



K-1

A necklace of nineteen rock crystal beads, ten spherical beads alternating with barrels shapes. Each of these is faced with a smaller blue glass bead. These sets are separated by eighteen granulated gold ring beads with collars. There is a set of gold earrings each with a faceted rock crystal barrel bead

suspended from a link of gold wire with a round quartz bead. These are suspended from the hooks made of gold wire which pass through the perforation in the ear lobe. The rock crystal barrel beads are capped with granulated gold ring beads. A set of gold granulated beading tips and a hook and eye clasp complete the necklace. The hook is flattened on the end and rolled up with a row of fine gold grains applied at the juncture. The gold is 23k. The stone and glass beads are two thousand years old from the Kushan period of ancient North India.



K-1

The center bead is a long barrel of rock crystal (quartz) with a triangular cross section. It is 2 cm in length, the width at the center is 7.5 mm and the end width is 5 mm. The drill hole diameter is 2.5 mm. The round beads range from 8.4 mm in length, 7.8 mm in width, to 6.3 mm in length and 6.8 mm in width. The hole diameters are 1.5 mm. The six sided faceted barrel bead ( to the right in the photograph) is 1.5 cm in length, 1.09 cm in width at the center, and width of the flat face on the end is 5 mm. The drill hole diameter is 2 mm. Its opposite in the necklace is 1.43 cm in length, 1 cm in width, with a drill hole diameter of 2mm. Two quartz beads back from this a six sided barrel bead 1.15 cm in length, 8 mm in width, end width 4.8 mm with a drill hole diameter of 2 mm. Its opposite (on the right side) is 1.05 cm in length, 8.6 mm in width, end width 7.3 mm and drill hole diameter of 1.5 mm. The next set of six-sided barrels back are 9mm and 10 mm in length, 6mm – 7mm in width, end widths 5 mm and drill holes of 1.5 mm. The last set of barrels to the back are 1.8 mm in length, 6 mm in width end widths of 4 mm, and drill hole diameters of 1.8 mm. The blue glass beads are 6.5 mm to 5.5 mm in diameter. The flattened spheres are 4 mm – 5mm in length and the barrels beads are 5 mm – 5.5mm in length.

The six-sided barrel beads in the earrings are 1.1 cm in length, 1.8 cm in width and 4.5 mm wide at the ends. The round bead is 5 mm in length and 6 mm in diameter. Drill hole diameters are 1.8 mm.

K-1

The necklace is  $17 \frac{5}{8}$  inches (43 cm) in length.  
The necklace weighs 29.5 gm.

The earrings are  $2 \frac{1}{8}$  inches (5.4 cm) length.  
The pair weigh 4.1 gm



K-2

A "Roman style" chain with fourteen ancient green glass beads linked into it alternating with linked

gold tubes and thicker half round wire rings connecting the twisted wire linked elements. At the bottom is an enameled gold pendant with a complex granulated suspension bead at the top. A large filigree clasp with a hook and eye fastens the chain in the back. The gold is 20k. There is a pair of three tiered drop earrings of 23k gold with blue and green glass beads. The top tier is two blue glass beads ( 5 mm diameter) separated by a gold bead with collars bordered with very small gold grains linked into a gold wire attached to the suspension hooks. The next tier is a green spherical glass bead( 9 mm diameter) fitted with gold caps decorated with granulation and linked on a gold wire. The bottom tier is a blue spherical glass bead ( 7.5 mm) also fitted with gold caps.

The beads are all two thousand year old glass beads from the Kushan period of ancient North India.

The typical size for these green glass beads is 5 mm in diameter and 3.5 mm in length. Broken specimens were ground into a powder and mixed with a flux to make the enameled pendant. The face of the pendant is 1.45 cm in diameter. The height of the pendant is 2.13 cm. The length of the granulated bead at the top is 6mm and the diameter is 6.5 mm. The length of each of the filigree clasp elements is 2.2 cm. At the widest point it is 1.8 cm.

The necklace is  $19 \frac{3}{8}$  inches (49.4 cm) in length.

The necklace weighs 16.5 gm.

The earrings are  $2 \frac{13}{16}$  inches (7.2 cm) in length.

The pair weigh 7.8 gm or 3.9 gm each.



K-2



K-3

A necklace of fifteen ancient blue glass beads linked into a chain of 20k gold. The glass beads have thin stripes of white glass to simulate the banding found in agate or chalcedony. A filigree hook and

eye clasp allows the chain to fastened at the back.

The blue glass beads are two thousand year old beads from the Kushan period of ancient North India. The center bead is 1.75 cm in length and width. The cornerless cube beads are rectangular solids 7 mm in length and 5 mm in width. The next set back are barrel beads 9 mm- 10mm in length and 6 mm in width at the center. The next set of cornerless cubes are 5.5 mm in length and 4 mm in width. The rest of the cornerless cubes decrease slightly in size until at the last set they are 5 mm in length and 3.8 mm in width.

The design is a "Roman chain" which is contemporary with the age of the beads, but is not how the beads would have been worn in ancient India. It seems an appropriate way to use a matched set of beads in a necklace when there are too few for a full strand. This was evidently the use the design was put to in Roman times when the agate beads were more scarce than the gold used to make the chain. Using glass to simulate rare and costly gems was also much in use two thousand years ago. These imitations of banded chalcedony are such an example.

The necklace is 17 1/8 inches (63.5 cm) in length.

The necklace weighs 19.8 gm.



K-4

A necklace of two thousand year old turquoise, lapis lazuli, and carnelian beads strung with thirty-

two 20k gold tube beads and sixty granulated ring beads. Set of gold beading tips and a hook and eye clasp complete the necklace. There is an ax shaped carnelian pendant at the center of the necklace. It is 1.3 cm in height and 1 cm wide at the bottom. It is 4 mm in thickness. There are eight tapered bicone carnelian beads 1 cm in length ( one at the back is 9 mm.). They are 4mm – 4.5 mm wide at the center (3 mm small one at back). They taper to 3 mm on the ends (small one 2mm) and have drill hole diameters of 1mm. There are thirty small carnelian beads which face the long carnelian barrels and face the lapis lazuli beads. There are twenty that are triangular in cross section, three that are spherical, a winged (two sided), three barrel beads , a tabular diamond shaped bead, and a four sided faceted bead. There are six lapis lazuli barrel beads ( 5mm length, 3mm-3.8mm wide) and two round beads ( 5 mm diameter). The drill hole diameters are 1.5 mm. Between each of the gold tubes are fifteen turquoise beads ranging from 2.8mm to 7.8 mm in length and 3 mm to 3.5 mm in width. One of the sixteen beads is actually a simulated turquoise bead. Pictured below, it is a steatite bead that has been glazed with a copper compound that simulates the blue color of turquoise. Some of it has flaked off, allowing the identification to be made.



K-4

The necklace is 24  $\frac{3}{4}$  inches (63 cm) in length.

The necklace weighs 18.9 gm.



K-5

A necklace of thirty-three carnelian beads alternating with three layer granulated gold beads. A set

of granulated bead caps and a hook and eye clasp complete the necklace. The gold is 22k. The center bead is a flat rhomboid with beveled edges 1.8 cm in length and 1.1 cm in width at the center. The end widths are 4 mm and the hole diameter is 1.1 mm. The hole is drilled straight through the bead in contrast to ancient beads where the holes are drilled from either end and meet in the center of the bead. There are thirty-two fluted melon beads. They range in size- 1.25 mm in length, 7 mm width at center, end width of 2.5 mm, to 1.05 mm in length, 5.5 mm width at center, end width of 2.5 mm. There are six cornerless cube beads which are actually rectangular solids 9.5 mm to 1 cm in length and from 4.8 mm to 5.5 mm in width. There are fourteen long rectangular solid beads of unusual form. The outer corners are removed (ground down by an abrasive wheel) as in cornerless cube beads but in addition, four notches have been ground into the length of the beads along the edges at regular intervals leaving four linked diamond shapes on each face. There are five beads with four notches and nine that have three. The longer beads with four notches are 2.1 cm to 2.2 cm in length. They are 5 mm in width and the drill holes are 1.5 mm. The smaller beads with three notches are 1.6 cm to 2 cm in length and 3.5 mm to 4.5 mm in width. The drill hole diameters are 1.8 mm. These beads were collected in Ahmedabad, Gujarat State in western India in 1980. The age of the beads is unknown but they are certainly antique and are probably a product of the agate industry in nearby Khambat (Cambay) that has existed for centuries. They are precisely and carefully executed and in good condition with only the cornerless cube beads showing any minor chips or wear. These may be the oldest beads of the set as beads of this style were made up to two thousand years ago. One of the melon beads also has a slight end chip. It is fortunate to be able to have so many of the long, narrow beads which are vulnerable to breakage.



K-5

The necklace is 24 ¼ inches (61.8 cm) in length.

The necklace weighs 42.5 gm.



K-5

Kushan & Ahmedabad

K-1 .....	\$1,500
K-1 (earrings).....	\$500
K-2 .....	\$3,075
K-2(earrings).....	\$450
K-3 .....	\$1,800
K-4.....	\$4,250
K-5 .....	\$2,520