

TECHNICAL SPECIFICATIONS AND OTHER ALLIED REQUIREMENTS

SI No.	Description of items	Quantity
PUR/106/NDT/CK/E/2020-21		
01.	Hand Held XRF Alloy Analyser (Detailed Specification as per Annex-I)	01 No.

1. INSTALLATION/COMMISSIONING

1.1. Not Required

2. Training

2.1. As per specification detailed in Annex-I, in case COVID-19 situation persists, on-line training shall be provided.

Note: Manufacturer's Authorization Form must be submitted by Non-OEM Bidders.

Sl. No.	Accessories and Features	Specifications
1	Positive material identification	Hand-held XRF alloy analyser, battery operated
2	Weight	Less than 2 Kg
3	Dimensions	Within 300 x 300 x 150mm
4	Detector	Silicon Drift Detector (SDD), Detector ProGuard Protection Included
5	Element to be analysed	Mg-Ur-35 Elements
6	Alloy composition of materials can be determined	It must have included library of well known grads and chemical analysis of stainless steel, nickel alloys, titanium alloys, white metals, copper alloys, zirconium and tool steels as per various international standards. Instruments must be supplied with single material library loaded in it which will cover all well known standard material and its alloys.
7	Display	Capable of showing results on screen, color and touch screen.
8	Sample Positioning	Camera integrated CCD micro camera for locating and recording measurement positions.
9	Security Features	Password protection, x-ray radiation safety with password protection, infrared proximity sensor.
10	Battery	Rechargeable Li-ion batteries minimum 02 (Two) sets required.
11	Battery Charger	220V/230V AC Charger/Adapter to be included as standard accessories in the instrument.
12	Functional Principle	X-Ray Tube : Ag Anode (6-45 KV, 1-200uA, 0-2W max), Dynamically adjustable current for optimal sensitivity on every analysis.
13	Capability of PMI Tester	Capable of analyzing upto 1mm wire diameter. Inbuilt hot swap system for uninterrupted testing.
14	Data transfer	USB Cable
15	System Software	With complete software packages, compatible PC Software.
16	Compatible operation system	Supported to Windows XP, Windows 7 or Windows 8, Windows 8.1, Windows 10.
17	Data storage	10000-20000 readings with Spectra
18	Compliance	CE, ROHS, AERB Type Approved, API 576
19	IP Rating	IP54
20	Spot Size	8-10mm
21	Calibration Process	Should be supplied with calibration blocks. Machine should have one time easy calibration process, inbuilt automatic system check
		Locking shielded carrying case

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22	Add on features and accessories	Shielded belt holster
		One 6-cell Li-ion battery pack
		110/220 VAC battery charger/AC adaptor
		PC Connection Cables (USB and RS-232)
		PC Software
		Safety Lanyard
		Check Samples/Standards
23	After Sales Service	Available onsite service, with registered service centre in India
24	Warranty	The warranty period of equipment should be 12 months from the date of satisfactory commissioning of the equipment.
25	Price Basis	Price should be FIRM & FOR SITE basis including instrument supply, installation and customer training charges.
26	Calibration Certificate	Calibration certificate provided by the OEM should be supplied at the time of consignment delivery.
27	Training	Hands on training through authorized representative shall have to be provided to user(a) at purchasers SITE for safe operation of handheld XRF Analyser including details of hardware components, OS, application software, calibration checking, chemical composition, analysis of various standard specimens and others (Sheet, rod, weld metal samples etc.) trouble shooting, report generation, data transfer and saving the spectra and composition results to other computers through USB or other means.

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