



NATIONAL INSURANCE PROPERTY
DEVELOPMENT COMPANY LIMITED (NIPDEC)

EXPRESSION OF INTEREST FOR MATERIAL TESTING CONSULTANTS

The P.U.R.E Unit is soliciting 'Expressions of Interest' from competent and experienced Materials Testing Consultants; capable of providing the full range of services as described herein.

1. Background

The P.U.R.E. Unit intends to increase its pool of Pre-qualified Materials Testing Consultants who are sufficiently qualified in the following areas listed below for the purpose of material testing to the American Association of State Highway and Transportation Officials (AASHTO) standards upon request.

- Aggregate Testing
- Asphalt Testing
- Concrete Testing

Firms must be qualified in the Line of Business listed below that covers the various types of testing required.

- 71171506 – Laboratory Testing Services

2. Qualifications of Principal Owner/Staff

Materials Testing Consultant should have at least one (1) person that possesses the following:

• Engineer

- Registered as a Civil Engineer with the Board of Engineering of Trinidad and Tobago. Or
- BSc. in Civil Engineering or any equivalent academic qualification from a recognized institution and five (5) years' experience in the field.
- Working knowledge of the following American Association of State Highway and Transportation Officials (AASHTO) standards or the equivalent American Society for Testing and Materials (ASTM):

• The consultancy should have a working knowledge of the following tests:

• Aggregates

- Sampling of Aggregates AASHTO T-2
- Materials Finer than 75 µm (No. 200) Sieve in Mineral Aggregates by Washing AASHTO T-11
- Bulk Density ("Unit Weight") and Voids in Aggregate AASHTO T-19M
- Organic Impurities in Fine Aggregates for Concrete AASHTO T-21
- Sieve Analysis of Fine and Coarse Aggregates AASHTO T-27
- Mechanical Analysis of Extracted Aggregate AASHTO T-30
- Effect of Organic Impurities in Fine Aggregate on Strength of Mortar AASHTO T-71
- Reducing Samples of Aggregate to Testing Size R-76
- Specific Gravity and Absorption of Fine Aggregate AASHTO T-84
- Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine AASHTO T-96
- Soundness of Aggregate by Use of Sodium Sulphate or Magnesium Sulphate AASHTO T-104
- Clay Lumps and Friable Particles in Aggregate AASHTO T-112
- Lightweight Pieces in Aggregate AASHTO T-113
- Aggregate Durability Index AASHTO T-210
- In Place Density and Moisture Content Soil and Soil-Aggregate by Nuclear Methods AASHTO T-310
- Modified Proctor AASHTO T-180
- Fine Aggregate Angularity AASHTO T-304
- Coarse Aggregate Angularity AASHTO TP-61
- California Bearing Ratio AASHTO T-193
- Flat and Elongated Particles ASTM D4791
- Dynamic Cone Penetrometer in Shallow Pavement Applications ASTM D6951

• Asphalt

- Solubility of Bituminous Materials AASHTO T-44+
- Sieve Analysis of Mineral Filler for Hot Mix Asphalt AASHTO T-37
- Flash and Fire Points by Cleveland Open Cup AASHTO T-48
- Float Test for Bituminous Materials AASHTO T-50
- Ductility of Asphalt Materials AASHTO T-51
- Softening Point of Bitumen (Ring-and-Ball Apparatus) AASHTO T-53
- Recovery of Asphalt Binder from Solution by Abson Method R-59
- Testing Emulsified Asphalts AASHTO T-59
- Sampling Asphalt Materials R-66
- Saybolt Viscosity AASHTO T-72
- Distillation of Cutback Asphaltic (Bituminous) Products AASHTO T-78
- Flash Point with Tag Open-Cup Apparatus for Use with Material Having a Flash Point Less Than 93.3°C (200°F) AASHTO T-79
- Spot Test of Asphaltic Materials AASHTO T-102
- Moisture or Volatile Distillates in Hot Mix Asphalt (HMA) AASHTO T-110
- Mineral Matter or Ash in Asphalt Materials AASHTO T-111
- Quantitative Extraction of Asphalt Binder from Hot Mix Asphalt (HMA) AASHTO T-164

3. Content of EOI Documentation:

In preparing the EOI, the Consultant must give particular attention to and provide the following information:

- Certificate of incorporation/Company Registration.
- Evidence of registration within the OPR Depository.
- Evidence of personnel registration with the Board of Engineering of Trinidad and Tobago.
- Company Profile and Organization structure.
- Police Certificate of Good Character and Certificate of Good Standing (For Business).
- Tax Clearance (Have fulfilled all regulated tax requirements)
- Valid Compliance Certificates must be submitted with the submission. In the event your firm has applied for the Compliance Certificates and was unable to receive same as at the closing date of the EOI, you are allowed to submit the certificates up to a maximum of five (5) working days after the closing of the submission. Please note that Certificates submitted within the same said five (5) working day period must still be valid as at the date the submission closed and in addition must have been applied for prior to the closing of the EOI.

4. Submission of Details

The Materials Testing Consultant must **ONLY** submit a hard copy of the required documents namely the Compliance Certificates, Particular of Proponents and Expression of Interest Letter in Envelope 1.

Envelope 2 should have two (2) copies on flash drives of the aforementioned documents as contained in Envelope 1 **ALONG** with any additional documentation as required in the EOI document and/or required documents as noted in Section three (3) **MUST ALSO** be submitted on both flash drives. Any information as contained on the flash drives are to be considered the full and complete technical/financial EOI submission from the firm. Any missing information or omissions would be at the consultant's risk. The original documents must be prepared in indelible ink and must be signed by the authorized representative of the Consultant.

- The Final Submission Envelope to be placed in the Submission Box shall contain Envelopes 1 and 2.
- The name and address of the Respondent shall be clearly marked on the outside of Envelopes 1 and 2.
- The Final Envelope containing Envelopes 1 and 2 shall be addressed to the **The Manager Procurement – National Insurance Property Development Company (NIPDEC) Limited – 56-60 St. Vincent Street, Port of Spain** and deposited in the Submission Box located at the lobby of the NIPDEC on November 4, 2024 at 2:00 p.m.

Additional Notes:

- Experience range for the Consultant is another proposed marking criterion for Pre-Selection.

All questions related to this Expression of Interest should be sent via email to:

Mr. Curtis Doyle

Procurement Manager

National Insurance Property Development Company Limited

#56-60 St. Vincent Street

Port of Spain

cdoyle@nipdec.com

• Concrete

- Compressive Strength of Cylindrical Concrete Specimens AASHTO T-22
- Making and Curing Concrete Test Specimens in the Field AASHTO T-23
- Obtaining and Testing Drilled Cores and Sawn Beams of Concrete AASHTO T-24M
- Making and Curing Concrete Test Specimens in the Laboratory R-39
- Sampling Freshly Mixed Concrete R-60
- Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading) AASHTO T-97
- Slump of Hydraulic Cement Concrete AASHTO T-119M
- Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete AASHTO T-121M
- Compressive Strength of Concrete Using Portions of Beams Broken in Flexure AASHTO T-140
- Measuring Length of Drilled Concrete Cores AASHTO T-148
- Air Content of Freshly Mixed Concrete by the Pressure Method AASHTO T-152
- Water Retention by Liquid Membrane-Forming Curing Compounds for Concrete AASHTO T-155
- Air-Entraining Admixtures for Concrete AASHTO T-157
- Bleeding of Concrete AASHTO T-158
- Length Change of Hardened Hydraulic Cement Mortar and Concrete AASHTO T-160
- Flexural Strength of Concrete (Using Simple Beam with Centre-Point Loading) AASHTO T-177
- Portland-Cement Content of Hardened Hydraulic Cement Concrete AASHTO T-178
- Air Content of Freshly Mixed Concrete by the Volumetric Method AASHTO T-196M
- Time of Setting of Concrete Mixtures by Penetration Resistance AASHTO T-197M
- Splitting Tensile Strength of Cylindrical Concrete Specimens AASHTO T-198
- Capping Cylindrical Concrete Specimens AASHTO T-231
- Rebound Hammer Test ASTM C805

• Asphalt Cont.

- Determination of asphalt binder content of asphalt mixtures by ignition of the binder in accordance with AASHTO T 308
- Bulk Specific Gravity of Compacted Hot Mix Asphalt Mixtures Using Saturated Surface-Dry Specimens AASHTO T-166
- Sampling Bituminous Paving Mixtures AASHTO T-168
- Effect of Heat and Air on Asphalt Materials [Thin-Film Oven Test] AASHTO T-179
- Determining Degree of Particle Coating of Asphalt Mixtures AASHTO T-195
- Kinematic Viscosity of Asphalts (Bitumen) AASHTO T-201
- Viscosity of Asphalts by Vacuum Capillary Viscometer AASHTO T-202
- Theoretical Maximum Specific Gravity and Density of Hot Mix Asphalt (HMA) AASHTO T-209
- Specific Gravity of Semi-Solid Asphalt Materials AASHTO T-228
- Effect of Heat and Air on a Moving Film of Asphalt Binder (Rolling Thin-Film Oven Test) AASHTO T-240
- Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus AASHTO T-245
- Resistance of Compacted Hot Mix Asphalt (HMA) to Moisture-Induced Damage AASHTO T-283
- Water in Petroleum Products and Bituminous Materials by Distillation ASTM-D95
- Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method ASTM-D1298Asphalt

Content of EOI Documentation: Cont.

- Insurances, such as Professional Indemnity Insurance and Workmen's Compensation, must be submitted within the submission.
- The names and qualifications of the individuals within your company.
- A list of equipment to be utilized for materials testing (aggregate, asphalt and concrete testing).
- Calibration certificates for all equipment to be utilised. The calibration certificates must be dated within a year of the submission. Failure to submit valid calibration certificates may result in the submission being rejected.
- Recommendations or references from at least two (2) companies.
- Banker's letters (for Sole Trader) and/or Letters of comfort from creditors (for LLC).
- Management Accounts.
- Up-to-date HSE policy for various job types.



NIPDEC

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