Indications and Implications of Copper Artifacts from Navinal, A Harappan Site in Kachchh, Gujarat, Western India

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***Abstract**: Gujarat has yielded variety of copper artifacts falling into the Indus realm. In the absence of problem oriented studies on copper in Gujarat till date, it is necessary to examine the copper objects from the excavated and explored Harappan sites to enhance our understanding of typology, their technology and use, the trajectory of development of copper metallurgy and its change during the aforesaid period. An endeavor of typological and compositional analyses will enable us in answering many questions about Harappan copper technology. The present paper is a preliminary study of the copper artifacts from the surface collection of the site Navinal, Kachchh, Gujarat. Typological, chemical compositional and micro structural studies were undertaken during this work. The major objects identified are beads, chisel/bar/ingot, hook, knife blade, nail, ring, sheet, spatula, folded strips (tube), wire and prills. Composition analysis revealed Cu-Sn; Cu-Zn; and Cu-Sn-Zn alloys. The microstructures revealed heat treatments applied while fabrication for increasing its hardness and tensile strength.*

Keywords: Navinal, Copper, Indus Civilization, Typology, Metallography, Scanning Electron Microscope, Energy Dispersive X-ray

Introduction

The Indus Civilization is well known for its impressive array of artifacts made out of a wide range of raw materials namely stone, metal, clay, shell and bone. Among them copper might have been the most extensively used raw material to produce diverse forms. Copper objects have been unearthed from each of the Indus cities (Marshall 1931; Mackay 1938, 1943; Vats 1940; Rao 1979, 1985; Bisht 1997; Kenoyer 1998; Lal 1985) as well as smaller sites (Shaffer 1982; Hedge et al. 1988; Agrawal 1999; Sonawane et al. 2003; Bhan et al. 2004). The early excavation reports from Mohenjo-Daro (Marshall 1931; Mackay 1938) provide basic / general typological descriptions of Indus copper tools, weapons, vessels and personal ornaments. This typological terminology was subsequently used without much change for a majority of the later excavation reports and research works of Indus sites (Vats 1940; Mackay 1943, Rao 1979; Joshi 1990; Lal 1985).Evidence such as seals, human and animal figurines; mirrors; tools such as knives, blades, saws; weapons such as spears and arrow heads; ornaments such as beads, rings and bangles; household materials such as dishes, pots and other vessels; objects of religious importance such as *parasu*/razor and items of economic significance such as scale pans, tablets etc. from various excavated and explored sites indicate that copper and copper alloys were used to make variety of artifacts by the Harappan/Chalcolithic crafts people (Marshall 1931; Mackay 1938; Kenoyer 1998; Vidale 2000; Vidale and Miller 2000). Although the artifact array of copper/bronze in the Harappan context is high in number and variety, they still do not receive due research attention from researchers and remain as a poorly studied artifact class.

Gujarat has yielded archaeological remains demonstrating a high degree of variability among the cultural traditions present during the fourth through second millennium BC. Material culture and subsistence pattern studies indicate that Chalcolithic Gujarat was populated by diverse communities during the Regionalization, Integration and Localization Eras represented by Chalcolithic settlements characterized by the presence of ceramic traditions such as Anarta, Pre-Prabhas, Black and Red Ware, Reserved Slip Ware, Pre Urban Harappan Sindh Type Pottery, Micaceous Red Ware, Classical Harappan, Sorath Harappan, Prabhas Ware, Late Sorath Harappan, Lustrous Red Ware, Malwa Ware, Jorwe Ware as well as aceramic settlements of hunter-gatherers. All of the excavated Harappan sites (those which show strong presence of Harappan material culture) and Harappan affiliated Chalcolithic sites in Gujarat namely Lothal, Dholavira, Surkotada, Shikarpur, Kanmer, Bagasra, Kuntasi, Padri, Nagwada, Loteshwar, Motipipli, Datrana, Padri etc. (fig. 1) together with the large number of explored sites (around 750 sites) from Gujarat have yielded a wide variety of copper artifacts. In the absence of problem oriented studies on copper in Gujarat to date, it is necessary to examine the copper objects from the excavated and explored sites to

enhance our understanding of the copper artifacts, their technology and use, the trajectory of development of copper metallurgy and its change during the aforesaid eras.

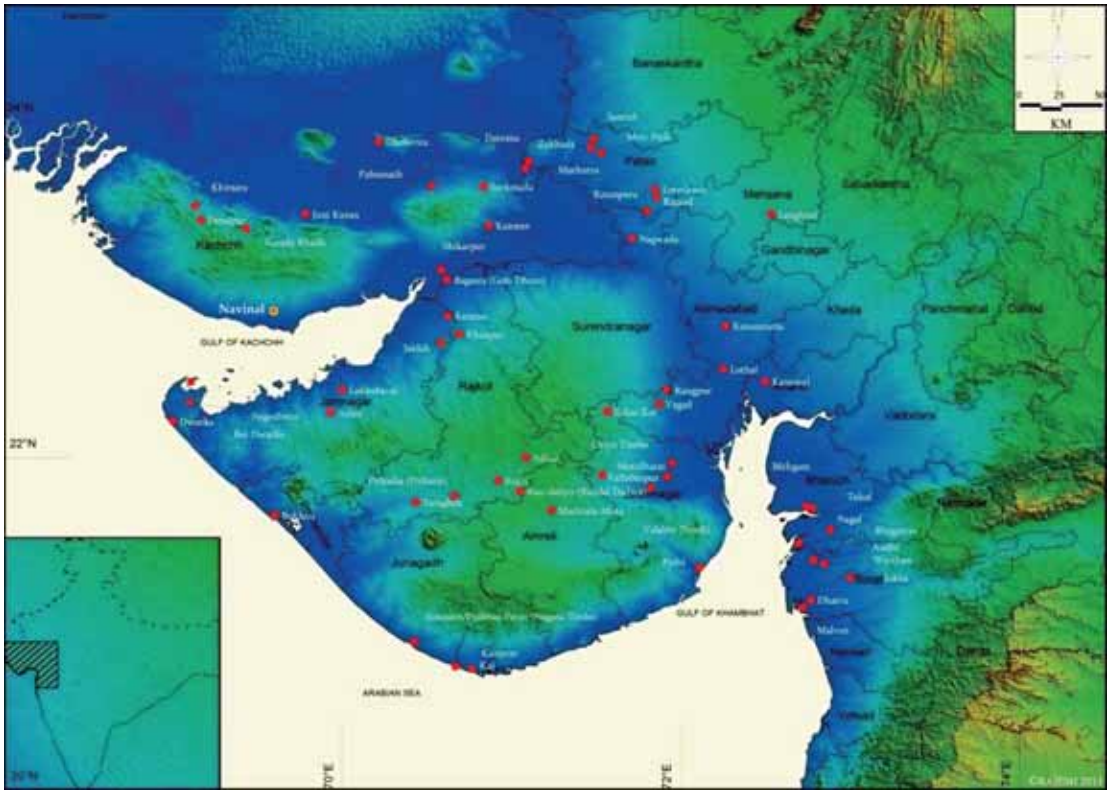

Figure 1: Location Map of all the excavated sites in Gujarat and Navinal

The use of analytical approaches enhances the understanding of metal artifacts, especially copper and its alloys and can provide a way to understand the growth, development and changes in technological traditions (if any) in the Harappan context in Gujarat. An endeavor of detailed typological analysis and compositional analyses directed at tracking the composition of artifact types will enable us to answer important questions about Harappan copper metallurgy such as, whether the use of alloys are restricted to certain types or production techniques? What are the reasons for the development of special/specific craft specialization? What would have been the impact of the introduction of new technologies on the erstwhile society? Was there any inter-regional interaction network? What was the degree of interaction between/within the Harappan sites/regions? The present paper is an attempt towards answering some of the aforesaid problems by studying the typology and composition of copper artifacts from the site of Navinal in Gujarat.

Located on the margin of Gulf of Kachchh in Mundra taluka of Kachchh District, Navinal (22° 49′ 17.5″ N, 69° 35′ 49.9″ E) is a site showing cultural remains of the Integration and Localization eras of Indus Civilization. The site (fig. 1) was discovered in 1950s by P.P. Pandya of Department of Archaeology, Saurashtra. It was first

reported by S.R. Rao in 1963 and was assigned Rangpur IIB phase of Harappan culture of Gujarat. Later in 2011, the site was explored by P. Ajithprasad of the Maharaja Sayajirao University of Baroda and in 2012 by A.S. Gaur of National Institute of Oceanography. In 2013, the site located in the forest land (Land Survey Number 223/5) was explored by a joint team from the University of Kerala, Kachchh University, Albion College – USA, Gujarat State Archaeology Department and M. S. University of Baroda to understand its archaeological potentials. A long term multidisciplinary international research project entitled 'Archaeological Excavation at Navinal in Mundra Taluka, District Kachchh and Exploration in Kachchh District, Gujarat' has been launched with financial support from University of Kerala and the Archaeological Research and Conservation Program: India and Pakistan (ARCPIP). The objectives of this project are to understand the level of integration which existed among the Regional Chalcolithic Cultures and Classical Harappans found at the site and to understand the economic production and inter regional interaction network that existed during the Integration Era in Kachchh (Gadekar et al. 2014, Rajesh et al. in press).

Systematic explorations during 2013-14 under the project at Navinal (fig. 2) have revealed the remains of a ceramic assemblage belonging to the Integration and Localization Eras (c. 2600-1600 BC); terracotta objects; complete shells and shell objects; varieties of beads of stone, shell and terracotta; stone amulet; grinding stones; hammer stones; lithic tools and associated debitage and large numbers of broken copper tools. A number of animal skeletal remains found from the site show salt and calcium encrustation suggesting substantial antiquity. Large numbers of charred and uncharred otoliths of variety of fishes and fish vertebrae were also collected from the site. Huge quantities of complete and broken small shells (probably edible) and lithic debitage are found scattered all over the surface of the partially disturbed site. Many structural parts of stone and indicators of craft production (pottery production, stone tool production, copper working and shell working) are visible at various parts of the site (Gadekar et al. 2014, Rajesh et al. in press).

The copper objects and evidence for copper working recovered from surface of the site include fragments of spatulas, points, hooks, wires, blade of a knife, sheets, beads and rings besides prills/nodules, waste materials and crucible fragments. No convincing evidence of copper smelting has been found from the site. The recovery of some coarse clay crucibles with copper adhering in them point to the fact that they were used in melting the copper (Rajesh et al. in Press). The majority of the copper objects were probably made at the site using sand moulds that would leave very little or no traces for the archaeologists (Bhan et al. 2004).Typological and compositional analysis were conducted for the copper artifacts and a discussion of the same follows.

Typology

Studies dealing with summaries and typologies of materials from the Indus Region dating from 5th to 2nd millennia BC were attempted by Yule (1985); Chakrabarti and

Lahiri (1996); Agrawal and Kharakwal (2003); Hoffman and Miller (2005) etc. However, except notable work by Yule (1985) and Kenoyer and Miller (1999) the aspects related to production, detailed typological categorization and their specific use, examination of change in functional types and use over a period of time, consumption and distribution patterns, alloy patterns etc. of copper remain either understudied or scanty. The works on typology of copper artifacts by Yule (1985) and Kenoyer and Miller (1999) addressed the need for a formalized typology for Indus copper objects. Yule (1985) proposed a rough and detailed classification system for vessels and ornaments. Compared to Yule's (1985) work, Kenoyer and Miller's (1999) classification structure for the metal objects from Chanhu-daro is much more specific which a combination of morphological and functional typology.

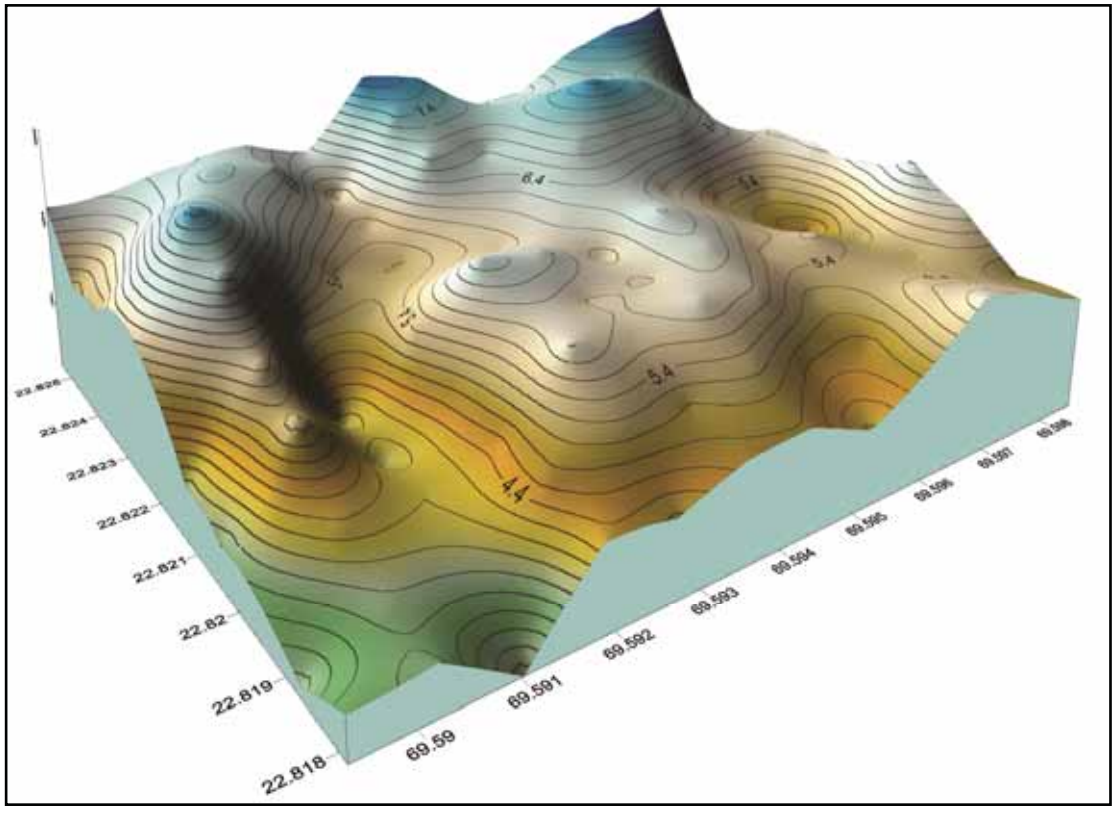

Figure 2: Digital Elevation Model of Harappan Settlement at Navinal

Because the copper assemblage from the surface collection of Navinal is fragmentary in nature, developing a precise classification system was an extremely difficult task. 476 artifacts/fragments (Appendix 1, figs. 3-7) along with 10 crucible fragments (Table 1, figs. 8-11) and wastes of copper working (790.24 gm) (fig. 12) were recovered from the site. Based on morphological measurements (length, breadth, thickness and weight) a preliminary classification was done and categories were assigned. They are beads (fig. 13), chisel/bar/ingot, hook, blade of a knife, nail, ring, sheet, spatula, folded strips (tube), wire, prills (fig. 14) etc. Ample number of the fragmentary artifacts and their spatial distribution on the surface of the site along with crucible fragments and wastes

of copper working highlight the role of copper and copper working at the site and undoubtedly point to the secondary production of objects through melting and the extensive use of tools for various craft and other related activities. Systematic excavations can supplement detail insights in this direction.

Table 1: List of Crucible Fragments from Navinal

Sl. No.	Antiquity Number	Condition	Diameter in cm	Weight in gm	Part	Texture	Remarks
1	8	Broken	-	9.70	Body	Coarse	Copper adhering to its internal Surface
2	55	Broken	-	5.97	Body	Coarse	Copper adhering to its internal Surface
3	4.1	Broken	11	72.36	Base	Coarse	Copper adhering to its internal Surface
4	4	Broken	10	26.76	Rim	Coarse	Copper adhering to its internal Surface
5	9	Broken	-	14.60	Body	Coarse	Copper adhering to its internal Surface
6	55.1	Broken	-	2.06	Body	Coarse	Copper adhering to its internal Surface
7	7	Broken	-	1.87	Body	Coarse	Copper adhering to its internal Surface
8	5	Broken	-	10.21	Body	Coarse	Copper adhering to its internal Surface
9	6	Broken	-	6.31	Body	Coarse	Copper adhering to its internal Surface
10	4.2	Broken	-	1.68	Body	Coarse	Copper adhering to its internal Surface

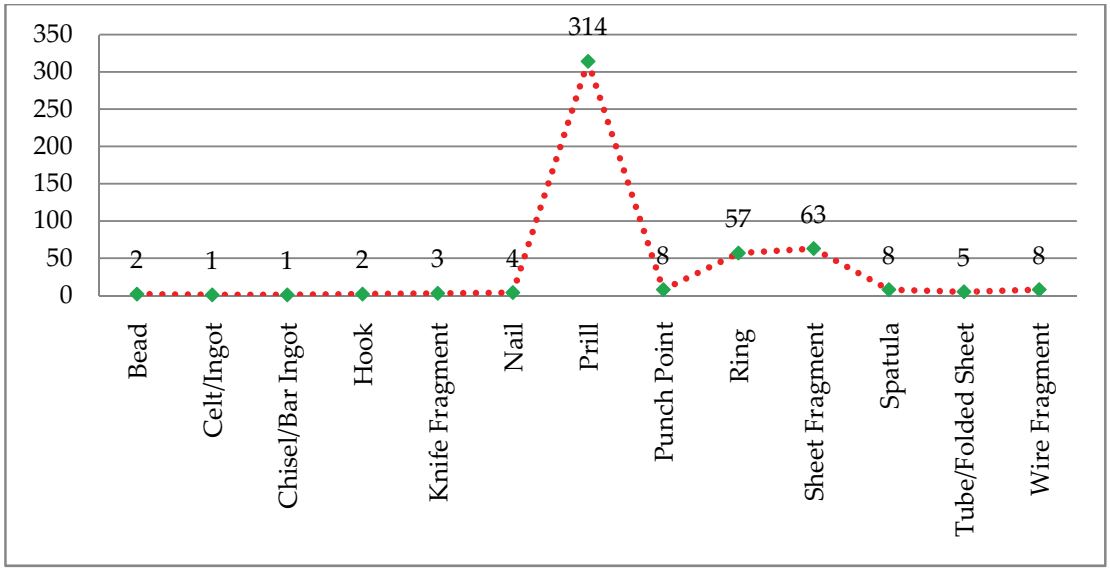

Figure 3: Total Number of Copper Objects from Navinal

Figure 4: Unidentified Copper Objects from Navinal

In terms of quantity of each category, prills form the major group (66%) followed by sheet strips (13.2%) and ring (12%) respectively. Each of spatula, wire and punch points constitute 1.7%; nails and knife fragments comprise 0.8% and 0.6% respectively and the beads and hooks constitute 0.4% each of the collection and the rest are very minimal in quantity.

To assign categories such as tools/implements/weapons to this surface collection was quite difficult. The absence of complete specimens of knives and other implements probably indicate the exchange of finished products. The surface evidence only constitutes the waste/fragments or the suitable material for recycling/reworking. The sheet fragments were possibly part of knives /blades. The occurrence of small number of beads (one having a gold covering on one end) and rings indicate the use of ornaments and the wire fragments with their variation in thickness indicate their multiple uses in craft and art productions.

Crucible fragments with copper adhering to them have been recovered from the site. Crucible fragments constitute 2% of the total collection of copper related artifacts and their weight ranges from 4.99gm to 7.5gm (fig. 4). In the absence of proper rims/bases (with two exceptions), assigning exact shapes to the crucibles is difficult. The discovery of crucibles from Navinal similar to those from Surkotada (Joshi 1990) and the presence of kiln wasters and slag perhaps demonstrate local smithy practices of copper; however, absence of ore makes it difficult to estimate intensity of the same. Though the crucibles from Navinal could represent small scale smelting of high quality copper, due to the lack of clear contextual evidence it appears more likely melting rather than smelting (Miller 1994). Further archaeometric studies can provide a clearer idea about the exact function of these terracotta crucibles.

Figure 5: Broken Copper Objects from Navinal

Metallography

Since metals hold within them the history of their making, technical studies of metal artifacts are widely used to unravel the mysteries of the metal technology through time. Metallography is the scientific discipline of examining and determining the constitution and the underlying structure (or spatial relationships between) of the constituents in metals, alloys and materials (Voort et al. 2004). The examination of structure may be done over a wide range of length scales or magnification levels,

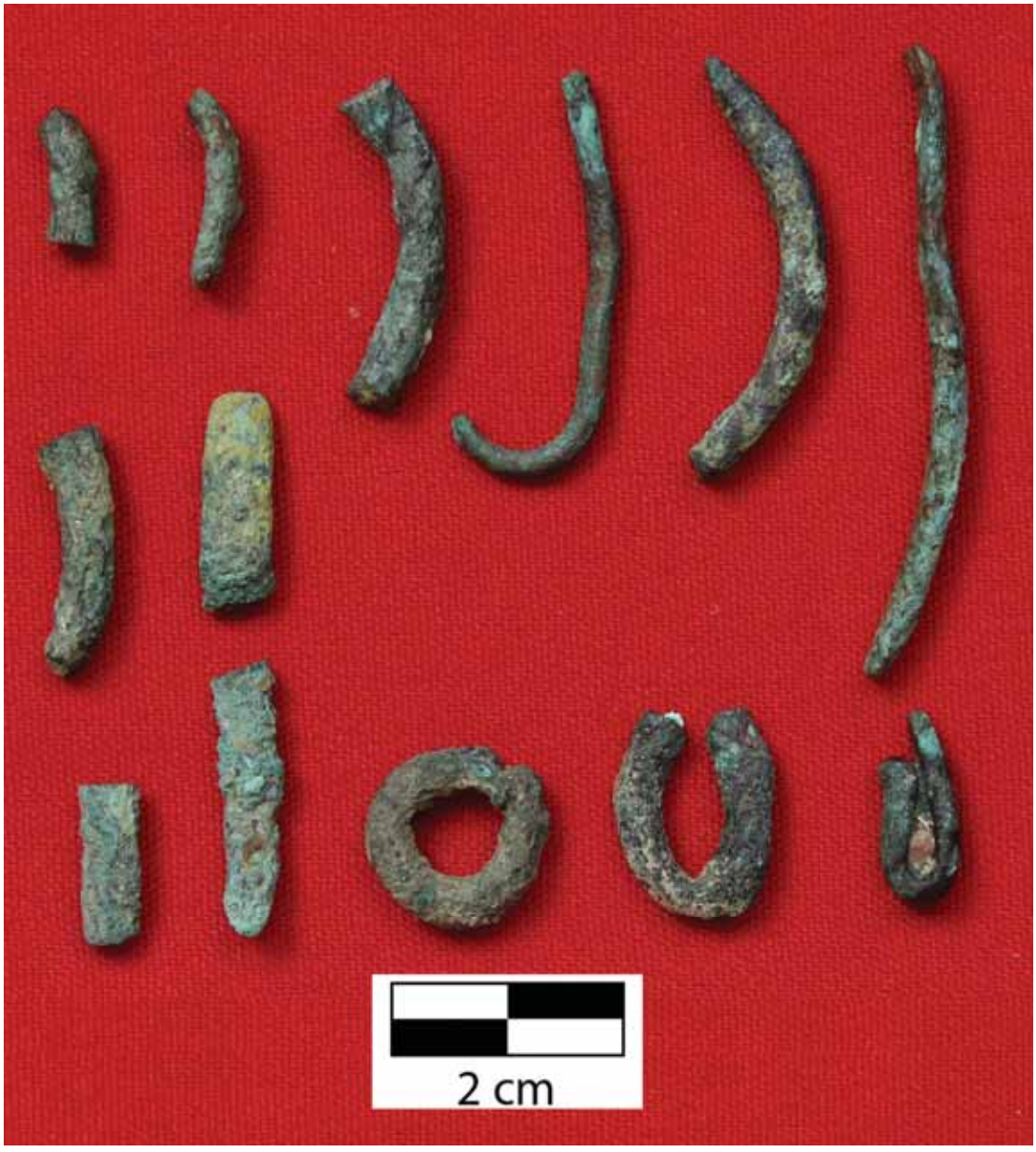

Figure 6: Copper Wires and Rings from Navinal

ranging from a visual or low-magnification (~20×) examination to magnifications over 1,000,000× with electron microscopes. Metallography may also include the examination of crystal structure by techniques such as X-ray Diffraction. However, the most familiar tool of metallography is a light microscope, with magnifications ranging from ~50 to 1000× and the ability to resolve microstructural features of ~0.2 μm or larger. Other major examination tool in metallography is the Scanning Electron Microscope (SEM). Compared to the light microscope, the SEM expands the resolution range by more than two orders of magnitude to approximately 4 nm in routine instruments, with ultimate values below 1 nm. Useful magnification covers the range from the Stereomicroscope, the entire range of the Light Microscope to much of the range of the Transmission

Electron Microscope (TEM) for possible viewing from 1,000× to >100,000×. The SEM also provides a greater depth of field, with depth of focus ranging from 1 μm at 10,000× to 2 mm at 10×, which is larger by more than two orders of magnitude compared to the Light Microscope. Thus Metallographic studies have always been of immense help in assessing the smelting and smithy techniques while composition analysis can enhance the understanding of provenience, impurity pattern and alloy patterns.

Figure 7: Sheet Fragments from Navinal

Earlier studies of Harappan copper artifacts from Rangpur (Rao 1963) and Somnath (Hegde 1965) revealed alloy patterns of copper-tin with low and high tin bronzes. Studies of artifacts from Lothal (Rao 1979, 1985) though indicated low and high tin bronzes; the absence of arsenic in the copper artifact composition is noteworthy. Presently, the available analytical data indicates that all objects from Kuntasi were made of copper devoid of arsenic and tin (Dhavalikar et al. 1996) though cross checking is needed for further clarification. Chemical (EDXRF and ASS) analysis of

copper artifacts from Nagwada indicate that the axes were made of pure copper and a chisel was an alloy, i.e., bronze (Seshadri 1990; 1992). Bagasra, (Sonawane et al. 2003; Bhan et al. 2004; Chase 2010) one of the significant Harappan sites having copper working and unique artifacts such as bone handle knives and a hoard (copper pot with eight bangles and a celt). These were subjected to preliminary typological study and conservation (Patel 2005-06) followed by composition analysis (Patel and Ajithprasad in press). The chemical composition of two chosen samples; a bangle (BSR 6310) and ring (BSR 4494) were determined by using Energy Dispersive X-ray (EDAX) method. The objects were deeply corroded and had mineralized to a great extent with heavy encrustation. Due to this, the composition indicated high yield of oxygen and chlorine. Zinc was present in both the objects and Arsenic also showed its presence in small quantities. Lead is absent in both the objects. Iron is present in both the objects and Iron being a common constituent in copper ores like chalcopyrite, pyrolite etc., it usually passes on to the metal while smelting. Complete removal of iron from the ore is difficult, as it requires high temperature as 1200°C. This indicates that the ore used at Bagasra had iron content in it and also the smelting might have been done below 1200°C.

Ten representative samples (Table 2) from Navinal were subjected to analysis by using JEOL JSM-5610LV Scanning Electron Microscope to estimate and understand the elemental composition, alloy patterns as well as microstructures. The sample selection was done based on a variety of categories identified. All objects were corroded on the surface. In order to remove the encrustation and corrosion layers on the surface and to expose the clean lower layer to get authentic results, the surface was polished by using abrading/sand paper.

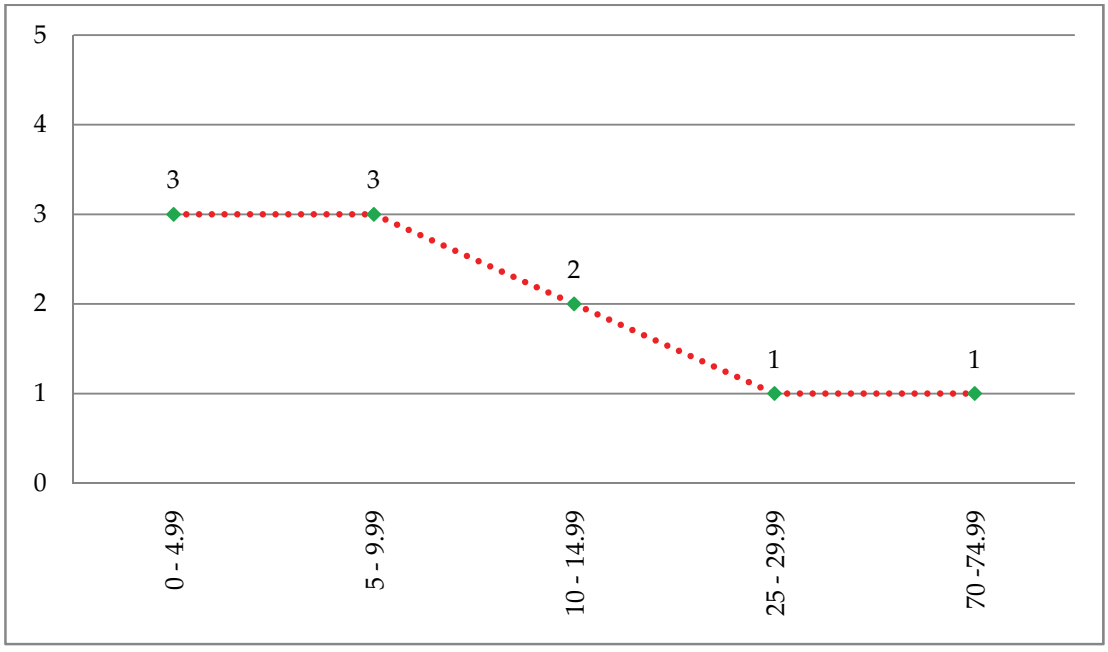

Figure 8: Weight of Crucible Fragments (in gram) from Navinal

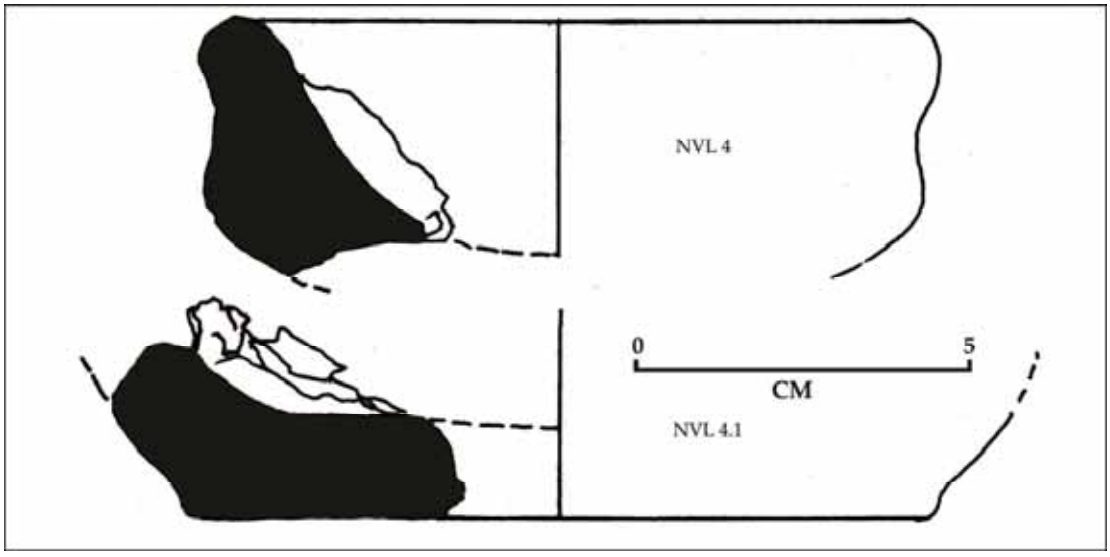

Figure 9: Shapes of Crucibles from Navinal

Figure 10: External Surface of Crucible Fragments from Navinal

Figure 11: Internal Surface of Crucible Fragments from Navinal

Though all the objects analyzed indicate traces of tin (Sn), those with more than 1% of Sn in this study are considered alloys and in such case, two of the artifacts (NVL 35 and NVL 29) indicate composition of bronze. At the same time NVL 35 with a high percentage of tin i.e. 14.59% can be considered as high tin bronze.

The ornaments (rings and beads) along with other artifacts had a minimal amount of zinc in them.NVL 53with 3.95% of Zinc and nominal amount of Tin in it makes it a Cu-Zn alloy, a composition of brass. Thus the composition study clearly reveals that NVL 29 and NVL 35 are the alloys of Cu-Sn-Zn.

Figure 12: Wastes of Copper Working from Navinal

Figure 13: Copper Beads (one with gold rivetting) from Navinal

Figure 14: Copper Prills from Navinal

Out of the ten analysed samples, four are Arsenic Bronzes having more than 1% Arsenic in them. Arsenic is a common constituent of many copper ores like energite and famitinite and passes on to the metal unless it is roasted for a long period of time at a temperature higher than 500^0C. However, the presence of Arsenic in analysed samples doesn't imply its deliberate addition in copper for casting ring/bangle but most probably indicates use of arsenic ore.

Among the ten analysed samples, lead is absent in five. Although, its traces are found in three other specimens. Two specimens, NVL 36 and NVL 38 indicated comparatively higher concentration i.e. 1.91% and 4.27% respectively. It appears that Lead might have been added deliberately in copper for making the objects more workable. However, due to its absence in other analysed objects, it is difficult to presume the use of lead in casting or in any other processes. The percentage of copper is varies in different objects and it is perhaps due to varying degrees of mineralization. As far as corrosion is concerned, major corrosion products are oxides followed by chlorides. All of the representative samples have encrustation on the surface.

Table 2: Elemental Composition of Selected Copper Objects from Navinal

Sl. No.	An. No.	Object	Cu	Sn	Zn	As	Pb	O	Cl	C	Si	S
1	NVL 2.1	Sheet/ Strip	82.64	0.8	-	-	-	3.57	2.99	-	-	-
2	NVL 16	Sheet/ Blade	80.07	0.14	0.58	-	-	3.51	5.70	-	-	-
3	NVL 53	Folded Sheet/ Tube	67.53	0.42	3.95	-	-	16.49	11.61	-	-	-
4	NVL 36	Ring	85.20	0.75	0.32	-	1.91	11.82	-	-	-	-
5	NVL 44	Bead	62.09	0.42	0.42	-	-	19.10	5.28	12.70	-	-
6	NVL 29	Wire	65.99	5.79	2.23	2.37	0.52	21.36	1.18	12.70	-	-
7	NVL 41	Hook	76.89	0.07	-	1.77	-	5.59	0.38	14.82	0.48	-
8	NVL 38	Nail	86.11	0.30	-	-	4.27	6.22	2.16	-	0.94	-
9	NVL 35	Ring	55.87	14.59	1.10	1.17	0.51	20.19	0.65	5.19	0.50	0.38
10	NVL 39	Wire	85.02	0.07	0.84	1.38	0.28	4.86	-	7.55	-	-

Microstructures

Microstructural studies can bring out more information on manufacturing techniques. The importance of microstructure to the properties of metals and alloys has long been recognized. Grain size, twins, and the size, shape and distribution of second-phase particles are important in determining the behavior of most structural metals. Process-control parameters are established to provide specific grain sizes. The number, size, and distribution of second-phase particles, such as inclusions, are frequently specified, and quantitative metallographic procedures have been developed to describe microstructure. Therefore optical (light) characterization of the microstructures of metals and alloys is essential. It involves the identification and measurement of phases, precipitates and constituents, the determination of the size and shape of the grains, the extent of twinning, some of the characteristics of grain boundaries and other observable defects. Solidification, solid-state transformation, deformation, and annealing microstructures are the four basic types in metals and alloys (Voort et al. 2004). Polished specimens of two representative samples (NVL 53 and NVL 35) from Navinal were prepared for micro structural studies. At first the specimens were polished by using various grades of abrasive papers. Diamond paste was used for polishing the specimens on the polishing wheels. The polished samples were etched by

the prepared etchant, ammonium hydroxide (5parts), hydrogen peroxide (3parts) and water (5parts).

Specimen 1- NVL 53 (Folded Sheet/Tube)

The sheet revealed differential corroded areas, with elongated strip like features, cracks and pitting (fig.15). The elongated patch shows extended oxidation. The microstructure indicate a copper base and tin alloy element phase with shiny crystals of Tin (these can be seen near and around the big black spot in the figure) and the grain structures are seen in rolled manner linearly stretched in the upward direction (Fig. 16). The one sided elongation of the crystal structure perhaps indicates the rolling of the sheet during fabrication. This kind of plastic deformation below certain temperatures gives directional properties to the final product and also adds to its hardness and tensile strength. The sheet fragment appears to be a part of a knife or a blade and might have worked for increasing the hardness and tensile strength for improving the property of the tool/implement.

Specimen 2 – NVL 35 (Ring)

The microstructure of the ring which is Cu-Tin alloy based, on composition analysis revealed evidence of the effects of heat treatment it underwent during fabrication. The cross pattern indicates two phases i.e. heating followed by quenching and also repeated heating and quenching (fig. 17). This high tin bronze ring might have been casted and then heat treated for final shaping followed by polishing.

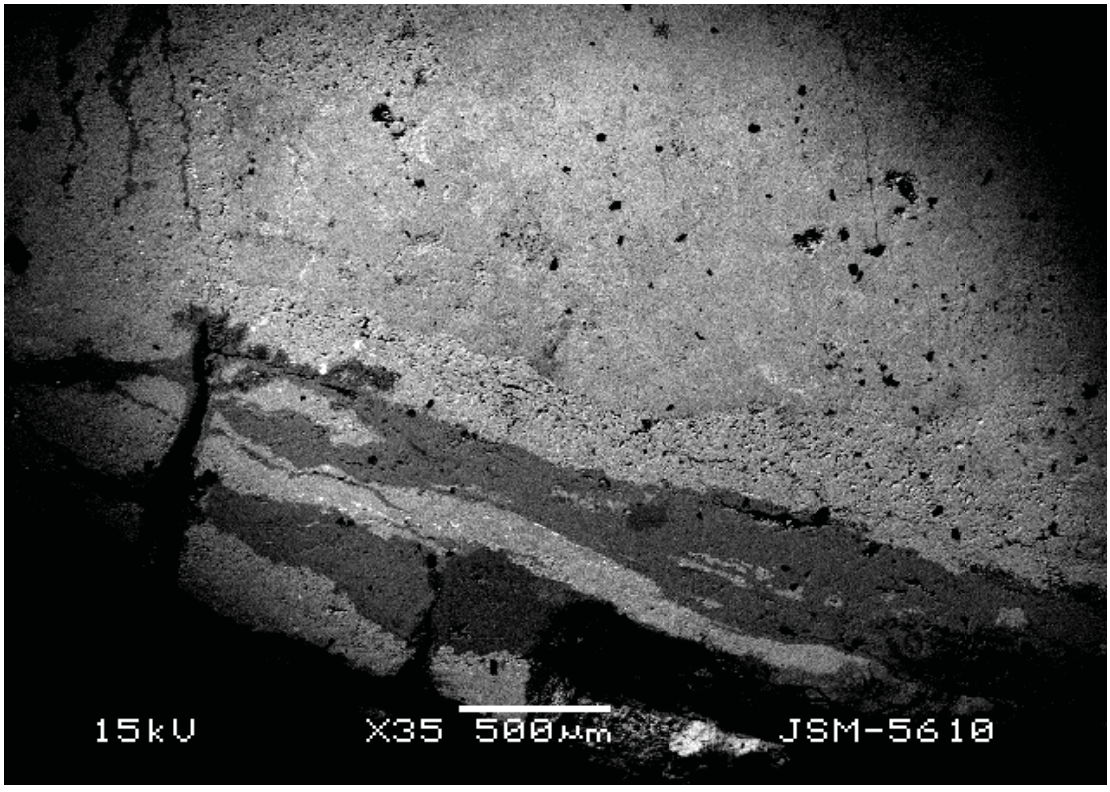

Figure 15: Microstructure of Specimen 1 – NVL 53 from Navinal

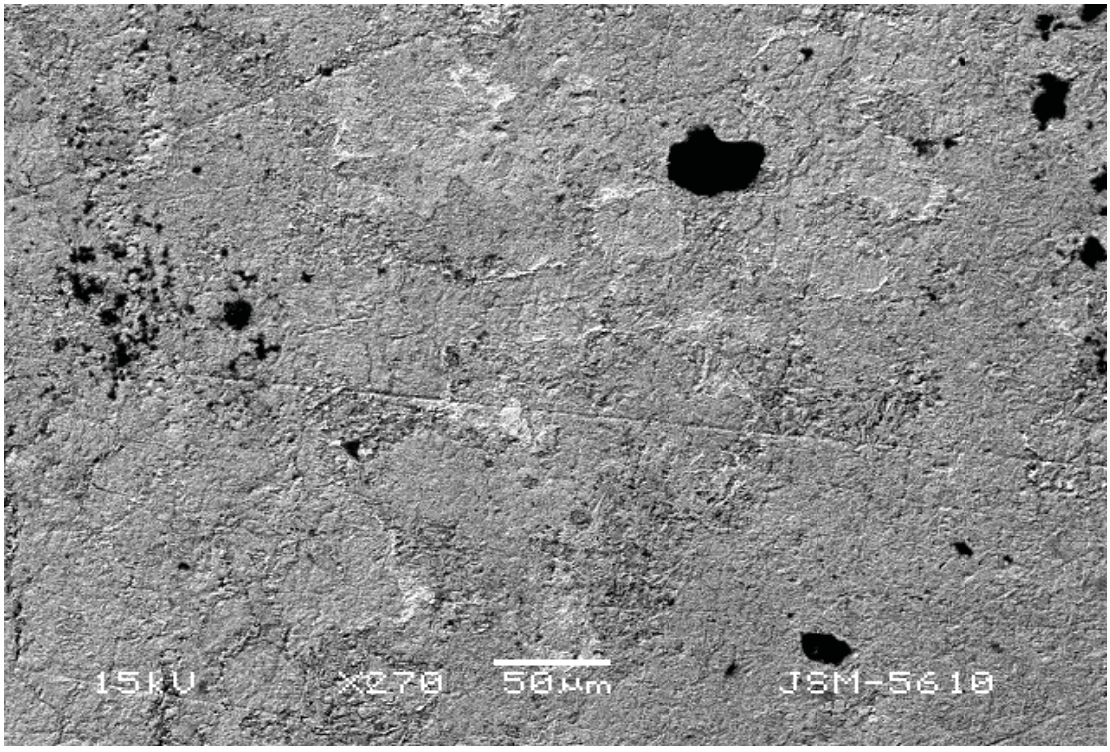

Figure 16: Microstructure of Specimen 1 – NVL 53 from Navinal

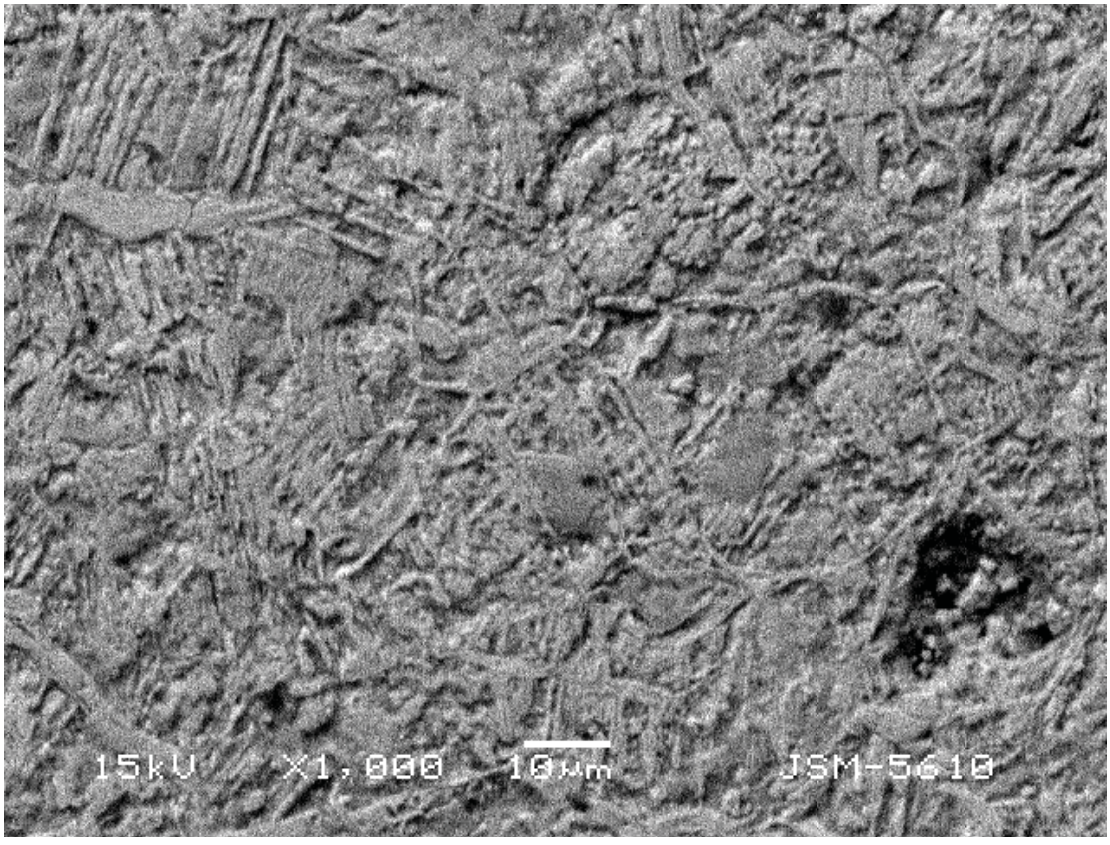

Figure 17: Microstructure of Specimen 2 – NVL 35 from Navinal

Conclusion

The copper objects recovered from Navinal included beads, chisel/bar/ingot, hook, blade of a knife, nail, ring, sheet, spatula, folded strips (tube), wire, prills etc. These objects were composed variously of Copper-Tin (Cu-Sn); Copper-Zinc (Cu-Zn) and Copper-Tin-Zinc (Cu-Sn-Zn) alloys. As far as the composition of artifacts from Navinal is concerned they are more or less similar to the composition of artifacts from sites such as Rangpur and Somnath. Artifacts from Lothal have indicated the absence of arsenic while the samples from Navinal revealed traces of arsenic in them and this probably indicates the exploitation of a different ore source or a different production technique. The microstructures indicate that forging might have been the method of object shaping by application of both hot and cold work. The specimens also indicated cycles of annealing and hot and cold work. Surface finishing treatments were not observed during the study.

Systematic scientific studies of copper working wastes, crucibles and finished objects from Navinal can contribute more to our understanding about raw material procurement, copper production and distribution of finished objects and role of the site in interregional interaction network. A methodical excavation and careful collection of archaeological remains is necessary at Navinal in order to answer the issues such as the changes in raw material procurement, production techniques in different cultural phases, the copper working areas within the site and the group of inhabitants engaged in copper production.

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Appendix 1: List of Copper Objects from Navinal

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
1	23	Spatula	Broken, Corroded	38.53	4.91	3.77	2.44	Small Chisel
2	24	Spatula	Broken, Corroded	29.85	6.15	3.68	2.94	Small Chisel
3	27	Sheet Fragments	Broken, Corroded	16.35	3.61	2.13	0.33	Both ends broken
4	26	Sheet Fragments	Broken, Corroded	28.61	4.21	3.8	1.78	One end broken, Slightly Curved
5	38	Nail	Broken, Corroded	21.99	2.5	2.63	0.73	One end towards head broken, Slightly Curved
6	41	Hook	Broken, Corroded	10.07	2.71	1.64	0.37	Head curved and joined to the body
7	36	Ring	Broken, Corroded	10.92	2.87	2.46	0.46	Both ends broken, probably a chainmail
8	39	Wire	Broken, Corroded	21.25	2.01	1.52	0.32	Both ends broken and one end curved
9	20	Nail	Broken, Corroded	29.82	5.61	4.4	1.55	Both ends broken
10	40	Ring	Broken, Corroded	7.26	3.48	3.49	0.63	Both ends broken
11	51	Ring	Broken, Corroded	12.11	4.97	4.47	0.72	Both ends broken
12	53	Tube/Folded Sheet	Broken, Corroded	19.74	10.9	5.68	1.6	Both ends broken
13	45	Bead	Broken, Corroded	6.09	4.24	3.94	0.23	Both ends broken, small barrel shape
14	44	Bead	Broken, Corroded	8.84	3.93	3.09	0.24	One end retains gold foil lamination, small, barrel shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
15	54	Tube/Folded Sheet	Broken, Corroded	20.26	7.5	2.3	0.99	both ends and one half broken, semicircular cross section
16	13	Prill	Broken, Corroded	18.97	21.26	7.1	5.93	irregular sides
17	47	Nail	Broken, Corroded	12.29	8.06	6.97	1.39	One end broken and other side has a crack
18	46	Tube/Folded Sheet	Broken, Corroded	23.59	5.07	4.94	1.38	Both ends broken, one end hollow, a strip?
19	49	Hook	Broken, Corroded	6.05	3.58	3.04	0.26	Head curved and joined to the body
20	37	Wire	Broken, Corroded	33.01	3.24	1.76	0.86	One end broken and other flattened towards end, many bends are present
21	21	Wire	Broken, Corroded	29.54	4.77	4.34	2.56	Both ends broken, a slight bend towards the centre
22	48	Tube/Folded Sheet	Broken, Corroded	14.1	7.01	5.18	0.94	Both ends broken, One end hollow and the other has a crack
23	50	Tube/Folded Sheet	Broken, Corroded	10.3	4.3	4.09	0.45	Both ends broken, cylinder in shape
24	32	Punch Point	Broken, Corroded	13.61	4.89	4.39	0.94	Broken towards head, cracks on surface
25	33	Punch Point	Broken, Corroded	11.7	5.49	4.54	1.2	broken towards tip
26	52	Punch Point	Broken, Corroded	10.06	4.53	4.03	0.45	brokentowards head
27	35	Ring	complete, Corroded	9.55	2.89	2.47	0.47	Both ends joined

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
28	28	Spatula	Broken, Corroded	21.41	2.85	1.7	0.38	Both ends broken, Flat tip
29	29	Wire	Broken, Corroded	16.29	3.86	2.55	0.56	Both ends broken
30	10	Chisel/Bar Ingot	Broken, Corroded	38.06	14.6	7.92	18.5	Eroded Surface, ingot?
31	12	Knife Handle	Broken, Corroded	38.36	15.73	10.04	14.37	broken handle of a knife
32	11	Celt/Ingot	Broken, Corroded	35.66	42.75	12.26	29.13	both ends broken, irregular surface
33	30	Punch Point	Broken, Corroded	19.21	5.4	4.96	1.64	both ends broken, broken towards head
34	31	Punch Point	Broken, Corroded	17.55	5.21	4.86	1.08	broken towards tip
35	25	Spatula	Broken, Corroded	29.7	3.99	2.33	1.2	Both ends broken
36	14	Blade of a Knife	Broken, Corroded	23.77	10.37	5.47	3.23	Joining portion of a knife handle and blade
37	43	Ring	Broken, Corroded	11.31	3.96	1.95	0.29	One end broken, Slightly Curved, flattened towards tip
38	43.1	Ring	Broken, Corroded	14.34	3.52	2.55	0.29	One end broken, Slightly Curved, flattened towards tip
39	42	Ring	Broken, Corroded	7.4	2.51	2.39	0.17	Both ends broken, twisted
40	42.1	Nail	Broken, Corroded	13.19	3.28	2.65	0.33	Both ends broken, curved towards tip
41	22	Ring	Broken, Corroded	12.7	3.29	3.08	0.43	Both ends broken, Slightly Curved

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
42	34	Ring	Broken, Corroded	8.43	3.12	2.24	0.14	Both ends broken, Slightly Curved
43	34.1	Ring	Broken, Corroded	10.56	3.27	1.65	0.26	One end broken and other flattened towards end, Slightly Curved
44	19	Prill	Broken, Corroded	8.25	6.94	3.06	0.54	irregular sides
45	19.1	Prill	Complete, Corroded	12.84	10.41	3.98	1.94	Flat, Oval in shape
46	19.2	Prill	Broken, Corroded	15.34	6.63	3.32	0.9	Flat, irregular sides, Cracks
47	19.3	Prill	Broken, Corroded	14.16	8.09	3.78	1.15	Flat Circular in shape, half broken
48	19.4	Prill	Broken, Corroded	13.26	10.61	5.14	1.55	Flat Circular in shape, half broken
49	19.5	Prill	Complete, Corroded	12.65	6.5	2.87	0.79	oval, Irregular
50	19.6	Prill	Complete, Corroded	11.56	7.76	2.33	0.62	Rough rectangular in shape, Irregular
51	19.7	Prill	Complete, Corroded	10.55	7.62	2.46	0.67	Flat, Irregular, Oval (like a drop) in shape
52	19.8	Prill	Broken, Corroded	11.32	6.33	3.39	0.59	Flat, irregular
53	19.9	Prill	Broken, Corroded	12.16	7.27	3.07	0.65	Flat, roughly oval
54	19.10	Prill	Broken, Corroded	10.78	9.19	3.77	0.6	Irregular surface, rough rectangular in shape
55	3.138	Prill	Complete, Corroded	_	_	_	0.18	Rough Globular in shape
56	3.140	Prill	Complete, Corroded	_	_	_	0.11	Flat, Rough, circular in shape
57	3.139	Prill	Broken, Corroded	_	_	_	0.27	irregular

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
58	3.141	Prill	Complete, Corroded	_	_	_	0.2	irregular
59	3.143	Prill	Complete, Corroded	_	_	_	0.08	Flat, Rough, circular in shape
60	3.142	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
61	3.144	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
62	3.145	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
63	3.132	Prill	Complete, Corroded	_	_	_	0.21	Rough Globular in shape
64	3.133	Prill	Complete, Corroded	_	_	_	0.19	Rough Globular in shape
65	3.134	Prill	Complete, Corroded	_	_	_	0.20	Rough Globular in shape
66	3.135	Prill	Complete, Corroded	_	_	_	0.32	Rough Globular in shape
67	3.136	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape
68	3.172	Prill	Complete, Corroded	_	_	_	0.11	Rough Globular in shape
69	3.173	Prill	Complete, Corroded	_	_	_	0.06	Irregular in shape
70	3.205	Prill	Complete, Corroded	_	_	_	0.06	Rough Globular in shape
71	3.206	Prill	Complete, Corroded	_	_	_	0.07	Rough Globular in shape
72	3.124	Prill	Complete, Corroded	_	_	_	0.20	Rough Globular in shape
73	3.171	Prill	Complete, Corroded	_	_	_	0.11	Rough Globular in shape
74	3.170	Prill	Complete, Corroded	_	_	_	0.11	Rough Globular in shape
75	3.169	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
76	3.168	Prill	Complete, Corroded	_	_	_	0.20	Irregular in shape
77	3.167	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
78	3.166	Prill	Complete, Corroded	_	_	_	0.15	Rough Globular in shape
79	3.165	Prill	Complete, Corroded	_	_	_	0.18	Rough Globular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
80	3.164	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
81	3.163	Prill	Complete, Corroded	_	_	_	0.09	Rough Globular in shape
82	3.162	Prill	Complete, Corroded	_	_	_	0.14	Rough Globular in shape
83	3.161	Prill	Complete, Corroded	_	_	_	0.15	Rough Globular in shape
84	3.160	Prill	Broken, Corroded	_	_	_	0.28	Rough Globular in shape
85	3.159.1	Prill	Complete, Corroded	_	_	_	0.18	Rough Globular in shape
86	3.159	Prill	Complete, Corroded	_	_	_	0.07	Irregular in shape
87	3.158	Prill	Complete, Corroded	_	_	_	0.19	Rough Globular in shape
88	3.157	Prill	Complete, Corroded	_	_	_	0.17	Rough Globular in shape
89	3.156	Prill	Complete, Corroded	_	_	_	0.17	Irregular in shape
90	3.155	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
91	3.154	Prill	Complete, Corroded	_	_	_	0.27	Rough Globular in shape
92	3.153	Prill	Complete, Corroded	_	_	_	0.12	Rough Globular in shape
93	3.152	Prill	Complete, Corroded	_	_	_	0.26	Rough Globular in shape
94	3.150	Prill	Complete, Corroded	_	_	_	0.17	Rough Globular in shape
95	3.151	Prill	Complete, Corroded	_	_	_	0.24	Rough Globular in shape
96	3.149	Prill	Complete, Corroded	_	_	_	0.33	Rough Globular in shape
97	3.64	Prill	Complete, Corroded	_	_	_	0.34	Rough Globular in shape
98	3.63	Prill	Complete, Corroded	_	_	_	0.23	Rough Globular in shape
99	3.148	Prill	Complete, Corroded	_	_	_	0.28	Rough Globular in shape
100	3.62	Prill	Complete, Corroded	_	_	_	0.37	Irregular in shape
101	3.61	Prill	Complete, Corroded	_	_	_	0.24	Irregular in shape
102	3.60	Prill	Complete, Corroded	_	_	_	0.59	Irregular in shape

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
103	3.59	Prill	Complete, Corroded	_	_	_	0.24	Rough Globular in shape
104	3.58	Prill	Complete, Corroded	_	_	_	0.47	Rough Globular in shape
105	3.57	Prill	Complete, Corroded	_	_	_	0.32	Irregular in shape
106	3.56	Prill	Complete, Corroded	_	_	_	0.77	Rough Globular in shape
107	3.55	Prill	Complete, Corroded	_	_	_	0.47	Irregular in shape
108	3.54	Prill	Complete, Corroded	_	_	_	0.56	Rough Globular in shape
109	3.53	Prill	Complete, Corroded	_	_	_	0.80	Rough Globular in shape
110	3.52	Prill	Complete, Corroded	_	_	_	0.30	Rough Globular in shape
111	3.51	Prill	Complete, Corroded	_	_	_	1.15	Irregular in shape
112	3.50	Prill	Complete, Corroded	_	_	_	0.23	Rough Globular in shape
113	3.49	Prill	Complete, Corroded	_	_	_	0.19	Rough Globular in shape
114	3.48	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape
115	3.47	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
116	3.1	Prill	Complete, Corroded	_	_	_	1.33	Irregular in shape
117	3.2	Prill	Complete, Corroded	_	_	_	1.51	Rough Globular in shape
118	3.46	Prill	Broken, Corroded	_	_	_	0.28	Irregular in shape
119	3.30	Prill	Complete, Corroded	_	_	_	4.92	Rough Globular in shape
120	3.4	Prill	Complete, Corroded	_	_	_	0.69	Flat Oval in shape
121	3.5	Prill	Complete, Corroded	_	_	_	0.62	Irregular in shape
122	3.6	Prill	Complete, Corroded	_	_	_	1.68	Rough Globular in shape
123	3.7	Prill	Complete, Corroded	_	_	_	0.49	Irregular in shape
124	3.8	Prill	Complete, Corroded	_	_	_	0.73	Irregular in shape
125	3.9	Prill	Complete, Corroded	_	_	_	1.14	Rough Globular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
126	3.10	Prill	Complete, Corroded	_	_	_	0.72	Rough Globular in shape
127	3.11	Prill	Complete, Corroded	_	_	_	2.15	Rough Globular in shape
128	3.12	Prill	Complete, Corroded	_	_	_	1.14	Oval in shape
129	3.13	Prill	Complete, Corroded	_	_	_	0.45	Rough Globular in shape
130	3.14	Prill	Complete, Corroded	_	_	_	0.71	Rough Globular in shape
131	3.15	Prill	Complete, Corroded	_	_	_	0.33	Rough Globular in shape
132	3.16	Prill	Complete, Corroded	_	_	_	0.42	Rough Globular in shape
133	3.17	Prill	Complete, Corroded	_	_	_	0.37	Rough Globular in shape
134	3.18	Prill	Complete, Corroded	_	_	_	0.36	Rough Globular in shape
135	3.19	Prill	Complete, Corroded	_	_	_	0.63	Rough Globular in shape
136	3.20	Prill	Complete, Corroded	_	_	_	0.80	Irregular (like a drop) in shape
137	3.21	Prill	Complete, Corroded	_	_	_	2.33	Flat Oval in shape
138	3.22	Prill	Complete, Corroded	_	_	_	1.02	Rough Globular in shape
139	3.23	Prill	Complete, Corroded	_	_	_	0.23	Rough Globular in shape
140	3.24	Prill	Complete, Corroded	_	_	_	0.99	Rough Globular in shape
141	3.25	Prill	Complete, Corroded	_	_	_	0.89	Rough Globular in shape
142	3.26	Prill	Complete, Corroded	_	_	_	0.62	Rough Globular in shape
143	3.27	Prill	Complete, Corroded	_	_	_	1.28	Rough Globular in shape
144	3.28	Prill	Complete, Corroded	_	_	_	0.73	Pully shaped (dumbbell)
145	3.29	Prill	Complete, Corroded	_	_	_	0.35	Rough Globular in shape
146	3.30	Prill	Complete, Corroded	_	_	_	0.62	Rough Globular in shape
147	3.31	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
148	3.32	Prill	Complete, Corroded	_	_	_	0.49	Flat Circular in shape
149	3.33	Prill	Complete, Corroded	_	_	_	0.86	Rough Globular in shape
150	3.34	Prill	Complete, Corroded	_	_	_	0.41	Rough Globular in shape
151	3.35	Prill	Complete, Corroded	_	_	_	2.48	Rough Globular in shape
152	3.36	Prill	Complete, Corroded	_	_	_	0.75	Rough Globular in shape
153	3.37	Prill	Complete, Corroded	_	_	_	0.21	Rough Globular in shape
154	3.38	Prill	Complete, Corroded	_	_	_	1.73	Irregular in shape
155	3.39	Prill	Complete, Corroded	_	_	_	0.52	Irregular (like a drop) in shape
156	3.40	Prill	Complete, Corroded	_	_	_	0.54	Rough Globular in shape
157	3.41	Prill	Complete, Corroded	_	_	_	0.56	Rough Globular in shape
158	3.42	Prill	Complete, Corroded	_	_	_	0.63	Rough Globular in shape
159	3.43	Prill	Complete, Corroded	_	_	_	0.40	Irregular (like a drop) in shape
160	3.45	Prill	Complete, Corroded	_	_	_	0.27	Rough Globular in shape
161	3	Prill	Complete, Corroded	_	_	_	1.65	Rough Globular in shape
162	3.66	Prill	Complete, Corroded	_	_	_	0.39	Rough Globular in shape
163	3.67	Prill	Complete, Corroded	_	_	_	1.20	Irregular in shape
164	3.86	Prill	Complete, Corroded	_	_	_	1.11	Rough Globular in shape
165	3.68	Prill	Complete, Corroded	_	_	_	0.27	Rough Globular in shape
166	3.69	Prill	Complete, Corroded	_	_	_	0.17	Rough Globular in shape
167	3.70	Prill	Complete, Corroded	_	_	_	0.16	Rough Globular in shape
168	3.71	Prill	Complete, Corroded	_	_	_	0.49	Rough Globular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
169	3.72	Prill	Complete, Corroded	_	_	_	0.27	Rough Globular in shape
170	3.73	Prill	Complete, Corroded	_	_	_	0.38	Rough Globular in shape
171	3.74	Prill	Complete, Corroded	_	_	_	0.19	Rough Globular in shape
172	3.75	Prill	Complete, Corroded	_	_	_	0.59	Flat , Circular in shape
173	3.76	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape
174	3.87	Prill	Complete, Corroded	_	_	_	0.34	Rough Globular in shape
175	3.88	Prill	Complete, Corroded	_	_	_	0.06	Rough Globular in shape
176	3.89	Prill	Complete, Corroded	_	_	_	0.09	Rough Globular in shape
177	3.77	Prill	Complete, Corroded	_	_	_	0.29	Rough Globular in shape
178	3.78	Prill	Complete, Corroded	_	_	_	0.21	Rough Globular in shape
179	3.80	Prill	Complete, Corroded	_	_	_	0.18	Rough Globular in shape
180	3.81	Prill	Complete, Corroded	_	_	_	0.28	Rough Globular in shape
181	3.82	Prill	Complete, Corroded	_	_	_	0.24	Rough Globular in shape
182	3.83	Prill	Complete, Corroded	_	_	_	0.93	Rough Globularin shape
183	3.84	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape
184	3.85	Prill	Complete, Corroded	_	_	_	0.44	Rough Globular in shape
185	3.90	Prill	Complete, Corroded	_	_	_	0.65	Rough Globular in shape
186	3.91	Prill	Complete, Corroded	_	_	_	0.56	Rough Globular in shape
187	3.92	Prill	Complete, Corroded	_	_	_	0.47	Irregular in shape
188	3.93	Prill	Complete, Corroded	_	_	_	0.68	Rough Globular in shape
189	3.94	Prill	Complete, Corroded	_	_	_	0.43	Rough Globular in shape
190	3.97	Prill	Complete, Corroded	_	_	_	0.12	Rough Globular in shape
191	3.96	Prill	Complete, Corroded	_	_	_	0.34	Rough Globular in shape

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
192	3.99	Prill	Complete, Corroded	_	_	_	0.26	Rough Globular in shape
193	3.100	Prill	Complete, Corroded	_	_	_	0.18	Rough Globular in shape
194	3.101	Prill	Complete, Corroded	_	_	_	0.44	Rough Globular in shape
195	3.102	Prill	Complete, Corroded	_	_	_	0.12	Rough Globular in shape
196	3.104	Prill	Complete, Corroded	_	_	_	0.26	Rough Globular in shape
197	3.105	Prill	Complete, Corroded	_	_	_	0.27	Irregular in shape
198	3.106	Prill	Complete, Corroded	_	_	_	0.26	Rough Globular in shape
199	3.107	Prill	Complete, Corroded	_	_	_	0.18	Rough Globular in shape
200	3.108	Prill	Complete, Corroded	_	_	_	0.12	Rough Globular in shape
201	3.109	Prill	Broken, Corroded	_	_	_	0.16	Rough Globular in shape
202	3.110	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape
203	3.111	Prill	Complete, Corroded	_	_	_	0.30	Rough Globular in shape
204	3.112	Prill	Complete, Corroded	_	_	_	0.26	Irregular, like a drop, in shape
205	3.113	Prill	Complete, Corroded	_	_	_	0.33	Rough Globular in shape
206	3.114	Prill	Complete, Corroded	_	_	_	0.07	Rough Globular in shape
207	3.103	Prill	Broken, Corroded	_	_	_	0.29	Rough Globular in shape
208	3.98	Prill	Complete, Corroded	_	_	_	0.21	Rough Globular in shape
209	3.95	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape
210	3.79	Prill	Complete, Corroded	_	_	_	0.24	Irregular in shape
211	3.115	Prill	Complete, Corroded	_	_	_	0.33	Flat Circular in shape
212	3.116	Prill	Complete, Corroded	_	_	_	0.05	Rough Globular in shape
213	3.117	Prill	Complete, Corroded	_	_	_	0.15	Rough Globular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
214	3.118	Prill	Complete, Corroded	_	_	_	0.09	Rough Globular in shape
215	3.119	Prill	Complete, Corroded	_	_	_	0.67	Rough Globular in shape
216	3.120	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
217	3.122	Prill	Complete, Corroded	_	_	_	0.20	Rough Globular in shape
218	3.123	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
219	3.125	Prill	Complete, Corroded	_	_	_	0.36	Rough Globular in shape
220	3. 126	Prill	Complete, Corroded	_	_	_	0.21	Rough Globular in shape
221	3.127	Prill	Complete, Corroded	_	_	_	0.18	Rough Globular in shape
222	3.128	Prill	Complete, Corroded	_	_	_	0.24	Rough Globular in shape
223	3.129	Prill	Complete, Corroded	_	_	_	0.19	Rough Globular in shape
224	3.130	Prill	Complete, Corroded	_	_	_	0.36	Rough Globular in shape
225	3.131	Prill	Complete, Corroded	_	_	_	0.11	Rough Globular in shape
226	3.137	Prill	Complete, Corroded	_	_	_	0.40	Rough Globular in shape
227	3.21	Prill	Complete, Corroded	_	_	_	0.09	Rough Globular in shape
228	3.65	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
229	3.174	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
230	3.175	Prill	Complete, Corroded	_	_	_	0.35	Rough Globular in shape
231	3.176	Prill	Complete, Corroded	_	_	_	0.17	Rough Globular in shape
232	3.177	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
233	3.178	Prill	Complete, Corroded	_	_	_	0.14	Rough Globular in shape
234	3.179	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
235	3.180	Prill	Complete, Corroded	_	_	_	0.09	Rough Globular in shape
236	3.181	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
237	3.182	Prill	Complete, Corroded	_	_	_	0.07	Rough Globular in shape
238	3.183	Prill	Complete, Corroded	_	_	_	0.17	Rough Globular in shape
239	3.184	Prill	Complete, Corroded	_	_	_	0.06	Irregular in shape
240	3.185	Prill	Complete, Corroded	_	_	_	0.07	Rough Globular in shape
241	3.186	Prill	Complete, Corroded	_	_	_	0.07	Rough Globular in shape
242	3.187	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
243	3.188	Prill	Complete, Corroded	_	_	_	0.12	Rough Globular in shape
244	3.189	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
245	3.190	Prill	Complete, Corroded	_	_	_	0.06	Rough Globular in shape
246	3.191	Prill	Complete, Corroded	_	_	_	0.06	Rough Globular in shape
247	3.192	Prill	Complete, Corroded	_	_	_	0.14	Rough Globular in shape
248	3.193	Prill	Complete, Corroded	_	_	_	0.08	Rough Globular in shape
249	3.194	Prill	Complete, Corroded	_	_	_	0.03	Rough Globular in shape
250	3.195	Prill	Complete, Corroded	_	_	_	0.06	Rough Globular in shape
251	3.196	Prill	Complete, Corroded	_	_	_	0.05	Rough Globular in shape
252	3.197	Prill	Complete, Corroded	_	_	_	0.09	Rough Globular in shape
253	3.198	Prill	Complete, Corroded	_	_	_	0.06	Rough Globular in shape
254	3.199	Prill	Complete, Corroded	_	_	_	0.05	Rough Globular in shape
255	3.200	Prill	Complete, Corroded	_	_	_	0.06	Rough Globular in shape
256	3.201	Prill	Complete, Corroded	_	_	_	0.05	Rough Globular in shape
257	3.202	Prill	Complete, Corroded	_	_	_	0.07	Rough Globular in shape
258	3.203	Prill	Complete, Corroded	_	_	_	0.05	Rough Globular in shape
259	3.204	Prill	Complete, Corroded	_	_	_	0.04	Rough Globular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
260	3.146	Prill	Complete, Corroded	_	_	_	0.10	Rough Globular in shape
261	3.147	Prill	Complete, Corroded	_	_	_	0.25	Rough Globular in shape
262	2.41	Prill	Complete, Corroded	_	_	_	0.89	Irregular in shape
263	2.2	Prill	Complete, Corroded	_	_	_	2.41	Irregular in shape
264	2.40	Prill	Complete, Corroded	_	_	_	0.45	Irregular in shape
265	2.25	Prill	Complete, Corroded	_	_	_	0.96	Irregular in shape
266	2	Prill	Broken, Corroded	_	_	_	2.22	Irregular in shape
267	2.57	Prill	Complete, Corroded	_	_	_	0.24	Irregular in shape
268	2.56	Prill	Complete, Corroded	_	_	_	0.58	Irregular in shape
269	2.58	Prill	Broken, Corroded	_	_	_	0.28	Irregular in shape
270	2.59	Prill	Complete, Corroded	_	_	_	0.56	Irregular in shape
271	2.60	Prill	Complete, Corroded	_	_	_	0.28	Irregular in shape
272	2.47	Prill	Complete, Corroded	_	_	_	0.51	Irregular in shape
273	2.48	Prill	Complete, Corroded	_	_	_	0.72	Irregular in shape
274	2.49	Prill	Complete, Corroded	_	_	_	0.53	Irregular in shape
275	2.89	Prill	Complete, Corroded	_	_	_	0.28	Irregular in shape
276	2.87	Prill	Complete, Corroded	_	_	_	0.28	Irregular Oval in shape
277	2.86	Prill	Complete, Corroded	_	_	_	0.24	Irregular in shape
278	2.85	Prill	Complete, Corroded	_	_	_	0.32	Irregular
279	2.84	Prill	Broken, Corroded	_	_	_	0.32	Irregular
280	2.83	Prill	Complete, Corroded	_	_	_	0.36	Irregular
281	2.82	Prill	Complete, Corroded	_	_	_	0.14	Globular
282	2.61	Prill	Complete, Corroded	_	_	_	0.71	Irregular

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
283	2.62	Prill	Complete, Corroded	_	_	_	0.70	Irregular
284	2.63	Prill	Complete, Corroded	_	_	_	0.33	Irregular in shape
285	2.64	Prill	Complete, Corroded	_	_	_	0.34	Irregular in shape
286	2.65	Prill	Broken, Corroded	_	_	_	0.62	Irregular in shape
287	2.66	Prill	Broken, Corroded	_	_	_	0.54	Irregular in shape
288	2.67	Prill	Complete, Corroded	_	_	_	0.38	Irregular in shape
289	2.68	Prill	Complete, Corroded	_	_	_	0.79	Irregular in shape
290	2.70	Prill	Complete, Corroded	_	_	_	0.30	Irregular in shape
291	2.69	Prill	Complete, Corroded	_	_	_	0.45	Irregular in shape
292	2.71	Prill	Complete, Corroded	_	_	_	0.60	Irregular in shape
293	2.72	Prill	Complete, Corroded	_	_	_	0.40	Irregular in shape
294	2.73	Prill	Complete, Corroded	_	_	_	0.41	Irregular in shape
295	2.74	Prill	Complete, Corroded	_	_	_	0.14	Irregular in shape
296	2.75	Prill	Complete, Corroded	_	_	_	0.44	Irregular in shape
297	2.76	Prill	Complete, Corroded	_	_	_	0.15	Irregular in shape
298	2.77	Prill	Complete, Corroded	_	_	_	1.21	Irregular in shape
299	2.78	Prill	Complete, Corroded	_	_	_	0.35	Irregular in shape
300	2.79	Ring	Complete, Corroded	5.73	4.26	3.44	0.19	One surface irregular, Curved and joined to the body
301	2.80	Prill	Broken, Corroded	_	_	_	0.18	Irregular, rectangular in shape
302	2.81	Prill	Complete, Corroded	_	_	_	0.24	Irregular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
303	2.54	Prill	Complete, Corroded	_	_	_	0.67	Irregular in shape
304	2.53	Prill	Complete, Corroded	_	_	_	0.80	Irregular in shape
305	2.52	Prill	Complete, Corroded	_	_	_	1.23	Irregular in shape
306	2.51	Prill	Complete, Corroded	_	_	_	0.25	Irregular in shape
307	2.50	Prill	Broken, Corroded	_	_	_	0.38	Irregular in shape
308	2.16	Prill	Complete, Corroded	_	_	_	0.71	Irregular in shape
309	2.27	Prill	Complete, Corroded	_	_	_	0.52	Irregular in shape
310	2.14	Prill	Complete, Corroded	_	_	_	1.38	Irregular in shape
311	2.30	Prill	Complete, Corroded	_	_	_	0.93	Irregular in shape
312	2.31	Prill	Complete, Corroded	_	_	_	10.63	Irregular in shape
313	2.34	Prill	Complete, Corroded	_	_	_	0.78	Irregular in shape
314	2.35	Prill	Broken, Corroded	_	_	_	0.36	Irregular in shape
315	2.36	Prill	Complete, Corroded	_	_	_	0.86	Irregular in shape
316	2.37	Prill	Complete, Corroded	_	_	_	1.16	Irregular in shape
317	2.38	Prill	Complete, Corroded	_	_	_	0.86	Irregular in shape
318	2.39	Prill	Broken, Corroded	_	_	_	0.61	Irregular in shape
319	2.43	Prill	Complete, Corroded	_	_	_	1.66	Irregular, triangular in shape
320	2.15	Prill	Complete, Corroded	_	_	_	9.91	Irregular, Globular in shape
321	2.17	Prill	Complete, Corroded	_	_	_	2.86	Irregular in shape
322	2.19	Prill	Broken, Corroded	_	_	_	2.92	Irregular in shape
323	2.18	Prill	Complete, Corroded	_	_	_	2.72	Irregular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
324	2.22	Prill	Complete, Corroded	_	_	_	1.73	Irregular in shape
325	2.21	Prill	Complete, Corroded	_	_	_	0.99	Irregular in shape
326	2.42	Prill	Broken, Corroded	_	_	_	0.63	Irregular in shape
327	2.29	Prill	Complete, Corroded	_	_	_	3.09	Irregular in shape
328	2.60	Prill	Complete, Corroded	_	_	_	3.68	Irregular in shape
329	2.5	Prill	Complete, Corroded	_	_	_	4.10	Irregular in shape
330	2.4	Prill	Complete, Corroded	_	_	_	3.38	Irregular in shape
331	2.32	Prill	Complete, Corroded	_	_	_	1.29	Irregular in shape
332	2.20	Prill	Complete, Corroded	_	_	_	1.51	Irregular in shape
333	2.24	Prill	Complete, Corroded	_	_	_	2.00	Irregular in shape
334	2.10	Prill	Complete, Corroded	_	_	_	1.55	Irregular in shape
335	2.44	Prill	Complete, Corroded	_	_	_	0.89	Irregular in shape
336	2.11	Prill	Complete, Corroded	_	_	_	2.54	Irregular in shape
337	2.13	Prill	Complete, Corroded	_	_	_	1.43	Irregular in shape
338	2.23	Prill	Complete, Corroded	_	_	_	3.08	Irregular in shape
339	2.26	Prill	Complete, Corroded	_	_	_	2.17	Irregular in shape
340	2.12	Prill	Complete, Corroded	_	_	_	2.03	Irregular in shape
341	2.9	Prill	Broken, Corroded	_	_	_	1.96	Irregular in shape
342	2.80	Prill	Complete, Corroded	_	_	_	3.29	Irregular in shape
343	2.28	Prill	Complete, Corroded	_	_	_	0.98	Irregular in shape
344	2.30	Prill	Complete, Corroded	_	_	_	0.45	Irregular in shape
345	2.46	Prill	Complete, Corroded	_	_	_	1.41	Irregular in shape
346	2.33	Prill	Complete, Corroded	_	_	_	0.25	Irregular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
347	2.45	Prill	Complete, Corroded	_	_	_	0.73	Irregular in shape
348	2.88	Prill	Complete, Corroded	_	_	_	2.15	Irregular in shape
349	2.13	Prill	Complete, Corroded	_	_	_	1.75	Irregular in shape
350	2. 55	Prill	Complete, Corroded	_	_	_	0.29	Irregular in shape
351	2. 91	Prill	Complete, Corroded	_	_	_	0.61	Irregular in shape
352	16	Knife Blade	Broken, Corroded	23.75	15.05	0.72	1.03	Irregular Breakage
353	16.1	Sheet Fragments	Broken, Corroded	12.5	5.87	2.17	0.26	Irregular in shape
354	16.2	Sheet Fragments	Broken, Corroded	12.66	7.61	1.54	0.42	Irregular in shape
355	16.3	Sheet Fragments	Broken, Corroded	8.24	7.32	1.45	0.29	Irregular in shape
356	16.4	Sheet Fragments	Broken, Corroded	6.71	4.54	1.07	0.09	Irregular in shape
357	16.5	Sheet Fragments	Broken, Corroded	14.55	9.54	2.07	0.56	Irregular in shape
358	16.6	Sheet Fragments	Broken, Corroded	8.25	7.08	1.98	0.26	Irregular in shape
359	16.7	Sheet Fragments	Broken, Corroded	10.68	5.7	0.91	0.19	Irregular in shape
360	16.8	Sheet Fragments	Broken, Corroded	7.06	5.2	0.87	0.14	Irregular in shape
361	16.9	Sheet Fragments	Broken, Corroded	6.9	7.13	1.08	0.11	Irregular in shape

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
362	16.10	Sheet Fragments	Broken, Corroded	13.21	6.98	3.52	0.53	Irregular in shape
363	16.11	Sheet Fragments	Broken, Corroded	8.13	4.47	1.79	0.17	Irregular in shape
364	16.12	Sheet Fragments	Broken, Corroded	5.42	5.04	0.74	0.08	Irregular in shape
365	16.13	Sheet Fragments	Broken, Corroded	8.26	4.15	1.84	0.10	Irregular in shape
366	16.14	Sheet Fragments	Broken, Corroded	4.93	5.7	0.67	0.06	Irregular in shape
367	16.15	Sheet Fragments	Broken, Corroded	4.97	3.46	0.93	0.07	Irregular in shape
368	16.16	Sheet Fragments	Broken, Corroded	6.07	4.17	1.3	0.07	Irregular in shape
369	16.17	Sheet Fragments	Broken, Corroded	5.27	3.51	1.01	0.09	Irregular in shape
370	16.18	Sheet Fragments	Broken, Corroded	7.13	5.65	1.38	0.21	Irregular in shape
371	16.19	Sheet Fragments	Broken, Corroded	7.4	4.39	1.38	0.10	Irregular in shape
372	16.20	Sheet Fragments	Broken, Corroded	6.5	3.43	0.78	0.06	Irregular in shape
373	16.21	Sheet Fragments	Broken, Corroded	5.64	4.19	1.07	0.08	Irregular in shape
374	16.22	Sheet Fragments	Broken, Corroded	5.31	5.61	1.27	0.06	Irregular, cracks

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
375	16.23	Sheet Fragments	Broken, Corroded	5.36	3.29	1.38	0.07	Irregular in shape
376	16.24	Sheet Fragments	Broken, Corroded	4.61	3.83	0.85	0.07	Irregular in shape
377	16.25	Sheet Fragments	Broken, Corroded	7.02	3.12	0.97	0.05	Irregular in shape
378	16.26	Sheet Fragments	Broken, Corroded	5.11	4.84	1.49	0.07	Irregular in shape
379	16.27	Sheet Fragments	Broken, Corroded	5.53	3.67	1.2	0.05	Irregular in shape
380	16.28	Sheet Fragments	Broken, Corroded	_	_	_	0.10	Irregular in shape
381	16.29	Sheet Fragments	Broken, Corroded	_	_	_	0.11	Irregular in shape
382	16.30	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
383	16.31	Sheet Fragments	Broken, Corroded	_	_	_	0.06	Irregular in shape
384	16.32	Sheet Fragments	Broken, Corroded	_	_	_	0.10	Irregular in shape
385	16.33	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
386	16.34	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
387	16.35	Sheet Fragments	Broken, Corroded	_	_	_	0.06	Irregular in shape

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
388	16.36	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
389	16.37	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
390	16.38	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
391	16.39	Sheet Fragments	Broken, Corroded	_	_	_	0.06	Irregular in shape
392	16.40	Sheet Fragments	Broken, Corroded	_	_	_	0.06	Irregular in shape
393	16.41	Sheet Fragments	Broken, Corroded	_	_	_	0.03	Irregular in shape
394	16.42	Sheet Fragments	Broken, Corroded	_	_	_	0.08	Irregular in shape
395	16.43	Sheet Fragments	Broken, Corroded	_	_	_	0.07	Irregular in shape
396	16.44	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
397	16.45	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
398	16.46	Sheet Fragments	Broken, Corroded	_	_	_	0.05	Irregular in shape
399	16.47	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
400	16.48	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
401	16.49	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
402	16.50	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
403	16.51	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
404	16.52	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
405	16.53	Sheet Fragments	Broken, Corroded	_	_	_	0.06	Irregular in shape
406	16.54	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
407	16.55	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
408	16.56	Sheet Fragments	Broken, Corroded	_	_	_	0.03	Irregular in shape
409	16.57	Sheet Fragments	Broken, Corroded	_	_	_	0.03	Irregular in shape
410	16.58	Sheet Fragments	Broken, Corroded	_	_	_	0.03	Irregular in shape
411	16.59	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
412	16.60	Sheet Fragments	Broken, Corroded	_	_	_	0.04	Irregular in shape
413	16.61	Sheet Fragments	Broken, Corroded	_	_	_	0.03	Irregular in shape

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
414	17	Wire	Broken, Corroded	7.07	4.57	2.9	0.29	Broken from Both sides
415	17.1	Punch Point	Broken, Corroded	10.49	3.32	2.57	0.26	Pointed tip intact but top broken
416	17.2	Punch Point	Broken, Corroded	8.6	4.65	3.31	0.38	Only top portion remains
417	17.3	Ring	Broken, Corroded	10.92	4.67	2.08	0.56	Both sides broken
418	17.4	Punch Point	Broken, Corroded	10.77	4.49	3.25	0.49	Only tip portion remains
419	17.5	Prill	Broken, Corroded	8.11	4.76	4.34	0.32	Irregular (like a drop)
420	17.6	Ring	Broken, Corroded	7.91	4.35	2.09	0.16	Both ends broken, slightly curvy
421	17.7	Spatula	Broken, Corroded	7.7	5.12	2.94	0.26	Only tip portion remains
422	17.8	Wire	Broken, Corroded	10.57	5.07	2.78	0.38	Irregular in shape with a pointed tip
423	17.9	Prill	Complete, Corroded	5.78	4.99	3.87	0.18	Irregular pointed
424	17.10	Ring	Broken, Corroded	9.16	4.39	1.98	0.24	Both ends broken, Slightly Curved
425	17.11	Ring	Broken, Corroded	9.58	4.08	2.7	0.30	Both ends broken, Slightly Curved
426	17.12	Ring	Broken, Corroded	6	4.6	3.28	0.21	Both ends broken, Slightly Curved
427	17.13	Ring	Broken, Corroded	5.55	3.98	2.04	0.12	Both ends broken, Slightly Curved
428	17.14	Spatula	Broken, Corroded	10.03	4.52	3.02	0.32	Only tip remains
429	17.15	Prill	Broken, Corroded	5.9	3.6	2.93	0.11	Rough Globular in shape
430	17.16	Ring	Broken, Corroded	8.45	4.18	2.48	0.20	Both ends broken, Slightly Curved

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
431	17.17	Ring	Broken, Corroded	6.75	2.21	1.57	0.05	One end broken, Slightly Curved the other end flattened towards tip
432	17.18	Prill	Broken, Corroded	6.65	2.85	1.85	0.10	Irregular, rectangular in shape
433	17.19	Prill	Broken, Corroded	6.1	4.06	2.11	0.11	Irregular in shape
434	17.20	Ring	Broken, Corroded	7.75	3.88	2.25	0.27	Both ends broken, Straight
435	17.21	Ring	Broken, Corroded	6.73	2.65	1.97	0.09	Only tip remains, One end flattened towards tip
436	17.22	Spatula	Broken, Corroded	9.65	3.64	2.21	0.25	Only tip portion remains
437	18	Ring	Broken, Corroded	5.66	2.9	2.64	0.07	Both ends broken, Slightly Curved
438	18.1	Ring	Broken, Corroded	11.82	3.36	2.98	0.38	Both ends broken, Slightly Curved
439	18.2	Ring	Broken, Corroded	6.89	3.06	2.5	0.14	Both ends broken, Slightly Curved the other end flattened towards tip
440	18.3	Ring	Broken, Corroded	6.87	3.22	2.51	0.14	Both ends broken, Slightly Curved
441	18.4	Ring	Broken, Corroded	8.32	2.48	2.33	0.25	Both ends broken, Slightly Curved
442	18.5	Ring	Broken, Corroded	9.52	2.64	1.91	0.17	Both ends broken, Slightly Curved
443	18.6	Ring	Broken, Corroded	6.54	4.24	3.03	0.25	Both ends broken, Slightly Curved

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
444	18.7	Ring	Broken, Corroded	8.79	3.25	1.81	0.19	Both ends broken, Slightly Curved
445	18.8	Ring	Broken, Corroded	9.22	3.04	3.02	0.3	Both ends broken, Slightly Curved
446	18.9	Ring	Broken, Corroded	6.19	4.25	3.55	0.23	Both ends broken, Slightly Curved
447	18.10	Ring	Broken, Corroded	5.9	2.86	2.75	0.09	Both ends broken, Slightly Curved
448	18.11	Ring	Broken, Corroded	10.14	3.66	1.34	0.20	Both ends broken, Slightly Curved
449	18.12	Spatula	Broken, Corroded	9.24	4.14	2.66	0.35	Only tip remains
450	18.13	Ring	Broken, Corroded	9.93	3.24	2.25	0.17	Both ends broken, Slightly Curved
451	18.14	Ring	Broken, Corroded	9.4	3.3	2.56	0.25	Both ends broken, Slightly Curved
452	18.15	Ring	Broken, Corroded	7.44	4.06	2.33	0.17	Both ends broken, Straight
453	18.16	Ring	Broken, Corroded	9.11	3.27	2.89	0.21	Both ends broken, Slightly Curved
454	18.17	Ring	Broken, Corroded	6.79	3.04	2.78	0.19	Both ends broken, SlightlyCurved
455	18.18	Ring	Broken, Corroded	3.93	2.21	1.83	0.06	Both ends broken, Slightly Curved
456	18.19	Ring	Broken, Corroded	11.53	3.01	1.63	0.19	Both ends broken, Straight
457	18.20	Ring	Broken, Corroded	7.29	2.78	2.26	0.11	Both ends broken, Slightly Curved

Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
458	18.21	Ring	Broken, Corroded	3.85	3.03	1.97	0.10	Both ends broken, Slightly Curved
459	18.22	Ring	Broken, Corroded	8.09	3.5	2.06	0.20	Both ends broken, Slightly Curved
460	18.23	Ring	Broken, Corroded	8.31	3.89	2.64	0.21	Both ends broken, Slightly Curved
461	18.24	Ring	Broken, Corroded	13.51	3.33	1.93	0.25	Both ends broken, Slightly Curved
462	18.25	Ring	Broken, Corroded	5.78	3.01	2.34	0.11	Both ends broken, Slightly Curved
463	18.26	Ring	Broken, Corroded	14.6	3.11	2.73	0.36	Both ends broken, Slightly Curved
464	18.27	Wire	Broken, Corroded	6.19	3.73	3.04	0.28	Both ends broken, Straight
465	18.28	Ring	Broken, Corroded	7.58	2.95	2.33	0.24	Both ends broken, Slightly Curved
466	18.29	Ring	Broken, Corroded	2.95	2.7	1.96	0.06	Both ends broken, Slightly Curved
467	18.30	Prill	Broken, Corroded	7.17	3.73	1.67	0.10	Both ends broken, Slightly Curved
468	18.31	Ring	Broken, Corroded	8.78	3.45	2.34	0.20	Both ends broken, Slightly Curved
469	18.32	Ring	Broken, Corroded	6.49	2.44	2.38	0.18	Both ends broken, Slightly Curved
470	18.32.1	Ring	Broken, Corroded	5.61	2.8	2.56	0.11	Both ends broken, Slightly Curved

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Sl. No.	Antiquity No.	Object	Condition	Length in mm	Width in mm	Thickness in mm	Weight in gm	Remarks
471	18.33	Wire	Broken, Corroded	7.92	4.35	2.24	0.30	Both ends broken, Straight
472	18.34	Ring	Broken, Corroded	3.93	3.6	2.23	0.09	Both ends broken, Slightly Curved
473	18.35	Ring	Broken, Corroded	4.16	1.86	1.57	0.05	Both ends broken, Slightly Curved
474	18.36	Ring	Broken, Corroded	5.46	2.59	1.35	0.11	Both ends broken, Slightly Curved
475	18.37	Ring	Broken, Corroded	4.37	2.82	1.74	0.11	Both ends broken, Slightly Curved
476	18.38	Ring	Broken, Corroded	10.91	3.8	2.13	0.40	Both ends broken, Slightly Curved