

APPENDICES

APPENDIX 1 OF Chapter II

Unit of Measurements in South Gujarat Territory

I- Weights

(A) Weight for Cotton*

1 *maund* = 40 *sers*

7 *maund* = 1 *haro*

20 *maund* = 1 *khandi*

30 *maund* = 1 *galli*

24 *maund* = 1 *bahr*

1 *dhadi* = 48 *sers*

(B) Weight for Grains*

1 *maund* = 40 or 42 *sers*

16 *maund* = 1 *kalsi*

2 *kalsi* = 1 *bediya*

II- Measurement for Length*

1 hector = 2.5 *acres*

1 hector = 100 *guntha*

100 hector = 1 sq. km.

1 yard = 3.3 ft.

1 *acre* = 4,840 sq. yard

1 *acre* = 43,560 sq. ft.

1 *acre* = 40 *guntha*

1 *acre* = 1.74 *bigha*

640 *acres* = 1 sq. mile

1 sq. mile = 2.599 sq. km.

1 *bigha* = 25,600 sq. ft.

1 *bigha* = 20 *wassas*

1 *bigha* = 23.5 *guntha*

1 *wassa* = 12.80 sq.ft.

1 *guntha* = 1,089 sq.ft.

1 sq. *guntha* = 101 sq. meter

1000 *bigha* = 587 *acres*

1000 *bigha* = 2.3837 sq. km.

1 *bigha* = 0.0023837 sq. km.

Kumbha; was the mode of measuring the lands in the three districts of Jambusar, Amod, and Dahej in the Broach Collectorate during the nineteenth century. The "*Kumbha*"; was sub divided into "*Malas*".

100 *Malas*=1 *Kumbha*, which equals 3 roods, 33 perches, 422 decls., English land measure.

1 *Mala*= 20 feet 5 ¼ inches (English measure)

100 *Malas* = 1 *Kumbha*

100 *Kumbhas* = 95 *acres*, 3 roods, 22 perches, 2 decls.

The 100th part of a *Kumbha* was 1 *mallun* = 9 guz of 27 ½ inches.

1 *mallun* = 20 feet 5 $\frac{1}{4}$ inches.

The rod of 20 feet 5 $\frac{1}{4}$ inches with which the mallun was measured was called *Guntha*.

1 *Bigha* = 20 *Vasa*.

1 *Vasa* = 20 *Biswa* / *Veesvas*

The *Bigha* like the English acre was an entirely square measure. The *Guntha* or rod, by which the measurements were made, was computed at 5 *haths*.

20 such *gunthas* or 100 *haths* were the length of one side of a *Bigha*.

The standard length of the *guntha* was 96 inches or 8 feet.

1 *hath* = 19 $\frac{1}{5}$ inches.

*Sources: Measurement Sheet, Land Revenue Office, Kothi Kacheri, Baroda; E.P. Robertson, *Glossary of Gujaratee Revenue and Official Term*, Bombay, 1865. pp. 9, 45 & 51; Monier William, *Memoir on the Zilla of Baroche*, pp. v & vi; GBP, *Surat and Broach*, pp. 208-210 and 461-463.