



Republic of the Philippines
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REGIONAL OFFICE II
Dalan na Pavvurulun, RGC, Carig Sur, Tuguegarao City, Cagayan



Contract ID No. : **24GB028**
Contract Name : Purchase and Delivery of One (1) Set Spark Optical Emission Spectrometer for use of the DPWH Regional Office II
Location : DPWH Regional Office II, Carig Sur, Tuguegarao City, Cagayan

SUPPLEMENTAL BULLETIN NO. 1

July 29, 2025

TO : ALL PROSPECTIVE BIDDERS
BAC MEMBERS
BAC-TWG MEMBERS
BAC SECRETARIAT
BAC OBSERVERS

Pursuant to Sub-Section of 22.5.2 of the Revised Implementing Rules and Regulations (R-IRR) of R.A. 9184, the Bid Document is hereby amended to comply with the rules and conditions thereof.

Amendments are made in Section VII. Technical Specifications, to wit:

1. Spark Optical Emission Spectrometer			
	Current Provision of BDs	Amended Provision of BDs under this Supplement Bulletin	
Apparatus		Specification	
Spark Optical Emission Spectrometer	<ul style="list-style-type: none">• The manufacturer shall provide a certificate of compliance demonstrating that the equipment being supplied can perform the test as outlined in "ASTM E415- Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry"• With factory calibration.• BAS Standard Reference Material or BAS Certified Reference Material to be used to conduct at least Phosphorus (P), Carbon (C), Manganese (Mn), Sulfur (S) and Silicon (Si) tests for global alloy, low alloy steel, cast iron, and stainless-steel using ASTM E415.• With option to upgrade/include other types of metal and elements for analysis.• Limit of detection of 50 ppm or lower for P, Mn, S, and Si and 80 ppm or lower for C.• 2 extra electrodes (Tungsten).• System to decrease argon consumption.• Tubes to connect the Spark Atomic/Optical Emission Spectrometer purge to outside of the laboratory (specify length).	Floor standing/ Floor type system	Spectrometer system: Paschen-Runge Mounting, Concave diffraction grating & Vacuum type <ul style="list-style-type: none">•Focal length: at least 600 mm•Detector: Photomultiplier tubes•Evacuation System: Rotary vacuum pump•Measurement method: Digital integration•Wavelength range: 178nm - 481nm•Special cast iron chamber•Temperature control: 38°C
		Readout system	Photomultiplier
		Excitation Source	<ul style="list-style-type: none">•non-auxiliary electrode and free maintenance and design•excitation energy and excitation frequency are flexible and adjustable, which form to be the condition of various excitation source bars, and the measures for different metallic materials are complete.
		Excitation system	<ul style="list-style-type: none">•Full digital excitation source, with Spark stand for Argon atmosphere• Discharge energy 0.15J - 0.2J• Discharge frequency 60 Hz – 700 Hz
		Excitation discharge	<ul style="list-style-type: none">• Discharge conditions: At least 32 different conditions
		Spark Stand	<ul style="list-style-type: none">• sliding enclosed excitation table design is adopted, reducing the influence of powder under severe environment before treatment in furnace; meanwhile the sample of

		<p>any size can be measured accurately</p> <ul style="list-style-type: none"> • Measure various irregular samples by selecting analysis tools of wires and small samples
		<ul style="list-style-type: none"> • Unique factory calibration curve is integrated with the on-site correction curve to ensure the best analysis precision and accuracy of instruments; • Passages can be added on site according to client requirements, while various extended applications can be performed, so as to satisfy the demand of future analysis
		<ul style="list-style-type: none"> • The manufacturer shall provide a certificate of compliance demonstrating that the equipment being supplied can perform the test as outlined in "ASTM E415- Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry" • With factory calibration. • BAS Standard Reference Material or BAS Certified Reference Material to be used to conduct at least Phosphorus (P), Carbon (C), Manganese (Mn), Sulfur (S) and Silicon (Si) tests for global alloy, low alloy steel, cast iron, and stainless-steel using ASTM E415. • With option to upgrade/include other types of metal and elements for analysis. • Limit of detection of 50 ppm or lower for P, Mn, S, and Si and 80 ppm or lower for C. • 2 extra electrodes (Tungsten). • System to decrease argon consumption. • Tubes to connect the Spark Atomic/Optical Emission Spectrometer purge to outside of the laboratory (specify length).
Accessory		Specification
Argon System	<ul style="list-style-type: none"> • At least one (1) Argon tank with Argon gas (ultra-high purity). • With pressure safety control valve and tubing to connect argon tank to Spark Atomic/Optical Emission Spectrometer. • Shall be in accordance with "ASTM E406 - Practice for Using Controlled Atmospheres in Atomic Emission Spectrometry." • The argon system is required for initial procurement of the spectrometer. 	<ul style="list-style-type: none"> • At least two (2) Argon tank with Argon gas (ultra high purity). • With pressure safety control valve and tubing to connect argon tank to Spark Atomic/Optical Emission Spectrometer. • Shall be in accordance with "ASTM E406 - Practice for Using Controlled Atmospheres in Atomic Emission Spectrometry." • The argon system is required for initial procurement of the spectrometer.
Counter electrodes	<ul style="list-style-type: none"> • Tungsten rods, or other material, provided it can be shown experimentally that equivalent precision and bias are obtained. • The rods can vary in diameter from 1.5 mm to 6.5 mm (depending on the instrument design) and typically are machined to a 90° or 120° angled tip. 	<ul style="list-style-type: none"> • Tungsten rods, or other material, provided it can be shown experimentally that equivalent precision and bias are obtained. • The rods can vary in diameter from 1.5 mm to 6.5 mm (depending on the instrument design) and typically are machined to a 90° or 120° angled tip.
Milling Machine/Sanding Machine	<ul style="list-style-type: none"> • With dust collection, AVR and 20 sets of replacement p60 grit belts. 	<ul style="list-style-type: none"> • With dust collection, AVR and 20 sets of replacement p60 grit belts.

External Computer	<ul style="list-style-type: none"> •With software for control and data processing of Spark Atomic/Optical Emission Spectrometer. •Must be compliant with the Department's standard technical specifications for equipment and/or related software. •Must be compliant with equipment requirements. •With UPS. 	<ul style="list-style-type: none"> •With software for control and data processing of Spark Atomic/Optical Emission Spectrometer. • Must be compliant with the Department's standard technical specifications for equipment and/or related software. • Must be compliant with equipment requirements. • With UPS.
Adaptors	<ul style="list-style-type: none"> •For testing wire strands of 1 mm to 10 mm 	<ul style="list-style-type: none"> • For testing wire strands of 1 mm to 10 mm
Cleaning Kit	<ul style="list-style-type: none"> •For electrodes and other maintenance kits 	<ul style="list-style-type: none"> • For electrodes and other maintenance kits
UPS	220/240/220-240 V	• 220/240/220-240 V
Other accessories	<ul style="list-style-type: none"> •To be able to conduct at least P, C, Mn, S, and Si test for global alloy, low alloy steel, cast iron, and stainless-steel using ASTM E 415 (Equipment may or may not have additional accessories but should be complete to be able to conduct above stated analyses) 	<ul style="list-style-type: none"> • To be able to conduct at least P, C, Mn, S, and Si test for low alloy steel, cast iron, and stainless-steel using ASTM E 415 (Equipment may or may not have additional accessories but should be complete to be able to conduct above stated analyses)
	<p>Additional Notes:</p> <ul style="list-style-type: none"> •Exclusive Distributorship or Authorized Distributor with local after sales support and parts availability for at least 5 years from the last production of equipment. •Include provision for local after sales support and Service Engineer should be trained at the manufacturer's site. •Include training by manufacturer or manufacturer trained personnel on the use, validation of results, method development, troubleshooting and maintenance of Spark Atomic/Optical Emission Spectrometer for at least two (2) laboratory operators. •One (1) year warranty on parts and other services. 	<p>Additional Notes:</p> <ul style="list-style-type: none"> • Exclusive Distributorship or Authorized Distributor with local after sales support and parts availability for at least 5 years from the last production of equipment. • Include provision for local after sales support and Service Engineer should be trained at the manufacturer's site. • Brand and Model: Must be an International Brand Name with existence of at least ten (10) years in the Philippines. •Brand and model/series being offered is already used in any DPWH laboratory for the same application. • Foreign training at the manufacturer training facility on the use, validation of results, method development, troubleshooting and maintenance of Spark Atomic/Optical Emission Spectrometer for at least three (3) laboratory operators and; • Local training to be conducted by manufacturer trained personnel on the use, validation of results, method development, troubleshooting and maintenance of Spark Atomic/Optical Emission Spectrometer for at least three (3) laboratory operators. • One (1) year warranty on parts and other services.

This addendum is issued to modify or amend the Bid Documents.

This shall form an integral part of the Bid Documents.

Other requirements not included in this Supplemental Bulletin shall remain as advertised.

Receipt and Opening of Bids are as scheduled on August 7, 2025.

For the information and guidance of all concerned.


ARMANDO N. CAFUGAUAN
 Chief, Maintenance Division
 BAC Vice-Chairperson