

Government of Pakistan
Geological Survey of Pakistan
Geoscience Advance Research Laboratories
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4th December 2006

TENDER NOTICE

Sealed tenders from firms/suppliers are invited for the supply of Gemmological equipment for setting up a Gem Testing Laboratory by the “Geological Survey of Pakistan Geoscience Advance Research Labs”, Islamabad. The item wise detail specifications can be acquired from the under mentioned address or can be downloaded from www.gsp.gov.pk.

Description
Gem Testing Laboratory Equipment Gem Testing Binocular Microscopes, Refractometer, Spectroscope, Polariscope, Loups, Filters etc.
UV / Visible Spectrophotometer Band width 5nm/WL range 190-1100 nm/ accuracy \pm 1nm/solidstate Ph.diode detector/ D2 W lamp/230 VAC with accessories

Interested parties should submit their bids in separate close covers indicating the quoted items (s) in Pak. Rupees inclusive of all taxes (GST/I. Tax/WH. Tax etc.) along with 2.5 % earnest money of the quoted price in shape of Draft/Pay order in the name of Director, GSP Geoscience Laboratory, Islamabad. The bids should be unconditional, valid for 120 days and also accompany with copies of I. Tax, GST registration certificates, distribution/dealership certificate, product brochures, guarantee of free after sales service facilities, installation and free replacement of parts (no service charge) within warranty period of at least one year. The bids will be received up to **12th January 2007** by **11.30 am** and will be opened on the same day at **12.00 am** in presence of the interested parties or their representative. The Competent Authority reserves the right to fully or partially accept or reject any/all bids, partly or totally or reduce or increase the quantity of items in accordance with the departmental needs and is also not bound to accept the lowest bid on technical grounds and also annul the entire bidding process at any time without assigning any reason thereof.

Director,
Geoscience Advance Research Laboratories
Shahzad Town, Park Road, Islamabad.
Ph: # 051-9255139-40 Fax # 051-9255136

DETAILS OF GEM EQUIPMENT

Sr. No.	Description	Qty
1	<u>REFRACTOMETER FOR GEMS TESTING</u> (Rayners or equivalent) Refractometer Designed to “Spot” Read Cabochons or Small facets with Diameter Less Than 1 mm including Polarizing Filter, Refractive Index Liquid, Chart of Most-used RI’s, Dust Cover and other accessories having Hinged Lid Protects Glass working area from dust and abrasion preferably ROSE GEM Refractometer complete with Megalite, Polarizing filters, R.I liquid etc.	3
2	<u>GEM SHORT WAVE/LONG WAVE UV LAMP 220/240(mains).</u> (Rayners or equivalent) With Meglite, Viewing Cabinet, Contrast Control Spectacles and batteries etc.	1
3	<u>LOUPS:</u> a). Presentation Loupe Tweezers b). Dark Field Loupe with meglite c). 10 X Zeiss aplanatic/achromatic loupe. d). 10 X Triplet 18mm- black. e). 10 X Triplet Hexagonal 21 mm- black Gem Cloth/Six Pack	2Nos 2Nos 2Nos 2Nos 2Nos 6Pkts
4	<u>FILTER:</u> Chelsea Filters, Hannemann Gem Filter Set-includes: Aqua- Filter, Ruby Filter, Stained Lilac Jadeite Filter and Synthetic Emerald Filters.	3 Sets
5	<u>GEM CALCITE DICHROSCOPE:</u> (ROSE GEM or equivalent)	2 Nos
6	<u>GEM SPECTROSCOPE</u> a. Hand Assembled. b. Manufactured with hardened stainless steel with variance less than 1 micron Along with following accessories. i. Prism Spectroscope 3.5 inch long ii. Prism 1000 Spectroscope Head iii. Light Source.	1 No
7	<u>OPTIVISOR MAGNIFYNIG HEAD PIECE:</u> Magnification – 2.5X with 8” focal length - 2.7X with 6” focal length - 3.5X with 4’ focal length	2 Nos
8	<u>COLOR GRADING ACCESSORIES:-</u> a. CZ Comparison Colour Set E-N (10 stones)- 1.00 ct. size b. White Grading Tray 95 mm x 105 mm	2 Set
9	<u>UTILITY LAMP:</u> Diffused White Light (Dichroscope); Pinpoint Position Light (Spectroscope); Including Dust Cover etc.	1No

10	<u>POLARISCOPE:</u> (Rayners or equivalent) Polariscope with conoscope PK3, with turning table and filter diameter 90mm and 52mm for determining big quantities- 220-230V 50-60Hz.	2 No
11	<u>TESTER :-</u> a. Diamond Beam II Tester b. Gold Tester Complete with all accessories and spares for measuring Gold content in High Gold alloys from 6K to 24K, also measure Platinum. c. Rayner Hardness Pencil. 4-10 d. Diamond-Moissanate comparison wall chart-fully laminated	1 No 1 No 5 Sets 2 No
12	<u>SPECIFIC GRAVITY LIQUID SET WITH MATTLER JEWELLER SCALE ALONG WITH HYDROSTATIC SG WEIGHT ATTACHMENT:-</u> <ul style="list-style-type: none"> • Easy to use large-mouth, 15cc Bottles with Self-Calibration Stone • Leak Proof Container Houses Two Calibration Liquids (Methylene Iodide and Benzyl Benzonate) • Specific Gravities included 2.57, 2.62, 2.67, 3.05, and 3.32. d) Monobromonaphthalene 20 ml – SG 1.49. e) Monobromonaphthalene 40 ml f) Methylene iodide 20 ml – SG 3.32 g) Methylene iodide 40 ml h) Glass immersion dish with cover 50 x 10 mm i) Glass immersion dish with cover 60 x 10 mm j) SG glass phial with glass stopper, 25 x 50 mm k) SG glass phial with glass stopper, 30 x 60 mm l) Glass Immersion Dish, 30 x 27 mm	1 Set
13	<u>CONTRAST CONTROL SPECTACLES:</u> Protect your eyes from harmful short-wave ultraviolet rays.	4 Nos
14	<u>GEM DATA- GEM IDENTIFICATION COMPUTER PROGRAMME</u>	1 Set

15	<p>MICROSCOPE GEMOLITE ULTIMA “B” MARK “X” (Leica or equivalent) Complete with all accessories and spares with incident Light Source including mounted Video Camera with Sony color video printer</p> <ol style="list-style-type: none"> 1. Broad Zoom range (10x to 70x) 2. Tilt 55° and swivel 360°. 3. Leica Stereo Zoom Binocular Optics 4. Extremely crisp image with high efficiency precision optics. 5. Image stays in focus with zoom magnification 6. Dark field/bright field intensity adjusted by Rheostat 7. Cool bright tungsten-Halogen Base- Mounted Lamp 8. Control Light Beam width with adjustable iris Diaphragm. 9. Excellent Field of View (20mm at 10x) 10. Comfortable Adjustable Eyepieces 11. Flush Mounted wire stone holder 12. Auto voltage adapts worldwide. <p><u>ACCESSORIES</u></p> <ol style="list-style-type: none"> a. Super 60 Zoom Eyeguard b. Diffuser Lens c. Immersion cell 2Nos d. 2X Adapter Lens 2Nos e. Wire Stone Holder 2Nos f. Inclusion Pointer 2 Nos g. Stable Gauge 2 Nos h. Over Head Light Source i. Color Grader 2 Nos j. Diamond Proportion Analyzer 2 Nos k. Gemolite Polarizing Filter 2 Nos l. Color Grading Disc 3 Nos m. Pointer Eye Piece 	1 No
16	<p>IMMERSION MICROSCOPE with ZEISS optics Stemi 2000-c Schneider or equivalent) (trinocular for adapting camera and video camera, magnification, 5x-50x, testing stage with stone holder, sample cell 40x40x40 mm, camera adaptor for T2 adapting, polarizing filters, frosted glass filter, lamp UL2 with dimmer. Voltage 220-230V/50-60Hz. Stemi 2000-C with base U2.</p>	1 Set
17	<p>UV / Visible Spectrophotometer Band width 5nm/WL range 190-1100 nm/ accuracy ± 1nm/solidstate Ph.diode detector/ D2 W lamp/230 VAC with accessories.</p>	One each

17	<p>MOBILE GEM LAB, GEMOLITE SUPER 60 ZOOM MARK OR EQUIVALENT. COMPLETE WITH ALL ACCESSORIES.</p> <ol style="list-style-type: none"> 1. Dendritics gem scale up o 100 carat capacity with 0.01 carat precision along with Pocket size weight estimations conversion chart. 2. UV Lamp 3. Diamond Proportion Analyzer 4. Duplex II Refractometer 5. Wire stone holder 6. Illuminator Polariscope 7.150 Prism Spectroscope 8.Presidium Dial Gauge 9. 2x Adapter lens 10. Calcite Dichroscope 11. Inclusion pointer 12. Hydrostatic SG Kit 13. Condensing Lens 14. 10 x Magnifying Lens 15. Monochromatic Filter 16. Immersion cell 17. Colour grading disc 18. UV Protection Goggles 19. Overhead Light source 20. Rugged Aluminium case, combination lock, with wheels and retractable handle. 21. Stable Gauge compact, portable for table Facet Measuring system. 	1 No.