MAX HP (3 PH)
   - CAPABLE OF READING TEMPRETURE UP TO 300°C

2. Vacuum Pump QTY: 2
   - DUOSEAL Vacuum Pump:
   - hp, 1 Phase,
   - 115/230V AC,
   - 5.6 cfm Free Air Displacement,
   - Mfr. Model1402B-01

3. Pump Saver QTY 2:
   - Thermoelectric
   - Cooling chamber
   - Input and output ports
   - Operates of 120V

4. Vibrating table QTY 4:
    - Syntron Model VP-51-D1
    - Amps: 4.5

2.5 CHEMICAL LAB

1. Mechanical Convection or Forced Circulation Oven Qty: 2
    - Convection Technology: Mechanical Convection or Forced Circulation
    - Temperature Range: 50C to 250C or 50C to 330C
    - Chamber Volume: around 100 liter or 3.5 cuft
    - Number of shelves: at least 2
    - Voltage: 110
    - Timer functions: choice of weekly or hourly or real time
    - Adjustable Fan Speed: Yes
    - Interior Material: Stainless Steel
    - Automatic Over Temperature Alarm

2. Optical Emission Spectrometer QTY: 1

The instrument must be a benchtop, dual viewing ICP-OES for the analysis of a variety of metals in different matrices. The instrument should be supplied with PC and instrument operation/data analysis software and cooling system as further specified below.

1. The total width of instrument should not exceed 65 cm (26”), exclusive of autosampler and data system.
2. The instrument must be operational with 120 cfm of airflow at the external ventilation system.
3. The instrument must monitor gas pressures and flows, interlocks, water flows, and plasma stability. The interlocks must be continuously monitored and if any interlock is interrupted, the plasma is shutdown automatically.
4. The plasma ignition must be software-controlled and totally automated. The plasma can be ignited automatically at a user-determined time and turned off automatically after an analysis.
5. The plasma must be viewable through a window on the instrument as well as through the software. Viewing the plasma is desirable for both method development and troubleshooting.

6. The system must include a computer-controlled, pneumatically-operated shutter system that shields the detector between samples from long exposures to UV radiation.

7. The instrument must be able to operate for best results and detection limits using a total of 9 L/min of argon (including plasma, auxiliary, nebulizer, and any other flows required for normal operation including any cooling requirements.). Higher argon usage will significantly increase operating costs for the instrument.

8. The instrument must be able to be turned completely off between uses (i.e. no electrical power or gases). The instrument must be ready to run samples with a warmed-up plasma within ten (10) minutes of applying power and gases.

9. Dual-viewing optics are required to allow the plasma to be viewed radially or axially. Dual viewing of the plasma provides the required flexibility by allowing trace and major concentrations of an element to be determined with the fewest possible interferences and wavelengths. The instrument must allow selection of either viewing mode at any wavelength in a single method.

10. The instrument must enable automated optimization of the plasma alignment in both the vertical and horizontal directions. The radial view must allow viewing 10 - 25 mm above the flat induction plates or load coil to reduce or eliminate the Easily Ionized Element (EIE) effect. The torch must be able to be adjusted for plasma viewing while the plasma is lit.

11. The instrument should have a compressed air shear gas to cut off the cool end of the axial plasma to reduce material deposition on the entrance optic as well as to reduce self-absorption and physical interferences. Other interface designs either require active cooling (requiring additional argon gas) or routine maintenance, and are not acceptable.

OPTICAL SYSTEM for Optical Emission Spectromer :

1. The instrument must have an echelle-based spectrometer covering a spectral range of 165 - 900 nm. The spectral resolution of the system must be at least 0.009 nm at 200 nm.

2. The optical system must have a real time wavelength stability correction to automatically adjusting wavelength shifts by actively monitoring a neon emission lamp on the same detector.

3. The instrument must use a solid state detector (charge coupled device) that is optimized for performance across the entire emission spectrum.

4. The instrument must automatically adjust integration times for intense and trace signals.

5. The sealed optical system must be purgeable with nitrogen to achieve best performance in the low UV region (165 – 190 nm).

PLASMA GENERATION Optical Emission Spectromer:

1. The RF generator must be solid state with an operating frequency of 40 MHz. The generator must have an optimal power output range up to 1500 watts (in both axial and radial viewing modes) and be software controllable in 1-watt increments. The RF generator must have power transfer efficiency into the plasma of at least 80% and a power output stability of 0.1% or better.

2. The RF generator must have a "free-running" design that provides results in instantaneous compensation for impedance changes. This allows for switching between sample matrices with no need for operator adjustment of the plasma.

SAMPLE INTRODUCTION SYSTEM for Optical Emission Spectromer:

1. The instrument must incorporate a high precision 4 channel, 12 roller peristaltic pump. The pump must have a tubing saving mode that slowly turns the peristaltic pump back and forth once the plasma is extinguished. This feature saves pump tubing from flattening and allows the ICP to start-up under the proper conditions.

2. The instrument must include an HF-resistant spray chamber and nebulizer. Options for other sample introduction designs should be available from the manufacturer and from third parties vendors

3. The torch must be mounted in a vertical position for highest matrix tolerance.

4. The operator must be able to change torch injectors without having to remove the torch assembly from the instrument. The instrument must include a quick-change torch module so the torch can be removed or changed quickly without excessive torch alignment. The sample-introduction cassette should allow adjustment (with the plasma on) for maximum performance in different matrices. No tools must be required for torch or sample-introduction cassette removal.

SOFTWARE for Optical Emission Spectromer:

1. Software must allow users to be able to easily change instrument parameters (such as number of replicates) without creating a new method prior to measurement to facilitate methods development efficiencies.

2. The software must allow for Priority samples to be inserted at any time during an analysis without stopping the actual sequence. Must also allow many samples to be appended into a run without interrupting the run.

3. The software must be able to display calibration curves for all of the elements analyzed during or anytime after the run.

4. Calibration curves must be stored and be able to be recalled or modified for later use.

5. Calibration equations must include linear, weighted linear, non-linear, linear and non linear bracketing, and forced through blank options.

6. The software must have a library of analytical wavelengths containing all the major wavelengths for all elements.

7. The instrument must have the ability to do two forms of spectral interference correction. Traditional Interfering Element Corrections (IEC) must be available and the system must be able to calculate these values automatically. The system must also have advanced peak deconvolution algorithms (PLS) to help correct for severely structured background.

8. Must include a Continuous graphics mode. Continuous graphics should allow one to look at how the instrument is operating by acquiring and displaying data in real time. The operating parameters of the instrument and RF generator can be modified as data are acquired, allowing method optimization to be further enhanced. For example, RF power and nebulizer flow can be changed while their impact is monitored. Peristaltic pump speed can be set to improve noise and signal intensity, maximizing system performance.

9. Must include a detection limit diagnostic that is a one button diagnostic that causes measurements of blanks and calculations of detection limits—number of replicates and standard deviation multipliers should b fully user programmable.

MISCELLANEOUS needs for Optical Emission Spectromer :

1. The instrument must be new and a model currently in production. Refurbished or demonstrator instruments are not acceptable.

2. The system must include a spares kit that includes commonly required replacement items and consumables.

3. The system must include installation and one year warranty.

4. The system must include a guaranteed 10-year Service Contract with the cost included in the bid price.

CHEMICAL LAB CONTINUED

3. ColorFlex L2 Spectrophotometer QTY: 1
   - ColorFlex L2 45 degree/0 degree Spectrophotometer
   - 110 v and 220 v
   - Computer and Monitor
   - Instrument Standards
   - Designed for compact, high-performance benchtop color measurement with a 45/0 degree geometry
   - 32 mm (1.26" port plate providing a 25 mm (1.0") area of view.
   - 7" touch screen interface for operation and data display
   - Instrument standards
   - Port plate
   - Power supply
   - CalPlus (HH) for calibration and maintenance services, including a full 2-year warranty and prioritiy service.
   - Virtual Instrument Training
   - 12 month warranty from date of installation
   - Installation

4. Infrared Machine QTY: 1
   1. Able to test construction materials such as paints and admixtures
   2. Able to test type of materials: Liquids and Solids
   3. Type of analysis that will be able to performed: Qualitative Analysis
   4. Correlation Threshold---Paints: 0.9800 or 98 %, Admixtures: 0.9000 or 90 %
   5. Able to develop a new method for new approval of paints and admixtures
   6. Easily transfer the testing data into the new equipment
   7. Easily able to print and save all test results
   8. Must be connected with a Printer and a PC with Window 10 or newer versions
   9. Able to save all test runs in connected PC for future reference
   10. The report of a test result must be able to show the comparison between approved and acceptance sample
   11. The system must include a guaranteed 10-year Service Contract with the cost included in the bid price
   12. Ability to transfer IR fingerprints from Perkin Elmer Spectrum One FTIR Spectrophotometer machine to new model equipment.

2.6 PAVEMENT ANALYSIS

1. Ignition Oven QTY: 1
   - Thermolyne
   - NCAT Asphalt Content Furnace,
   - 220-240V, 60Hz, 20/27 Amps

- Oven has a default temperature of 538°C, with the ability to enter sample weight, up to samples of 5000 grams.
- The oven also utilizes an electronic internal balance to monitor sample weight to confirm the end of the testing period. QTY**:** 1

2.7 Liquids Lab

Vacuum Oven QTY: 1

- 120 V, 60 Hz) Oven with minimum 19L capacity able to achieve 220°C that features vacuum and purge valves.
- Radiant heating system allows the use of the chamber for vacuum applications.

Dynamic Shear Rheometer QTY: 1

- We are specifically requesting a TA Rheometer above any other Manufacturer. The liquids Lab currently has two different Rheometers from two different Manufacturers in our laboratory, Malvern and TA Instruments. Our Malvern Rheometer has always provided us with unreliable, inconsistent results. The liquids lab constantly compares its test results with the results provided by the materials manufacturer and time and time again, our TA is almost always identical where our Malvern is almost always inconsistent with our Producers results. The Liquids Lab currently has numerous plates, tools and various other parts that are not universal and only work on TA Rheometers. Should the Department decide to purchase through a vendor other than TA, not only would these parts and services be rendered useless, it would cost the Department in excess of $10,000 to purchase these items again in order for them to be compatible with whatever machine the Department decides to purchase. Its ease of use and consistent, repeatable results is what is most appealing to the Technicians that perform the testing in the Lab. Please include a quote for a two year service contract with purchase.
  The TA Discovery Hybrid Rheometer uses hardware and software to measure G' and G" of low viscosity materials with a high level of accuracy. Discovery HR 10 - TA Instruments

Saybolt Viscometer QTY: 1

- (Koehler SV4000 Saybolt Viscosity Bath for Automatic Viscosity Timing
- 115V, 60Hz
- Bath able to maintain constant temperature using chemically resistant plates, with the option of 1 to 4 automatic timers for viscosity measurements using tubes and orifices. The timer starts automatically at the beginning of a test and can sense the end point and display it.

Rolling Thin Film Oven QTY: 1

- Double walled insulation oven with temperature control, up to 200°C and a carousel for loading up to eight samples.
- The oven is equipped with a long taper needle valve for air flow adjustment and an air pressure range up to 100 psi.

- The double wall construction and fiberglass insulation allow for efficient energy use. This specific model is essential to our lab since it is the most accurate, user friendly, and long-lasting.

2.8.1 South Region

Thermolyne Ncat Asphalt Furnace QTY: 1

- The Thermolyne Ncat Asphalt Furnace is used for AASHTO T 308 / ASTM D6307 Determining the Asphalt Binder Content of Hot Mix Asphalt (HMA) by the ignition method. The Ncat is a faster safer more accurate method of testing binder content. Binder content testing is required for mix design approvals and for QA testing done to ensure compliance with NJDOT specifications on department projects.

Instrotek Smart Loader QTY: 1

- The Instrotek Smart Loader is a multiuse load frame used for Asphalt and Soil Compression testing. The Smart Loader is used for IDEAL -CT (ASTM D8225), SCB Cracking Tests (TP124, ASTM D8044), Shear Bond Strength Test (Tex249-f), IDEAL-RT(rutting test) and TSR (AASHTO T283). The Smart Loader is also used for Balanced Mix Design. The Smart Loader comes with all the necessary accessories, testing jigs, and analysis software to run the above-mentioned testing quickly and efficiently. Performance testing as it referred to in the Asphalt industry, is becoming an increasingly important tool in the departments Quality assurance program and continues to be used in pilot projects throughout the New Jersey Department of Transportation

Constant Temperature Bath QTY: 1

- CT-2000 CTB 100/115 VAC 50/60 Hz
- Has to maintain the bath temperature constant within 0.2 °C [0.5 °F] during the verification process.
- Compare the readings of the reference temperature measuring device to the temperature measuring device at two temperatures at least 15 °C [30 °F] apart.
- Capable of maintaining temperatures of 10 to 100°C within 0.01°C and temperatures of 101 to 150° within 0.03°C.
- Temperature range: 10 °C to 150 °C*

2.8.2 NORTH REGION

Automatic Compression Testing Machine

- 2000kN Capacity, 10V, 6Hz
- Platen Set for 4 x 8 inch concrete cylinders
- CTM stand 2000kN CTM
- Horizon Software, Civil Engineering Primary Platform
- Horizon Civil Engineer Library

- Installation and Calibration

2.9 Scales Needed

2.9.1 Chemical Lab & Cement Lab

- Analytical Balance Mettler; Qty: 6
    - 0.1 mg readability
    - Chemical resistance
    - USB and RS232 connection
    - max capacity 220 grams
- Precision Balance QTY: 4
    - 6200 g capacity
    - 0.01 readability
    - Connectivity w/ Ethernet
    - Automatic adjustment
    - Guided Leveling

2.9.2 Soils & Aggregate Lab

35 kg Scale; Qty 4

- Model Ohaus Ranger 7000 Compact Bench Scale
- 77lb (35 kg) capacity scale
- 0.5g (0.001lb) readability
- 14.8 x 12.2in (377 x 311mm), WxD weighing platform
- g, kg lb, and oz selectable weighing units
- Weigh-below density, percent weighing, differential weighing, filling, and more
- The display features a 4.3in (109mm) TFT graphical LCD
- The base and indicator housing is die-cast metal, and the platform is stainless steel
- Weigh-below hook

Precision Balance QTY: 1

- Mettler Toledo MA2002
- 2200 g capacity
- 0.01 readability
- Connectivity w/ Ethernet
- Automatic adjustment
- Guided Leveling

2.9.3 NORTH REGION

- Ohaus EX12001- QTY: 2
    - Explorer Precision High Capacity Balance with Auto Cal Internal Calibration
    - Capacity 12,000g, Readability 0.1g
    - Platform 377 x 311 mm

- Ohaus EX35001 QTY: 1
    - Explorer Precision High Capacity
    - Maximum Capacity 35,000 g
    - Readability 0.1 g
    - Pan Size 14.8 in x 12.2 in

3.0 Installation

The Vendor shall furnish all necessary labor and equipment to install components described within its quote. All work shall be performed by factory trained technicians during normal working hours (8am to 4pm), Monday through Friday.

4.0 Testing

No testing. Equipment will need to be calibrated.

5.0 Freight

The above equipment shall be shipped to:

NJDOT North Region HQ
200 Stierli Court
Mount Arlington NJ, 07856

The freight cost for delivery shall be included.

6.0 Delivery

NJDOT North Region HQ
200 Stierli Court
Mount Arlington NJ, 07856

Delivery confirmed upon award.

Delivery Point of Contact

Rick Webber (609-649-8235)

Delivery date shall be confirmed at the time order is placed.

7.0 Warranty

The Vendor agrees to immediately replace and install free of charge any part that may break, fail or malfunction by reason of defective material or workmanship for a minimum period of one (1) year or the manufacturer's standard warranty, whichever is longer, from the date of acceptance by the NJDOT. Bidder must provide warranty information with its proposal.

8.0 Quote Content

A quotation must arrive at NJDOT in accordance with this RFQ, within the time frame indicated to the e-mail address noted in this RFQ. The quote should be submitted in two (2) sections with the content of each as indicated below.

A. Section 1 – Forms

The Vendor must submit all the forms listed on the checklist. The checklist and required forms can be found at the following link: https://www.state.nj.us/treasury/purchase/forms/Waiver%20and%20DPA%20Contract%20Checklist.pdf.

All required DPA forms should be completed and submitted in their entirety with your bid. Failure to submit the required DPA Forms may result in your bid being rejected.

NOTE: The Vendor must be registered in NJSTART to qualify for an award. NJSTART registration link as follows: https://www.njstart.gov/bso/

B. Section 2 – Quote and Price

The Vendor may supply their own quote; however, the price sheet form should be submitted indicating the total price for all aspects of this RFQ that the vendor is bidding upon. **Failure to submit this form may deem your bid non-responsive and your bid will be rejected.**

Vendors can bid on this entirely or partially. Each piece of equipment can be awarded separately.

The quote must be submitted in PDF format. No other format will be accepted.

9.0 Negotiation and best and final offer (BAFO)

After evaluating the quote, NJDOT may establish a competitive range and enter into negotiations with one (1) Bidder or multiple Bidders within this competitive range. The primary purpose of negotiations is to maximize the State's ability to obtain the best value based on the mandatory requirements, evaluation criteria, and cost. Multiple rounds of negotiations may be conducted with one (1) Bidder or multiple Bidders. Negotiations will be structured by NJDOT to safeguard information and ensure that all Bidders are treated fairly.

Negotiations will be conducted only in those circumstances where they are deemed by NJDOT to be in the State's best interests and to maximize the State's ability to get the best value. Therefore, the Bidder is advised to submit its best price quote in response to this solicitation since NJDOT may, after evaluation,

make an award based on the content of the initial submission, without further negotiation and/or Best and Final Offer (BAFO), with any Bidder.

10.0 Award

A. Award of this contract will be based upon the lowest responsible bid.

B. The New Jersey Department of Transportation (NJDOT) reserves the right to reject all bids.

C. NJDOT reserves the right to award this project in whole, in part or not make an award.

D. Awarded Contractors, along with their proposal amount will be posted on the NJDOT, Equipment Materials & Supplies, Awarded Projects' webpage.

E. Award of this contract shall not be interpreted to mean approval to proceed until an authorized purchase order is issued to the contractor.

11.0 Additional Notices & Requirements

A) DIANE B. ALLEN EQUAL PAY ACT

Pursuant to N.J.S.A. 34:11-56.14(b), any employer, regardless of the location of the employer, who enters into a contract with a public body to perform any public work for the public body shall provide to the Commissioner of the New Jersey Department of Labor and Workforce Development, through certified payroll records required pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.), information regarding the gender, race, job title, occupational category, and rate of total compensation of every employee of the employer employed in the State in connection with the contract. The employer shall provide the commissioner, throughout the duration of the contract or contracts, with an update to the information whenever payroll records are required to be submitted pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.).

Information regarding the Diane B. Allen Equal Pay Act and its requirements may be obtained from the New Jersey Department of Labor and Workforce Development (LWD) web site at: https://nj.gov/labor/equalpay/equalpay.html

LWD forms may be obtained from the online web site at: https://nj.gov/labor/forms_pdfs/equalpayact/MW-562withoutfein.pdf

B) NJDOT is required to comply with P.L. 2012, c. 4, which requires all agencies to encourage awarded contractors to notify their employees of organ and tissue donation options.

"Organ and Tissue Donation: As defined in section 2 of P.L. 2012, c. 4 (N.J.S.A. 52:32-33), contractors are encouraged to notify their employees, through information and materials or through an organ and tissue awareness program, of organ donation options. The information provided to employees shall be prepared in collaboration with the organ procurement organizations designated pursuant to 42 U.S.C. §1320b-8 to serve in this State."

C) ANTI-DISCRIMINATION

All parties to any contract with the State agree not to discriminate in employment and agree to abide by all anti-discrimination laws including those contained within N.J.S.A. 10:2-1 through N.J.S.A. 10:2-4, N.J.S.A. 10:5-1 et seq. and N.J.S.A. 10:5-31 through 10:5-38, and all rules and regulations issued thereunder are hereby incorporated by reference.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time.