STATEMENT OF WORK

1. **Objective/Requirements**
   NASA Langley Research Center (LARC) Hypersonic Materials Environmental Test System (HYMETS) has a requirement to purchase an additional FMP2/2X pyrometer for the HYMETS facility to complement the existing FMPI pyrometer.

2. **Characteristics, Scope, and Specs**
   The scope of this statement of work covers the objectives, work description, and deliverables necessary for the purchase of the FMP2/2X pyrometer for the HYMETS facility.

Description	**QTY**
SpectroPyrometer: expert system multi-wavelength pyrometer with on-line tolerance and signal strength (emissivity), spectral and total emissivity correction, absorption (offgas) compensation, and integrated laser for aiming. Resolution is 0.1°C. Measurement is either continuous or on operator demand. Analog temperature output specified is 0 – 10 VDC. Results are printed to screen and to log in non-volatile memory. Raw data can be saved to non-volatile memory for later analysis if required. Unit includes integrated Windows PC. Data analysis for first 30 days after purchase is included. Model FMP2/2X, dual temperature ranges, 800 - 2400 & 1500 - 4000°C / 1472 - 2552 & 2552 - 7232°F	1
Fiberoptic cable, 10 meters long, bifurcated with illumination leg: allows for aiming and measuring concurrently	1
Fixed-focus lens assy., choose one focal length from 16 in. to 20 ft. (40 to 600 cm); 28 inch focal length default	1
Spectral emissivity on-screen display; includes spectral emissivity as function of wavelength stored in data files	1

3. **Place of Performance**

   NASA Langley Research Center
   8 West Taylor Street, MS 190
   Hampton, VA 23681

4. **Period of Performance**
   18-26 Weeks ARO