Establishment of Gems lab equipment and Tools.

S.No	Name of items/Specification	Qty
01	Refractometer with R.I. liquid.	1
	for identification of gemstones.	
	RI range= 1.35-1.82, require external light source,	
	weight=310gm, Dimension=70*35*120mm,	
	R.I liquid important when using refractometer 10ml bottle.	
02	Diffraction grating spectroscope.	01
	Weight 33gm	
	Dimension=55*12*12mm	
03	Folding Photography Booth.	01
	Black and shite background with USB power cable, three	
	color mode option (long waveuv, white, yellow)	
	Weight= 260gm	
	Dimension=240*240*220mm	
04	Gemological Trinocular Microscope.	01
	Bright and dark field illuminaltion,50xmagkification,	
	objective lenses 0.75x-5x zoom, zoom ration6.7:1, eye	
	piece of 10xeye piece, FN-23 head tilts 0 to 45 degree,	
	adjustments from 48 to 75mm, base rotate 360 degrees,	
	trinocular part for camera. Total magnification; 7.5x to	
	50x, illumination 6v, 30w, intensity control halogen, bright	
	field dark field illumination, adjustments gooseneck 7w	
	fluorescent incandescent illumination. Main power supply	
05	100v to 240v.	01
05	Printer+ laminator.	01
	Stylus photo T 60 printer photo 10x15 cm/4x6 inch,	
	approx. 11 sec per photo, connectivity USB 2.0 print	
	quality 5760x1440dpi (with vsdt) weight 1.3kg print speed black, black text memo A4 approx. 38ppm(draft), A3-A4	
	hot laminator 2 rullers 250mm,/min laminating speed.	
06	Precision Scale.	01
00	PCT 251 premium class ct scale dimension 5.5*3.0*1. Inch,	01
	capacity 250ct with 0.005ct readability, g,dwt,oz,ozt and	
	gn,weight 1 pound.	
	Silveright I pound.	

Casting & Molding Unit

S.No	Name of items/Specification	Qty
01	Jewelry Casting Machine (Vacuum Unite,	01
	220V, Single phase.	
	Cashing Vacuum chamber,	
	Debblizing chamber with acrylic lid,	
	High Vacuum power for complete gold, silver, artificial jewellery	
	casting	
02	Melting Furnace.	01
	220V, Single phase electric,	

	2 kg gold melting furnace: Vertical Furnace Specially Designed	
	and constructed for melting metals for casting and alloying of	
	metal up to 1100₀C.	
	1 x Electric Melting Furnaces.	
	1 x Graphite Crucible.	
03	Rubber Mold Vulcanizer.	01
	220V, Single phase electric,	
	2-way heating (upper and lower plate heating)	
	Automatic thermostat.	
04	Wax Injecting Machine.	01
	220V, Single phase electric,	
	2 pounds wax melting capacity.	
05	Investment Powder,	02
	Imported: Kerr or omni brand	
06	Wax for Injection,	05
	Local wax (soft summers use) 1kg	
	Local wax (hard winters use)1kg	
07	Digital Weight balance,	01
	Weight capacity upto 10kg	
08	Wax Melting Furnace,	01
	220V, Single phase electric,	
	With thermostat for head control,	
	Upto 3 flasks placing capacity	
09	Wax Welding Pen.	01
	220V, Single phase electric,	
	With thermostat for head control.	
10	Vacuum Flask.	04
	3",3.5",4" inches flasks with rubber bases and metal collar of	
	same size.	
11	Vacuum Flask Plier.	01
	To hold 4 inches diameter flask	
12	Silicon Mold Imported.	01
	Soft silicon mold complete roll	
13	Gloves.	01
	Gloves used for handing crucibles, ingot molds & refining	
	precious metal such as gold, Silver, and copper during high	
	temperature applications	