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**ON THE DENTITION OF DOMESTIC GOAT FROM
PREHISTORIC SITES OF INDIA**

by

S. K. RAY AND P. CHAKRABORTY

**Issued by the Director
Zoological Survey of India, Calcutta**

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ON THE DENTITION OF DOMESTIC GOAT FROM PREHISTORIC SITES OF INDIA

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Zoological Survey of India, Calcutta

INTRODUCTION

There is no comprehensive data on the teeth of Domestic Goat on all the prehistoric sites of India except a few records in the reports of the prehistoric sites. It was therefore thought to study the dentition of domestic goat from the collection of 36 major prehistoric sites of India, present in the Zoological Survey of India of which 20 sites yielded 369 teeth of which some were brittle, broken or in erupting condition. Efforts have been made to give comparative measurements of length, breadth and height of all the good specimens of premolars and molars as well as a comparative data of each region. Most of the material has been excavated by the Archaeological Survey of India and worked out by the Zoological Survey of India.

HISTORICAL ACCOUNTS

The earliest name for the domestic goat is *Capra hircus* Linnaeus, 1758 ; for the present-day wild goat, which still occurs from Pakistan as far west as the Greek Islands, *Capra aegagrus* Erxleben, 1777 is available. The nomenclature of domestic animals is controversial , Corbet (1978) advocates that names based on domestic forms be simply ignored for taxonomic purposes.

According to Zuener (1963), the wild ancestor of the domesticated goat also existed in the late pleistocene and perhaps the early post glacial period of Syria and Palestine and the preneolithic domestica-

tion probably started at the preagricultural phase , as early as 10,000 B.C. (Read, 1969).

Collection of prehistoric remains from the excavated sites of India commence from about 1930 onwards. The majority of the sites were excavated by the Archaeological Survey of India and the collections of animal remains were deposited to the Prehistoric Zoology Section of the Zoological Survey of India. The oldest sites are Harappa and Mohanjodaro (now in Pakistan) and the latest is Sarnath. The main cultural divisions are : Indus valley civilisation, Neolithic, Megalithic and early historic cultures.

SYSTEMATIC ACCOUNTS

Phylum	:	CHORDATA
Sub phylum	:	VERTEBRATA
Class	:	MAMMALIA
Order	:	ARTIODACTYLA
Sub order		RUMINANCIA
Family	:	BOVIDAE
Sub family		BOVINAE
Tribe	:	CAPRINI
Genus	:	<i>Capra</i> Linnaeus
Species		<i>Capra</i> Sp.

DESCRIPTION OF TEETH

In this paper the measurements have been taken from worked out collection of different prehistoric sites by eminent Archaeo-Zoologist they have named *Capra* sp. as *Capra hircus aegagrus* Erxl. However we are mentioning the species as domestic goat (Nath. B. 1968).

Mandibular incisors are eight in number, whitish in colour and arranged in a some what fan like manner, they are simple teeth, short crowned, shovel shaped, and the labial surfaces are strongly convex and end in a sharp edge. Incisors are totally absent in the upper jaw. In the prehistoric material no incisors are represented.

Canines are fully absent. It is generally said that there are four premolars present in each half of each jaw. In the prehistoric skulls present in our collection, it is observed only three are present, the 1st

premolar of the maxillae and mandible are rudimentary and not visible externally. Premolars are smaller and simpler than the molars with which they form a continuous series. In the upper jaw they are not divided into two lobes by an internal cleft, but resemble a single lobe of the true molars with single crescentic island.

In the lower jaw the premolars decrease in size from back to front ; the anterior 2nd premolar usually has a compressed conical cone with a single inner surface, the other two premolars have two deeper notches on the inner side and a small second hinder lobe slightly marked with a vertical depression on the outer side of the crown. All the three premolars have compressed and pointed crowns. The measurements are given in table 1.

The molars are three in number on each side of both jaw. Upper molars differ from lower in their greater length as compared with their breadth. The summit of the crown is always relatively broader than its thickness. The two outer depressions are broad and shallow with a very low middle convexity and are bounded by well defined narrow, prominent, longitudinal ridge. The posterior or third ridge is less developed than the other two. There is no internal accessory column. The vertical crescentic fold of enamel forming the islands are narrow and simple. In the lower true molars the single median longitudinal fold is external and divides convex outer side of the two lobes. The lower molar is more longer than broad. The crescentic islands are narrower and less bowed. There is no accessory small column. The last molar has an additional third posterior lobe.

DESCRIPTION OF THE MATERIAL FROM VARIOUS EXCAVATED SITES

Eastern Sector :- Bharatpur animal remains (chalcolithic and iron age culture 1000 B.C.)

This area is in the Burdwan district of West Bengal. The material represented by 3rd premolar and 4th premolar of lower left 1 ex. of each.

Only two juvenile specimens are present in eastern sector as such

no inference can be drawn. The measurements are given in table no.1.
Western Sector :- Lothal animal remains (Harappan Culture, 2000-1200 B.C.).

Lothal area is situated in the Ahmadabad district of Gujarat. The site has yielded the maximum number of teeth than any other sites of India of which 2 ex. of 2nd premolar of upper right and 1 ex. of upper left, 1 ex. of lower left, 3rd premolar 3 ex. of upper right 1 ex. of upper left and 5 ex. of lower left, 4th premolar 5 ex. of upper right, 1 ex. of upper left, 5 ex. of lower right and 9 ex. of lower left. Similarly 1st molar 7 ex. of upper right, 5 ex. of upper left, 14 ex. of lower right and 17 ex. of lower left. 2nd molar 8 ex. of upper right and upper left, 18 ex. of lower right and 16 ex. of lower left. 3rd molar 6 ex. upper right, 2 ex. of upper left, 10 ex. of lower right and 16 ex. of lower left were examined. The above material have been arranged from 2nd premolar to 3rd molar accordingly

Rangpur animal remains (Harappan culture, 2000-800 B.C.) :-

Rangpur is situated in Ahemadabad district of Gujarat State. The material is represented by 2 ex. of upper right, 1 ex. of lower right of 2nd premolar. 1 ex. of upper and lower right and 2 ex. of lower left of 3rd premolar. 1 ex. of upper and lower right and 4 ex. of lower left of 4th premolar. 2 ex. of upper right and 2 ex. of upper left, 3 ex. of lower right and 6 ex. of lower left of 1st molar. 2 ex. of upper right and 1 ex. of upper left, 1 ex. of lower right and 8 ex. of lower left of 2nd molar. 4 ex. of upper right, 1 ex. of upper left, 4 ex. of lower left of 3rd molar. The actual measurement etc. are given in table no. 1

Brahmagiri (Megalithic culture, 1000 B.C. to 200 A.D.) :-

Brahmagiri is in the district Chitradurga of Mysore. The material is as follows. 3rd premolar and 4th premolar of lower left of 1 ex. of each. 1st molar of lower right and lower left 1 ex. of each. 2nd molar and 3rd molar of lower left having 1 ex. of each. Measurements are given in table no. 1

Maski (Chalcolithic culture, 1000 B.C. to 1st century A.D.) :-

This area is in Raichur district of Mysore. The material comprises

2nd premolar of upper left 1 ex. and lower right 1 ex. 3rd premolar lower right 1 ex. and lower left 2 ex. 4th premolar upper right 1 ex., lower right 3 ex. and lower left 2 ex. 1st molar upper right 1 ex. and upper left 2 ex., lower right 1 ex. and lower left 1 ex. 2nd molar upper right and upper left 2 ex. of each. 3rd molar upper left 1 ex. and lower right 2 ex. Details of measurements are given in table no. 1

Aurangabad :-

This site is situated in Aurangabad district of Maharashtra. The material is meagre represented by 1st molar of upper right 2 ex. and upper left 1 ex. 2nd molar and 3rd molar of lower left containing 1 ex. of each. Details of measurements are given in table no. 1

In the western sector, it is observed that average measurements of premolars of prehistoric domestic goat is little bigger in length, breadth and height than modern domestic goat but the 1st and 2nd molars are slight bigger in length and breadth. 3rd molar is bit smaller in length and breadth.

Central Sector

Rajghat (Early historic, 1200 A.D.) :-

This site is situated in Varanasi district of Uttar Pradesh. The collections comprises 4th premolar of lower right 2 ex., 2nd molar upper left 1 ex. and 3rd molar lower right 1 ex. (table-1).

Sarnath (Early historic 12 Century A.D.) :-

This site is situated in the Varanasi district of Uttar Pradesh and is represented by very little material consisting of 3rd premolar and 4th premolar of lower right 1 ex. of each.

Kausambi (Early historic, 1165 B.C. to 550 A.D.) :-

Kausambi is situated in Allahabad district of Uttar Pradesh and represented by 1 ex. of 2nd molar of upper right only (table-1).

Alamgirpur (Harappan culture, 2500 B.C. to 1500 B.C.) :-

This site is situated in Meerut district of Uttar Pradesh and represented by 1 ex. of 1st molar of lower left side. 2 ex. of 2nd molar of upper right side, 1 ex. of upper left and 1 ex. of lower left. 2 ex. of 3rd molar of lower left side (table-1).

Adamgarh (Rock shelter) :-

Adamgarh site is situated in Hoshangabad district of Madhya Pradesh. The material comprises 1st molar and 2nd molar of lower right 1 ex. of each. 3rd molar of lower left 1 ex. (table-1.).

Ujjain (Chalcolithic culture, 750 B.C. to 1400 A.D.) :-

This site is situated in Chambal valley of Madhya Pradesh. The collection contains 2nd premolar, 3rd premolar, 4th premolar, 1st molar and 2nd molar of lower right side with 1 ex. of each (table-1.).

Nagda (Chalcolithic culture, 1500 B.C. to 200 B.C.) :-

Nagda is situated in Chambal valley of Madhya Pradesh. The material is represented by only 4th premolar, 1st molar, 2nd molar and 3rd molar of lower left side with 1 ex. of each (table-1).

Due to insufficient prehistoric material, the average assessment suggest that 2nd, 3rd, and 4th premolars are comparatively bigger in length and breadth. 1st, 2nd and 3rd molars are slightly bigger than modern specimen.

Northern Sector :

Burzaham (Neolithic, 2500 to 1500 B.C.) :-

Burzaham is situated in Srinagar district of Jammu and Kashmir and comprises the following material. 2nd premolar and 3rd premolar of lower right side 1 ex. of each. 4th premolar of the lower left side 1 ex.

Rupar (Harappan culture, 2000 to 900 B.C.) :-

This site is situated in Ambala district of Hariyana. Material is as follows. 2nd premolar of upper left side 1 ex. 3rd premolar of upper right 1 ex., lower right 2 ex. and lower left 2 ex. 4th premolar of upper right 1 ex., lower right 2 ex and lower left 2 ex. 1st molar of lower right and lower left 1 ex. of each. 2nd molar of lower right 1 ex. 3rd molar of lower right 2 ex. (table-1).

Kalibangan (Harappan culture 2000 B.C.) :-

Kalibangan is in the Sriganganagr district of Rajasthan. Material is represented by 4th premolar of lower right 1 ex. 1st molar of lower left side 1 ex. 2nd molar of upper right 1 ex., upper left 1 ex. and lower

right 2 ex. 3rd molar of lower right and lower left containing 1 ex. of each only (table-1).

Harappa (Indus valley civilization, 2500 to 1500 B.C.) :-

Harappa is situated in the Montgomery district of Punjab now in Pakistan. The material consists of 2nd premolar of upper right and lower right 1 ex. of each. 3rd premolar of upper right and lower right 1 ex. of each. 4th premolar of upper right and lower right 1 ex. of each. 1st molar of upper right 3 ex., upper left 1 ex. and lower right 3 ex. 2nd molar of upper right 4 ex., upper left 1 ex., lower right 2 ex. and lower left 3 ex. 3rd molar of upper right and upper left 1 ex. of each, lower right 2 ex. and lower left 5 ex. (table-1).

Tilakot and Kodan (Neolithic culture) :-

This site is situated in Nepal. The material is represented by 4th premolar and 1st molar of lower right 1 ex. of each. 2nd molar of upper left and lower right 1 ex. of each. 3rd molar of lower right 1 ex. (table-1).

In the northern sector, it is observed that the teeth are comparatively bigger in length, breadth and height than modern domestic goat as compared to other sector the difference is remarkable. The prehistoric largest specimen, the length of teeth are also to some extent larger but in few cases the breadth of teeth are bit larger in modern domestic goat.

Southern Sector :

Keshavapally :- This is situated in the Krishna district of Andhra Pradesh. Only two specimens 2nd molar and 3rd molar of lower right side 1 ex. of each are present in our collection (table-1).

Nagarjunkota (Neolithic culture to 1200 A.D.) :-

This site is situated in the Guntur district of Andhra Pradesh. The collections are represented by 3rd premolar of lower right 5 ex. and lower left 2 ex. 4th premolar of lower right 4 ex. and lower left 3 ex. 1st molar of upper right 1 ex., lower right 3 ex. and lower left 2 ex. 2nd molar of lower right 4 ex. and lower left 1 ex. 3rd molar of upper right 2 ex., upper left 1 ex. and lower right 6 ex.

In Southern sector the prehistoric material are so insufficient and

differences are so variable that it is difficult to draw a distinction between prehistoric and modern domestic goat.

DISCUSSION

The authors have arranged the sites in the Sectorial divisions of the five prehistoric zone, namely 1) Eastern zone consisting of Bharatpur in West Bengal only, 2) Western zone comprising Lothal & Rangpur in Gujarat, Brahmagiri & Maski in Mysore, Aurangabad in Maharashtra; 3) Central zone covering the whole U.P. and M.P. i.e. Saranath, Rajghat, Kausambi and Alamgirpur in U.P., Adamgarh, Ujjain and Nagda in M.P., 4) Northern zone includes Burzeham in Jammu and Kashmir, Rupar in Hariyana, Kalibangan in Rajasthan; 5) Southern zone takes only Keshavapally and Nagarjunkonda in Andhra Pradesh. Beside the above, the sites of Harappa in Pakistan and Tilarokot & kodan in Nepal are also added to the Northern zone.

The teeth from the prehistoric remains present in our collection show that the specimens of Northern zone are largest, in the average measurements of length, breadth and height (Table no-2). The specimens of other four zones are so insufficient in number that it is difficult to produce a final opinion on the serial gradation. It may be inferred that the goats of northern zone were more developed and larger in size than those of other zones (Table no-3).

A comparison of the measurements of teeth of prehistoric goats with that of recent domestic goat (Table no.-4). The prehistoric goat had larger teeth probably due to the larger size and enough vegetation of soft grass and leaves for their food. Which was precisely abundant during that period. The recent domestic goat due to long period of time and consequent to environmental change causes the change of food habit for which the teeth become smaller in size, in some instance the breadth of the teeth increased as leaves and grasses were not available in plenty as was in past so they had to adopt for harden twigs and branches which requires more mastication. The continuous pressure of the jaw on the parallel teeth cusps have caused the broadening of the teeth.

CONCLUSION

The authors have tried to give a complete picture of the various teeth measurements of domestic goats in a comparative chart available in different prehistoric sites. The authors have also tried to highlight the differences between specimens on zonal and site basis. The differences observed are of a minor nature which is to be expected on the meagre time lapse of at most 5000 years. Added to this the custom of slaughtering goats in the age group of 2-3 years has also prevented further differentiation. It is hoped that this work will give assistance to the future worker as a ready reference as far as the dentition is concerned.

SUMMARY

This paper deals with comprehensive data of 369 teeth of prehistoric domestic goat from India. Material from the twenty sites out of thirty six excavated prehistoric sites of the India subcontinent is present in the Zoological Survey of India. The comparative measurements have been divided into five prehistoric zones namely Eastern, Western, Central, Northern and Southern belt. Which reveals the serial gradation of teeth sizes. A comparative chart with the modern goats may assist future workers as a ready reference.

ABBREVIATION

The following abbreviations have been used in the tables : Bharatpur=BRP, Lothal=SRG, Rangpur=RGP, Brahmagiri=BR, Maski=MSK, Aurangabad=DMD, Kausambi=KSB, Sarnath=SRN, Rajghat=RGT, Alamgirpur=AGR, Adamgarh=ADG, Ujjain=UJN, Nagda=NGD, Burzaham=BZH, Rupar=RPR, Kalibangan=KLB, Keshavapally=KSP, Nagarjunkonda=NGK, Harappa=HP, Tilarokot and Kodan=TLK.

R/C=Root to Crown distance, C/A=Crown to alveolar distance (Where root portion of the teeth was not available for measurement).
'—'=Broken part, where measurement was not possible.

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Table—1

MEASUREMENT OF TEETH OF DOMESTIC GOAT

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Eastern Sector : Bharatpur

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
BRP-1	3rd Premolar lower left	9.00 mm	4.50 mm	C/A 7.10 mm
BRP-1	3rd Premolar lower left	15.70 mm	5.00 mm	C/A 7.20 mm

Western Sector : Lothal, Rangpur, Bramhagiri, Maski and Aurangabada

SRG-2	2nd Premolar upper right	8.90 mm	7.50 mm	C/A 10.00 mm
SRG-54	2nd Premolar upper right	7.50 mm	6.50 mm	C/A 10.90 mm
RGP-5	2nd Premolar upper right	9.70 mm	5.80 mm	C/A 9.00 mm
RGP-5	2nd Premolar upper right	9.70 mm	5.80 mm	C/A 9.00 mm
SRG-2	2nd Premolar upper left	9.90 mm	7.50 mm	C/A 10.00 mm
MSK-10	2nd Premolar upper left	8.35 mm	8.40 mm	—
RGP-2	2nd Premolar lower right	8.00 mm	8.20 mm	—
MSK-10	2nd Premolar lower right	8.05 mm	4.50 mm	C/A 8.70 mm
SRG-2	2nd Premolar lower left	7.50 mm	4.80 mm	C/A 11.50 mm
SRG-2	3rd Premolar upper right	8.30 mm	6.80 mm	C/A 12.30 mm
SRG-2	3rd Premolar upper right	9.10 mm	7.90 mm	C/A 12.50 mm
SRG-54	3rd Premolar upper right	9.40 mm	9.20 mm	C/A 11-30 mm
RGP-5	3rd Premolar upper right	10.60 mm	8.15 mm	C/A 9.30 mm
SRG-2	3rd Premolar upper left	9.40 mm	8.30 mm	C/A 11.60 mm
MSK-10	3rd Premolar lower right	9.10 mm	4.50 mm	C/A 7.00 mm
RGP-2	3rd Premolar lower right	6.25 mm	5.35 mm	C/A 7.00 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
SRG-6	3rd Premolar lower left	7.70 mm	6.00 mm	C/A 10.20 mm
SRG-2	3rd Premolar lower left	9.60 mm	5.10 mm	C/A 11.90 mm
SRG-2	3rd Premolar lower left	6.40 mm	4.10 mm	C/A 7.30 mm
SRG-2	3rd Premolar lower left	8.30 mm	8.00 mm	R/C 19.30 mm
SRG-2	3rd Premolar lower left	6.90 mm	5.70 mm	—
MSK-10	3rd Premolar lower left	8.20 mm	4.20 mm	—
MSK-10	3rd Premolar lower left	8.25 mm	4.50 mm	—
RSP-2	3rd Premolar lower left	12.75 mm	6.95 mm	C/A 9.00 mm
RSP-2	5rd Premolar lower left	9.30 mm	4.80 mm	C/A 13.00 mm
BR-18	3rd Premolar lower left	9.00 mm	4.00 mm	C/A 11.00 mm
MSK-10	3rd Premolar lower right	9.00 mm	4.20 mm	—
SRG-2	4th Premolar upper right	11.50 mm	9.20 mm	C/A 9.50 mm
SRG-54	4th Premolar upper right	10.00 mm	9.00 mm	C/A 11.0 mm
SRG-2	4th Premolar upper right	9.00 mm	7.30 mm	C/A 13.65 mm
SRG-54	4th Premolar upper right	9.50 mm	8.20 mm	C/A 12.70 mm
RGP-5	4th Premolar upper right	11.20 mm	9.10 mm	C/A 11.55 mm
SRG-2	4th Premolar upper right	12.80 mm	10.70 mm	R/C 23.10 mm
SRG-2	4th Premolar upper left	9.90 mm	8.80 mm	C/A 12.80 mm
SRG-2	4th Premolar lower right	18.00 mm	6.80 mm	C/A 11.10 mm
SRG-2	4th Premolar lower right	16.20 mm	6.00 mm	C/A 8.40 mm
SRG-1	4th Premolar lower right	12.90 mm	6.00 mm	C/A 11.10 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Pcst.	Max. width Lab./Ling.	Max. height Crown/Root
SRG-2	4th Premolar lower right	9.80 mm	6.00 mm	C/A 10.10 mm
SRG-2	4th Premolar lower right	10.70 mm	7.20 mm	C/A 8.20 mm
RGP-2	4th Premolar lower right	3.50 mm	5.00 mm	C/A 6.05 mm
MSK-10	4th Premolar lower right	16.00 mm	5.60 mm	—
MSK-10	4th Premolar lower right	16.50 mm	5.50 mm	—
MSK-9	4th Premolar lower right	15.90 mm	5.85 mm	—
MSK-10	4th Premolar lower left	10.50 mm	6.40 mm	—
MSK-9	4th Premolar lower left	15.95 mm	5.85 mm	—
BR-18	4th Premolar lower left	10.50 mm	6.50 mm	C/A 10.50 mm
SRG-2	4th Premolar lower left	8.00 mm	5.60 mm	C/A 8.50 mm
SRG-2	4th Premolar lower left	6.70 mm	6.00 mm	C/A 9.00 mm
SRG-2	4th Premolar lower left	8.35 mm	8.70 mm	C/A 24.35 mm
SRG-2	4th Premolar lower left	10.50 mm	9.20 mm	C/A 11.70 mm
SRG-2	4th Premolar lower left	11.30 mm	7.00 mm	—
SRG-2	4th Premolar lower left	12.20 mm	6.30 mm	C/A 12.30 mm
SRG-2	4th Premolar lower left	10.90 mm	5.80 mm	C/A 12.30 mm
SRG-6	4th Premolar lower left	9.40 mm	7.40 mm	C/A 13.10 mm
SRG-1	4th Premolar lower left	10.30 mm	6.00 mm	C/A 9.30 mm
RGP-2	4th Premolar lower left	13.20 mm	7.60 mm	C/A 10.50 mm
RGP-5	4th Premolar lower left	11.00 mm	6.15 mm	C/A 7.70 mm
RGP-5	4th Premolar lower left	10.80 mm	6.05 mm	C/A 11.15 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
RGP-4	4th Premolar lower left	8.00 mm	5.65 mm	C/A 9.30 mm
SRG-2	1st Molar upper right	13.20 mm	10.20 mm	C/A 14.30 mm
SRG-2	1st Molar upper right	16.80 mm	9.30 mm	R/C 38.60 mm
SRG-2	1st Molar upper right	15.40 mm	9.50 mm	C/A 8.60 mm
SRG-54	1st Molar upper right	12.30 mm	11.30 mm	C/A 14.20 mm
SRG-2	1st Molar upper right	12.70 mm	7.10 mm	R/C 33.20 mm
SRG-2	1st Molar upper right	11.50 mm	11.80 mm	C/A 11.80 mm
SRG-2	1st Molar upper right	15.00 mm	10.10 mm	R/C 32.20 mm
RGP-5	1st Molar upper right	9.70 mm	5.80 mm	C/A 9.00 mm
RGP-5	1st Molar upper right	17.30 mm	9.40 mm	C/A 13.50 mm
MSK-9	1st Molar upper right	13.10 mm	8.75 mm	—
DMD-2	1st Molar upper right	16.30 mm	9.50 mm	R/C 40.30 mm
DMD-1	1st Molar upper right	15.00 mm	9.20 mm	R/C 29.70 mm
DMD-1	1st Molar upper left	16.00 mm	9.50 mm	R/C 27.80 mm
MSK-9	1st Molar upper left	13.30 mm	8.65 mm	—
MSK-10	1st Molar upper left	11.50 mm	9.00 mm	—
RGP-2	1st Molar upper left	17.00 mm	9.40 mm	C/A 13.50 mm
RGP-2	1st Molar upper left	11.56 mm	10.70 mm	C/A 12.50 mm
SRG-2	1st Molar upper left	14.50 mm	10.70 mm	C/A 13.00 mm
SRG-2	1st Molar upper left	15.60 mm	10.20 mm	R/C 33.70 mm
SRG-2	1st Molar upper left	12.80 mm	8.10 mm	—

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max width Lab./Ling.	Max. height Crown/Root
SRG-2	1st Molar upper left	16.10 mm	10.20 mm	R/C 40.20 mm
SRG-2	1st Molar upper left	15.60 mm	9.00 mm	R/C 30.50 mm
SRG-2	1st Molar lower right	16.00 mm	8.60 mm	C/A 9.20 mm
SRG-3	1st Molar lower right	12.20 mm	6.70 mm	C/A 8.40 mm(J)
SRG-2	1st Molar lower right	14.00 mm	6.60 mm	R/C 31.50 mm
SRG-2	1st Molar lower right	11.30 mm	7.40 mm	C/A 8.50 mm
SRG-2	1st Molar lower right	12.70 mm	6.85 mm	C/A 7.40 mm
SRG-2	1st Molar lower right	10.60 mm	6.70 mm	C/A 10.30 mm
SRG-2	1st Molar lower right	13.40 mm	9.40 mm	R/C 39.60 mm
SRG-2	1st Molar lower right	11.80 mm	6.65 mm	R/C 25.00 mm
SRG-2	1st Molar lower right	11.90 mm	6.20 mm	C/A 12.10 mm
SRG-1	1st Molar lower right	13.10 mm	7.50 mm	C/A 12.20 mm
SRG-2	1st Molar lower right	15.70 mm	6.20 mm	C/A 7.70 mm
SRG-2	1st Molar lower right	16.00 mm	6.70 mm	C/A 9.50 mm
SRG-2	1st Molar lower right	11.40 mm	8.30 mm	R/C 21.60 mm
SRG-2	1st Molar lower right	12.00 mm	7.00 mm	R/C 26.00 mm
RGP-2	1st Molar lower right	12.35 mm	7.35 mm	C/A 8.75 mm
RGP-2	1st Molar lower right	13.00 mm	7.15 mm	C/A 7.90 mm
RGP-5	1st Molar lower right	15.30 mm	8.60 mm	C/A 28.85 mm
MSK-9	1st Molar lower right	14.90 mm	5.20 mm	—

Table—1 (Contd.)

Site	Material	Max. length	Max. width	Max. height
		Ant./Post.	Lab./Ling.	Crown/Root
BR-6	1st Molar lower right	3.60 mm	6.30 mm	—(J)
SRG-1	1st Molar lower left	11.50 mm	7.65 mm	—
SRG-1	1st Molar lower left	11.10 mm	7.50 mm	C/A 9.10 mm
SRG-12	1st Molar lower left	14.50 mm	6.80 mm	C/A 9.20 mm
SRG-2	1st Molar lower left	14.80 mm	7.80 mm	C/A 11.10 mm
SRG-6	1st Molar lower left	9.90 mm	7.90 mm	C/A 13.00 mm
SRG-5	1st Molar lower left	16.10 mm	7.00 mm	—
SRG-2	1st Molar lower left	13.90 mm	8.20 mm	C/A 11.30 mm
SRG-2	1st Molar lower left	11.30 mm	7.20 mm	C/A 8.60 mm
SRG-54	1st Molar lower left	13.00 mm	4.50 mm	C/A 6.80 mm (J)
SRG-2	1st Molar lower left	6.80 mm	7.70 mm	C/A 10.50 mm
SRG-2	1st Molar lower left	10.10 mm	6.30 mm	C/A 7.30 mm
SRG-1	1st Molar lower left	13.50 mm	6.60 mm	C/A 10.60 mm
SRG-2	1st Molar lower left	14.70 mm	6.40 mm	C/A 10.50 mm
SRG-2	1st Molar lower left	10.80 mm	7.20 mm	C/A 11.50 mm
SRG-2	1st Molar lower left	12.00 mm	8.00 mm	C/A 12.60 mm
SRG-2	1st Molar lower left	11.30 mm	7.00 mm	—
SRG-2	1st Molar lower left	12.00 mm	7.30 mm	C/A 7.70 mm
RGP-2	1st Molar lower left	14.40 mm	7.55 mm	C/A 13.95 mm
RGP-5	1st Molar lower left	14.00 mm	7.70 mm	C/A 12.05 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max width Lab./Ling.	Max. height Crown/Root
RGP-2	1st Molar lower left	16.70 mm	7.75 mm	C/A 13.10 mm
RGP-2	1st Molar lower left	11.00 mm	7.30 mm	—
RGP-2	1st Molar lower left	11.80 mm	7.75 mm	C/A 13.10 mm
RGP-4	1st Molar lower left	6.60 mm	6.75 mm	R/C 24.65 mm
MSK-9	1st Molar lower left	14.90 mm	5.20 mm	—
BR-18	1st Molar lower left	13.00 mm	27.90 mm	C/A 11.00 mm
SRG-2	2nd Molar lower right	18.00 mm	10.90 mm	R/C 40.40 mm
SRG-2	2nd Molar lower right	16.00 mm	12.05 mm	C/A 10.20 mm
SRG-2	2nd Molar lower right	17.70 mm	10.30 mm	R/C 34.00 mm
SRG-2	2nd Molar lower right	17.80 mm	10.80 mm	R/C 37.00 mm
SRG-2	2nd Molar lower right	16.00 mm	7.00 mm	C/A 5.50 mm
SRG-1	2nd Molar lower right	16.50 mm	9.10 mm	R/C 31.60 mm
SRG-2	2nd Molar lower right	15.90 mm	10.00 mm	C/A 11.00 mm
SRG-2	2nd Molar lower right	17.10 mm	11.00 mm	R/C 39.20 mm
RGP-5	2nd Molar lower right	16.00 mm	10.30 mm	C/A 12.75 mm
RGP-5	2nd Molar lower right	10.60 mm	8.15 mm	C/A 9.00 mm
MSK-9	2nd Molar lower right	15.30 mm	6.40 mm	C/A 15.40 mm
MSK-10	2nd Molar lower right	13.20 mm	10.80 mm	—
RGP-2	2nd Molar upper left	13.90 mm	11.00 mm	C/A 12.05 mm
MSK-9	2nd Molar upper left	15.30 mm	6.35 mm	C/A 15.65 mm
MSK-9	2nd Molar upper left	11.50 mm	7.80 mm	—

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
SRG-2	2nd Molar upper left	17.10 mm	10.00 mm	R/C 35.20 mm
SRG-2	2nd Molar upper left	18.00 mm	11.00 mm	R/C 39.10 mm
SRG-2	2nd Molar upper left	16.30 mm	10.70 mm	R/C 36.50 mm
SRG-2	2nd Molar upper left	16.00 mm	10.50 mm	R/C 36.75 mm
SRG-2	2nd Molar upper left	16.40 mm	10.70 mm	R/C 36.40 mm
SRG-2	2nd Molar upper left	15.40 mm	10.90 mm	—
SRG-2	2nd Molar upper left	16.40 mm	11.70 mm	R/C 31.60 mm
SRG-2	2nd Molar upper left	16.30 mm	11.90 mm	R/C 37.25 mm
SRG-2	2nd Molar lower right	14.20 mm	8.50 mm	C/A 10.10 mm
SRG-2	2nd Molar lower right	14.20 mm	8.20 mm	C/A 11.30 mm
SRG-2	2nd Molar lower right	15.20 mm	7.70 mm	R/C 41.50 mm
SRG-2	2nd Molar lower right	15.20 mm	7.30 mm	R/C 35.40 mm
SRG-54	2nd Molar lower right	14.70 mm	7.00 mm	C/A 10.20 mm
SRG-2	2nd Molar lower right	14.20 mm	7.80 mm	C/A 10.30 mm
SRG-1	2nd Molar lower right	16.90 mm	7.60 mm	C/A 9.50 mm
SRG-1	2nd Molar lower right	16.30 mm	7.30 mm	R/C 36.60 mm
SRG-54	2nd Molar lower right	14.20 mm	12.90 mm	C/A 11.20 mm
SRG-2	2nd Molar lower right	13.30 mm	7.50 mm	R/C 35.20 mm
SRG-54	2nd Molar lower right	13.50 mm	6.90 mm	C/A 8.00 mm
SRG-1	2nd Molar lower right	16.70 mm	7.70 mm	C/A 12.10 mm
SRG-2	2nd Molar lower right	15.90 mm	8.20 mm	C/A 13.40 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
SRG-1	2nd Molar lower right	14.00 mm	7.80 mm	C/A 11.70 mm
SRG-2	2nd Molar lower right	13.80 mm	6.90 mm	C/A 9.60 mm
SRG-2	2nd Molar lower right	15.20 mm	7.80 mm	C/A 35.20 mm
SRG-2	2nd Molar lower left	15.50 mm	8.50 mm	C/A 9.90 mm
SRG-2	2nd Molar lower left	17.00 mm	7.50 mm	C/A 15.70 mm
RGP-2	2nd Molar lower left	16.70 mm	—	C/A 18.30 mm
SRG-2	2nd Molar lower left	15.30 mm	8.00 mm	R/C 39.70 mm
SRG-2	2nd Molar lower left	15.40 mm	8.60 mm	C/A 13.00 mm
SRG-2	2nd Molar lower left	15.90 mm	6.60 mm	C/A 39.00 mm
SRG-2	2nd Molar lower left	14.20 mm	8.10 mm	C/A 9.60 mm
SRG-2	2nd Molar lower left	14.80 mm	8.50 mm	C/A 11.50 mm
SRG-2	2nd Molar lower left	14.30 mm	8.30 mm	C/A 13.50 mm
SRG-1	2nd Molar lower left	16.40 mm	5.40 mm	C/A 10.10 mm
SRG-2	2nd Molar lower left	18.20 mm	5.80 mm	R/C 8.80 mm
SRG-2	2nd Molar lower left	14.00 mm	7.60 mm	R/C 9.10 mm
SRG-2	2nd Molar lower left	16.80 mm	7.05 mm	C/A 37.30 mm
SRG-3	2nd Molar lower left	14.60 mm	8.10 mm	C/A 37.00 mm
SRG-6	2nd Molar lower left	16.40 mm	8.00 mm	C/A 12.00 mm
SRG-2	2nd Molar lower left	15.00 mm	7.70 mm	R/C 10.40 mm
SRG-1	2nd Molar lower left	12.30 mm	8.30 mm	C/A 10.20 mm
SRG-1	2nd Molar lower left	16.35 mm	8.00 mm	C/A 33.10 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
SRG-2	2nd Molar lower left	14.50 mm	8.30 mm	C/A 11.70 mm
RGP-1	2nd Molar lower left	13.35 mm	7.60 mm	C/A 18.30 mm
RGP-5	2nd Molar lower left	17.20 mm	7.85 mm	R/C 38.40 mm
RGP-5	2nd Molar lower left	14.05 mm	7.35 mm	R/C 34.00 mm
RGP-2	2nd Molar lower left	17.20 mm	6.05 mm	C/A 8.00 mm
RGP-2	2nd Molar lower left	15.00 mm	7.95 mm	C/A 9.05 mm
RGP-2	2nd Molar lower left	15.00 mm	7.30 mm	C/A 9.50 mm
RGP-2	2nd Molar lower left	17.80 mm	7.55 mm	C/A 12.90 mm
RGP-2	2nd Molar lower left	15.00 mm	7.35 mm	R/C 34.20 mm
BR-18	2nd Molar lower left	17.70 mm	8.50 mm	C/A 12.50 mm
DMD-2	2nd Molar lower left	17.10 mm	7.00 mm	R/C 36.90 mm
SRG-54	3rd Molar upper right	17.80 mm	11.30 mm	C/A 10.10 mm
SRG-2	3rd Molar upper right	17.30 mm	8.10 mm	R/C 36.60 mm
SRG-2	3rd Molar upper right	15.80 mm	11.10 mm	R/C 40.00 mm
SRG-2	3rd Molar upper right	16.50 mm	8.20 mm	R/C 39.80 mm
SRG-2	3rd Molar upper right	16.40 mm	9.30 mm	R/C 38.20 mm
SRG-2	3rd Molar upper right	16.00 mm	9.70 mm	R/C 37.70 mm
RGP-5	3rd Molar upper right	11.20 mm	9.10 mm	R/C 11.55 mm
RGP-5	3rd Molar upper right	14.00 mm	8.90 mm	C/A 40.50 mm
RGP-2	3rd Molar upper right	17.50 mm	11.20 mm	—
RGP-5	3rd Molar upper right	17.20 mm	9.40 mm	R/C 42.20 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
RGP-2	3rd Molar upper left	17.75 mm	11.35 mm	C/A 7.35 mm
MSK-10	3rd Molar upper left	15.00 mm	7.25 mm	C/A 11.75 mm
SRG-3	3rd Molar upper left	18.00 mm	11.30 mm	R/C 36.80 mm
SRG-2	3rd Molar upper left	16.40 mm	11.00 mm	—
SRG-2	3rd Molar lower right	22.00 mm	9.00 mm	C/A 8.30 mm
SRG-24	3rd Molar lower right	15.70 mm	5.50 mm	C/A 7.60 mm
SRG-2	3rd Molar lower right	19.10 mm	6.60 mm	R/C 32.20 mm
SRG-2	3rd Molar lower right	18.40 mm	8.56 mm	C/A 10.30 mm
SRG-54	3rd Molar lower right	13.20 mm	5.50 mm	C/A 5.80 mm(J)
SRG-3	3rd Molar lower right	20.60 mm	7.60 mm	R/C 27.50 mm
SRG-3	3rd Molar lower right	20.00 mm	6.30 mm	R/C 44.20 mm
SRG-2	3rd Molar lower right	15.10 mm	5.70 mm	C/A 6.30 mm
SRG-2	3rd Molar lower right	21.70 mm	8.30 mm	C/A 10.00 mm
SRG-54	3rd Molar lower right	22.25 mm	8.90 mm	C/A 9.00 mm
MSK-9	3rd Molar lower right	15.90 mm	5.85 mm	—
BR-18	3rd Molar lower left	20.40 mm	7.50 mm	C/A 8.90 mm
DMD-2	3rd Molar lower left	17.00 mm	7.00 mm	R/C 37.00 mm
SRG-54	3rd Molar lower left	22.30 mm	7.90 mm	R/C 41.30 mm
SRG-2	3rd Molar lower left	18.90 mm	8.00 mm	R/C 41.40 mm
SRG-2	3rd Molar lower left	22.30 mm	7.20 mm	C/A 11.20 mm
SRG-2	3rd Molar lower left	19.00 mm	7.20 mm	C/A 7.50 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
SRG-3	3rd Molar lower left	22.00 mm	8.00 mm	C/A 10.50 mm
SRG-2	3rd Molar lower left	18.50 mm	7.10 mm	R/C 40.50 mm
SRG-2	3rd Molar lower left	20.10 mm	7.60 mm	R/C 32.00 mm
SRG-3	3rd Molar lower left	21.70 mm	7.10 mm	R/C 42.80 mm
SRG-2	3rd Molar lower left	19.20 mm	6.80 mm	C/A 7.70 mm
SRG-2	3rd Molar lower left	19.50 mm	6.10 mm	R/C 39.20 mm
SRG-2	3rd Molar lower left	22.00 mm	8.50 mm	R/C 40.40 mm
SRG-3	3rd Molar lower left	16.00 mm	7.30 mm	R/C 35.40 mm
SRG-2	3rd Molar lower left	22.30 mm	—	R/C 31.60 mm
SRG-2	3rd Molar lower left	21.50 mm	7.40 mm	R/C 37.70 mm
SRG-6	3rd Molar lower left	20.60 mm	6.70 mm	C/A 8.80 mm
SRG-2	3rd Molar lower left	20.00 mm	8.60 mm	C/A 12.75 mm
RGP-5	3rd Molar lower left	10.80 mm	6.05 mm	C/A 11.15 mm
RGP-5	3rd Molar lower left	17.65 mm	6.70 mm	C/A 8.00 mm
RGP-5	3rd Molar lower left	18.65 mm	6.35 mm	C/A 6.05 mm
RGP-2	3rd Molar lower left	20.30 mm	7.75 mm	C/A 11.75 mm
CENTRAL SECTOR :—SARNATH, RAJGHAT, KAUSHAMBI, ALAMGIRPUR, ADAMGARH, UJJAIN, & NAGDA				
UJN.	2nd Premolar lower right	8.00 mm	8.20 mm	C/A 10.00 mm
UJN.	3rd Premolar lower right	8.30 mm	4.90 mm	C/A 9.10 mm
SRN-246	3rd Premolar lower right	8.40 mm	4.80 mm	C/A 4.50 mm

Table—1 (Contd.)

Site	Material	Max. length	Max. width	Max. height
		Ant./Post.	Lab./Ling.	Crown/Root
RGT-14	4th Premolar lower right	11.40 mm	6.20 mm	C/A 6.20 mm
RGT-2	4th Premolar lower right	11.40 mm	6.20 mm	C/A 6.20 mm
SRN-246	4th Premolar lower right	10.30 mm	5.80 mm	C/A 5.00 mm
UJN.	4th Premolar lower right	9.00 mm	10.50 mm	C/A 10.00 mm
NGD-19	4th Premolar lower left	7.50 mm	6.50 mm	C/A 8.70 mm
ADG-10	1st Molar lower right	20.60 mm	10.10 mm	R/C 32.70 mm
UJN.	1st Molar lower right	12.40 mm	12.10 mm	C/A 11.40 mm
NGD-19	1st Molar lower left	8.30 mm	7.20 mm	C/A 9.50 mm
AGR-1	1st Molar lower left	10.70 mm	8.10 mm	C/A 11.15 mm
AGR-1	2nd Molar upper right	16.55 mm	11.75 mm	R/C 35.45 mm
AGR-1	2nd Molar upper right	17.10 mm	13.15 mm	R/C 33.20 mm
KSB.	2nd Molar upper right	17.90 mm	11.50 mm	R/C 37.80 mm
AGR-1	2nd Molar upper left	18.50 mm	10.65 mm	R/C 42.50 mm
RGT-14	2nd Molar upper left	17.30 mm	11.60 mm	R/C 30.30 mm
ADG-10	2nd Molar lower right	22.50 mm	10.45 mm	—
UJN.	2nd Molar lower right	18.00 mm	12.90 mm	C/A 12.50 mm
NGD-19	2nd Molar lower left	9.30 mm	8.70 mm	C/A 10.00 mm
AGR-1	2nd Molar lower left	14.65 mm	8.60 mm	C/A 12.65 mm
RGT-12	3rd Molar lower right	21.00 mm	8.30 mm	R/C 46.00 mm
SRN-246	3rd Molar lower right	21.50 mm	7.50 mm	C/A 9.20 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
NGD-19	3rd Molar lower left	20.20 mm	8.10 mm	C/A 7.50 mm
AGR-1	3rd Molar lower left	21.80 mm	9.50 mm	R/C 43.30 mm
AGR-1	3rd Molar lower left	22.60 mm	8.85 mm	C/A 11.90 mm
ADG-10	3rd Molar lower left	24.25 mm	10.50 mm	—
NORTHERN ZONE :—Burzaham, Rupar, Kalibangan, Harappa, Tilarokot & Kodan.				
HP-501	2nd Premolar upper right	8.60 mm	—	C/A 10.05 mm
RPR-1	2nd Premolar upper left	8.30 mm	8.20 mm	C/A 10.30 mm
HP-30	2nd Premolar lower right	6.80 mm	5.15 mm	C/A 11.58 mm
BZH-3	2nd Premolar lower right	6.60 mm	8.60 mm	C/A 6.30 mm
RPR-1	3rd Premolar upper right	10.00 mm	9.20 mm	C/A 12.30 mm
HP-501	3rd Premolar upper right	9.50 mm	7.75 mm	C/A 22.20 mm
RPR-7	3rd Premolar lower right	8.60 mm	4.80 mm	C/A 9.50 mm
RPR-1	3rd Premolar lower right	8.70 mm	4.80 mm	C/A 10.00 mm
HP-30	3rd Premolar lower right	9.00 mm	6.62 mm	C/A 18.30 mm
BZH-3	3rd Premolar lower right	9.50 mm	5.50 mm	C/A 8.50 mm
RPR-25	3rd Premolar lower left	8.65 mm	6.00 mm	C/A 8.30 mm
RPR-2	3rd Premolar lower left	11.50 mm	5.00 mm	C/A 7.20 mm
RPR-1	4th Premolar upper right	10.60 mm	10.20 mm	C/A 13.50 mm
HP-501	4th Premolar upper right	10.85 mm	9.50 mm	C/A 17.60 mm
RPR-7	4th Premolar lower right	11.30 mm	6.30 mm	C/A 10.40 mm
RPR-1	4th Premolar lower right	11.00 mm	6.00 mm	C/A 13.50 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max width Lab./Ling.	Max. height Crown/Root
HP-30	4th Premolar lower right	11.00 mm	6.75 mm	C/A 14.50 mm
TLK-1	4th Premolar lower right	12.20 mm	8.00 mm	C/A 11.30 mm
KLB-1	4th Premolar lower right	11.90 mm	6.20 mm	C/A 11.40 mm
RPR-25	4th Premolar lower left	9.20 mm	6.60 mm	C/A 8.70 mm
RPR-2	4th Premolar lower left	16.50 mm	7.00 mm	C/A 8.90 mm
BZH-3	4th Premolar lower left	19.00 mm	6.16 mm	C/A 9.90 mm
HP-502	1st Molar upper right	10.60 mm	10.25 mm	R/C 36.90 mm
HP-954	1st Molar upper right	12.50 mm	14.35 mm	—
HP-501	1st Molar upper right	16.62 mm	11.50 mm	C/A 15.00 mm
HP-954	1st Molar upper left	12.56 mm	14.58 mm	—
RPR-7	1st Molar lower right	14.30 mm	7.70 mm	C/A 11.70 mm
HP-501	1st Molar lower right	13.29 mm	7.45 mm	C/A 26.12 mm
HP-30	1st Molar lower right	11.50 mm	8.20 mm	C/A 15.00 mm
TLK-1	1st Molar lower right	11.35 mm	8.34 mm	C/A 11.00 mm
HP-507	1st Molar lower right	14.20 mm	8.30 mm	R/C 33.35 mm
RPR-2	1st Molar lower left	15.80 mm	8.70 mm	C/A 14.60 mm
KLB-1	1st Molar lower left	12.50 mm	7.30 mm	C/A 12.50 mm
HP-502	2nd Molar upper right	18.85 mm	11.76 mm	R/C 11.30 mm
HP-502	2nd Molar upper right	13.76 mm	10.36 mm	R/C 31.80 mm
HP-502	2nd Molar upper right	18.05 mm	12.25 mm	C/A 14.35 mm
HP-954	2nd Molar upper right	18.40 mm	14.40 mm	C/A —

Table—1 (Contd.)

Site	Material	Max. length	Max. width	Max. height
		Ant./Post.	Lab./Ling.	Crown/Root
KLB-2	2nd Molar upper right	17.90 mm	7.80 mm	R/C 34.70 mm
TLK-1	2nd Molar upper left	17.90 mm	9.00 mm	R/C 41.50 mm
HP-954	2nd Molar upper left	18.40 mm	14.40 mm	—
KLB-2	2nd Molar upper left	18.00 mm	8.40 mm	R/C 40.30 mm
RPR-1	2nd Molar lower right	16.00 mm	8.10 mm	C/A 11.40 mm
HP-30	2nd Molar lower right	15.00 mm	8.40 mm	C/A 16.85 mm
HP-507	2nd Molar lower right	17.30 mm	8.35 mm	C/A 18.00 mm
TLK-1	2nd Molar lower right	15.80 mm	9.60 mm	C/A 11.40 mm
KLB-1	2nd Molar lower right	15.00 mm	8.30 mm	C/A 14.20 mm
KLB-2	2nd Molar lower right	17.00 mm	9.30 mm	R/C 34.20 mm
HP-502	2nd Molar lower left	15.00 mm	7.70 mm	R/C 34.75 mm
HP-507	2nd Molar lower left	17.50 mm	8.60 mm	C/A 15.15 mm
HP-502	2nd Molar lower left	14.84 mm	9.45 mm	C/A 9.85 mm
HP-501	3rd Molar upper right	21.50 mm	—	—
HP-501	3rd Molar upper left	23.14 mm	12.16 mm	R/C 46.12 mm
HP-30	3rd Molar lower right	25.00 mm	9.20 mm	C/A 15.00 mm
HP-507	3rd Molar lower right	19.80 mm	6.70 mm	C/A 14.50 mm
RPR-1	3rd Molar lower right	18.15 mm	7.60 mm	R/C 39.90 mm
RPR-1	3rd Molar lower right	20.05 mm	7.30 mm	A/C 10.70 mm
KLB-1	3rd Molar lower right	20.00 mm	9.00 mm	R/C 42.50 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
TLK-1	3rd Molar lower right	20.70 mm	8.60 mm	C/A 10.30 mm
HP-502	3rd Molar lower left	10.20 mm	8.65 mm	C/A 10.20 mm
HP-954	3rd Molar lower left	27.56 mm	9.50 mm	R/C 44.65 mm
HP-502	3rd Molar lower left	21.50 mm	7.30 mm	R/C 39.30 mm
HP-507	3rd Molar lower left	23.55 mm	6.85 mm	C/A 14.15 mm
HP-501	3rd Molar lower left	19.10 mm	8.60 mm	C/A 13.65 mm
KLB-1	3rd Molar lower left	21.50 mm	7.50 mm	C/A 13.33 mm

Southern Sector :—Keshabapally & Nagorjunkoda

NGK.	3rd Premolar lower right	9.40 mm	5.40 mm	C/A 12.60 mm
NGK.	3rd Premolar lower right	10.10 mm	5.50 mm	C/A 11.60 mm
NGK.	3rd Premolar lower right	8.10 mm	5.75 mm	C/A 9.60 mm
NGK.	3rd Premolar lower right	7.70 mm	5.00 mm	C/A 7.00 mm
NGK.	3rd Premolar lower right	9.10 mm	4.80 mm	C/A 8.20 mm
NGK.	3rd Premolar lower left	8.20 mm	5.20 mm	C/A 7.50 mm
NGK.	3rd Premolar lower left	9.60 mm	7.00 mm	C/A 10.40 mm
NGK.	4th Premolar lower right	14.90 mm	5.10 mm	C/A 9.70 mm
NGK.	4th Premolar lower right	10.80 mm	6.40 mm	C/A 10.80 mm
NGK.	4th Premolar lower right	11.20 mm	6.10 mm	C/A 12.30 mm
NGK.	4th Premolar lower right	9.30 mm	6.60 mm	C/A 10.00 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
NGK.	4th Premolar lower right	11.10 mm	6.30 mm	C/A 12.00 mm
NGK.	4th Premolar lower left	11.40 mm	7.80 mm	C/A 8.90 mm
NGK.	4th Premolar lower left	13.20 mm	6.50 mm	C/A 8.50 mm
NGK.	1st Molar upper right	14.20 mm	9.40 mm	R/C 27.70 mm
NGK.	1st Molar lower right	12.80 mm	7.10 mm	C/A 13.20 mm
NGK.	1st Molar lower right	12.70 mm	7.30 mm	C/A 13.40 mm
NGK.	1st Molar lower right	11.90 mm	7.70 mm	C/A 11.30 mm
NGK.	1st Molar lower left	13.20 mm	8.60 mm	R/C 26.60 mm
NGK.	1st Molar lower left	14.60 mm	9.40 mm	C/A 11.30 mm
KSP-2	2nd Molar upper right	13.95 mm	10.40 mm	R/C 28.75 mm
NGK.	2nd Molar lower right	16.10 mm	8.80 mm	C/A 12.30 mm
NGK.	2nd Molar lower right	15.70 mm	7.80 mm	C/A 12.60 mm
NGK.	2nd Molar lower right	15.80 mm	8.10 mm	C/A 13.40 mm
NGK.	2nd Molar lower right	17.50 mm	10.00 mm	C/A 11.20 mm
KSP-2	2nd Molar lower right	15.75 mm	8.90 mm	R/C 39.35 mm
NGK.	2nd Molar lower left	14.70 mm	—	C/A 10.00 mm
NGK.	3rd Molar upper right	15.20 mm	8.20 mm	R/C 31.50 mm
NGK.	3rd Molar upper right	18.10 mm	12.20 mm	R/C 30.40 mm
NGK.	3rd Molar upper left	18.30 mm	17.90 mm	R/C 31.10 mm
NGK.	3rd Molar lower right	18.80 mm	7.70 mm	C/A 10.00 mm
NGK.	3rd Molar lower right	21.30 mm	7.70 mm	C/A 10.40 mm

Table—1 (Contd.)

Site	Material	Max. length Ant./Post.	Max. width Lab./Ling,	Max. height Crown/Root
NGK.	3rd Molar lower right	19.50 mm	11.50 mm	C/A 8.70 mm
NGK.	3rd Molar lower right	22.20 mm	6.50 mm	C/A 11.10 mm
NGK.	3rd Molar lower right	21.40 mm	8.10 mm	C/A 13.10 mm
NGK.	3rd Molar lower right	20.00 mm	8.50 mm	C/A 10.80 mm
KSP.	3rd Molar lower right	23.40 mm	8.90 mm	R/C 38.60 mm

Table—2

Average measurement of teeth of Domestic goat.

Easter Sector : Bharatpur.

Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
3rd Premolar lower left	9.00 mm	4.50 mm	C/A 7.10 mm
3rd Premolar lower left	15.70 mm	5.00 mm	C/A 7.20 mm

Western Sector : Lothal, Rangpur, Brahmagiri, Maski & Aurangabad

2nd Premolar upper right	8.95 mm	6.40 mm	C/A 9.70 mm
2nd Premolar upper left	8.60 mm	7.95 mm	C/A 10.00 mm
2nd Premolar lower right	8.02 mm	6.35 mm	C/A 8.70 mm
2nd Premolar lower left	7.50 mm	4.80 mm	C/A 11.55 mm
3rd Premolar upper right	9.35 mm	8.01 mm	C/A 11.50 mm
3rd Premolar upper left	9.40 mm	8.30 mm	C/A 11.60 mm
3rd Premolar lower right	8.10 mm	4.68 mm	C/A 7.00 mm
3rd Premolar lower left	8.64 mm	5.51 mm	C/A 10.40 mm
4th Premolar upper right	10.67 mm	10.73 mm	C/A 11.98 mm
4th Premolar upper left	9.90 mm	8.90 mm	C/A 13.65 mm
4th Premolar lower right	13.95 mm	6.16 mm	C/A 9.50 mm
4th Premolar lower left	11.57 mm	6.30 mm	C/A 9.83 mm
1st Molar upper right	12.08 mm	8.51 mm	C/A 10.95 mm
1st Molar upper left	13.69 mm	9.30 mm	C/A 12.25 mm

Table—2 (Contd.)

Material	Max. length	Max. width	Max. height
	Ant./Post.	Lab./Ling.	Crown/Root
1st Molar lower right	12.67 mm	7.12 mm	C/A 9.22 mm
1st Molar lower left	12.68 mm	7.31 mm	C/A 10.89 mm
2nd Molar upper right	16.09 mm	9.63 mm	C/A 10.79 mm
2nd Molar upper left	15.10 mm	10.53 mm	C/A 13.82 mm
2nd Molar lower right	15.15 mm	7.35 mm	C/A 11.52 mm
2nd Molar lower left	15.22 mm	7.57 mm	C/A 10.90 mm
3rd Molar upper right	15.81 mm	9.87 mm	C/A 11.46 mm
3rd Molar upper left	16.73 mm	11.05 mm	R/C 38.80 mm
3rd Molar lower right	18.33 mm	7.05 mm	C/A 8.81 mm
3rd Molar lower left	19.07 mm	7.37 mm	C/A 8.99 mm

Central Sector : Kausambi, Sarnath, Alamgirpur, Rajghat, Adamgarh, Ujjain and Nagda

2nd Premolar lower right	8.00 mm	8.20 mm	C/A 10.00 mm
3rd Premolar lower right	8.35 mm	4.85 mm	C/A 6.80 mm
4th Premolar lower right	10.23 mm	7.50 mm	C/A 7.66 mm
4th Premolar lower left	7.50 mm	6.50 mm	C/A 8.70 mm
1st Molar lower right	14.78 mm	10.18 mm	C/A 11.10 mm
1st Molar lower left	9.50 mm	7.65 mm	C/A 10.32 mm
2nd Molar upper right	17.45 mm	14.11 mm	R/C 38.28 mm
2nd Molar upper left	17.63 mm	11.72 mm	R/C 38.68 mm

Table—2 (Contd.)

Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
2nd Molar lower right	18.76 mm	10.88 mm	C/A 11.65 mm
2nd Molar lower left	11.98 mm	8.65 mm	C/A 11.18 mm
3rd Molar lower right	20.20 mm	8.10 mm	C/A 10.27 mm
3rd Molar lower left	20.21 mm	12.32 mm	C/A 9.70 mm
Average Northern Sector :—Rupar, Harappa, Burzaham, Kalibangan, Tilarokot & Kodan.			
2nd Premolar upper right	9.60 mm	—	C/A 18.05 mm
2nd Premolar upper left	8.30 mm	8.20 mm	C/A 10.30 mm
2nd Premolar lower right	6.70 mm	4.38 mm	C/A 8.94 mm
3rd Premolar upper right	10.73 mm	9.85 mm	C/A 15.55 mm
3rd Premolar lower right	8.95 mm	8.95 mm	C/A 10.33 mm
3rd Premolar lower left	10.08 mm	5.50 mm	C/A 7.75 mm
4th Premolar upper right	10.73 mm	9.85 mm	C/A 15.55 mm
4th Premolar lower right	11.48 mm	6.65 mm	C/A 11.44 mm
4th Premolar lower left	14.90 mm	6.70 mm	C/A 9.17 mm
Northern Sector :			
1st Molar upper right	16.24 mm	12.33 mm	C/A 15.00 mm
1st Molar upper left	12.56 mm	14.58 mm	—
1st Molar lower right	12.93 mm	8.00 mm	C/A 12.57 mm

Table—2

Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
1st Molar lower left	14.15 mm	7.00 mm	C/A 13.55 mm
2nd Molar upper right	17.27 mm	12.18 mm	C/A 14.35 mm
2nd Molar upper left	18.10 mm	10.60 mm	R/C 40.91 mm
2nd Molar lower right	16.10 mm	8.61 mm	C/A 15.42 mm
2nd Molar lower left	15.78 mm	8.58 mm	C/A 12.50 mm
3rd Molar upper right	21.50 mm	—	—
3rd Molar upper left	23.14 mm	12.16 mm	—
3rd Molar lower right	21.60 mm	8.30 mm	C/A 14.75 mm
3rd Molar lower left	20.56 mm	8.04 mm	C/A 12.80 mm
Southern Sector : Nagarjunkonda, Keshavapally.			
3rd Premolar lower left	8.90 mm	6.10 mm	C/A 8.95 mm
3rd Premolar lower right	8.88 mm	5.25 mm	C/A 9.80 mm
4th Premolar lower right	11.52 mm	6.10 mm	C/A 10.62 mm
4th Premolar lower left	11.90 mm	5.25 mm	C/A 9.80 mm
1st Molar upper right	14.20 mm	9.40 mm	R/C 27.70 mm
1st Molar lower right	12.46 mm	7.36 mm	C/A 12.63 mm
1st Molar lower left	13.90 mm	9.00 mm	C/A 11.40 mm
2nd Molar lower right	16.28 mm	8.68 mm	C/A 12.38 mm
2nd Molar lower left	14.70 mm	—	C/A 10.60 mm

Table—2 (Contd.)

Material	Max. length Ant./Post.	Max. width Lab./Ling.	Max. height Crown/Root
3rd Molar upper right	16.65 mm	10.20 mm	R/C 31.45 mm
3rd Molar upper left	18.30 mm	17.90 mm	R/C 31.10 mm
3rd Molar lower right	20.53 mm	8.50 mm	C/A 10.72 mm

Table showing the measurement of largest specimens of the Five territorial zone.

	2nd Premolar			3rd Premolar			4th Premolar		
	Length.	Width.	Height.	Length.	Width.	Height.	Length.	Width.	Height.
EASTERN ZONE :									
Bharatpur :—									
Lower right	—	—	—	9.00 mm	5.00 mm	7.10 mm	15.70 mm	5.00 mm	7.20 mm
WESTERN ZONE :									
Lothal :—									
Upper right	8.90 mm	7.50 mm	10.00 mm	9.40 mm	9.20 mm	11.30 mm	10.00 mm	9.90 mm	11.70 mm
Upper left	7.50 mm	6.50 mm	10.90 mm	9.40 mm	9.20 mm	11.60 mm	12.80 mm	10.70 mm	23.10 mm (R/C)
Lower right	9.90 mm	7.50 mm	10.00 mm	—	—	—	18.00 mm	6.80 mm	11.10 mm
Lower left	7.50 mm	4.80 mm	11.50 mm	9.60 mm	5.10 mm	11.90 mm	12.20 mm	6.30 mm	12.30 mm
Rangpur :—									
Upper right	9.70 mm	5.80 mm	9.00 mm	10.60 mm	8.15 mm	9.90 mm	11.20 mm	9.10 mm	11.55 mm
Upper left	—	—	—	—	—	—	13.20 mm	7.60 mm	10.50 mm
Lower right	8.00 mm	8.20 mm	—	6.25 mm	5.35 mm	7.00 mm	3.50 mm	5.00 mm	6.05 mm (J)
Lower left	—	—	—	—	—	—	11.00 mm	6.15 mm	7.70 mm
Bramhagiri :—									
Lower Left	—	—	—	9.00 mm	5.75 mm	11.00 mm	10.50 mm	6.50 mm	10.50 mm

Table 3 (Contd)

	2nd Premolar			3rd Premolar			4th Premolar		
	Length.	Width.	Height.	Length.	Width.	Height.	Length.	Width	Height.
Maski :—									
Upper left	8.40 mm	8.40 mm	—	—	—	—	—	—	—
Lower right	8.05 mm	4.80 mm	8.70 mm	9.10 mm	4.50 mm	7.00 mm	16.00 mm	5.60 mm	—
Lower left	—	—	—	8.25 mm	4.20 mm	—	10.50 mm	6.40 mm	—
CENTRAL ZONE :									
Sarnath :—									
Lower right	—	—	—	8.40 mm	4.80 mm	4.50 mm	10.30 mm	5.80 mm	5.00 mm
Rajghat ;—									
Lower right	—	—	—	—	—	—	11.40 mm	6.20 mm	6.20 mm
Ujjain :—									
Lower right	8.00 mm	8.20 mm	10.00 mm	8.30 mm	4.90 mm	9.10 mm	9.00 mm	10.50 mm	10.00 mm
Nagda :—									
Lower left	—	—	—	—	—	—	7.50 mm	6.50 mm	8.10 mm
NORTHERN ZONE :									
Harappa :—									
Upper right	8.60 mm	—	10.05 mm	9.50 mm	7.75 mm	22.20 mm	10.85 mm	9.50 mm	17.60 mm
Lower left	6.80 mm	5.15 mm	11.58 mm	9.00 mm	6.62 mm	13.30 mm	11.00 mm	6.75 mm	14.50 mm

Table—3 (Contd)

	2nd Premolar			3rd Premolar			4th Premolar		
	Length.	Width.	Height.	Length.	Width.	Height.	Length.	Width.	Height
Burzaham :—									
Lower right	6.60 mm	8.60 mm	6.30 mm(J)	9.50 mm	5.50 mm	8.50 mm(J)	—	—	—
Lower left	—	—	—	—	—	—	19.00 mm	6.60 mm	9.90 mm (J)
Kalibangan :—									
Lower right	—	—	—	—	—	—	11.90 mm	6.20 mm	11.40 mm
Rupur :—									
Upper right	—	—	—	10.00 mm	9.20 mm	12.30 mm	10.60 mm	10.20 mm	13.50 mm
Upper left	8.30 mm	8.20 mm	10.30 mm	—	—	—	—	—	—
Lower right	—	—	—	8.90 mm	4.80 mm	10.00 mm	11.00 mm	6.00 mm	13.50 mm
Lower left	—	—	—	8.65 mm	6.00 mm	8.30 mm	16.50 mm	7.00 mm	8.90 mm
SOUTHERN ZONE :									
Keshavapally :—									
Upper right	—	—	—	—	—	—	—	—	—
Upper left	—	—	—	—	—	—	—	—	—
Lower right	—	—	—	10.10 mm	5.50 mm	11.60 mm	11.20 mm	6.10 mm	12.30 mm
Lower left	—	—	—	9.60 mm	7.00 mm	10.40 mm	11.40 mm	7.80 mm	8.90 mm

Table—3 (Contd.)

	1st Molar			2nd Molar			3rd Molar		
	Length.	Width.	Height.	Length.	Width.	Height.	Length.	Width.	Height.
EASTERN ZONE :									
Bharatpur :—									
Lower right	—	—	—	—	—	—	—	—	—
WESTERN ZONE :									
Lothal :—									
Upper right	15.80 mm	9.35 mm	28.10 mm (R/C)	18.10 mm	10.90 mm	40.40 mm (R/C)	17.80 mm	11.10 mm	10.10 mm
Upper left	16.10 mm	10.20 mm	40.30 mm (R/C)	18.00 mm	11.00 mm	39.10 mm (R/C)	18.00 mm	11.30 mm	36.80 mm (R/C)
Lower right	16.00 mm	6.70 mm	9.50 mm	16.70 mm	7.70 mm	12.10 mm	22.00 mm	9.00 mm	8.30 mm
Lower left	12.00 mm	8.00 mm	12.60 mm	18.20 mm	5.80 mm	8.80 mm	22.30 mm	7.60 mm	41.30 mm (R/C)
Rangpur :—									
Upper right	17.30 mm	9.40 mm	13.50 mm	16.00 mm	10.30 mm	12.75 mm	17.50 mm	11.20 mm	—
Upper left	17.00 mm	9.40 mm	13.50 mm	13.90 mm	11.00 mm	—	17.75 mm	11.35 mm	7.35 mm
Lower right	15.30 mm	8.60 mm	28.85 mm (R/C)	16.70 mm	—	—	17.40 mm	8.10 mm	10.60 mm
Lower left	14.40 mm	7.55 mm	13.95 mm	17.80 mm	7.55 mm	12.90 mm	—	—	—

Table—3 (Contd)

	1st Molar			2nd Molar			3rd Molar		
	Length.	Width.	Height.	Length.	Width.	Height.	Length.	Width.	Height.
Bramhagiri :—									
Lower left	13.00 mm	11.70 mm	17.70 mm	17.70 mm	8.50 mm	12.50 mm	20.40 mm	7.50 mm	8.90 mm
Maski :—									
Upper right	13.10 mm	8.75 mm	—	15.30 mm	6.40 mm	15.40 mm	20.30 mm	7.25 mm	11.75 mm
Upper left	11.50 mm	9.00 mm	—	15.30 mm	6.35 mm	15.60 mm	14.90 mm	5.85 mm	—
Lower right	14.90 mm	5.20 mm	—	—	—	—	—	—	—
Lower left	14.90 mm	5.20 mm	—	—	—	—	—	—	—
Aurangabad :—									
Upper right	16.30 mm	9.50 mm	40.30 mm (R/C)	—	—	—	—	—	—
Upper left	16.00 mm	9.50 mm	27.80 mm (R/C)	—	—	—	—	—	—
Lower left	—	—	—	17.10 mm	7.00 mm	39.90 mm (R/C)	17.00 mm	7.00 mm	37.00 mm (R/C)
CENTRAL ZONE :									
Sarnath :—									
Lower right	—	—	—	—	—	—	21.50 mm	8.85 mm	11.90 mm

Table—3 (Contd)

	1st Molar			2nd Molar			3rd Molar		
	Length.	Width.	Height.	Length.	Width.	Height.	Length.	Width.	Height
Rajghat :—									
Upper left	—	—	—	17.30 mm	11.60 mm	30.30 mm (R/C)	—	—	—
Lower left	—	—	—	—	—	—	21.00 mm	8.30 mm	46.00 mm (R/C)
Kausambi :—									
Upper right	—	—	—	17.90 mm	11.50 mm	39.80 mm (R/C)	—	—	—
Alamgirpur :—									
Upper right	—	—	—	16.55 mm	11.75 mm	35.45 mm (R/C)	—	—	—
Upper left	—	—	—	18.50 mm	10.65 mm	42.55 mm (R/C)	—	—	—
Lower left	10.70 mm	8.10 mm	11.15 mm	14.65 mm	8.60 mm	12.35 mm	22.60 mm	8.85 mm	11.90 mm
Adamghar :—									
Lower right	20.60 mm	10.10 mm	32.70 mm (R/C)	22.50 mm	10.45 mm	22.80 mm	24.25 mm	10.50 mm	—
Ujjain :—									
Lower right	12.40 mm	12.10 mm	11.40 mm	18.00 mm	12.90 mm	12.50 mm	—	—	—
Nagda :—									
Lower left	8.30 mm	7.20 mm	9.50 mm	9.30 mm	8.70 mm	10.00 mm	20.20 mm	8.10 mm	7.50 mm

Table—3 (Contd)

	1st Molar			2nd Molar			3rd Molar		
	Length.	Width.	Height.	Length.	Width.	Height.	Length.	Width.	Height.
Upper left	—	—	—	—	—	—	—	—	—
Lower right	14.30 mm	7.70 mm	11.20 mm	16.00 mm	8.10 mm	11.40 mm	18.15 mm	7.60 mm	39.90 mm (R/C)
Lower left	15.80 mm	8.70 mm	14.60 mm	—	—	—	—	—	—
SOUTHERN ZONE :									
Keshavapally :									
Upper right	—	—	—	13.95 mm	10.40 mm	28.75 mm (R/C)	18.10 mm	12.20 mm	31.40 mm (R/C)
Upper left	—	—	—	—	—	—	18.30 mm	17.30 mm	31.00 mm (R/C)
Lower right	—	—	—	15.80 mm	8.10 mm	13.40 mm	21.10 mm	8.10 mm	31.10 mm (R/C)
Nagarjunkonda :—									
Upper right	14.20 mm	9.40 mm	27.70 mm (R/C)	—	—	—	19.50 mm	11.50 mm	8.70 mm
Upper left	—	—	—	—	—	—	18.30 mm	17.90 mm	31.10 mm (R/C)
Lower right	12.80 mm	7.70 mm	13.20 mm	17.50 mm	10.10 mm	11.20 mm	22.20 mm	6.50 mm	11.10 mm
Lower left	14.60 mm	9.40 mm	11.40 mm	17.10 mm	—	10.60 mm	—	—	—