SOUTHWEST REGIONAL MAINTENANCE CENTER

LASER INDUCED BREAKDOWN SPECTROSCOPY (LIBS) ANALYZER
PRODUCT DESCRIPTION (PD)

1. BACKGROUND: SWRMC Code 205B needs to procure a Handheld Laser Induced Breakdown Spectroscopy (LIBS) analyzer with associated equipment and services to improve capabilities offered by SWRMC Test and Materials Shop and expand support capabilities offered to SWRMC ships and manufacturing centers.

2. SCOPE: Vendor shall provide one (1) LIBS analyzer and associated equipment and services. The LIBS analyzer must meet the following criteria:

   2.1 Library - The analyzer device must have an onboard library with a list of materials the instrument can reliably distinguish and identify. Attached is a list of Carbon Steel and Stainless-Steel materials the device must be able to analyze, at a minimum (26Q0100_LIBS Analyzer Library).

   2.2 Reproducibility - Reproducibility with an RSD of less than 10.00, and a SD of less than 1.00.

   2.3 Material Impact - Able to analyze materials that are at a minimum 1/8” thick, and surface material removal of <1000 nanograms.

   2.4 Portability - The primary purpose of the device is to be portable. Lighter weight (<10 pounds), longer battery life (12-hour battery life), drop-resistant, simple Argon delivery systems are a priority.

3. PERFORMANCE REQUIREMENTS:
   - 3.1.1. Vendor shall provide on site instrument orientation to include:
   - 3.1.2. Instrument fundamentals
   - 3.1.3. Recommended safety practices and interlock familiarization
   - 3.1.4. Material identification best practices
   - 3.1.5. Performance of instrument calibration

4. SUPPORTING DOCUMENTATION:

   4.1. Vendor shall provide:
   - 4.1.1. A method for tracking yearly instrument calibrations
   - 4.1.2. Analysis certificates for Carbon Steel, Low Alloy Steel, and Stainless-Steel calibration kits.

5. Delivery Location:

SWRMC Materials Shop
3755 Brinser Street
Bldg# 61, 1st Floor
San Diego, CA 92136

6. REQUIRED DELIVERY DATE (RDD):

6.1. RDD: 16 AUG 2026

7. DELIVERABLES (if applicable)

ITEM	DESCRIPTION	MFR PART NUMBER	QTY	UNIT OF ISSUE
0001	Handheld LIBS Analyzer (Small Nose and Low Alloy Steel Calibration) Includes: Setup Standards Kit and Check Sample LA8620, 1-year standard factory warranty	580-10001	1	EA
0002	Stainless Steel Calibration. Includes: Setup Standards Kit and Check Sample, 316 Stainless	800-02441	1	EA
0003	Replacement Nose Seals (bag of 5)	580-12981	1	EA
0004	Small Pipe Adapter Seals	580-15801	1	EA
0005	Argon Cylinder – 5 Pack	601-00195	1	EA

8. DELIVERY / TECHNICAL POINT OF CONTACT(s)

SWRMC MATERIALS SHOP C-205B
3755 BRINSER ST STE 1
SAN DIEGO CA 92136
ATTN: Chris Krogen
CODE: 205B
Christopher.s.krogen.ctr@us.navy.mil
619-559-1962

9. TRAVEL (if applicable)

N/A

10. GOVERNMENT FURNISHED PROPERTY

N/A