

DIAGRAM
OF
THE SOUTHERN TRIGON
OF THE
G. T. SURVEY OF INDIA



Photoreproduced at the Office of the Trigonometrical Branch, Survey of India, Dehra Dun, January 1891.

SYNOPSIS OF THE RESULTS OF THE OPERATIONS OF
THE GREAT TRIGONOMETRICAL SURVEY OF INDIA
VOLUME XXVIII.

DESCRIPTIONS AND CO-ORDINATES
OF THE
PRINCIPAL AND SECONDARY STATIONS AND OTHER FIXED POINTS OF
THE MADRAS MERIDIONAL AND COAST SERIES
OR SERIES E
OF THE
SOUTHERN TRIGON.

PREPARED IN THE OFFICE OF THE TRIGONOMETRICAL BRANCH, SURVEY OF INDIA,
COLONEL G. STRAHAN, R.E., DEPUTY SURVEYOR GENERAL, IN CHARGE.

PUBLISHED UNDER THE ORDERS OF
COLONEL H. R. THULLIER, R.E., SURVEYOR GENERAL OF INDIA.



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ERRATA, ADDENDA ET CORRIGENDA.



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11— E	line 18 from bottom	<i>for</i> Irakams	<i>read</i> Irakam
70— E	col. 1, line 16 from bottom	„ Karlapálém	„ Karlapálém s.
71— E	„ 3, „ 9 „	„ Cběmbedu	„ Chěmbedu

November, 1892.

J. ECCLES,
In charge of Computing Office.



REFERENCES.

The abbreviations employed in the text are as follows:—

h.s. denotes hill station (secondary),

s. " station "

These abbreviations are only placed after stations where a theodolite has been set up and observations taken to surrounding points.

The latitudes and longitudes of all points shown on the Charts at the end of the volume will be found in the text. The latter exhibits numerical values of triangles only to points of a superior class, to which alone, if exhibited on the Charts, lines are drawn: the lines are either continuous throughout, or dotted for half the length and continuous for the other half: the dots indicate that the bearing was not observed. For other points difficult to identify or of comparatively less accuracy, numerical values of triangles and azimuths are not given.

November, 1892.

J. ECCLES,
In charge of Computing Office.

P R E F A C E .



The Madras Meridional and Coast Series, the details of which are given in this volume, is one of the component series of the Southern Trigon, or that section of the triangulation of India which embraces the portion of the peninsula lying south of the line joining Bombay and Vizagapatam. The general principles of the simultaneous reduction, and the procedure followed in carrying it out, are explained in Volume II of the *Account of the Operations, &c.*; and full details of the whole of the triangulation appertaining to the Trigon will be found in Volumes XII and XIII of the *Account of the Operations, &c.*

As however the entire contents of the volumes of the principal triangulation are not needed by geographers and surveyors, and moreover as these volumes give no details of the secondary triangulation—which is of considerable value for local requirements—it is obviously desirable that synopses of the final results of the whole of the operations, including the secondary as well as the principal triangulation, should be published for general use in such a form as to be most suitable for convenience of reference. This has already been done as follows:—

For the several Series forming the North-West Quadrilateral,

- I. Great Indus Series.
- II. Great Arc, Section 24° to 30° .
- III. Karáchi Longitudinal Series.
- IV. Gurrhágarrh Meridional Series.
- V. Rahrún Meridional Series.
- VI. Jogí-Tíla and Suttlej Series.
- VII. North-West Himalaya Series.
- VII A. Jodhpore and Eastern Sind Meridional Series.

For those forming the South-East Quadrilateral,

- VIII. Great Arc, Section 18° to 24° .
- IX. Jabalpur Meridional Series.
- X. Bider Longitudinal Series.
- XI. Biláspur Meridional Series.
- XII. Calcutta Longitudinal Series.
- XIII. East Coast Series.
- XIII A. South Párasnáth and South Malúncha Series.

} Already published.

For those forming the North-East Quadrilateral,

- XIV. Budhon Meridional Series.
- XV. Rangir Meridional Series.
- XVI. Amua and Karára Meridional Series.
- XVII. Gurwáni and Gora Meridional Series.
- XVIII. Huriláong and Chendwár Meridional Series.
- XIX. North Párasnáth and North Malúncha Meridional Series.
- XX. Calcutta and Brahmaputra Meridional Series.
- XXI. East Calcutta Longitudinal and Eastern Frontier Series, Section 23° to 26°.
- XXII. *Assam Valley Triangulation, E. of Meridian 92°.

Already published.

And for the following Series of the Southern Trigon, *viz.*,

- XXIII. South Konkan Coast Series.
- XXIV. Mangalore Meridional Series.
- XXV. South-East Coast Series.
- XXVI. Bombay Longitudinal Series.
- XXVII. Madras Longitudinal Series.

The present is the 30th Synoptical Volume in order of publication, and the sixth of those appertaining to the Southern Trigon; it gives the results both of the principal triangulation executed exclusively with theodolites having azimuthal circles of 24 and 36 inches in diameter, read by five micrometer microscopes, and of the secondary triangulation in which other instruments besides these were used.

By the process of reduction which has been followed, the principal triangulation has been rendered perfectly consistent both internally and externally; internally, so that if in any one of the several polygonal figures of which the chains may be composed, calculations are carried from one station to another in every possible direction, the same results will be inevitably deduced; and externally, so that the values of the co-ordinates of any station, when computed from the given co-ordinates of any other station, with the final linear and angular data, will be the same, whether the calculation is carried directly through the series, or circuitously through any of the other chains of triangles comprising the Southern Trigon. All secondary triangulation emanating from one side of the principal Series and closing on another side thereof, or on a contiguous Series, have also been made consistent throughout.

As regards the general arrangement of this volume, it may be pointed out that the Introduction and the Descriptions of the Principal Stations, were originally prepared for Volume XIII of the *Account of the Operations, &c.*, and when a sufficient number of copies had been printed for that work, additional copies were struck off for this volume. The Introduction was printed in the year 1887; it gives a historical and descriptive sketch of the progress of the whole operations† in the field—both principal and secondary—from year to year, mentions the Officers by whom they were conducted, the theodolites with which principal angles were measured, and indicates the work done by each of the Assistants. The adjustment of the secondary triangulation was taken in hand in the year 1883, it was put aside for some years, and was completed in 1892 when the printing of the volume was resumed.

The data given in this volume are the following:—

First (page 1—*E.*), an alphabetical list of the names of the principal stations, showing the numbers assigned to them.

Second (page 3—*E.*), a numerical list giving the names corresponding to the numbers.

Third (page 5—*E.*), descriptions of the structure and positions of the principal stations.

Fourth (page 17—*E.*), the angles and sides of the principal triangles, numbered and arranged in order from north to south.

* This is an offshoot of the Assam Longitudinal Series, and falls entirely outside of the limits of the North-East Quadrilateral. The volume is issued in a preliminary form, and therefore only a limited number of copies are available to meet any immediate demand for data: the final publication will be hereafter made on the completion of the triangulation in Burma, into the general reduction of which this Series will enter.

† A descriptive account of Colonel Lambton's triangulation will be found in the *Appendix to Volume XII of the Account of the Operations, &c.*

Fifth (page 25—*E*), the angles and sides of certain secondary triangles. The numbering is here made consecutive to that of the principal triangles, in order to facilitate references which are made in other sections to the place where the length of a side is to be found.

Sixth (page 67—*E*), the azimuths of surrounding stations and points at principal, principal-auxiliary and secondary stations, the latter arranged in alphabetical order.

Seventh (page 102—*E*), the co-ordinates and descriptions of all stations and points arranged in alphabetical order.

It has not been considered necessary to publish the whole of the details of the secondary triangulation; the sides and angles of 969 triangles, which were selected as most likely to be of future use, and the azimuths of all these sides, have been given; but for a number of other points the co-ordinates only have been given. With the aid of Tables Nos. XXVI, XXVII, XXVIII, XXIX and XXX of the *Auxiliary Tables to facilitate the calculations of the Survey of India*, Dehra Dún, 1887, surveyors, working on a system of rectangular co-ordinates, can readily transform the spheroidal co-ordinates here given to suit their requirements.

The heights above mean sea level of the stations determined trigonometrically are controlled by lines of spirit-levelling extending along the entire length of the Series: all particulars regarding them will be found detailed on page 102—*E*, and in the footnotes to the subsequent pages.

The longitudes depend on an astronomically determined value of the longitude of the Madras Observatory, deduced about the year 1815. The longitude of the Madras Observatory has however been re-determined by the Electro-Telegraphic method, from observations made at Greenwich, Mokattam (in Egypt), Suez, Aden, Bombay and at certain stations of the triangulation in India.

This value of the longitude of the Madras Observatory is equivalent to $80^{\circ} 14' 51''$ E.; and as the originally adopted value, on which the longitudes of the whole of the stations of this Survey are based, is $80^{\circ} 17' 21''$ E.—see page 135 of Volume II of the *Account of the Operations, &c.*—the following precept may be accepted with considerable confidence:—

**All the values of longitude in this volume require a constant correction,
probably of $-2' 30''$.**

The orthography of Indian names in the present volume is in accordance with the provincial lists of spellings constructed under the immediate orders of the Government of India. The newly authorised spellings were adopted for all names and other words contained in these lists; but for words for which there was no specific authority, the spellings have been framed in accordance with the methods followed in the preparation of the published lists, reference being made in the present instance more particularly to the Gazetted Lists for the Madras Presidency and Nizam's Dominions. As a general rule the pronunciations of the vowels are as follows:—*a* has a variable sound as in *woman*, *rural*, *paltry*; *á* as in *tartan*; *i* as in *bit*; *í* as in *ravine*; *u* as in *bull*; *ú* as in *rural*; *o* as in *note*; *ó* as in *cot*; *e* as in *say*; *é* as in *bet*; *au* as *ou* in *cloud*; *ai* as *i* in *ride*. Final vowels and those in well-known terminals are unaccented. When the popular spelling of a name has been accepted by Government, its correct orthography is generally given in parenthesis where the name occurs for the first time.

The charts accompanying this volume show all the principal stations and triangulation, the positions of all secondary points, and portions of the secondary triangulations of which full details of the angles, sides and azimuths are given. With the aid of the charts it is hoped that little difficulty will be met with in finding out any of the data which may be required. The descriptions of the secondary stations are in some cases not as full and clear as might be desired: this arises from the inadequacy of the information entered on the spot by the

surveyors in their field books; every effort has been made to supplement the field books, whenever it was found practicable to do so, in order to facilitate the future identification of the stations, and all the information which is forthcoming has now been given.

The general arrangement of the volume is in accordance with that adopted in previous Synoptical Volumes. The data which it contains have been prepared chiefly under the superintendence of Mr. J. Eccles, M.A., Deputy Superintendent, the Officer in charge of the Computing Office. The Introduction to this Series was written by Captain S. G. Burrard, Deputy Superintendent. The volume like its predecessors has been printed at the Trigonometrical Branch Office at Dehra; Mr. Peychers and Mr. H. G. Shaw have rendered valuable service in the examination of the press proofs generally, and Mr. Peychers more particularly in regard to the numerical details which require the utmost care in supervision through the press, and in this respect from his natural aptitude and experience his assistance has been most valuable.

DEHRA DUN, }
August, 1892. }

G. STRAHAN, COLONEL, R.E.,
Dy. Surveyor General,
In charge Trigonometrical Surveys.

MADRAS MERIDIONAL AND COAST SERIES.

MADRAS MERIDIONAL AND COAST SERIES.

INTRODUCTION.

The Madras Meridional and Coast Series is the name of the great chain of principal triangles connecting Vizagapatam (Vishakhapatnam) and Madras. It follows the line of the eastern coast of India between the parallels of $17^{\circ} 30'$ and 13° , and its initial and terminal sides belong respectively to the two longitudinal series of Bider (Bidar) and Madras. From Vizagapatam the series runs W.S.W., till, in latitude $16^{\circ} 30'$, it meets the meridian of 80° ; it then follows this meridian to Madras. The Jubbulpore (Jabalpur) Meridional Series, which follows the line of this meridian southwards to the parallel of 18° , was produced to meet the series under review at the angle formed by this change of direction, and a great meridional chain was thus completed connecting Madras with the Calcutta Longitudinal Series. The small portion of this meridional chain that is intercepted between the Bider Longitudinal and the Madras Meridional and Coast Series, was, for purposes of reduction, attached to the latter, which therefore emanates from two distinct sides of the former and with it forms a complete circuit of triangulation.

The whole country between Madras and the Kistna (Krishna) River had been covered with a net-work of principal triangles by Colonel Lambton in the first quarter of the century, and a base-line had been measured by him at Guntúr in 1812. In the last two years of his life, he had despatched Captain (afterwards Sir George) Everest, R.A., and Mr. J. De Penning to carry the triangulation eastwards from Hyderabad to the meridian of 80° and thence north to the Godávári river; but though he had fully planned its extension through the Circars (Sarkárs) to meet the requirements of Colonel McKenzie, then Surveyor General of India, the project fell through and no points were fixed near the coast north of the Kistna. With the exception therefore of the north-eastern branch which runs along the coast from the Kistna, the whole of the present series lay over ground that had been entirely covered with principal triangulation during the first period of the trigonometrical surveys. Owing to the inferiority of his instruments, when compared with those now in use, to the great errors that his base-lines were liable to, and to the complete obliteration of many of his stations, Colonel Lambton's work has not been incorporated with the *principal* triangulation, but with the *secondary* operations of recent times.

The Madras Meridional and Coast Series was commenced in 1860. A party under

Seasons 1860-61, and 1861-62.

PERSONNEL.

Captain J. P. Basevi, R.E., 1st Assistant.
 R. Clarkson, Esq., Civil Assistant.
 Mr. G. R. Howard, Sub-Assistant, 1st Class.
 " J. Ellison, " 1st "
 " F. Byall, " 2nd "

various officers, and latterly under Major A. Strange of the Madras Cavalry, had been for some years carrying a series down the East Coast from Calcutta, and by the end of the field season of 1859-60 had completed the Nalákōnda-Pothkōnda polygon, which now forms the most eastern figure of the Bider Longitudinal Series: from the

southern side of this figure one branch of the series under review emanates. Major Strange, hitherto a Brevet-Major only, having now attained his Regimental Majority, relinquished his appointment in the Survey Department and reverted to military duty, and the charge of the party was transferred to Captain Basevi in the autumn of 1860, the exigencies of the Department having required his transfer from the Trans-Indus frontier all the way to the Madras coast. He commenced operations from the side Sánjib-Dhár of the Bider Longitudinal Series, and was proceeding towards Rajahmundry (Rájamahendravaram) when, on approaching the hill of Kappa in the Rampa estate, he found that his signallers had been driven away from the hill with threats of violence, and that the inhabitants of the district were assembling to prevent him too from ascending. The estate was rent-free, and the people, though under the control of the Godávari magistracy, were a lawless set. Captain Basevi, having obtained an extra military guard and a body of police, made his way to the summit of the hill without molestation, and took the necessary observations. One day the people set fire to the long grass on the hill, and a Rája brought intelligence that they were collecting to attack the surveyors; but the fire was extinguished and the attack was not attempted. Captain Basevi's chief apprehensions were for the signallers, whom he had to leave behind at the station; but a guard was left with them, and they were not molested. The only serious inconvenience occasioned was in having to construct the station on a block of laterite several feet below the summit of the hill; for it was covered with dense jungle, which there was no means of clearing away without the assistance of the villagers, who had all absconded. The operations proceeded without further opposition or hindrance, excepting from the physical difficulties of the ground passed over. The district between the Godávari and Kistna rivers was crossed with considerable trouble, owing to the absence of high hills and the undulating nature of the ground, which was rendered all the more difficult through being covered with dense jungle. Thus the selection of stations, in such a manner as to form an unbroken chain of quadrilaterals and polygons, became a very tedious and laborious undertaking, involving the repeated rejection of positions which at first promised the requisite visibility in all directions, but which were afterwards found to be deficient in some essential relation. By June 1861, the final observations were completed to the side Parampúdi-Sudkōnda; the figures embraced being 2 hexagons, 1 pentagon and 1 quadrilateral, containing 20 triangles and extending a distance of about 100 miles. In the following season, by April 1862, the Series was advanced a further distance of 90 miles by 1 double polygon and 2 hexagons embracing 21 triangles. The triangulation had now reached a point in the Kistna district near the meridian of Madras, whence it shortly afterwards merged into the meridional series, which was intended to connect Jubbulpore and Madras.

After completing the Series thus far, Captain Basevi returned to Vizagapatam to

select a site for the base-line of verification, which it was proposed to measure in this neighbourhood. He succeeded in obtaining a suitable site, but not until his field operations had been so long protracted that it was the middle of June before he could break up his camp and return to quarters.

On re-entering the field early in October, he found the rains had been so heavy that the

Season 1862-63.

PERSONNEL.

Captain J. P. Basevi, R.E.,	1st Assistant.
" B. R. Branfill,	2nd "
Lieut. W. M. Campbell, R.E.,	2nd "
R. Clarkson, Esq.,	Civil Assistant.
Mr. F. Ryall,	Sub-Assistant 2nd Class.
" J. R. L. O'Neill,	" 3rd "

surrounding tanks had been converted into lakes, and that the ground selected for the measurement lay submerged under a sheet of water, in some parts as much as sixteen feet deep. By great exertions the water was drained off into adjoining ravines, and a portion of the line was ready for measuring in December; the remainder had

become fairly dry by the time it was reached. The details of the measurement of the Vizagapatam Base-line will be found in Section VIII, Vol. I of the *Account of the Operations of the Great Trigonometrical Survey of India*. It will suffice here to remark that its length is six and a half miles, that Major J. T. Walker, R.E., the Superintendent of the Great Trigonometrical Survey himself superintended the work, and that Captain Basevi's party was employed on the measurement. It was divided into three verificatory sections, which were subsequently checked by two series of triangles, one on each flank of the base, to test the measure of each section against the others. The tests were satisfactory, for the extreme difference between the measured length of the whole base and its computed length by triangulation from either section, was found to be only one inch. The comparison of the measured length with the computed value brought down by triangulation from the Calcutta Base-line was singularly satisfactory, for the error of the computed value was only a quarter of an inch, though the triangulation embraced a distance of four hundred and sixty-six miles, much of it passing over flat plains, which were covered with dense forest and jungle and very difficult to work through.

On the completion of the base-line, Captain Branfill was deputed to connect it with the principal triangles of the East Coast Series, and to execute the verificatory triangulation between the sections. He also observed an azimuth, and carried a line of levels from the south end of the base to the Tide Point Station at the Jetty at Vizagapatam, where tidal observations had been previously taken, a synopsis of which will be found in the Introduction to the East Coast Series on pages xxxiv—c. to xxxvii—c. of Volume VI of the *Account of the Operations &c.*

Meanwhile Captain Basevi proceeded to make a reconnoissance of the neighbouring territories of the Rájá of Jeypore (Jayapuram), concerning which little or nothing was known. "It is a singular fact," writes Major Walker in 1863, "that in the vicinity of the British stations of Vizagapatam and Vizianagrum (Vijayanagaram), and within sixty miles of a coast which has been frequented by British traders for upwards of a century, there is an extensive tract of country, subject to a friendly Rájá, of which less is known than of districts occupied by hostile tribes along the frontier of our recently acquired Punjab (Panjáb) Provinces. A glance at any map of the Madras Presidency reveals a great blank in our

“geographical knowledge of the tract of country which lies parallel to the coast and north-east of the Godávári river. Its deadly reputation appears to have been a bar alike to the explorations of the curious and scientific, and to the visits of sportsmen. No regular survey of it has ever been attempted; the few places given on the map seem to have been obtained from Native information, for they are generally exceedingly erroneous.

“A reconnoissance of this tract was required for our own operations round Vizagapatam. As any reliable information regarding lands so little known might be expected to be of much value and general interest, I was much gratified when Captain Basevi volunteered to reconnoitre this *terra incognita*; though at the same time I could not but feel apprehensive for his safety in a country so deadly; for his route would have to pass through dense jungle, in which it would be necessary for him to preserve his reckoning by the troublesome process of traversing, which under such circumstances is very laborious, and entails the necessity of performing the greater part of each day’s march on foot. The inevitable exposure to be thus undergone is very great in a tropical climate; and when the district to be traversed is known to be exceedingly feverish and unhealthy, no small amount of courage is needed to prompt a man to volunteer for such a task.”

Captain Basevi took with him one European Assistant, Mr. O’Neill, and a few natives. By means of a compass and perambulator a traverse was run from Kásipuram at the foot of the hills to Jeypore city, and from Jeypore to Bhadráchalam on the Godávári: observations for time and latitude were taken with a 7-inch theodolite whenever the weather permitted, and readings of the barometers and thermometers were recorded regularly to afford data for computing the heights above the sea-level. At Padawa, five marches from Kásipuram, Mr. O’Neill became so ill that he was obliged to return, and fever commenced among the natives of the party. The results of this reconnoissance were a good preliminary map of Jeypore; a report by Captain Basevi, giving the details of his route and a general description of the country; several valuable astronomical determinations of latitudes and longitudes and barometrical determinations of heights; also memoranda of various other routes, the details of which were obtained from native information. Captain Basevi was occupied with this work from the 10th of February to the 9th of April. In the following autumn he proceeded to Europe on furlough, and the command of the party devolved on Captain B. R. Branfill of the Bengal Cavalry.

On the completion of the base-line computations early in November, the party marched

Season 1863-64.

PERSONNEL.

Captain B. R. Branfill, 1st Assistant.
R. Clarkson, Esq., Civil Assistant.
Mr. F. Ryall, Sub-Assistant, 2nd Class.
“ J. W. Mitchell, Sub-Assistant, 3rd Class.
“ J. R. L. O’Neill, “ “

from its recess quarters at Vizagapatam, and recommenced operations near Guntúr on the 1st of December. Mr. Clarkson had charge of the approximate series, which by the 1st of January he had carried down as far as Nellóre (Nellúr). Captain Branfill had marked this town for the goal of the present season’s principal observations, and

as the country between it and Madras had already been topographically surveyed, Mr. Clarkson was recalled and no more approximate work carried out. The main party was greatly delayed at several hill stations by want of coolies, and by the end of January the final

observations of only two polygons had been completed, and one azimuth of verification observed to δ Ursæ Minoris at Dánapa H.S. The stations however were two marches apart and all situated on difficult hills that required two days to ascend and descend. Extra precautions were taken for the preservation of the stations of the Kotapa heptagon, with a view to the continuation of the series northwards to connect with the Jubbulpore Meridional Series, as the nature of the soil and the materials with which the two stations of Dhúlipalla and Pálapáru were constructed, were such that the platforms were certain after a few rainy seasons to disappear, and leave the masonry pillars exposed and liable to injury. In the next figure, the Medaramëttla hexagon, the ray from Farangul-dinne to Ongole was found to be impracticable between the hours of 2 and 4-30 P.M., the period of minimum refraction, even when elevated signals were employed. Between half past seven and eight in the evening the stations were however mutually visible, and by Captain Branfill observing at the former with the large instrument and Mr. Ryall at the latter with an 8-inch theodolite between these times on an appointed night, simultaneous reciprocal vertical angles were taken. In the month of March Mr. Clarkson was recalled from Guntúr to proceed, in advance of the main party, and fill up a gap which had been left in the approximate series two years previously, but he was unfortunately delayed in completing his secondary work, and his orders were countermanded. In consequence of this Captain Branfill himself, after taking observations at Netivaripálëm and Pichërla, was obliged to desist observing and proceeded to select stations for the east end of the side of continuation and for the east flank of the southern portion of the Netivaripálëm-Kuchërla double hexagon. After great difficulty and a month's delay Kesavaram and Darutippa were fixed on, and 12 to 15 feet platforms built at those places and at Puripád. On commencing the next figure, the Rájalli hexagon, the weather became extremely hazy, and it was doubtful, whether the figure could be completed before the end of the field season; but by constantly watching and seizing every opportunity of observing, all the final angles of the polygon were taken. The hill station of Yërrakönda had only just been quitted by the party, when the hill caught fire, and one set of signalling apparatus was destroyed.

Only three stations having been selected and none built in advance of the Rájalli hexagon, Captain Branfill determined to close operations and march to Madras, which he reached at the beginning of May. Mr. Clarkson however continued to work on the approximate series; he selected 17 stations forming a double polygon, a heptagon and part of a single polygon, extending the series to the vicinity of Madras, and rejoined the office at Ootacamund so late as the 1st of August.

Leaving the instruments and tents in a casemate in Fort St. George, he proceeded with the records and office to Ootacamund (Ontikalmanda), having first collected all the information he could concerning a tide-gauge and the practicability of connecting the series of triangulation with the Astronomical Observatory at Madras.

The principal work, completed during this field season, consisted of one heptagon, two hexagons, and a double polygon; there were 29 triangles in the four figures, extending the series a direct distance of 138 miles from north to south.

On searching for the south-end of the Madras (St. Thomas's) base-line, measured in

1802 by the Trigonometrical Survey under Major Lambton, it was found that all the stones excepting three had been carried off for the purpose of building a temple in the adjoining village. The fact was brought to the notice of the Madras Collector, and a full enquiry held, but with no satisfactory result. During the recess season Captain Branfill also visited Bangalore, and having after much search discovered the ends of the old Bangalore base, measured there in 1804, he took steps for their future preservation.

The principal computations were finished early in October, and the whole party left for Madras, resuming work there on the 1st of November. This month was stormy and rainy, and was spent in organising the field parties, repairing instruments, and in completing the secondary computations and the charts.

The entire party took the field on the 5th of December and was distributed as

Season 1864-65.

PERSONNEL.

Captain B. R. Branfill, Bengal Cavalry, 1st Asst.	
Mr. F. Ryall, Sub-Assistant 1st Class.	
" J. W. Mitchell, " 2nd "	
" J. R. L. O'Neill, " 3rd "	

follows:—Mr. Ryall to take up the approximate series near the Pulicat (Paraverkádu) lake, to select one or two stations on the east flank, clear the rays, and arrange for building the necessary towers. Captain Branfill himself, accompanied by Mr. O'Neill and a native recorder Ganga-

dram Mudhli, proceeded to Nellore to fix that place and resume the principal triangulation in the neighbourhood. After recording the azimuth observed at Kistama H.S. in December and assisting for a few weeks in the observatory and office, until the native recorder had become efficient in his duties, Mr. O'Neill was sent to assist Mr. Ryall in the approximate series by superintending the tower-building.

During February the Jonangipálém tower fell, but was rebuilt in time to obviate more than a few days' delay. In March and April the progress of the work was very seriously delayed by the cloudy weather which is so prevalent along this coast, and from the haziness of the atmosphere. Another cause of delay was the deficiency of positive or excess of negative refraction, rendering the rays which, though perhaps grazing, had been quite practicable in January quite out of the question in April, so that the Rëttambedu and Chëmbedu pillars had to be raised from 8 to 12 feet higher, and the signals raised still more on scaffolds erected for the purpose at certain other stations.

Observations were completed at Rëttambedu and Chëmbedu by April and the rest of the season was employed in carrying on the triangulation to Madras and connecting it with the Madras Observatory. As, however, this triangulation now appertains to the Madras Longitudinal Series no further reference to it is needed here.

Now that the coast triangulation had been completed, the only work remaining on the Series under review, was to connect that portion of it which lay on the meridian of Madras with the Jubbulpore Meridional Series. The latter was commenced in the field season of 1864-65 under the direction of Mr. Shelverton, and by April 1866 had been carried as far south as the parallel of $20^{\circ} 30'$. In 1866-67 the principal triangulation was further extended by the same officer to the parallel of $18^{\circ} 35'$, and all the remaining stations selected in advance.

The party took the field in November, when Mr. Hickie was despatched to take up the approximate series which had reached the parallel of 20° . He had during the previous field season reconnoitered the country between the parallels of 19° and 20° , and was thus able soon after reaching his ground to select finally the stations of the Ankora and Burgpaili polygons, both of which appertain to the Jubbulpore

Season 1866-67.

PERSONNEL.

G. Shelverton, Esq., Assistant Surveyor.
 Mr. M. C. Hickie, Civil Assistant, 4th Grade.
 " F. Bell, Sub-Assistant, 1st "
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 " E. P. Wrixon, Probationary Sub-Assistant.

Meridional Series. He then suffered from a severe attack of malarious fever, which compelled him to seek medical aid at the civil station of Seroncha. After his recovery he selected the Katájpur-Bolikönda double polygon of the Bider Longitudinal Series, and the two quadrilaterals and the pentagon which belong to the Madras Meridional. He closed on the northernmost side of the latter, on the stations of Mániam and Dhúlipalla. The approximate series was thus completed, having been extended in this field season a direct distance of 245 miles.

On commencing operations in the following year a gap of about $2^{\circ} 10'$, between the parallels of $16^{\circ} 25'$ and $18^{\circ} 35'$, still remained to be finished, to connect the northern portion of this chain of triangles, which emanates from a side near Jubbulpore of the Calcutta Longitudinal Series, with the southern portion between Guntúr and Madras. As it was not deemed safe to march through the unhealthy forest tracts between the

Season 1867-68.

PERSONNEL.

G. Shelverton, Esq., Assistant Surveyor.
 Mr. M. C. Hickie, Civil Assistant, 4th Grade.
 " F. Bell, Sub-Assistant, 1st "
 " E. P. Wrixon, Probationary Sub-Assst.
 " A. C. Low, " "

Nerbudda (Narbadda) and Godávári rivers earlier than December, the party did not take the field till late. On the march down from Jubbulpore the *kahárs* or carriers engaged for the 36-inch theodolite deserted in a body at Nágpur, and a delay of ten days ensued: after crossing the Godávári, and entering the Hyderabad (Háidarabad) States, Mr. Shelverton was always supplied with as many carriers as he wanted by the officials of His Highness the Nizam. By the middle of March the Katájpur-Bolikönda double polygon of the Bider Longitudinal Series had been completed, and the triangulation of the Madras Meridional Series was then commenced. Many difficulties were caused by the great drought from which the country was suffering. The numerous tanks, upon which the inhabitants principally rely for the irrigation of their crops during the cold months, were in nearly all cases perfectly dry. The cultivation was restricted at each village to a field or two, watered from rude gaping wells nearly as wide as they are deep. At Anantagiri H.S., a hillock composed entirely of hard sandstone, there is a fort with an inner and outer wall, and water is to be found throughout nearly the whole year in the clefts and hollows of the rocks. At the foot of the hill there is a well with the inscription in the Tilingi character, stating that it was sunk in the year 1540 of the Hindu era of Salivahana (about 268 years ago) by a Chhatri Rája, and further that the sun was eclipsed that year. Between the stations of Anantagiri and Niálamari there is a strip of British territory containing about 80 villages. A metalled road runs through it from Masulipatam on the sea coast to Hyderabad.

The forts and fortifications to be met with in the portion of the Hyderabad territory, through which this series of triangulation passes, are attributed by the inhabitants to the Tilingána kings, who ruled the country prior to its conquest by the Muhammadans, and who

have left behind them traces of a high state of civilization. The present rulers have done nothing to improve the country. Their chief towns are simply a large collection of rude huts, but the people are contented with the Government.

The old Tilingána capital, Warangal, is full of interesting remains. The temples sacred to Mahádeo, built of massive stone with exquisitely carved interiors, are common enough in the country. His attendant bulls, some of them of life size, are cut with all their trappings out of single blocks of stone. Hanumkönda, a city that has sprung up outside the ruins of Warangal, contains a temple called the Hazár Khamb, so named from the thousand pillars that support it; this temple is also dedicated to Mahádeo, who is the principal divinity worshipped. The banks of the river Kistna were very little cultivated where the triangulation crossed over; slate crops up through the soil rendering it unfit for the plough. On the left bank of the river, skirting this tract of slate, there are some remarkable ruins, and numerous cromlechs.

On the 8th of April 1868, the party entered the Kistna district of the Madras Presidency, crossing the river Kistna at the Kollúr ford, where the bottom is shingly, and the water at this time of the year only knee-deep. At Miádarsál H.S., facing the delta of the Kistna river, Mr. Shelverton was delayed for the first time during the season by bad signals. During his stay here, a high wind prevailed from the south-west heavily laden with moisture. The northern face of the Miádarsál hill is very precipitous, while the southern face is fortified with a stone wall. From Miádarsál H.S. the party marched to Govindapuram where they encamped, and thence to Sárangapalle H.S. which is situated on a low plateau skirting the river Kistna. The inhabitants of our villages near the Hyderabad frontier were as a rule very surly, and presented a marked contrast to the rest of the people in the Kistna district, who were always willing to help the surveyors in every way. Mániam H.S., one of the stations of the closing side was next visited. There were some iron works at Göndlapalle, the nearest village, the ore being obtained in the neighbourhood. The furnace, which was shaped like a chimney, and perforated at intervals, was charged with alternate layers of wood, charcoal, and ore, till it was nearly full; the lowermost layer of charcoal was then ignited, and the furnace closed up for 15 hours. The result was a lump of metal weighing about twenty seers, and valued at two rupees. From Mániam the party proceeded to Kachalboru, the central station of the last figure. Here the natives of the establishment suffered to an alarming extent from an affection of the kidneys, accompanied by pains in the small of the back, and temporary stricture of the neck of the bladder, caused apparently by drinking the water of the village well, which must have held some caustic alkali in solution. The panic was indescribable, as hardly a man escaped. Voruvakallu H.S. was situated on the top of an almost perpendicular rock, and in order to take the instrument up to it, a strong rope ladder, with stout wooden rungs, was laid in zigzags, and well secured along the face of the hill. The season's work terminated at Dhúlipalla on the 1st May 1868. At both the stations of the closing side the upper mark-stones were found in position, and the pillars shewed no signs of having been tampered with. After closing operations, the party marched to recess at Waltair (Váltëru), in the Madras Presidency, reaching it on the 25th of May 1868. The route adopted was by Bëzváda, Ellore (Ellúru), and Rajahmundry.

On the completion of the Simultaneous Reduction of the Southern Trigon it was found that the errors which had actually been dispersed over the Madras Meridional Series between the origin Kándágotla-Adáligat and the terminus Nagari-Chěmbedu were as follows:—

In Logarithm of the latter side ...	...	= + 0.000,0018,1	or 0.26 inches per mile.
„ Azimuth „ „ ...	...	= - 1".723	
„ Latitude of Nagari ...	...	= - 0.044	
„ Longitude „ ...	...	= + 0.051	

The errors dispersed over the remaining portion of the Coast Series between the origin Sánjib-Dhár and the terminus Dhúlipalla-Ádamsáb were as follows:—

In Logarithm of the latter side ...	...	= - 0.000,0009,2	or 0.13 inches per mile.
„ Azimuth „ „ ...	...	= + 0".624	
„ Latitude of Dhúlipalla ...	...	= + 0.038	
„ Longitude „ ...	...	= + 0.002	

Secondary Triangulation.

A large amount of secondary triangulation was executed by the party employed on the Madras Meridional and Coast Series, for the purposes of fixing numerous points on the actual line of coast, and of laying down the courses of the Godávári and Kistna rivers. In 1861 Mr. Howard was employed in conducting a secondary series immediately along the sea coast in the neighbourhood of Vizagapatam. For a considerable distance he had hills and clear ground, and was able to proceed with great rapidity, but on approaching Cocanada (Kákináda) his progress was much retarded by having to clear every ray through very valuable ground, abounding in mango topes and palmyra trees. His triangles extended over a distance of 100 miles, defining the coast line well, and fixing the positions of the light-houses at Cocanada and Coringa (Körangi), points of nautical importance. In the same year Mr. Ellison carried a secondary chain westward from the principal series to fix the positions of Rajahmundry and Dowlaishweram (Dhavalésvaram). In the field season of 1862-63 the Madras Coast Party was employed on the measurement of the Vizagapatam Baseline, and no triangulation was carried out, but in the following year a considerable amount of secondary work was executed for the purpose of fixing the geographical position of Masulipatam, the light-houses and other points on the coast. Mr. Clarkson selected and observed the first six triangles of the Masulipatam and Point Devi Minor Series, starting from the sides Bězváda-Anantavaram-Gorantla, and having to trace and clear most of the rays: he was then succeeded in this work by Mr. Ryall, who in the course of the season, selected all the remaining stations of the series, forming 25 triangles, and extending 45 miles; the connection was made with Masulipatam and the Point Devi Light-house, though the delta of the Kistna is a very difficult country for triangulation, being overgrown with jungle and intersected

by water-courses and swamps in a deep alluvial soil. This series was completed in 1865-66 by Mr. Mitchell, the main portion of the party being employed on the Madras Longitudinal Series. In the same field season, the town of Nellore and the light-house of Pulicat were fixed by Mr. O'Neill; and in 1867-68 numerous points were determined by Mr. Shelverton near the meridian of 80° between the Godávári and Kistna rivers.

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MADRAS MERIDIONAL AND COAST SERIES.

PRINCIPAL TRIANGULATION. ALPHABETICAL LIST OF STATIONS.

Adakönda	LVI.	Gundálamma	XLV.
Adáligat	XV.	Gurramkönda	XXXVII.
(Of the Bider Longitudinal Series, South-East Quadrilateral).		Inupráyi	LXIV.
Ádamsáb	X.	Jammalavoidurgam	LXVII.
Anantagiri	I.	Jonangipálém	XLII.
Anantavaram	LXXI.	Jönnalagadda	LXX.
Anëpúdi	XXXIX.	Jujúrdurgam	LXVIII.
Aupád	LVIII.	Kachalboru	V.
Babbëpalle	XIII.	Kalimámidi	XLIX.
Bandalduru	XXXIV.	Kambákamdurgam	XLI.
Bandanchërla	LXI.	Kándágotla	XII.
Bëzváda	LXIX.	(Of the Bider Longitudinal Series, South-East Quadrilateral).	
Chákalakönda	XXVII.	Kappa	LII.
Chemakurti	XIX.	Kappakönda	XLVI.
Chëmbedu	XXXV.	Kayyúr	XXXVI.
(Of the Madras Longitudinal Series).		Kesavaram	XXVI.
Chikri	LXXV.	Kistama	XXXI.
Chintalapád	LXXII.	Kotapa	IX.
Dálgattu	LXV.	Kuchërla	XXIV.
Dánapa	XIV.	Lachmipuram	LV.
Darutippa	XXV.	Lagadapád	LXXIII.
Dhár	XXXIX.	Mániam	VIII.
(Of the Bider Longitudinal Series, South-East Quadrilateral).		Mëdaramëtla	XV.
Dhúlipalla	VII.	Miádarsál	III.
Dudugat	LXIII.	Nágal	XLVIII.
Elangoi	LI.	Nágaldurgam	LXII.
Faranguldinne	XVI.	Nagari	XXXIII.
Gorantla	LXXIV.	(Of the Madras Longitudinal Series).	
Gudali	XXXVIII.		

PRINCIPAL TRIANGULATION. ALPHABETICAL LIST OF STATIONS—(Continued).

Nallakönda	L.	Pothkönda	LIV.
Náwilmëtta	LIII.	Puripád	XXI.
Netivaripálëm	XX.	Rájalli	XXVIII.
Niálamari	II.	Rëttambedu	XLIV.
Nishánbodu	XXIX.	Sánjib	XXI.
Nishánkönda	XXII.	(Of the Bider Longitudinal Series, South-East Quadrilateral).	
Ongole	XVIII.	Sárangapalle	IV.
Pagulráyi	XLVII.	Sudkönda	LIX.
Pálapáru	XII.	Voruvakallu	VI.
Pálchërla	XXXV.	Vutukúr	XXXIII.
Pallakönda	XXXII.	Yëdlagattu	LVII.
Parampúdi	LX.	Yerpet	XLIII.
Pëddakaltippa	XVII.	Yërragattu	LXVI.
Pichërla	XXIII.	Yërrakönda	XI.
Pillimedu	XL.	Yërrakönda	XXX.

MADRAS MERIDIONAL AND COAST SERIES.

PRINCIPAL TRIANGULATION. NUMERICAL LIST OF STATIONS.

XII	} Of the Bider Longitudinal Series, { South-East Quadrilateral.	Kándágotla.	XXVI	.	.	.	.	.	Kesavaram.
XV		Adáligat.	XXVII	.	.	.	.	.	Chákalakönda.
I	.	Anantagiri.	XXVIII	.	.	.	.	.	Rájalli.
II	.	Niálamari.	XXIX	.	.	.	.	.	Nishánbodu.
III	.	Miádarsál.	XXX	.	.	.	.	.	Yërrakönda.
IV	.	Sárangapalle.	XXXI	.	.	.	.	.	Kistama.
V	.	Kachalboru.	XXXII	.	.	.	.	.	Pallakönda.
VI	.	Voruvakallu.	XXXIII	.	.	.	.	.	Vutukúr.
VII	.	Dhúlipalla.	XXXIV	.	.	.	.	.	Bandalduru.
VIII	.	Mániam.	XXXV	.	.	.	.	.	Pálchërla.
IX	.	Kotapa.	XXXVI	.	.	.	.	.	Kayyúr.
X	.	Ádamsáb.	XXXVII	.	.	.	.	.	Gurramkönda.
XI	.	Yërrakönda.	XXXVIII	.	.	.	.	.	Gudali.
XII	.	Pálapáru.	XXXIX	.	.	.	.	.	Áněpúdi.
XIII	.	Babbëpalle.	XL	.	.	.	.	.	Pillimedu.
XIV	.	Dánapa.	XLI	.	.	.	.	.	Kambákamdurgam.
XV	.	Medaramëtla.	XLII	.	.	.	.	.	Jonangipálëm.
XVI	.	Faranguldinne.	XLIII	.	.	.	.	.	Yerpet.
XVII	.	Pëddakaltippa.	XLIV	.	.	.	.	.	Rëttambu.
XVIII	.	Ongole.	XXXIII	} Of the Madras Longitudinal Series. {	.	.	.	.	Nagari.
XIX	.	Chemakurti.	XXXV	
XX	.	Netivaripálëm.	XXXIX	} Of the Bider Longitudinal Series, { South-East Quadrilateral.	.	.	.	.	Dhár.
XXI	.	Puripád.	XLI	
XXII	.	Nishánkönda.	XLV	.	.	.	.	.	Gundálamma.
XXIII	.	Pichërla.	XLVI	.	.	.	.	.	Kappakönda.
XXIV	.	Kuchërla.	XLVII	.	.	.	.	.	Pagulráyi.
XXV	.	Darutippa.	XLVIII	.	.	.	.	.	Nágal.

MADRAS MERIDIONAL AND COAST SERIES.

PRINCIPAL TRIANGULATION. NUMERICAL LIST OF STATIONS—(Continued).

XLIX	Kalimámidí.	LXIII	Dudugat.
L	Nallakönda.	LXIV	Inupráyi.
LI	Elangoi.	LXV	Dálgattu.
LII	Kappa.	LXVI	Yërragattu.
LIII	.	.	.	.	.	Náwilmëtta.	LXVII	.	.	.	.	Jammalavoidurgam.
LIV	.	.	.	.	.	Pothkönda.	LXVIII	.	.	.	.	Jujúrdurgam.
LV	.	.	.	.	.	Lachmipuram.	LXIX	.	.	.	.	Bëzváda.
LVI	.	.	.	.	.	Adakönda.	LXX	.	.	.	.	Jönnalagadda.
LVII	.	.	.	.	.	Yëdlagattu.	LXXI	.	.	.	.	Anantavaram.
LVIII	.	.	.	.	.	Aupád.	LXXII	.	.	.	.	Chintalapád.
LIX	.	.	.	.	.	Sudkönda.	LXXIII	.	.	.	.	Lagadapád.
LX	.	.	.	.	.	Parampúdi.	LXXIV	.	.	.	.	Gorantla.
LXI	.	.	.	.	.	Bandanchërla.	LXXV	.	.	.	.	Chikri.
LXII	.	.	.	.	.	Nágaldurgam.						

MADRAS MERIDIONAL AND COAST SERIES.

DESCRIPTION OF PRINCIPAL STATIONS.



The Principal Stations of this Series as well as six others of the Bider and Madras Longitudinal Series, which are common to this Series, are generally situated on hills or rising ground. With certain exceptions noted below, each consists of a solid, circular and isolated pillar of masonry about $3\frac{1}{2}$ feet in diameter and varying from 1 to 14 feet in height. In the centre and upper surface of the pillar a mark (circle and dot) engraved on a stone is imbedded in the normal of one or more similar marks inserted within the pillar, the lowermost in many instances being cut on the rock *in situ*. Around the pillar and level with its upper surface, a solid platform of stones, of stones and earth, or of sun-dried bricks, 14 to 17 feet square, has been built for the accommodation of the observatory tent. The exceptions are the following:—Stations numbered XLIV, LII, as well as XXXV of the Madras Longitudinal Series: the first and third of these consist of high perforated pillars of masonry, surrounded by towers of sun-dried bricks for the observatory tent to rest on, both the central pillar and tower having an aperture at the base for access to the ground level mark: and the second is simply denoted by a circle and dot cut on a large mass of a rock.

A few stations at which observations were taken subsequent to the year 1867, have their upper marks protected by small pillars of masonry in the form of a frustum of a pyramid about 28 inches square at base and 20 inches at top and $3\frac{1}{2}$ feet in height. These protecting pillars carry sufficiently accurate marks on their upper surfaces for Topographical and Revenue Survey purposes, as shewn at page 74 of Volume II of the *Account of the Operations &c.*

The following descriptions have been compiled from those given by the officers who executed the Series, supplemented in the majority of cases, as regards adjacent villages and places, from the Madras Revenue Survey Maps (scale 1 Inch = 1 Mile) of the country traversed, and corrected, so far as the local sub-divisions in which the several stations are situated, from the Annual Returns furnished by the district officers to whose charge the stations are committed.

The orthography is based on the official lists published under the orders of the Government of India, except that the long *é* is unaccented as in all previous volumes of this series, but the short *e* is shewn thus, *ě*; the same remarks apply to *o*. Final vowels and those in well-known terminals are unaccented. When the popular spelling of a name has been accepted by Government its correct orthography is given in parenthesis where the name occurs for the first time.

XII. (*Of the Bider Longitudinal Series*). Kándágatla Hill Station, lat. $17^{\circ} 18'$, long. $79^{\circ} 40'$ —observed at in 1868—is situated on a very conspicuous hill lying about $1\frac{3}{4}$ miles N.N.W. of the village of Kándágatla. It is built on the site of an old station, probably Colonel Lambton's "Kundagutt." The station is in the lands of the village of Kándágatla, taluk Nalgönda, Nizám's territories.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one imbedded in the upper surface of the pillar and the other 2.0 feet below it. The azimuths and distances of the following villages are:—Singavaram $245^{\circ} 44'$, miles 2.34; and Komalo $136^{\circ} 9'$, miles 2.8.

XV. (*Of the Bider Longitudinal Series*). Adáligat Hill Station (also called Idáligattu), lat. $17^{\circ} 22'$, long. $79^{\circ} 58'$ —observed at in 1868—is on a hill lying about 3 miles N.E. of the village of Súbler. The station occupies the site of an old platform supposed to be a secondary station of the old Hyderabad (Haidarabad) Topographical Survey. It is in the lands of the village of Abiápálëm, taluk Súbler, Nizám's territories.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 4 feet above it on a stone imbedded flush with the upper surface of the pillar. The azimuths and distances of the following villages are:—Abiápálëm $144^{\circ} 8'$, miles 1.32; and Mamudapuram $34^{\circ} 3'$, miles 1.30.

I. Anantagiri Hill Station, lat. $17^{\circ} 3'$, long. $80^{\circ} 2'$ —observed at in 1868—is situated on a sandstone hill which rises over the village of Anantagiri: the summit of the hill is fortified with an inner and outer wall. The station is about 30 feet N. of Colonel Lambton's station of "Anantageeree" and lies about 4 miles N.E. by

E. of Kumárabanda on the high road from Hyderabad to Masulipatam (Machilípatnam). It is in the lands of the village of Anantagiri, taluk Niálaköndapalle, Nizám's territories.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one imbedded flush with the upper surface of the pillar and the other 2.75 feet below it. The azimuths and distances of the circumjacent villages are:—Aminabada $112^{\circ} 35'$, miles 1.42; Vēnkatapuram $51^{\circ} 50'$, miles 2.24; Anantagiri $97^{\circ} 5'$, mile 0.31; and Khodandu $24^{\circ} 49'$, miles 4.6.

II. Niálamari Hill Station, lat. $17^{\circ} 2'$, long. $79^{\circ} 46'$ —observed at in 1868—is on a hill about 7 miles W. of the village of Bírakhodagúđēm on the high road from Hyderabad to Masulipatam. It is on the site of an old station, probably Colonel Lambton's "Nealamurree." It is in the lands of the village of Malkapuram, taluk Nalgönda, Nizám's territories.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it on a stone imbedded flush with the upper surface of the pillar. The azimuths and distances of the circumjacent villages are:—Niálamari $251^{\circ} 57'$, miles 2.45; Chidalla $270^{\circ} 34'$, miles 3.57; Malkapuram $277^{\circ} 1'$, miles 1.97; and Suráyapet $136^{\circ} 25'$, miles 9.8.

III. Miádarsál Hill Station, lat. $16^{\circ} 42'$, long. $80^{\circ} 6'$ —observed at in 1868—is on about the highest part of a very conspicuous range of hills on the right bank of the Kistna (Krishna) river, and $9\frac{1}{2}$ miles S. by W. of the large village of Jaggayapet. The summit of the hill is fortified with a dry stone wall. The station is on the site of an old platform supposed to be of some former survey. It is in the lands of the village of Pulichinta, taluk Sattēnapalle, district Kistna.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 14 inches above it on a stone imbedded flush with the upper surface of the pillar. The azimuths and distances of the circumjacent villages are:—Kollúr (No. 1) $83^{\circ} 41'$, miles 2.24; Kollúr (No. 2) $98^{\circ} 28'$, miles 2.57; Pulichinta $152^{\circ} 56'$, miles 2.15; Vēlatúr $105^{\circ} 58'$, miles 2.83; and Udalúr $74^{\circ} 15'$, miles 7.2.

IV. Sárangapalle Hill Station, lat. $16^{\circ} 41'$, long. $79^{\circ} 48'$ —observed at in 1868—is situated on a low flat-topped hill lying about 2 miles S. of the right bank of the Kistna river, and 7 miles N.E. by N. of Dáche-palle, a village a little S. of the high road from Hyderabad to Nellore (Nēllúr). The station is about $\frac{1}{2}$ a mile N. of an old platform supposed to be Colonel Lambton's "Sarangapully." It is in the lands of the village of Sárangapalle, taluk Palnáđ, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one on a stone imbedded flush with the upper surface of the pillar and the other about 5 feet below it. The directions and distances of the circumjacent villages are:—Sárangapalle S.E. by S., miles $2\frac{1}{2}$; Madinapád S. by W., miles $3\frac{1}{2}$; Bhattupálēm W. by S., miles 3; and Tangudda E.S.E., miles 5.

V. Kachalboru Hill Station, lat. $16^{\circ} 31'$, long. $80^{\circ} 1'$ —observed at in 1868—is on a hill about $6\frac{1}{2}$ miles E.N.E. of the village of Pidugurala on the high road from Hyderabad to Nellore, and $2\frac{1}{2}$ miles N.W. of Bellamkönda. A peak of the same range somewhat higher than the station is about $\frac{1}{4}$ of a mile to the N.E. The station is in the lands of the village of Macháyapálēm, taluk Sattēnapalle, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it on a stone imbedded flush with the upper surface of the pillar. The azimuths, directions and distances of the circumjacent villages are:—Macháyapálēm $303^{\circ} 49'$, miles 1.38; Nandirazupálēm $334^{\circ} 54'$, miles 2.06; Nagirēddipálēm $344^{\circ} 42'$, miles 2.86; Kananki W. by S., miles $3\frac{1}{2}$; and Papáyapálēm N.N.W., miles $2\frac{1}{2}$.

VI. Voruvakallu Station, lat. $16^{\circ} 36'$, long. $80^{\circ} 12'$ —observed at in 1868—is situated on the highest part of a remarkable rock overlooking the village of Voruvakallu which lies at its northern foot. It is about $3\frac{1}{2}$ miles W. of the village of Kasala on the right bank of the Kistna river. The station is in the lands of the village of Voruvakallu, taluk Sattēnapalle, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other about 1 foot above it on a stone imbedded flush with the upper surface of the pillar. The azimuths, directions and distances of the circumjacent villages are:—Rudravaram $175^{\circ} 38'$, miles 0.51; Voruvakallu $143^{\circ} 47'$, mile 0.04; Kanúr $249^{\circ} 42'$, miles 1.81; Grandisiri S.S.W., miles $1\frac{1}{2}$; and Ambatipúdi N. by E., miles 2.

VII. Dhúlipalla Station, lat. $16^{\circ} 26'$, long. $80^{\circ} 8'$ —observed at in 1863 and 1868—is on high ground in the midst of fields and lies about $4\frac{3}{4}$ miles N.W. by W. of the taluk town of Sattēnapalle on the high road from Hyderabad to Guntúr, and the same distance N.N.W. of the large village of Madala. It is in the lands of the village of Dhúlipalla, taluk Sattēnapalle, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are three mark-stones, one imbedded in the soil and two others at 3 and 5 feet above it, the last being flush with the upper surface of the pillar. When visited in 1868, the upper mark-stone was found undisturbed. The directions and distances of the circumjacent villages are:—Bhrugubanda N. by E., miles $1\frac{1}{2}$; Dhúlipalla S. by W., miles $1\frac{1}{2}$; Makkapád N.W., miles $2\frac{1}{2}$; Rēddigúđēm W. by N., miles $2\frac{1}{2}$; and Tōndapi S.W. by S., miles $3\frac{1}{2}$.

VIII. Mániam Hill Station, lat. $16^{\circ} 22'$, long. $79^{\circ} 55'$ —observed at in 1863 and 1868—is on a range of rocky hills covered with brushwood and lies about 6 miles N.W. by N. of the large village of Vipparla

and 5 miles S.S.W. of Pëddanevalipuri both on the high road from Nellore to Hyderabad. It is in the lands of the village of Gattapalle, taluk Sattënapalle, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1 foot above it on a stone imbedded flush with the upper surface of the pillar. When visited in 1868, the upper mark-stone was found undisturbed. The directions and distances of the circumjacent villages are:—Narasingapád N.E. by E., miles $2\frac{1}{2}$; Gattapalle N. by W., miles $2\frac{1}{2}$; Challaguntla E. by S., miles $5\frac{1}{2}$; Chijërla S.S.W., miles $4\frac{1}{2}$; and Nekarikallu E. by S., miles 4.

IX. Kotapa Hill Station, lat. $16^{\circ} 9'$, long. $80^{\circ} 5'$ —observed at in 1863—is from 20 to 30 feet east of a small shrine consisting of a heap of stones which occupies the highest part of a hill lying $5\frac{3}{4}$ miles S. by W. of the taluk town of Narsaraöpet on the high road from Hyderabad to Parachúr, and $6\frac{1}{2}$ miles N.W. of the town of Rájapet on the high road from Vinukönda to Guntúr. It is identical with Colonel Lambton's "Yellamundah," the circle and dot mark of which was found engraved on the rock *in situ* and was adopted as the lower mark of the present station. It is in the lands of the village of Ëllamanda, taluk Narsaraöpet, district Kistna.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 7 inches above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Ëllamanda N.E. by N., mile 1; Pëtlurivaripálëm W.N.W., miles $2\frac{1}{2}$; Köndakávúr S.W. by S., miles 2; Ëdavalli S.S.E., miles $4\frac{1}{2}$; and Tangedupalle S.W. by W., miles $3\frac{1}{2}$.

X. Ádamsáb Hill Station, lat. $16^{\circ} 15'$, long. $80^{\circ} 20'$ —observed at in 1862 and 1863—is on the site of an old Topographical Survey Station on the highest peak of a group of hills which lies about $10\frac{1}{2}$ miles W. by S. of the town of Guntúr and $2\frac{3}{4}$ miles S.E. by S. of the village of Phirangipuram on the high road from Narsaraöpet to Guntúr. The hill is well known from a shrine close to the station, built over what is considered by the natives to be a print of Adam's foot in the solid rock: there are also two small stone buildings close to the summit built evidently for pilgrims. On another part of the hills and above the village of Köndavid are the ruins of a large fort. The summit of the hill consists of an enormous mass of nearly bare granite rock which rises perpendicularly from the S. and W. sides of the hill. The station is in the lands of the village of Köndavid, taluk Narsaraöpet, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1 foot above it on a stone imbedded flush with the upper surface of the pillar. When visited in 1863, the station mark was found intact. The directions and distances of the circumjacent villages are:—Chávadavaram E. by S., miles $3\frac{1}{2}$; Ënamadala S.E. by E., miles $3\frac{1}{2}$; Köndavid W.N.W., miles $1\frac{1}{2}$; and Hávujuganisëm N.W. by W., miles $1\frac{1}{2}$.

XI. Yërrakönda Hill Station, lat. $16^{\circ} 6'$, long. $79^{\circ} 45'$ —observed at in 1862—is situated on a hill lying about 4 miles N.W. by N. of the taluk town Vinukönda on the high road from Kurnool (Karnúl) to Guntúr, and $3\frac{1}{2}$ miles W.S.W. of the large village of Köndramutla. It is in the lands of the village of Vënkupálëm, taluk Vinukönda, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1 foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Tállapálëm E.S.E., miles $1\frac{1}{2}$; Vënkupálëm S.S.E., miles $1\frac{1}{2}$; Përúrpád W., miles $3\frac{1}{2}$; Vëlatúr W.N.W., miles $3\frac{1}{2}$; and Sariköndapálëm N.W. by N., miles $1\frac{1}{2}$.

XII. Pálapáru Station, lat. $16^{\circ} 3'$, long. $80^{\circ} 19'$ —observed at in 1864—is situated about $5\frac{3}{4}$ miles N. of the large village of Parachúr and $3\frac{3}{4}$ miles W. by S. of Pëddanandipád both on the high road from Ongole (Vangol) to Guntúr. It is in the lands of the village of Pálapáru, taluk Bápatla, district Kistna.

The station consists of a platform of earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one imbedded in the soil and the other 2 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Pálapáru N.E. by E., mile $\frac{3}{4}$; Anavaram N. by W., miles $2\frac{1}{2}$; Uppalapád N.W. by W., miles 3; Ëdupád W.S.W., miles $1\frac{1}{2}$; and Inagallu S.E., miles $1\frac{1}{2}$.

XIII. Babbëpalle Hill Station, lat. $15^{\circ} 57'$, long. $80^{\circ} 10'$ —observed at in 1863—is situated on the summit of a hill $\frac{3}{4}$ of a mile W.S.W. of the village of Babbëpalle on the high road from Ongole to Guntúr, and $2\frac{3}{4}$ miles S.E. by S. of the large village of Márutúr. It is in the lands of the village of Babbëpalle, taluk Narsaraöpet, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one on a stone imbedded flush with the upper surface of the pillar and the other 1 foot below it; the latter mark of a circle and a dot was found *in situ* covered over by a pile of stones. The directions and distances of the circumjacent villages are:—Dronádula S.S.E., miles $2\frac{1}{2}$; Punúr E. by S., miles $2\frac{1}{2}$; Jönnatali W. by S., miles 2; and Darisa W. by S., miles $3\frac{1}{2}$.

XIV. Dánapa Hill Station, lat. $15^{\circ} 56'$, long. $79^{\circ} 59'$ —observed at in 1862 and 1863—is situated on a range of hills lying nearly N. and S. and about $1\frac{1}{2}$ miles W. of the high road from Madras to Hyderabad. The station is not on the highest peak of the hill, that being taken up by a place of worship. It is in the lands of the village of Görepád, taluk Narsaraöpet, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1 foot above it on a stone imbedded flush with the upper sur-

face of the pillar. When visited in 1863, the station was found intact. The directions and distances of the circumjacent villages are:—Kappërapád E., miles $1\frac{3}{4}$; Vaidana N.E., miles $2\frac{3}{4}$; Kukutlapalle N., miles 2; Görüpád W. by S., miles $2\frac{1}{2}$; and the place of worship on the summit of the hill is N. by W. at a distance of about 150 to 200 yards.

XV. Medaramëtla Hill Station, lat. $15^{\circ} 44'$, long. $80^{\circ} 3'$ —observed at in 1864—is on a low hill, near large boulders irregularly piled up, about $\frac{1}{2}$ mile W. of the high road from Madras to Hyderabad, and 6 miles S.S.E. of the town of Addanki on the high road. It is in the lands of the village of Medaramëtla, taluk Ongole, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one on a stone imbedded flush with the upper surface of the pillar and the other 1 foot below it. The directions and distances of the circumjacent villages are:—Tamavaram W.S.W., miles $2\frac{1}{2}$; Anamanamúr W. by N., miles $2\frac{1}{2}$; Medaramëtla E.S.E., miles $1\frac{1}{2}$; and Timanapálém S.S.E., miles 3.

XVI. Faranguldinne Station, lat. $15^{\circ} 41'$, long. $80^{\circ} 15'$ —observed at in 1864—is situated on the western side of a creek or inlet of the sea, on the site of an old town said to have been a French colony or trading port, about 4 miles from the sea coast. Excepting at very low spring tides there is uninterrupted communication with the sea. The station is about $\frac{1}{4}$ of a mile E. of the high road from Ongole to Bápatla, and is in the lands of the village of Pëddaganjám, taluk Bápatla, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one in the foundation and the other 2 feet above it imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Mattigunta N.W. by W., miles $2\frac{3}{4}$; Nitiápálém S.W. by W., miles 2; Pëddaganjám S.E. by S., miles $2\frac{3}{4}$; Razuvaripálém E.S.E., miles $1\frac{1}{2}$; and Chinnaganjám E.N.E., miles $2\frac{1}{2}$.

XVII. Pëddakaltippa Hill Station, lat. $15^{\circ} 50'$, long. $79^{\circ} 46'$ —observed at in 1864—is situated on the top of a rocky hillock lying about $4\frac{3}{4}$ miles N.E. by N. of the town of Darsi, and $1\frac{1}{2}$ miles W.N.W. of the village of Kalampilli. It is in the lands of the village of Timáyapálém, division Darsi, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 1 foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Basavapuram S. by E., miles 2; Timáyapálém W., miles $3\frac{1}{2}$; Polavaram W. by N., miles $3\frac{1}{2}$; and Devavaram N.W. by N., miles 2.

XVIII. Ongole Hill Station, lat. $15^{\circ} 30'$, long. $80^{\circ} 5'$ —observed at in 1864—is situated on a low hill about 200 feet in height, lying immediately W.S.W. of the taluk town of Ongole, and $\frac{3}{4}$ of a mile W. of the road from Nellore to Ongole. It is in the lands of the town of Ongole, taluk Ongole, district Nellore.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Anavaripud E.S.E., mile 1; Perana Mitta N.W., miles $3\frac{1}{2}$; Mámidipálém S.S.W., mile $\frac{1}{2}$; and Guddalaguntapálém N.W., mile $\frac{1}{2}$.

XIX. Chemakurti Hill Station, lat. $15^{\circ} 37'$, long. $79^{\circ} 52'$ —observed at in 1864—is on a high hill $3\frac{1}{2}$ miles N.W. of the village of Chemakurti on the road from Ongole to Cumbum (Kambham), and about 12 miles from the former town. It is in the lands of the village of Chemakurti, taluk Ongole, district Nellore.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on a block of disrupted rock and the other 1 foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Puligönda S.S.W., miles 5; Padamatti Niyanipád E. by S., miles $3\frac{3}{4}$; and Köndúrivari E.S.E., miles 4.

XX. Netivaripálém Station, lat. $15^{\circ} 23'$, long. $79^{\circ} 51'$ —observed at in 1864—is situated on an open swell of ground, about $7\frac{1}{2}$ miles N. of Pönnalúr on the road from Kanigiri to Kandukúr, and $3\frac{3}{4}$ miles N.E. of Pachave on the Páler river. It is in the lands of the village of Netivaripálém, taluk Kandukúr, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one in the foundation and the other 1 foot above it imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Netivaripálém E., miles $1\frac{1}{2}$; Vardinenipálém W. by S., miles $3\frac{1}{2}$; Pëddakandlagunta N. by W., miles $1\frac{3}{4}$; Köndapi N.E. by E., miles 4; and Ilavara Bechiragh E. by S., miles $1\frac{1}{2}$.

XXI. Puripád (also called Ogúr Bëllatippa) Station, lat. $15^{\circ} 14'$, long. $80^{\circ} 1'$ —observed at in 1864—is situated about 5 miles E.N.E. of the taluk town of Kandukúr and $\frac{1}{2}$ a mile S. of the road from Kandukúr to the sea coast. It is in the lands of the village of Pálakúr, taluk Kandukúr, district Nellore.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are three mark-stones, one imbedded flush with the upper surface of the pillar and two others at 5.9 and 6.9 feet respectively below it. The directions and distances of the circumjacent villages are:—Vogúr S.W. by W., miles $1\frac{3}{4}$; Pálakúr N.W., miles $2\frac{3}{4}$; Kanumalla N.E. by E., miles $1\frac{3}{4}$; Singaráyakönda E. by S., miles $3\frac{1}{2}$; and Sanampúdi S.S.E., miles 2.

XXII. Nishánkönda Hill Station, lat. $15^{\circ} 31'$, long. $79^{\circ} 37'$ —observed at in 1864—is situated on a peak of the Pödili hill; the higher peak of Bulímure on the same hill is about 200 or 300 yards N. of the station, but being inaccessible the station was not fixed on it. The station is $6\frac{1}{2}$ miles S.S.W. of Pödili on the road from Cumbum to Ongole, and is on the site of an old Topographical Survey station of which the platform only was found. It is in the lands of the village of Pëdda Arikatla, division Pödili, district Nellore.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 1 foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Yēdāvali S.W., miles $4\frac{1}{4}$; Pēdda Arikatla W., miles $3\frac{1}{2}$; Chinna Arikatla N.W., miles 4; and Maripūdi E. by S., miles 5.

XXIII. Pichērla Hill Station, lat. $15^{\circ} 12'$, long. $79^{\circ} 34'$ —observed at in 1864—is on the higher and most southern point of a hill about $6\frac{1}{4}$ miles S.W. by S. of Chērlapalle and $4\frac{3}{4}$ miles W. of Pēdda Irlapād. The station is on the site of Colonel Lambton's "Peecherlacondah," but no mark was found. It is in the lands of the village of Chintagumpalle, taluk Kanigiri, district Nellore.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ*, corresponding as nearly as possible to the centre of the pile of stone of Colonel Lambton's station, and the other 1 foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Nasika Trigambākam W., miles $2\frac{3}{4}$; Ballipalle N.W., miles $4\frac{1}{4}$; and Pillapalle E., miles $3\frac{1}{2}$.

XXIV. Kuchērla Hill Station, lat. $15^{\circ} 6'$, long. $79^{\circ} 44'$ —observed at in 1864—is on the S.E. end of the Chundi and Mallākōnda hills and is 5 miles S. by E. of Chundi and 2 miles W. by N. of the large village of Lingasamudram. It is in the lands of the village of Lingasamudram, taluk Kandukūr, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Zamgamrēddipālēm E. by N., miles $1\frac{1}{2}$; Vakamallāvaripālēm S.E. by E., miles 2; Metrala S.E. by S., miles $2\frac{1}{2}$; and Yērraparēddipalle N. by E., miles $1\frac{1}{2}$.

XXV. Darutippa (also called Mangalapāpēmtippa) Station, lat. $15^{\circ} 1'$, long. $79^{\circ} 58'$ —observed at in 1864—is about $4\frac{1}{4}$ miles S. by E. of the village of Gudlūr, and $6\frac{1}{4}$ miles W.S.W. of Tēttu on the road from Madras to Ongole. It is in the lands of the village of Chalamchērla, taluk Kandukūr, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are five mark-stones, one imbedded in the upper surface of the pillar and four others at 2, 6, 10 and 12.56 feet respectively below it. At the time that the observations were taken the uppermost mark was tested by means of the four pickets fixed at the distance of 50 yards, N., S., E. and W., and was found to be deflected 1 inch to N. of the lowest mark. The observations are referred to the uppermost mark. The directions and distances of the circumjacent villages are:—Pēddavaram S.W. by S., miles $1\frac{1}{2}$; Chalamchērla S.E., miles 3; Ammavaripālēm W. by N., miles $1\frac{1}{2}$; and Potlūr N.E. by N., miles 3.

XXVI. Kesavaram Station, lat. $14^{\circ} 55'$, long. $79^{\circ} 52'$ —observed at in 1864—is on a mound $4\frac{1}{2}$ miles N.N.W. of Chinnakraka village on the road from Udayagiri to Kāvāli, and $3\frac{1}{2}$ miles W. of Gattupalle. It is in the lands of the village of Kesavaram, taluk Kāvāli, district Nellore.

The station consists of a platform partly of wood and partly of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter at top in which are six mark-stones, one imbedded flush with the upper surface of the pillar and five others at 2.2, 4.2, 5.31, 7.31 and 9.51 feet respectively below it. The directions and distances of the circumjacent villages are:—Kumārakōndūr S.S.W., miles $4\frac{1}{2}$; Kakutūr S.W., miles $4\frac{3}{4}$; Timasamudram W.S.W., miles $2\frac{1}{2}$; and Anavaram S.E. by S. miles $3\frac{1}{2}$.

XXVII. Chākalakōnda (also called Aravikōnda or Adivikōnda) Hill Station, lat. $14^{\circ} 57'$, long. $79^{\circ} 33'$ —observed at in 1864—is on a small isolated hill lying $\frac{3}{4}$ mile S. by W. of Chākalakōnda (washermen's hill) village and 4 miles S.W. by S. of the large village of Garimanapēnta. It is in the lands of the village of Chākalakōnda, taluk Udayagiri, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it and level with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Kōttapet S.W. by W., miles 3; Kaniyem-pād W.N.W., miles $4\frac{3}{4}$; Ganesapuram N. by W., miles $2\frac{1}{2}$; and Bottinavaripalle E. by N., mile $\frac{3}{4}$.

XXVIII. Rājalli Hill Station, lat. $14^{\circ} 43'$, long. $79^{\circ} 39'$ —observed at in 1864—is on the site of a Topographical Survey station as denoted by a pile of stones in which no mark was found. The station is on a low hill lying $\frac{3}{4}$ of a mile S.E. of the village of Rājāvol and $4\frac{1}{2}$ miles N. of the hamlet of Nēllūrpālēm on the road from Nellore to Cuddapah. It is in the lands of the village of Rājāvol, taluk Atmakūr, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* (about the centre of the pile of stones) and the other 2.04 feet above it and level with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Pamidipād S. by W., miles $2\frac{1}{2}$; Dubagunta N.W., miles $3\frac{3}{4}$; Chāvatabhīmavaram N.E. by N., miles $2\frac{3}{4}$; and Punugod S.E. by S., miles $1\frac{1}{2}$.

XXIX. Nishānbodu Hill Station, lat. $14^{\circ} 42'$, long. $79^{\circ} 58'$ —observed at in 1864—is on the top of a low range of hills on the boundary of the villages of Yēllapod, Damavaram and Dagadarti. It is in the lands of the village of Yēllapod, taluk and district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter, containing marks one of which is level with the upper surface of the pillar, but the number and positions of the others are unknown. The directions and distances of the circumjacent villages are:—Dagadarti S. by W., miles $2\frac{1}{2}$; Yēllapod W. by S., miles $1\frac{1}{2}$; Kamuenipād N.W. by N., miles $1\frac{1}{2}$; and Damavaram E. by N., miles $2\frac{1}{2}$.

XXX. Yērrakōnda (also locally known as Gúdarikopu) Hill Station, lat. $14^{\circ} 43'$, long. $79^{\circ} 18'$ —observed at in 1864—is on a detached range of hills about 1500 feet high $5\frac{1}{2}$ miles E. by N. of the junction of roads

from Udayagiri and Atmakúr to Cuddapah (Kadapa). The station is identical with Colonel Lambton's "Yerracondah," the circle and dot of which were found in the remains of the old platform. It is in the lands of the village of Singanapalle, taluk Udayagiri, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one the old mark of Colonel Lambton's station and the other 2 feet above it on a stone embedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Singanapalle W. by S., miles $2\frac{1}{4}$; Brahmanapalle N.N.W., miles $2\frac{3}{4}$; Pegallapád N.E. by E., miles 4; and Chunchulúr S. by E., miles $5\frac{1}{2}$.

XXXI. Kistama Hill Station, lat. $14^{\circ} 27'$, long. $79^{\circ} 48'$ —observed at in April and December 1864—is on the top of Kistama hill. It is in the lands of the village of Prabhagiripatnam, taluk Atmakúr, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 2.6 feet above it and level with the upper surface of the pillar. When visited in December 1864, the station was found in perfect preservation and no alteration was made in its construction. The directions and distances of the circumjacent villages are:—Prabhagiripatnam W. by N., mile $\frac{1}{2}$; Navuru W.N.W., miles $5\frac{1}{2}$; Bhattulapalle N.W. by N., miles $5\frac{1}{2}$; and Tatiparti N. by E., miles $4\frac{1}{2}$.

XXXII. Pallakōnda Hill Station, lat. $14^{\circ} 24'$, long. $79^{\circ} 30'$ —observed at in April and December 1864—is $2\frac{3}{4}$ miles S.W. by W. of the village of Pallakōnda on one of a group of hills lying 7 miles E. of the main range of the Eastern Gháts. It is in the lands of the village of Pallakōnda, taluk Rápur, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter and 2 feet high in which are two marks, one on a stone imbedded in the upper surface of the pillar and the other at an unknown distance below it. On the second visit the station was found in perfect order. The directions and distances of the circumjacent villages are:—Garimanapēnta S. by W., miles $1\frac{1}{2}$; Tegachērla W. by S., miles $3\frac{1}{2}$; and Kotúrpallo W. by N., miles $4\frac{1}{2}$.

XXXIII. Vutukúr or Udkúr Hill Station, lat. $14^{\circ} 14'$, long. $79^{\circ} 45'$ —observed at in 1865—is on the summit of a small rocky hill 5 miles N.W. by N. of the large village of Saidápuram on the main road from the town of Rápur to Gudúr, and $2\frac{1}{4}$ miles S. of the Pēnner river. It is in the lands of the village of Vutukúr, taluk Rápur, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 3 feet above it on a stone imbedded level with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Pērumallapád N.W., mile $\frac{3}{4}$; Turimērla N.E., miles $3\frac{1}{4}$; Vutukúr E. by S., miles $2\frac{1}{4}$; Jafalapuram S. by E., miles $1\frac{1}{2}$; and Chaganam S.W. by S., miles $2\frac{1}{2}$.

XXXIV. Bandalduru Station, lat. $14^{\circ} 18'$, long. $79^{\circ} 59'$ —observed at in 1865—is on a mound of earth, excavated from a tank on the high ground, about $2\frac{1}{3}$ miles W.N.W. of the village of Sarvapalle, $4\frac{1}{2}$ miles W.S.W. of Anakápalle and 2 miles S.S.E. of Vēnkalachalam Chattram on the high road from Gudúr to Guntúr. It is in the lands of the village of Gudúr, taluk Gudúr, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two mark-stones, one in the foundation and the other 2 feet above it imbedded in the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Tikkavarappan N.E. by E., miles $1\frac{1}{2}$; Náyudipálēm Khanerika S. by W., miles $1\frac{1}{2}$; Vadapálēm W.S.W., miles $1\frac{1}{2}$; and Khaudrikapálēm S.S.W., miles $1\frac{1}{2}$.

XXXV. Pálchērla Hill Station, lat. $14^{\circ} 10'$, long. $79^{\circ} 31'$ —observed at in 1865—is on the highest point of the hill at the S. side of the E. entrance of the Rápur ghát (pass). The hill is an offshoot of the Vollukōnda range, and the station lies about 2 miles S. of the road from the pass to the town of Rápur and $4\frac{3}{4}$ miles W.S.W. of the latter place. It is in the lands of the village of Rápur, taluk Rápur, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one on the rock *in situ* and the other 3 feet above it on a stone imbedded flush with the upper surface of the pillar. The lower mark which consists of two cross lines was found cut on the rock *in situ*. The directions and distances of the circumjacent villages are:—Panjili N.N.E., miles $3\frac{1}{2}$; Devulapalle E.S.E., miles $3\frac{1}{2}$; and Racharapēnta S.E. by S., mile 1.

XXXVI. Kayyúr Hill Station, lat. $14^{\circ} 1'$, long. $79^{\circ} 42'$ —observed at in 1865—is on a small rocky hill $1\frac{1}{4}$ miles S. by E. of the village of Kayyúr, 2 miles S.E. of the road from Chittoor (Chittúr) to Gudúr, and $6\frac{1}{2}$ miles N.E. by E. of Vēnkatagiri. It is in the lands of the village of Venugopálpuram, division Vēnkatagiri, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 2.67 feet above it on a stone imbedded in the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Bangarupet (on the high road) S.W. by W., miles 5; Pilem E.S.E., miles $1\frac{1}{2}$; Tikkavaram S. by W., miles $1\frac{1}{2}$; and Akkasamudram N.W. by W., miles $1\frac{1}{2}$.

XXXVII. Gurramkōnda Hill Station, lat. $14^{\circ} 1'$, long. $79^{\circ} 53'$ —observed at in 1865—is on a low hill 5 miles W. of Vojili on the high road from Madras to Gudúr, and 10 miles from the latter town. It is in the lands of the village of Gurramkōnda, division Vēnkatagiri, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are four marks, one engraved on the rock *in situ* and three others on stones at 3, $5\frac{1}{2}$ and $7\frac{1}{2}$ feet respectively above it, the uppermost being flush with the top of the pillar. The directions and distances of the circumjacent villages are:—Arimanupád W.N.W., miles $2\frac{1}{2}$; Gurramkōnda W., mile 1; Sagutúr S.S.W., miles $1\frac{1}{2}$; and Karjamedu, W. miles $1\frac{1}{2}$.

XXXVIII. Gudali Hill Station, lat. $14^{\circ} 1'$, long. $80^{\circ} 4'$ —observed at in 1865—is on an isolated rocky hill lying about $\frac{1}{2}$ a mile from the left bank of the Swarnamukhi river and immediately N. of the village of Gudali: it is 1 mile S.W. of the high road from Dugarápatnam, on the sea coast, to the town of Gudúr, and $9\frac{1}{2}$ miles W. by N. of Dugarápatnam. This station is $110\frac{1}{2}$ feet due W. of the centre of a platform of Colonel Lambton's secondary station of "Gooruloor": no mark was found. It is in the lands of the village of Gudali, taluk Gudúr, district Nellore.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 6 feet above it on a stone imbedded in the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Kota N.E. by E., miles $2\frac{1}{2}$; Kurrugónda W., miles 4; Kasipuram S.E., miles $1\frac{3}{4}$; Razupálém W. by N., mile $\frac{1}{2}$; and Tinnelapúdi E.S.E., miles $1\frac{3}{4}$.

XXXIX. Áněpúdi Tower Station, lat. $13^{\circ} 48'$, long. $80^{\circ} 2'$ —observed at in 1865—is on a ridge in the midst of an extensive jungle, about 3 miles W. of the Pulicat (Paraverikád) lake and $3\frac{1}{2}$ miles E. by N. of Akarapák village on the high road from Madras to Nellore. It is in the lands of the village of Áněpúdi, division Polúr, district Nellore.

The station consists of a tower enclosing a solid pillar of masonry, the upper portion of which is isolated and $3\frac{1}{2}$ feet in diameter; the pillar contains seven markstones at 2, 4, 6, 8, 10 and 14 feet respectively above the lowermost one. The directions and distances of the circumjacent villages are:—Áněpúdi N.E. by N., miles $1\frac{3}{4}$; Kallúr E.S.E., miles $1\frac{1}{2}$; Surapa S.S.W., mile 1; and Muchalagunta N.W. by N., miles $3\frac{1}{4}$.

XL. Pillimedu or Pallimer Hill Station, lat. $13^{\circ} 51'$, long. $79^{\circ} 45'$ —observed at in 1865—is on the summit of a small rugged hill lying about a mile north from the left bank of the Swarnamukhi river, and 7 miles N. by E. of the town of Kálahasti. It is in the lands of the village of Pillimedu, zamindári Kálahasti, district North Arcot (Árkád).

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved in the rock *in situ* and the other 1.5 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Pillamvedu N.E. by N., mile $\frac{2}{3}$; Rallapalle E. by S., mile $\frac{2}{3}$; Malapalle S.W. by S., miles $1\frac{1}{2}$; and Kasaram N.W. by N., miles $1\frac{3}{4}$.

XLI. Kambákamdurgam Hill Station, lat. $13^{\circ} 34'$, long. $79^{\circ} 54'$ —observed at in 1865—is on the highest and most eastern point of the Pulicat hills, about 5 miles W.S.W. of the large village of Varadáya-pálaiyam. Colonel Lambton's station of "Combaucum"—indicated by a pile of stones, but in which there is no mark—lies 45 or 46 feet distant from the present station at an azimuth of 29° . It is in the lands of the village of Kambákam, taluk Tiruvallúr, district Chingleput (Chēngalpat).

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 1.5 feet above it on a stone imbedded in the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Kambákam E. by N., miles 3; Nelvai N.E. by N., miles 5; Pandúr E.S.E., miles $4\frac{1}{2}$; and Padrikuppam S.E. by E., miles 6.

XLII. Jonangipálém Tower Station, lat. $13^{\circ} 39'$, long. $80^{\circ} 14'$ —observed at in 1865—is on a low sand ridge, 150 yards from the E. margin of the Pulicat lake and about 300 yards S. by E. of the well-known masjid of Jonangipálém. It is in the lands of the village of Rēttamala, taluk Gudúr, district Nellore.

The station consists of a tower of sun-dried bricks enclosing a solid pillar of masonry 14 feet high, the upper portion of which is isolated and $3\frac{1}{2}$ feet in diameter; the pillar contains eight mark-stones, the lowest at the ground level and seven others at 2, 4, 6, 8, 10, 12 and 14 feet respectively above it. The directions and distances of the circumjacent villages are:—Venád W., miles $4\frac{1}{2}$; Bheripet N. by W., miles $2\frac{1}{2}$; Irakams S.W. by S., miles 6; and Chennugarepálém S.E. by E., miles $1\frac{3}{4}$.

XLIII. Yerpet Hill Station, lat. $13^{\circ} 43'$, long. $79^{\circ} 36'$ —observed at in 1865—is on the S.E. extremity of the Eastern Gháts, about $2\frac{1}{2}$ miles N.W. of the village of Yerpet on the road from the Tirupati Railway Station to Vēnkatagiri, and $9\frac{1}{2}$ miles W. by S. of the town of Kálahasti. It is in the lands of the village of Yerpet, zamindári Kálahasti, district North Arcot.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry $3\frac{1}{2}$ feet in diameter in which are two marks, one on the rock and the other 1.5 feet above it on a stone imbedded in the upper surface of the pillar. The directions and distances of the adjacent villages are:—Krishnampalle N.E., miles $2\frac{1}{2}$; Vēnkatapuram S.E. by S., miles 2; and Amandúr S.E., miles 2.

XLIV. Rēttambedu Tower Station, lat. $13^{\circ} 26'$, long. $80^{\circ} 13'$ —observed at in 1865—is $3\frac{1}{2}$ miles S. of the Pulicat lake and 3 miles E. of the high road: it is in the lands of the village of Rēttambedu, taluk Pōnneri, district Chingleput.

The station consists of a tower enclosing a perforated pillar of masonry 28.4 feet high, the upper portion of which is isolated and $3\frac{1}{2}$ feet in diameter: the pillar contains a mark-stone imbedded at the ground level, to which access is obtained by a passage constructed for the purpose. The village of Rēttambedu is S.S.W., $1\frac{1}{2}$ miles.

XLV. Gundálamma Hill Station, lat. $17^{\circ} 31'$, long. $82^{\circ} 22'$ —observed at in 1861—is on a range of hills stretching N.E. and S.W., and about 4 miles E.N.E. of the village of Lodōddi and 12 miles in the same direction from the village of Jaddangi. The station is not on the highest point of the range but about $\frac{1}{4}$ of a

mile S.W. of it, and is approached from the village of Ragapatnam on the E. by a road somewhat difficult for laden cattle. It is in the lands of the village of Doddödi, taluk Pëddapur, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2·0 feet above it on a stone imbedded flush with the upper surface of the pillar. The approximate directions and distances of the following villages are:—Kimiligudda N.W., miles 4½; Tállapálëm W., miles 5½; Vayer W., miles 6; and Vattangi W.S.W., miles 7¾.

XXXIII.—(*Of the Madras Longitudinal Series*). Nagari or Nagarímor Hill Station, lat. 13° 23', long. 79° 38'—observed at in 1865—is on a very remarkable peak which rises abruptly at the western and south-western extremity of the mass of hills. The station is 3¼ miles S. by E. of the large village of Náráyanavaram on the high road from Tiruvallúr to Putúr. The peak is precipitous on the N.W. and S. sides, and is composed of gigantic boulders which seem piled in the most insecure manner as if the least shock would hurl the whole down. The station is not on the highest boulder. It is in the lands of the village of Náráyanavaram, zamindári Kárvētnagar, district North Arcot.

The station consists of a platform enclosing a solid, circular and isolated pillar of masonry 3½ feet in diameter in which are two marks, one engraved on the rock *in situ* and the other 1·5 feet above it on a stone imbedded flush with the upper surface of the pillar. The lower mark was found cut on the rock and is probably that of a station of Colonel Lambton's triangulation. The approximate directions and distances of the adjacent places are:—Putúr station of the Madras Railway N.W. by N., miles 4¾; Paramesvaramangalam N.W., miles 2; Gavanesapuram (on the high road near the fifth milestone) W.N.W., miles 1½; Bojarájpálëm N.N.E., miles 2; Mangada S.S.E., miles 3¼; and Rámasamudram W., miles 2½.

XXXV.—(*Of the Madras Longitudinal Series*). Chēmbedu or Chēmbur Tower Station, lat. 13° 15', long. 80° 1'—observed at in 1865—is on an extensive swell of ground, about 10 miles N.E. of the town of Tiruvallúr and the same distance N.N.W. of Tinnanúr Railway station. The station is about 50 feet N.E. of an old cairn of stones in which no mark was found but which is supposed to indicate the site of a secondary point of Colonel Lambton's triangulation. It is in the lands of the village of Chēmbedu, taluk Tiruvallúr, district Chingleput.

The station consists of a tower of sun-dried bricks enclosing a perforated pillar of masonry 70·3 feet high, containing a mark-stone imbedded at the ground level. This pillar was 54·9 feet high when the observations were taken from it and was raised to its present height subsequently to fix the position of the Madras Dome Observatory Station of the Madras Longitudinal Series. The approximate directions and distances of the adjacent villages are:—Chēmbedu S.E., miles 1¾; Malandúr N.W., miles 1½; Maiúr S.W., miles 2½; Érikuppam N.E. by E., miles 2½; and Pēriyapálayam N.E., miles 5¾.

XXXIX.—(*Of the Bider Longitudinal Series*). Dhár Hill Station, lat. 17° 44', long. 82° 31'—observed at in 1860, 1861 and 1871—is on a hill known to the European residents of the district as "Golconda Hill" from its vicinity to Gōlgōnda. It is in taluk Gōlgōnda, district Vizagapatam (Vishakhapatnam).

The station consists of a platform of stones enclosing a solid, circular and isolated pillar of masonry in which are two marks, one in the upper surface of the pillar and the other 2·0 feet below it. When visited in 1871, the mark was found undisturbed. The estimated directions and distances of the circumjacent places are:—Gōlgōnda S. by W., miles 3½; Narsapatnam E.S.E., miles 11; Paspushetepálëm at foot of hill E., miles 7; Songari N., miles 2½; and Lamsingi N. by E., miles 5¾.

XLI.—(*Of the Bider Longitudinal Series*). Sánjib Hill Station, lat. 17° 31', long. 82° 44'—observed at in 1860—is on the summit of a high, conspicuous hill so named, the most elevated of the group or range running parallel with the coast. The station is about 10 miles from the sea coast, and is in taluk Gōlgōnda, district Vizagapatam.

The station consists of a platform of stones enclosing a solid, circular and isolated pillar of masonry in which are two marks, one in the upper surface of the pillar and the other 1·5 feet below. The directions and distances of the following places are:—Uratla (the residence of the Rája) N., miles 3; and Goteara village E.N.E., miles 2.

XLVI. Kappakōnda Hill Station, lat. 17° 20', long. 82° 31'—observed at in 1861—is on a low range of hills lying in a N.E. and S.W. direction, and about 7 miles from the sea coast. The station is immediately north of the main road from Rajahmundry (Rájamahēndravaram) to Vizagapatam, and about 3 miles N.N.W. of the village of Hamsavaram. It is in the lands of the village of Kotúr, division Tuni, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1·0 foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the following villages are:—Thonamutta S.S.E., miles 1¼; Attumelta S., miles 1½; Vēnkatakrishnaráyapuram S. by W., miles 2½; Paidipala S.S.W., miles 5; Tuni N., miles 3½; and Suraprajpet N.E., miles 2.

XLVII. Pagulráyi Hill Station, lat. 17° 47', long. 82° 18'—observed at in 1861—is on the summit of a high broad hill, 3½ miles N. of the large village of Badrala and 7 miles S.E. by S. of Gudiam. The station is in taluk Gōlgōnda, district Vizagapatam.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Pëddavalasa E., miles 1½; Kōttapet N. by W., mile 1; Turimamadi N.N.W., mile ¾; Saprathpálayam E.S.E., miles 2½; and Kinding S.W. by S., miles 2¾.

XLVIII. Nágá Hill Station, lat. $17^{\circ} 21'$, long. $82^{\circ} 13'$ —observed at in 1861—is on the south-western extremity of a long range of hills running parallel to and at a distance of about 22 miles from the coast, and 7 miles N.E. of the large village of Yélesvaram on the road from Jaggammamet to Jaddangi. It is in the lands of the village of Gokavaram, division Tuni, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2.0 feet above it on a stone imbedded flush with the upper surface of the pillar. The approximate directions and distances of the following villages are:—Kimmúr W. by S., miles $3\frac{1}{2}$; Lingamparti S.W. by S., miles $6\frac{1}{2}$; and Bayapád N.N.E., miles $2\frac{1}{2}$.

XLIX. Kalimámidi Hill Station, lat. $17^{\circ} 35'$, long. $82^{\circ} 9'$ —observed at in 1861—is on a high triple headed hill at the north-eastern extremity of a range running N.E. and S.W. It is in the lands of the village of Kalimámidi, taluk Rajahmundry, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.5 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Jagpálém N.N.W., mile 1; Duchurti W., miles 4; Kalimámidi S.W. by W., mile 1; Bhímaram S.W., miles $6\frac{1}{2}$; Somalpád S.S.W., miles $2\frac{1}{2}$; and Ulbong S., miles $1\frac{1}{2}$.

L. Nallakönda Hill Station, lat. $17^{\circ} 18'$, long. $82^{\circ} 0'$ —observed at in 1861—is on a hill near the centre of a low range running nearly east and west, about $3\frac{3}{4}$ miles nearly E.N.E. of the large village of Kóttapalle and $2\frac{1}{2}$ miles W. of Mallávaram. It is in the lands of the village of Döddipálém, taluk Rajahmundry, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2.0 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Loddipálém (at foot of hill) S.S.E., mile $\frac{1}{2}$; Baiyanapalli N.W. by W., miles $1\frac{1}{2}$; Sivarampatnam S. by E., miles $1\frac{1}{2}$; and Razupálém S.S.W., miles $1\frac{1}{2}$.

LI. Elangoi Hill Station, lat. $17^{\circ} 3'$, long. $82^{\circ} 6'$ —observed at in 1861—is on a low flat-topped hill covered with brushwood, about 5 miles W.S.W. from the town of Pëddapur on the road from Rajahmundry to Sámalkot, and $7\frac{3}{4}$ miles S. of Jaggammamet. It is in the lands of the village of Köndapalli, taluk Pëddapur, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are three mark-stones, one imbedded in the upper surface of the pillar and the others at 2 and 4 feet respectively below it. The directions and distances of the circumjacent villages are:—Anúr W., miles $1\frac{1}{2}$ (nearly); Köndapalli S.W. by W., mile 1; Chinna-brahmadevam S.E., miles $2\frac{3}{4}$; Ráyabhupalápatnam E. by S., miles 3; Surampálém N., miles $3\frac{1}{2}$; and Kóttapád W.N.W., miles $2\frac{1}{2}$.

LII. Kappa (also well known as Kappakönda) Hill Station, lat. $17^{\circ} 30'$, long. $81^{\circ} 54'$ —observed at in 1861—is not on the highest point of the hill but on a spur 20 or 30 feet lower and a short distance to the S.E. of the summit. It is about $5\frac{3}{4}$ miles N.E. by E. of the large village of Rampa and is in the lands of the village of Vadapalli, taluk Rajahmundry, district Godávári.

The station is denoted by a circle and dot cut on a large mass of rock (red laterite), on which the theodolite stand was also set up. The directions and distances of the circumjacent villages are:—Borlagunda S. by W., miles $1\frac{1}{2}$; Yërragada S.E. by E., miles $1\frac{1}{2}$; Manjel W., miles $2\frac{1}{2}$; Pálém N.E. by N., miles $2\frac{3}{4}$; and Serúr E. by S., miles $1\frac{1}{2}$.

LIII. Návilmëtta Station, lat. $17^{\circ} 3'$, long. $81^{\circ} 55'$ —observed at in 1861—is on high, undulating, sandy ground $\frac{1}{2}$ of a mile south of the road from Rajahmundry to Vizagapatam, $6\frac{1}{2}$ miles N.E. by E. of the former place, and 3 miles S.W. by W. of Rájanagram. It is in the lands of the village of Chekaradwara, taluk Rajahmundry, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are three marks, one on a large stone imbedded in the ground and two others at 2 and 4 feet respectively above it. The directions and distances of the circumjacent villages are:—Velugubanda N. by E., miles $2\frac{1}{2}$; Palláchërla N.W., miles $2\frac{1}{2}$; Kanavaran E. by S., miles $3\frac{1}{2}$; and Sríkrisnapatnam S. by E., miles $3\frac{1}{2}$.

LIV. Pothkönda Hill Station, lat. $17^{\circ} 16'$, long. $81^{\circ} 47'$ —observed at in 1861—is on a high hill about 5 miles E. of the left bank of the Godávári river, 7 miles N. by E. of the large village of Raghudevapuram and $7\frac{1}{2}$ miles W. of Gokavaram village and Police Station. It is in the lands of the village of Rámanmapalli, taluk Rajahmundry, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2.5 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Potulakönda E.N.E., mile $\frac{1}{2}$; Surrabaram E.S.E., miles $1\frac{1}{2}$; Pëddaköndapúdi S.W. by S., miles $3\frac{1}{2}$; Néllakota W.S.W., miles 3; and Chinariyadi N.W. by W., miles $1\frac{1}{2}$.

LV. Lachmipuram Station, lat. $17^{\circ} 0'$, long. $81^{\circ} 37'$ —observed at in 1861—is on the W. extremity of some high ground stretching about N.W. by W. for 4 miles. The E. extremity of which is of a gravelly nature, while that on which the station stands is sandy. The station is $4\frac{3}{4}$ miles E. of the town of Yërnagúdem on the high road from Ellore (Éllúr) to Kovúr on the Godávári, and 6 miles W. by N. of the large village of Chagallu. It is in the lands of the village of Lachmipuram, taluk Yërnagúdem, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are three marks, one on a large stone imbedded firmly in the sand and two others at $2\frac{1}{2}$ and $4\frac{1}{2}$ feet respectively above it. The directions and distances of the circumjacent villages are:—Lachmipuram N. by E., mile $\frac{1}{2}$; Chinnayapálém W., mile $\frac{3}{4}$; Pallantla S.W. by W., miles 2; Chikkala S.S.E., miles $2\frac{1}{2}$; and Devarapalli N.W. by N., miles $2\frac{1}{2}$.

LVI. Adakōnda Hill Station, lat. $17^{\circ} 14'$, long. $81^{\circ} 32'$ —observed at in 1861—is on a spur at the southern extremity of the main range of hills about 10 miles W. by S. of the large village of Pallávaram on the Godávári river, and $5\frac{1}{2}$ miles S. by E. of Chintapalli. The station is in the lands of the village of Sagipád, taluk Yērnagúdēm, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other $2\frac{1}{2}$ feet above it imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Lankapalli W. by N., mile 1; Virapagúdēm W.S.W., miles 2; Kamayakunta S.W. by W., miles $2\frac{1}{2}$; Kovada S.S.W., miles $2\frac{1}{2}$; and Suripillagúdēm E. by N., miles $1\frac{1}{2}$.

LVII. Yēdlagattu Hill Station, lat. $17^{\circ} 1'$, long. $81^{\circ} 23'$ —observed at in 1861—is near the centre and on the highest part of a low range of hills extending some 20 miles in a N.E. and S.W. direction. The summit of the hill is flat-topped and covered with very thick jungle. The station is 7 miles N.W. from the large village of Nallachērla on the high road from Ellore to Yērnagúdēm, and 4 miles S.E. of Lakkavaram. It is in the lands of the village of Ragapuram, taluk Yērnagúdēm, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are three marks, one engraved on the rock *in situ* and two others at $1\frac{1}{2}$ and 3 feet respectively above it. The directions and distances of the circumjacent villages are:—Ráyavapuram N.W. by N., miles $1\frac{1}{2}$; Lachmipuram W., miles $1\frac{1}{2}$; Pangidigúdēm N.N.E., miles $3\frac{1}{2}$; and Rámsingavaram E.S.E., miles $2\frac{1}{2}$.

LVIII. Aupád Station, lat. $16^{\circ} 53'$, long. $81^{\circ} 26'$ —observed at in 1861—is on a sandy ridge covered with high jungle $4\frac{1}{2}$ miles S. by W. of the large village of Nallachērla on the road from Ellore to Yērnagúdēm. It is in the lands of the village of Aupád, taluk Yērnagúdēm, district Godávári.

The station consists of a platform of logs of wood enclosing a solid, circular and isolated pillar of masonry in which are four mark-stones, one imbedded flush with the upper surface of the pillar and others at 3, 5 and 7 feet respectively below it. The directions and distances of the circumjacent villages are:—Aupád N.E. by E., miles 2; Marellamudi N., miles $2\frac{1}{2}$; Dubachērla N.W. by W., miles 3; Nallamadu S.W. by W., miles $1\frac{1}{2}$; and Rámachandrapuram W. by S., miles $1\frac{1}{2}$.

LIX. Sudkōnda Hill Station, lat. $16^{\circ} 57'$, long. $81^{\circ} 15'$ —observed at in May and December 1861—is on a small, round, isolated hill $4\frac{1}{2}$ miles S. of the large village of Kamavarapukota and $\frac{1}{2}$ a mile W. of the road from Kamavarapukota to Rámanagúdēm. It is in the lands of the village of Vadlapatlanutanam, taluk Ellore, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one imbedded in the upper surface of the pillar and the other $1\frac{1}{2}$ feet below it at the ground level. When visited in December 1861, the pillar and annulus were found in perfect order and the mark had evidently not been tampered with. The directions and distances of the circumjacent villages are:—Vēnkatakrišnapuram S.E. by E., miles 2; Vēnkaturam W.S.W., miles $2\frac{1}{2}$; Rámanagúdēm S.E. by S., miles $2\frac{1}{2}$; Gundugolanukunta E.N.E., miles 2; and Vadlapatlanutanam N.N.W., mile 1.

LX. Parampúdi Hill Station, lat. $17^{\circ} 13'$, long. $81^{\circ} 15'$ —observed at in May and December 1861—is on a low hill about 4 miles W. by N. of the large village of Ganapavaram, the same distance E. of Jelugumilli, and 5 miles N. of the large village of Taduvayí. The station is in the lands of the village of Parampúdi, taluk Yērnagúdēm, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other $2\frac{1}{2}$ feet above it on a stone imbedded flush with the upper surface of the pillar. When visited in December 1861, the mark had evidently not been tampered with. The directions and distances of the circumjacent villages are:—Rámanapálém W.S.W., miles $2\frac{1}{2}$; Virachēttigúdēm S.W. by W., miles $1\frac{1}{2}$; Ganganagúdēm S.E. by S., miles $2\frac{1}{2}$; Rantugúdēm E. by S., miles $2\frac{1}{2}$; and Narnapuram N.E. by N., miles $1\frac{1}{2}$.

LXI. Bandanchērla Hill Station, lat. $17^{\circ} 4'$, long. $81^{\circ} 6'$ —observed at in 1861—is on a range of hills 5 miles E. by S. of the village of Rētachintalapúdi on the road from Ellore to Gummumet, and $4\frac{1}{2}$ miles N.E. of Pragadavaram. It is in the lands of the village of Punukumadu, taluk Ellore, district Godávári.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it on a stone imbedded in the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Bandanchērla N.E. by E., miles $1\frac{1}{2}$; Vurlagúdēm W., miles $2\frac{1}{2}$; Ponukupád S., miles $1\frac{1}{2}$; Narasapuram N.N.E., miles $3\frac{1}{2}$; and Ketavaram E., miles $3\frac{1}{2}$.

LXII. Nágaldurgam Hill Station, lat. $17^{\circ} 20'$, long. $80^{\circ} 58'$ —observed at in 1861—is on a high hill about 4 miles to the N.N.E. of the small village of Srírāmpur, the road from which to Jaggavaram passes close under the hill. It is in taluk Khamam, Nizám's territories.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 2 feet above it on a stone imbedded flush with the upper surface of the pillar. The estimated directions and distances of the circumjacent villages are:—Nagupilli S.S.W., miles 5; Mukōndapur S., miles 5; and Jaggavaram N., miles 2.

LXIII. Dudugat Hill Station, lat. $16^{\circ} 46'$, long. $80^{\circ} 59'$ —observed at in 1862—is on a low ridge about $6\frac{1}{2}$ miles E. by S. of Núzvid, a large place and the residence of a petty rája, and 4 miles N.E. by N. of the Police Station of Gollapalli. The station is on the site of the old Topographical Survey station of Dudugat, the pile of stones of which was removed for the platform of the present station. It is in the lands of the village of Katrenipád, division Núzvid, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.5 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Katrenipád N. by E., miles 2; Medichērla S.E., miles $3\frac{1}{2}$; Anapanúrgúdēm E., miles 3; and Rangapálēm N.E. by N., miles 2.

LXIV. Inupráyi Hill Station, lat. $17^{\circ} 8'$, long. $80^{\circ} 49'$ —observed at in 1861—is on a low, isolated hill locally called Inupráyigattu. The hill is composed of iron stone. The station is on the site of an old Topographical Survey station, which was marked by the remains of a cairn of stones. It is in the lands of the village Vaimsúr, taluk Khamam, Nizám's territories.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one imbedded flush with the upper surface of the pillar and the other, a large one, 2 feet below it imbedded in the ground. The directions and distances of the following villages are:—Vemirēddipalli S.W. by S., miles 5; Korlamanda S., miles 5; Tsanubanda S.S.E., miles $6\frac{1}{2}$; and Yemsúr E., miles $1\frac{1}{2}$.

LXV. Dálgattu Hill Station, lat. $16^{\circ} 54'$, long. $80^{\circ} 51'$ —observed at in 1862—is on the highest of a group of hills at the northern extremity of a long range extending nearly N. and S. The station is about 3 miles S. by E. of the village of Vissanapet on the road from Madavaram to Tsanubanda, and 8 miles N.N.W. of Núzvid. It is in the lands of the village of Kōndavarava, division Vissanapet, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.8 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Ráyanapálēm W., miles $3\frac{1}{2}$; Kōndavarava E. by N., miles 2; Ramanakkapet E. by S., miles $4\frac{1}{2}$; and Rēddigúdēm W. by S., miles $4\frac{1}{2}$.

LXVI. Yērragattu Hill Station, lat. $16^{\circ} 40'$, long. $80^{\circ} 42'$ —observed at in 1862—is on a range of hills running from S.S.W. to N.N.E. about 6 miles S. by E. of the large village of Mailavaram, the residence of a rája, and $11\frac{1}{2}$ miles N.N.E. of the town of Bēzvāda. It occupies the site of the old Topographical Survey station of Vēlatúr, the platform of which was found. It is in the lands of the village of Vēlatúr, taluk Bēzvāda, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.5 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Vēlatúr W.N.W., miles $1\frac{1}{2}$; Velagaler W.S.W., miles 4; Kuntamukala N.W. by W., miles 3; and Adivinekalam S.E. by E., miles $4\frac{1}{2}$.

LXVII. Jammalavoidurgam Hill Station, lat. $16^{\circ} 57'$, long. $80^{\circ} 38'$ —observed at in 1862—is on the summit of a hill on which are the ruins of an old fort, one of a group of hills at the northern extremity of a range extending N.N.E. and S.S.W. from Kōndapalli near the Kistna river. It is an old Topographical Survey station and is in the lands of the village of Kōndúr, division Vissanapet, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.6 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Annumallanka W.N.W., miles 4; Kōndúr E. by N., miles 4; Narikempád S. by W., miles $2\frac{1}{2}$; and Repúdi E. by S., miles $5\frac{1}{2}$.

LXVIII. Jujúrdurgam Hill Station, lat. $16^{\circ} 42'$, long. $80^{\circ} 31'$ —observed at in 1862—is on a high hill on which are the ruins of an old fort $5\frac{1}{2}$ miles E. by N. of the village of Kanchakachērla on the road from Hyderabad to Bēzvāda. The W. face of the hill is a perfect precipice, and the station is built on a large granite rock on the verge of it about $\frac{1}{2}$ mile from the highest part of the hill. It is in the lands of the village of Jujúr, taluk Nandigāma, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.21 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Jujúr N.W., miles 4; Narasimharampálēm W.N.W., miles 3; and Gottimukkala W. by S., miles $3\frac{1}{2}$.

LXIX. Bēzvāda Hill Station, lat. $16^{\circ} 31'$, long. $80^{\circ} 39'$ —observed at in 1862—is on the highest part of a long precipitous ridge immediately on the left bank of the Kistna river and about $\frac{1}{2}$ mile N.W. of the town of Bēzvāda. A Revenue Survey pillar is at a distance of 14 yards from the station at an azimuth of 195° . The station is in the lands of the village of Bēzvāda, taluk Bēzvāda, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 0.46 of a foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Golapúdi N.W. by W., miles $1\frac{1}{2}$; Vēnkata-pálēm W.S.W., miles $2\frac{1}{2}$; and Vundavalli S. by W., miles 2.

LXX. Jönnalagadda Hill Station, lat. $16^{\circ} 52'$, long. $80^{\circ} 21'$ —observed at in 1862—is on a low hill $5\frac{1}{2}$ miles S.E. by E. of the village of Penuganchiprol on the right bank of the Muniyár river and $6\frac{1}{2}$ miles N.N.E. of Nandigáma on the road from Hyderabad to Bězváda. The hill is on the boundary line of the villages of Jönnalagadda and Ramirěddipalli. One of the Revenue Survey boundary pillars is 24.4 feet at an azimuth of 51° from the station which is in the lands of the village of Jönnalagadda, taluk Nandigáma, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one (a large stone) imbedded in the soil and the other 1.46 feet above it let in flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Jönnalagadda N.E. by E., miles $1\frac{1}{2}$; Anigarlapád N.W., miles $2\frac{1}{2}$; Gummadidúr W. by N., miles $1\frac{1}{2}$; Ramirěddipalli E.S.E., mile $\frac{1}{2}$; and Magallu S., miles $3\frac{1}{2}$.

LXXI. Anantavaram Hill Station, lat. $16^{\circ} 31'$, long. $80^{\circ} 28'$ —observed at in 1862—is on a low hill, whose western face is very precipitous, about $3\frac{1}{2}$ miles S. by E. of the village of Vaikuntapuram on the right bank of the Kistna river, and 11 miles N.W. by W. of the large village of Mangalagiri on the road from Guntúr to Bězváda. It is in the lands of the village of Anantavaram, taluk Guntúr, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.5 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Vadhanián N. by W., mile 1; Tullúr E. by N., miles 3; Anantavaram E.S.E., mile $\frac{1}{2}$; and Karlapúdi S.W., miles 2.

LXXII. Chintalapád Station, lat. $16^{\circ} 40'$, long. $80^{\circ} 17'$ —observed at in February and April 1862—is on rising ground about $3\frac{1}{2}$ miles N.E. of the village and police station of Pönnapalli on the left bank of the Kistna river, and 8 miles S.S.W. of the town of Nandigáma on the high road from Hyderabad to Bězváda. It is in the lands of the village of Chintalapád, taluk Nandigáma, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones one (a large stone) imbedded in the soil and the other 2.33 feet above it let in flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Patěmpád W. by N., miles $1\frac{1}{2}$; Turlapád N.N.E., miles $2\frac{1}{2}$; Totaravulapád E.N.E., miles $2\frac{1}{2}$; Chintalapád E. by S., miles $2\frac{1}{2}$; and Valadi S.W. by S., miles 2.

LXXIII. Lagadapád Station, lat. $16^{\circ} 29'$, long. $80^{\circ} 17'$ —observed at in February and April 1862—is on high ground about 9 miles N.E. of the town of Sattěnapalle on the high road from Hyderabad to Guntúr, and $7\frac{1}{2}$ miles E.S.E. of the large village of Krosúr. It is in the lands of the village of Lagadapád, taluk Sattěnapalle, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two mark-stones, one imbedded in the soil and the other 4 feet above it let in flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Lagadapád S.W. by W., mile $\frac{1}{2}$; Kúrapád S.E., miles $1\frac{1}{2}$; Hussenagram N. by W., miles 2; Gárapád N.W. by W., miles $2\frac{1}{2}$; and Gujěrlapúdi W. by N., miles $2\frac{1}{2}$.

LXXIV. Gorantla Hill Station, lat. $16^{\circ} 21'$, long. $80^{\circ} 29'$ —observed at in 1862—is on rock 12 feet above the general level of the summit of a low hill, consisting almost entirely of granite, $3\frac{1}{2}$ miles nearly W. of the village of Kakane on the road from Guntúr to Bězváda, and $3\frac{1}{2}$ miles N. by W. of the former town. The station is in the lands of the village of Gorantla, taluk Guntúr, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.5 feet above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Gorantla S.E., mile $\frac{1}{2}$; Věněgantla E., miles $2\frac{1}{2}$; Kōntepád S. by W., miles $2\frac{1}{2}$; and Jönnalagadda N.N.E., miles $2\frac{1}{2}$.

LXXV. Chikri Hill Station, lat. $16^{\circ} 36'$, long. $80^{\circ} 7'$ —observed at in 1862—is on the eastern point of the more northern of two low hills, $3\frac{1}{2}$ miles S.W. of the village of Chámaru and $5\frac{1}{2}$ miles N.W. of that of Krosúr. The western point is higher and consists of a mass of granite with such limited space that the station could not be built on it. It is in the lands of the village of Kōndúr, taluk Sattěnapalle, district Kistna.

The station consists of a platform of stones and earth enclosing a solid, circular and isolated pillar of masonry in which are two marks, one engraved on the rock *in situ* and the other 1.0 foot above it on a stone imbedded flush with the upper surface of the pillar. The directions and distances of the circumjacent villages are:—Pěddapálěm E. by S., miles $1\frac{1}{2}$; Kōndúr S.S.W., miles $1\frac{1}{2}$; Dōdler S. by W., miles $3\frac{1}{2}$; and Turakapalle N.N.E., miles $2\frac{1}{2}$.

April, 1886.

W. H. COLE,

In charge Computing Office.

MADRAS MERIDIONAL AND COAST SERIES.

PRINCIPAL TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle	Distance		
				Log. feet	Feet	Miles
1	Kándágatla, XII	.90	84 39 13.13	5.1579209	143853.7	27.245
	Adáligat, XV	.89	45 32 42.63	5.0133926	103131.8	19.533
	Niálamari, II	.89	49 48 4.24	5.0427993	110356.9	20.901
2	Adáligat, XV	.86	40 12 45.59	4.9693784	93192.0	17.650
	Niálamari, II	.86	54 30 31.15	5.0701299	117524.9	22.259
	Anantagiri, I	.87	85 16 43.26	5.1579209	143853.7	27.245
3	Kándágatla, XII	1.02	49 3 39.99	5.0701299	117524.9	22.259
	Adáligat, XV	1.02	85 45 28.95	5.1907565	155151.7	29.385
	Anantagiri, I	1.02	45 10 51.06	5.0427993	110356.9	20.901
4	Niálamari, II	.91	90 30 37.09	5.1905324	155071.6	29.370
	Anantagiri, I	.91	52 33 9.60	5.0903223	123118.2	23.318
	Sárangapalle, IV	.90	36 56 13.31	4.9693784	93192.0	17.650
5	Anantagiri, I	1.06	41 58 15.75	5.0203045	104786.3	19.846
	Sárangapalle, IV	1.07	56 16 2.93	5.1149725	130308.4	24.680
	Miádarsál, III	1.07	81 45 41.32	5.1905324	155071.6	29.370

NOTE.—1. The value of the side is given in the same line with the opposite angle.

2. Stations Kándágatla, XII and Adáligat, XV appertain to the Bider Longitudinal Series of the South-East Quadrilateral.

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle	Distance		
				Log. feet	Feet	Miles
6	Niálamari, II	·96	51 27 42·77	5·1149725	130308·4	24·680
	Anantagiri, I	·96	94 31 26·36	5·2203029	166074·5	31·453
	Miádarsál, III	·95	34 0 50·87	4·9693784	93192·0	17·650
7	Miádarsál, III	·56	65 3 37·46	4·9985399	99664·4	18·876
	Sarangapalle, IV	·55	42 30 32·01	4·8708079	74269·1	14·066
	Kachalboru, V	·56	72 25 50·53	5·0203045	104786·3	19·846
8	Sarangapalle, IV	·47	29 23 53·80	4·7823253	60579·5	11·473
	Kachalboru, V	·48	96 44 28·16	5·0883393	122557·3	23·212
	Mániam, VIII	·47	53 51 38·04	4·9985399	99664·4	18·876
9	Kachalboru, V	·24	87 29 27·94	4·8828336	76354·3	14·461
	Mániam, VIII	·23	40 4 34·04	4·6920043	49204·4	9·319
	Dhúlipalla, VII	·24	52 25 58·02	4·7823253	60579·5	11·473
10	Miádarsál, III	·29	66 8 23·10	4·8579499	72102·4	13·656
	Kachalboru, V	·29	43 28 2·44	4·7343009	54237·7	10·272
	Voruvakallu, VI	·29	70 23 34·46	4·8708079	74269·1	14·066
11	Kachalboru, V	·24	59 52 9·12	4·8041592	63702·9	12·065
	Voruvakallu, VI	·24	41 54 57·24	4·6920043	49204·4	9·319
	Dhúlipalla, VII	·25	78 12 53·64	4·8579499	72102·4	13·656
12	Dhúlipalla, VII	·56	63 9 54·98	4·9867202	96988·5	18·369
	Mániam, VIII	·56	72 12 32·04	5·0149210	103495·4	19·601
	Kotapa, IX	·55	44 37 32·98	4·8828336	76354·3	14·461
13	Mániam, VIII	·83	66 14 26·51	5·0741934	118629·7	22·468
	Kotapa, IX	·83	65 19 3·44	5·0710458	117773·0	22·305
	Yérrakönda, XI	·82	48 26 30·05	4·9867202	96988·5	18·369
14	Yérrakönda, XI	·67	46 3 23·92	4·9408003	87257·0	16·526
	Kotapa, IX	·68	55 43 56·15	5·0006504	100149·9	18·968
	Dánapa, XIV	·68	78 12 39·93	5·0741934	118629·7	22·468
15	Kotapa, IX	·41	48 14 1·24	4·8389852	69021·6	13·072
	Dánapa, XIV	·42	61 13 3·79	4·9090534	81106·1	15·361
	Babbépalle, XIII	·42	70 32 54·97	4·9408003	87257·0	16·526
16	Dhúlipalla, VII	·65	57 9 44·88	4·9787478	95224·3	18·035
	Kotapa, IX	·65	56 53 14·50	4·9773949	94928·1	17·979
	Ádamsáb, X	·66	65 57 0·62	5·0149210	103495·4	19·601
17	Ádamsáb, X	·49	63 46 32·12	4·9576042	90699·4	17·178
	Kotapa, IX	·49	45 51 50·98	4·8607152	72503·0	13·743
	Pálapáru, XII	·49	70 21 36·90	4·9787478	95224·3	18·035
18	Kotapa, IX	·40	43 20 16·70	4·8065970	64061·5	12·133
	Pálapáru, XII	·40	60 19 52·63	4·9090534	81106·1	15·361
	Babbépalle, XIII	·40	76 19 50·67	4·9576042	90699·4	17·178
19	Dánapa, XIV	·41	75 8 39·57	4·9521602	89569·5	16·964
	Babbépalle, XIII	·41	56 42 38·48	4·8890841	77461·2	14·671
	Medaraméttla, XV	·40	48 8 41·95	4·8389852	69021·6	13·072
20	Babbépalle, XIII	·50	45 33 1·19	4·8701151	74150·7	14·044
	Medaraméttla, XV	·51	74 52 23·26	5·0011835	100272·9	18·991
	Faranguldinne, XVI	·51	59 34 35·55	4·9521602	89569·5	16·964

PRINCIPAL TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle			Distance		
						Log. feet	Feet	Miles
21	Faranguldinne, XVI	.46	61	49	51.77	4.9306122	85233.9	16.143
	Medaramēṭla, XV	.47	68	5	24.55	4.9528020	89702.0	16.989
	Ongole, XVIII	.46	50	4	43.68	4.8701151	74150.7	14.044
22	Medaramēṭla, XV	.46	65	22	45.28	4.9398722	87070.7	16.491
	Ongole, XVIII	.46	51	45	33.03	4.8763673	75225.9	14.247
	Chemakurti, XIX	.46	62	51	41.69	4.9306122	85233.9	16.143
23	Dánapa, XIV	.51	82	0	55.74	5.0246808	105847.6	20.047
	Medaramēṭla, XV	.51	51	32	19.13	4.9226888	83693.0	15.851
	Pēddakaltippa, XVII	.50	46	26	45.13	4.8890841	77461.2	14.671
24	Medaramēṭla, XV	.50	51	58	22.98	4.9241672	83978.3	15.905
	Pēddakaltippa, XVII	.49	44	52	47.58	4.8763673	75225.9	14.247
	Chemakurti, XIX	.50	83	8	49.44	5.0246808	105847.6	20.047
25	Chemakurti, XIX	.55	63	30	3.58	4.9644198	92134.0	17.450
	Ongole, XVIII	.54	58	44	43.90	4.9445257	88008.7	16.668
	Netivaripālēm, XX	.54	57	45	12.52	4.9398722	87070.7	16.491
26	Ongole, XVIII	.52	48	8	37.15	4.8883724	77334.3	14.647
	Netivaripālēm, XX	.53	69	18	47.75	4.9873768	97135.3	18.397
	Puripád, XXI	.53	62	32	35.10	4.9644198	92134.0	17.450
27	Netivaripālēm, XX	.65	71	33	34.36	5.0587648	114489.3	21.684
	Puripád, XXI	.65	68	35	23.24	5.0506028	112357.7	21.280
	Kuchērla, XXIV	.65	39	51	2.40	4.8883724	77334.3	14.647
28	Puripád, XXI	.58	48	46	40.21	4.9379450	86685.2	16.418
	Kuchērla, XXIV	.58	47	48	6.17	4.9313501	85378.8	16.170
	Darutippa, XXV	.58	83	25	13.62	5.0587648	114489.3	21.684
29	Darutippa, XXV	.31	65	27	53.97	4.9038126	80133.2	15.177
	Kuchērla, XXIV	.31	34	46	10.55	4.7009972	50233.9	9.514
	Kesavaram, XXVI	.32	79	45	55.48	4.9379450	86685.2	16.418
30	Kuchērla, XXIV	.51	84	18	20.08	5.0337849	108089.9	20.472
	Kesavaram, XXVI	.51	48	9	31.09	4.9080865	80925.7	15.327
	Chákalakōnda, XXVII	.51	47	32	8.83	4.9038126	80133.2	15.177
31	Chemakurti, XIX	.59	62	56	27.81	4.9810702	95734.9	18.132
	Netivaripālēm, XX	.59	62	6	25.72	4.9777830	95013.0	17.995
	Nishánkōnda, XXII	.58	54	57	6.47	4.9445257	88008.7	16.668
32	Nishánkōnda, XXII	.83	68	56	48.16	5.0851272	121654.2	23.041
	Netivaripālēm, XX	.83	63	47	44.83	5.0680326	116958.7	22.151
	Pichērla, XXIII	.82	47	15	27.01	4.9810702	95734.9	18.132
33	Netivaripālēm, XX	.62	35	28	11.06	4.8563112	71830.9	13.604
	Pichērla, XXIII	.63	65	11	2.99	5.0506028	112357.7	21.280
	Kuchērla, XXIV	.63	79	20	45.95	5.0851272	121654.2	23.041
34	Pichērla, XXIII	.44	57	33	39.20	4.9080865	80925.7	15.327
	Kuchērla, XXIV	.44	73	55	31.73	4.9644429	92138.9	17.450
	Chákalakōnda, XXVII	.44	48	30	49.07	4.8563112	71830.9	13.604
35	Chákalakōnda, XXVII	.70	61	37	20.05	5.0156756	103675.4	19.635
	Kesavaram, XXVI	.69	51	50	37.78	4.9668800	92657.4	17.549
	Rájalli, XXVIII	.70	66	32	2.17	5.0337849	108089.9	20.472

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle				Distance		
							Log. feet	Feet	Miles
36	Kesavaram, XXVI	.68	71	43	43.97	5.0521689	112763.6	21.357	
	Rájalli, XXVIII	.68	47	27	21.33	4.9419603	87490.4	16.570	
	Nishánbodu, XXIX	.68	60	48	54.70	5.0156756	103675.4	19.635	
37	Nishánbodu, XXIX	.80	56	49	24.55	5.0218579	105161.8	19.917	
	Rájalli, XXVIII	.81	59	20	46.27	5.0337699	108086.1	20.471	
	Kistama, XXXI	.81	63	49	49.18	5.0521689	112763.6	21.357	
38	Rájalli, XXVIII	.81	53	35	16.68	5.0149385	103499.6	19.602	
	Kistama, XXXI	.82	71	33	26.72	5.0863691	122002.6	23.107	
	Pallakõnda, XXXII	.82	54	51	16.60	5.0218579	105161.8	19.917	
39	Chákalakõnda, XXVII	.86	68	49	11.50	5.0997772	125828.0	23.831	
	Rájalli, XXVIII	.85	67	48	56.02	5.0967505	124954.1	23.666	
	Yérrakõnda, XXX	.85	43	21	52.48	4.9668800	92657.4	17.549	
40	Rájalli, XXVIII	1.10	65	15	32.58	5.1260348	133670.3	25.316	
	Yérrakõnda, XXX	1.10	55	59	22.01	5.0863691	122002.6	23.107	
	Pallakõnda, XXXII	1.10	58	45	5.41	5.0997772	125828.0	23.831	
41	Kistama, XXXI	.61	67	54	55.64	5.0176238	104141.5	19.724	
	Pallakõnda, XXXII	.60	45	1	25.88	4.9003832	79502.9	15.057	
	Vutukúr, XXXIII	.60	67	3	38.48	5.0149385	103499.6	19.602	
42	Pallakõnda, XXXII	.57	54	11	39.13	4.9431966	87739.8	16.617	
	Vutukúr, XXXIII	.57	51	31	22.86	4.9278564	84694.7	16.041	
	Pálchërla, XXXV	.56	74	16	58.01	5.0176238	104141.5	19.724	
43	Pálchërla, XXXV	.52	57	32	46.38	4.9289467	84907.6	16.081	
	Vutukúr, XXXIII	.52	61	45	54.91	4.9476786	88650.0	16.790	
	Kayyúr, XXXVI	.52	60	41	18.71	4.9431966	87739.8	16.617	
44	Vutukúr, XXXIII	.41	40	27	26.97	4.7967485	62625.1	11.861	
	Kayyúr, XXXVI	.41	77	55	44.01	4.9748711	94378.1	17.875	
	Gurramkõnda, XXXVII	.41	61	36	49.02	4.9289467	84907.6	16.081	
45	Kayyúr, XXXVI	.28	70	50	48.31	4.8511842	70987.9	13.445	
	Gurramkõnda, XXXVII	.28	52	42	28.14	4.7765867	59784.2	11.323	
	Pillimedu, XL	.28	56	26	43.55	4.7967485	62625.1	11.861	
46	Gurramkõnda, XXXVII	.51	73	58	6.27	5.0012145	100280.0	18.992	
	Pillimedu, XL	.50	63	9	33.64	4.9689358	93097.0	17.632	
	Ánëpúdi, XXXIX	.50	42	52	20.09	4.8511842	70987.9	13.445	
47	Kistama, XXXI	.47	61	44	37.67	4.9256896	84273.2	15.961	
	Vutukúr, XXXIII	.47	62	3	24.15	4.9269560	84519.3	16.007	
	Bandalduru, XXXIV	.46	56	11	58.18	4.9003832	79502.9	15.057	
48	Vutukúr, XXXIII	.62	77	8	9.44	5.0478926	111658.7	21.147	
	Bandalduru, XXXIV	.61	55	29	22.23	4.9748711	94378.1	17.875	
	Gurramkõnda, XXXVII	.61	47	22	28.33	4.9256896	84273.2	15.961	
49	Bandalduru, XXXIV	.54	34	43	7.66	4.8157814	65430.7	12.392	
	Gurramkõnda, XXXVII	.54	68	53	4.87	5.0300654	107168.1	20.297	
	Gudali, XXXVIII	.54	76	23	47.47	5.0478926	111658.7	21.147	
50	Gurramkõnda, XXXVII	.40	55	27	0.62	4.8904856	77711.6	14.718	
	Gudali, XXXVIII	.40	80	38	38.94	4.9689358	93097.0	17.632	
	Ánëpúdi, XXXIX	.39	43	54	20.44	4.8157814	65430.7	12.392	

PRINCIPAL TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle			Distance		
						Log. feet	Feet	Miles
51	Ānēpūdi, XXXIX	.73	71	21	18° 26'	5°0596823	114731.4	21.729
	Pillimedu, XL	.72	52	44	1° 27'	4°9839150	96364.0	18.251
	Kambākamdurgam, XLI	.72	55	54	40° 47'	5°0012145	100280.0	18.992
52	Pillimedu, XL	.64	73	15	45° 09'	5°0680779	116970.9	22.154
	Kambākamdurgam, XLI	.63	36	48	9° 94'	4°8643496	73172.8	13.858
	Yerpet, XLIII	.64	69	56	4° 07'	5°0596823	114731.4	21.729
53	Yerpet, XLIII	.97	59	3	35° 47'	5°0726030	118196.1	22.386
	Kambākamdurgam, XLI	.98	62	51	25° 84'	5°0885928	122628.9	23.225
	Nagari, XXXIII	.97	58	4	58° 69'	5°0680779	116970.9	22.154
54	Kambākamdurgam, XLI	1°10	72	56	17° 61'	5°1557144	143124.7	27.107
	Nagari, XXXIII	1°09	54	55	29° 19'	5°0882263	122525.4	23.206
	Chēmbedu, XXXV	1°09	52	8	13° 20'	5°0726030	118196.1	22.386
55	Ānēpūdi, XXXIX	.69	78	40	1° 65'	5°0767564	119331.9	22.601
	Kambākamdurgam, XLI	.68	48	58	49° 01'	4°9629578	91824.4	17.391
	Jonangipālēm, XLII	.69	52	21	9° 34'	4°9839150	96364.0	18.251
56	Jonangipālēm, XLII	.69	72	9	49° 57'	5°0802491	120295.4	22.783
	Kambākamdurgam, XLI	.68	37	2	51° 34'	4°8815827	76134.7	14.419
	Rēttambedu, XLIV	.68	70	47	19° 09'	5°0767564	119331.9	22.601
57	Kambākamdurgam, XLI	.83	45	27	40° 17'	4°9724256	93848.1	17.774
	Rēttambedu, XLIV	.83	68	31	30° 90'	5°0882263	122525.4	23.206
	Chēmbedu, XXXV	.83	66	0	48° 93'	5°0802491	120295.4	22.783
58	Dhār, XXXIX	.77	79	11	27° 22'	5°1063620	127750.3	24.195
	Sánjib, XLI	.76	45	11	35° 78'	4°9650818	92274.5	17.476
	Gundálamma, XLV	.77	55	36	57° 00'	5°0307325	107332.8	20.328
59	Sánjib, XLI	.69	42	45	15° 35'	4°9394926	86994.7	16.476
	Gundálamma, XLV	.69	51	45	59° 82'	5°0028596	100660.6	19.065
	Kappakōnda, XLVI	.69	85	28	44° 83'	5°1063620	127750.3	24.195
60	Kappakōnda, XLVI	.52	47	32	46° 81'	4°8948934	78504.3	14.868
	Gundálamma, XLV	.53	77	36	23° 02'	5°0167005	103920.3	19.682
	Nágal, XLVIII	.53	54	50	50° 17'	4°9394926	86994.7	16.476
61	Gundálamma, XLV	.43	65	24	37° 66'	4°9190357	82991.9	15.718
	Nágal, XLVIII	.42	55	15	24° 82'	4°8750443	74997.1	14.204
	Kalimámidi, XLIX	.42	59	19	57° 52'	4°8948934	78504.3	14.868
62	Dhār, XXXIX	.53	67	11	8° 65'	4°9791882	95320.9	18.053
	Gundálamma, XLV	.53	49	38	58° 56'	4°8965786	78809.5	14.926
	Paguráyi, XLVII	.53	63	9	52° 79'	4°9650818	92274.5	17.476
63	Gundálamma, XLV	.49	59	57	0° 50'	4°9390044	86896.9	16.458
	Paguráyi, XLVII	.49	48	20	9° 07'	4°8750443	74997.1	14.204
	Kalimámidi, XLIX	.49	71	42	50° 43'	4°9791882	95320.9	18.053
64	Nágal, XLVIII	.54	88	19	5° 25'	5°0596541	114724.0	21.728
	Kalimámidi, XLIX	.53	45	22	17° 03'	4°9121232	81681.4	15.470
	Nallakōnda, L	.54	46	18	37° 73'	4°9190357	82991.9	15.718
65	Kalimámidi, XLIX	.59	43	45	23° 36'	4°9039927	80166.5	15.183
	Nallakōnda, L	.59	54	27	55° 15'	4°9746394	94327.7	17.865
	Kappa, LII	.59	81	46	41° 49'	5°0596541	114724.0	21.728

NOTE.—1. Stations Nagari, XXXIII and Chēmbedu, XXXV appertain to the Madras Longitudinal Series.
2. Stations Dhār, XXXIX and Sánjib, XLI appertain to the Bider Longitudinal Series of the South-East Quadrilateral.

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle			Distance		
						Log. feet	Feet	Miles
66	Kappa, LII	.46	49	6	48°54'	4.8745470	74911.2	14.188
	Nallakönda, L	.47	76	53	2°17'	4.9845408	96503.0	18.277
	Pothkönda, LIV	.46	54	0	9°29'	4.9039927	80166.5	15.183
67	Nallakönda, L	.49	60	34	59°71'	4.9431856	87737.6	16.617
	Pothkönda, LIV	.50	71	22	0°17'	4.9797496	95444.2	18.077
	Náwilmëtta, LIII	.49	48	3	0°12'	4.8745470	74911.2	14.188
68	Nágal, XLVIII	.63	56	7	37°87'	4.9926715	98326.7	18.622
	Nallakönda, L	.63	80	15	52°71'	5.0671490	116721.0	22.106
	Elangoi, LI	.62	43	36	29°42'	4.9121232	81681.4	15.470
69	Nallakönda, L	.49	41	29	29°33'	4.8368982	68690.8	13.010
	Elangoi, LI	.49	67	0	18°85'	4.9797496	95444.2	18.077
	Náwilmëtta, LIII	.49	71	30	11°82'	4.9926715	98326.7	18.622
70	Pothkönda, LIV	.58	112	59	8°76'	5.1711172	148291.8	28.086
	Náwilmëtta, LIII	.57	34	0	41°56'	4.9547367	90102.5	17.065
	Adakönda, LVI	.57	33	0	9°68'	4.9431856	87737.6	16.617
71	Náwilmëtta, LIII	.70	35	51	0°97'	4.9470394	88519.6	16.765
	Adakönda, LVI	.71	43	0	13°90'	5.0132018	103086.5	19.524
	Lachmipuram, LV	.71	101	8	45°13'	5.1711172	148291.8	28.086
72	Pothkönda, LIV	.67	61	38	19°36'	5.0132018	103086.5	19.524
	Náwilmëtta, LIII	.67	69	51	43°13'	5.0413376	109986.1	20.831
	Lachmipuram, LV	.67	48	29	57°51'	4.9431856	87737.6	16.617
73	Lachmipuram, LV	.53	64	19	51°50'	4.9636228	91965.1	17.418
	Adakönda, LVI	.53	55	29	40°55'	4.9247136	84084.0	15.925
	Yédlagattu, LVII	.53	60	10	27°95'	4.9470394	88519.6	16.765
74	Adakönda, LVI	.56	51	53	24°62'	4.9230497	83762.5	15.864
	Yédlagattu, LVII	.57	68	21	17°06'	4.9954118	98949.1	18.740
	Parampúdi, LX	.57	59	45	18°32'	4.9636228	91965.1	17.418
75	Yédlagattu, LVII	.34	82	40	54°45'	4.9676237	92816.2	17.579
	Parampúdi, LX	.34	33	47	46°85'	4.7164402	52052.3	9.858
	Sudkönda, LIX	.34	63	31	18°70'	4.9230497	83762.5	15.864
76	Lachmipuram, LV	.31	37	55	22°72'	4.7237053	52930.4	10.025
	Yédlagattu, LVII	.32	64	33	53°44'	4.8908340	77773.9	14.730
	Aupád, LVIII	.32	77	30	43°84'	4.9247136	84084.0	15.925
77	Yédlagattu, LVII	.22	84	13	25°12'	4.8475870	70402.3	13.334
	Aupád, LVIII	.21	47	21	28°96'	4.7164402	52052.3	9.858
	Sudkönda, LIX	.22	48	25	5°92'	4.7237053	52930.4	10.025
78	Parampúdi, LX	.36	42	23	42°57'	4.7977135	62764.4	11.887
	Sudkönda, LIX	.36	51	59	37°17'	4.8653936	73348.9	13.892
	Bandanchërla, LXI	.37	85	36	40°26'	4.9676237	92816.2	17.579
79	Sudkönda, LIX	.54	73	46	42°08'	5.0559412	113747.3	21.543
	Bandanchërla, LXI	.55	74	13	41°96'	5.0569190	114003.7	21.592
	Dudugat, LXIII	.54	31	59	35°96'	4.7977135	62764.4	11.887
80	Bandanchërla, LXI	.55	34	36	9°75'	4.8218499	66351.4	12.567
	Dudugat, LXIII	.56	68	36	33°10'	5.0365942	108791.3	20.604
	Dálgattu, LXV	.56	76	47	17°15'	5.0559412	113747.3	21.543

PRINCIPAL TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle			Distance		
						Log. feet	Feet	Miles
81	Dudugat, LXIII	.48	62	22	28.51	4.9699789	93320.9	17.674
	Dálgattu, LXV	.48	78	34	45.24	5.0138606	103243.0	19.554
	Yérragattu, LXVI	.48	39	2	46.25	4.8218499	66351.4	12.567
82	Dálgattu, LXV	.55	75	37	19.00	5.0211283	104985.3	19.884
	Yérragattu, LXVI	.54	44	56	34.67	4.8840009	76559.8	14.500
	Jammalavoidurgam, LXVII	.55	59	26	6.33	4.9699789	93320.9	17.674
83	Parampúdi, LX	.59	72	22	23.64	5.0360295	108650.0	20.578
	Bandanchérla, LXI	.58	67	34	52.06	5.0227837	105386.2	19.960
	Nágaldurgam, LXII	.58	40	2	44.30	4.8653936	73348.9	13.892
84	Nágaldurgam, LXII	.70	62	18	23.84	5.0201754	104755.2	19.840
	Bandanchérla, LXI	.70	51	0	16.86	4.9635440	91948.4	17.414
	Inupráyi, LXIV	.70	66	41	19.30	5.0360295	108650.0	20.578
85	Bandanchérla, LXI	.65	46	58	15.71	4.9303500	85182.4	16.133
	Inupráyi, LXIV	.66	69	0	18.73	5.0365942	108791.3	20.604
	Dálgattu, LXV	.66	64	1	25.56	5.0201754	104755.2	19.840
86	Inupráyi, LXIV	.46	52	43	19.92	4.8840009	76559.8	14.500
	Dálgattu, LXV	.47	64	59	10.33	4.9404740	87191.5	16.514
	Jammalavoidurgam, LXVII	.47	62	17	29.75	4.9303500	85182.4	16.133
87	Jammalavoidurgam, LXVII	.53	39	26	50.44	4.8419484	69494.2	13.162
	Yérragattu, LXVI	.53	66	50	32.67	5.0024396	100563.3	19.046
	Jujúrdurgam, LXVIII	.53	73	42	36.89	5.0211283	104985.3	19.884
88	Yérragattu, LXVI	.32	80	22	51.06	4.9213768	83440.5	15.803
	Jujúrdurgam, LXVIII	.32	44	25	8.89	4.7725634	59233.0	11.218
	Bésváda, LXIX	.32	55	12	0.05	4.8419484	69494.2	13.162
89	Bésváda, LXIX	.35	55	38	54.20	4.8513700	71018.3	13.450
	Jujúrdurgam, LXVIII	.35	48	25	18.01	4.8085355	64348.1	12.187
	Anantavaram, LXXI	.35	75	55	47.79	4.9213768	83440.5	15.803
90	Jujúrdurgam, LXVIII	.41	66	13	54.87	4.9129702	81840.9	15.500
	Anantavaram, LXXI	.40	61	11	31.33	4.8940845	78358.2	14.841
	Chintalapád, LXXII	.40	52	34	33.80	4.8513700	71018.3	13.450
91	Jammalavoidurgam, LXVII	.57	44	31	29.43	4.8886834	77389.8	14.657
	Jujúrdurgam, LXVIII	.58	69	48	16.84	5.0152742	103579.6	19.617
	Jónnalagadda, LXX	.58	65	40	13.73	5.0024396	100563.3	19.046
92	Jujúrdurgam, LXVIII	.40	57	24	41.91	4.8739743	74812.5	14.169
	Jónnalagadda, LXX	.41	61	56	41.11	4.8940845	78358.2	14.841
	Chintalapád, LXXII	.40	60	38	36.98	4.8886834	77389.8	14.657
93	Chintalapád, LXXII	.32	51	35	51.70	4.8159660	65458.5	12.397
	Anantavaram, LXXI	.32	49	56	19.09	4.8056969	63928.9	12.108
	Lagadapád, LXXIII	.33	78	27	49.21	4.9129702	81840.9	15.500
94	Anantavaram, LXXI	.33	87	5	20.73	4.9453856	88183.2	16.701
	Lagadapád, LXXIII	.32	45	3	53.60	4.7959226	62506.1	11.838
	Gorantla, LXXIV	.32	47	50	45.67	4.8159660	65458.5	12.397
95	Gorantla, LXXIV	.41	67	45	23.22	4.9388130	86858.6	16.450
	Lagadapád, LXXIII	.40	42	14	33.86	4.7999433	63087.5	11.948
	Ádamsáb, X	.41	70	0	2.92	4.9453856	88183.2	16.701

MADRAS MERIDIONAL AND COAST SERIES.

No. of Triangle	Station	Spherical Excess	Corrected Plane Angle	Distance		
				Log. feet	Feet	Miles
96	Lagadapád, LXXIII	"	° ' "			
	Ádamsáb, X	·38	80 12 16·56	4·9773949	94928·1	17·979
	Dhúlipalla, VII	·37	35 25 8·36	4·7468647	55829·6	10·574
97	Chintalapád, LXXII	·38	64 22 35·08	4·9388130	86858·6	16·450
	Lagadapád, LXXIII	·30	64 23 49·15	4·8395110	69105·2	13·088
	Chikri, LXXV	·30	59 3 51·41	4·8177541	65728·6	12·449
98	Lagadapád, LXXIII	·30	56 32 19·44	4·8056969	63928·9	12·108
	Chikri, LXXV	·25	54 57 33·38	4·7696721	58839·9	11·144
	Dhúlipalla, VII	·25	50 58 25·13	4·7468647	55829·6	10·574
		·25	74 4 1·49	4·8395110	69105·2	13·088

January, 1892.

J. ECCLES,
In charge Computing Office.

MADRAS MERIDIONAL AND COAST SERIES.

SECONDARY TRIANGULATION. TRIANGLES.

PRINCIPAL-AUXILIARY AND SECONDARY STATIONS, AND INTERSECTED POINTS.

Differences between the common sides of two triangles are shown by the small figures in the 5th and 12th columns between the data of the triangles, the first in order having supplied the greater value.

No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used
		°	'	"	Log. feet	Feet.	Miles				Log. feet	Feet.	Miles	°	'	"	
99	Kándágatla, XII	51	34	55	5°095345	124550	23'589	Inch	104	Niálamari, II	53	39	13	4°916964	82597	15'643	Inch
	Gunigat	77	32	35	5°190961	155225	29'399	C.T.I.		Anantagiri	60	58	45	4°952658	89672	16'983	"
	Anantagiri	50	52	30	5°091041	123322	23'350	"		Urulkónḍa Hill Building	93	21	6	4°909489	93216	17'655	"
100	Kándágatla, XII	35	34	26	4°969489	93216	17'655	"	105	Gunigat	37	53	51	4°916964	82597	15'643	"
	Niálamari, II	104	21	45	5°190961	155225	29'399	"		Anantagiri	29	57	34	4°827056	67152	12'718	"
	Anantagiri	40	3	49	5°013393	103132	19'533	"		Urulkónḍa Hill Building	5	09	53	5°095345	124550	23'589	"
101	Kándágatla, XII	64	36	9	5°199626	158353	29'991	"	106	Kándágatla, XII	34	53	49	4°793188	62114	11'764	"
	Anantagiri	53	5	0	5°146592	140150	26'544	"		Niálamari, II	36	53	24	4°814069	65173	12'343	"
	Kandikónḍa Hill Pagoda	5	19	09	5°190961	155225	29'399	"		Sirkónḍa Hill Building	5	01	33	5°013393	103132	19'533	"
102	Adálgat, XV	48	21	21	4°947645	88643	16'788	7	107	Niálamari, II	40	51	22	4°821440	66289	12'555	"
	Anantagiri, I	49	26	10	4°954790	90113	17'067	"		Anantagiri	26	3	12	4°648425	44507	8'429	"
	Khamam	82	12	29	5°070130	117525	22'259	"		Ráipalle Hill Pagoda	4	96	94	4°969489	93216	17'655	"
108	Gunigat	45	17	32	4°947114	88535	16'768	C.T.I.	108	Niálamari, II	16	3	31	4°616809	41382	7'838	"
	Anantagiri	43	36	31	4°934103	85922	16'273	"		Anantagiri	22	29	6	4°757490	57212	10'836	"
	Khamam Hill Fort				5°095345	124550	23'589	"		Sirpuram Pagoda				4°969489	93216	17'655	"

* This base is taken from the Synoptical Volume of the Bider Longitudinal Series.

NOTES.—1. Names followed by Roman numerals are those of the Principal Stations.

2. The value of the side is given in the same line with the opposite angle.

4. C.T.I. stands for "Circular Transit Instrument"—probably a small theodolite with complete vertical circle.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
109	Niálamari, II Anantagiri Munagal Mosque	7 51 57 5 47 7	4 732818 4 600024 4 969489	54053 39813 93216	10 237 7 540 17 655	121	Nalgonda Uppalagutta Appajipet Mosque	44 25 6 15 57 40	4 986071 4 580349 5 080218	96844 38049 120287	18 342 7 206 22 782	Inch C.T.I. "
110	Kándágatla, XII Niálamari, II Undurgónða Hill Building	4 28 9 11 20 20	4 469824 4 871770 5 013393	29500 74434 103132	5 587 14 097 19 533	122	Nalgonda Tirmallappanagutta Appajipet Mosque	139 16 24 8 27 8	5 227625 4 580349 5 140598	168898 38049 138229	31 988 7 206 26 180	"
111	Kándágatla, XII Udagat Undurgónða Hill Building	99 5 7 24 4 39	5 255657 4 871770 5 183927	180159 74434 157731	34 121 14 097 28 926	123	Nalgonda Uppalagutta Samalpallo Hill Mark	33 1 57 58 44 34	4 816915 5 012315 5 080218	65602 102876 120287	12 425 19 484 22 782	"
112	Kándágatla, XII Niálamari, II Strayapet Mosque	21 9 12 22 11 19	4 734191 4 753944 5 013393	52224 59747 103132	10 270 10 748 19 533	124	Nalgonda Tirmallappanagutta Samalpallo Hill Mark	61 49 21 45 19 43	5 105571 5 012315 5 140598	127518 102876 138229	24 151 19 484 26 180	"
113	Kándágatla, XII Niálamari, II Machavaram Pagoda	6 27 51 83 7 32	4 064872 5 010270 5 013393	11611 102393 103132	2 199 19 393 19 533	125	Devarakónða Tirmallappanagutta Návalipur	10 40 7 15 55 2 153 24 51	4 740704 4 911376 5 124062	55043 81541 133064	10 425 15 443 25 202	"
114	Kándágatla, XII Udagat Nalgonda	26 41 15 76 32 0 76 46 45	4 847959 5 183485 5 183927	70463 152576 157731	13 345 28 897 28 926	126	Nalgonda Tirmallappanagutta Návalipur	23 25 5 63 1 29 93 33 26	4 740704 5 091412 5 140598	55043 123428 138229	10 425 23 376 26 180	"
115	Kándágatla, XII Niálamari, II Nalgonda	76 52 1 65 15 39 37 52 20	5 213783 5 183485 5 013393	163600 152576 103132	30 985 28 897 19 533	127	Tirmallappanagutta Návalipur Dupallepalle	63 10 23 86 38 12 30 11 25	4 989793 5 038497 4 740704	97677 109269 55043	18 499 20 695 10 425	"
116	Udagat Nalgonda Uppalagutta	74 0 42 71 42 57 34 16 21	5 080218 5 074852 4 847959	120287 118809 70463	22 782 22 502 13 345	128	Tirmallappanagutta Návalipur Yéllammagúðem Fort	20 53 50 77 1 7 4 740704	4 297157 4 733619 4 740704	19822 54153 55043	3 754 10 256 10 425	"
117	Udagat Uppalagutta Malkapur	35 33 0 82 43 33 61 43 27	4 894520 5 126525 5 074852	78437 133821 118809	14 856 25 345 22 502	129	Tirmallappanagutta Návalipur Lingampalle Turret	38 0 19 40 27 40 4 740704	4 538957 4 561763 4 740704	34591 36455 55043	6 551 6 904 10 425	"
118	Nalgonda Uppalagutta Náráyanpur Hill Building	18 13 5 99 38 34 5 080218	4 628761 5 127544 5 080218	42536 13136 120287	8 056 25 405 22 782	130	Tirmallappanagutta Návalipur Perur Fort	101 48 26 28 8 17 4 740704	4 846815 4 529674 4 740704	70277 33859 55043	13 310 6 413 10 425	"
119	Niálamari, II Nalgonda Tirmallappanagutta	44 45 57 78 46 40 56 27 23	5 140598 5 284511 5 213783	138229 192536 163600	26 180 36 465 30 985	131	Tirmallappanagutta Návalipur Halval Fort	53 58 59 25 0 35 4 740704	4 656633 4 374875 4 740704	45356 23707 55043	8 590 4 490 10 425	"
120	Devarakónða Amrabad Tirmallappanagutta	102 11 33 39 10 9 38 38 18	5 313703 5 124062 5 119076	205922 133064 131545	39 000 25 202 24 914	132	Devarakónða Návalipur Ganpur Pagoda	2 51 49 14 58 9 4 911376	4 123925 4 897437 4 911376	13302 68776 81541	2 519 13 026 15 443	"

NOTE.—Station Kándágatla, XII appertains to the Bider Longitudinal Series.
 * This base is taken from the Synoptical Volume of the Bider Longitudinal Series.
 † This base is taken from the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.
 ‡ A small theodolite.

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			Theodolite used		
			Log. feet	Feet	Miles				Log. feet	Feet	Miles			
133	Devarakōnda Tirmalappanagutta Ganpur Pagoda	h.s. " "	13 31 56 13 39 50	4 833311 4 837437 5 124002	68126 68776 133064	12 903 13 026 25 202	145	Tirmalappanagutta Sarangapalle Kakeral	h.s. " "	49 17 12 63 46 38 66 56 10	5 112324 5 185498 5 196485	129516 153284 157212	24 530 29 031 29 775	Inch C.T.I. 86 " "
134	Devarakōnda Návalipur Pálvoi Mosque	h.s. " "	18 2 31 17 29 52	4 637960 4 625088 4 911376	43447 42178 81541	8 229 7 988 15 443	146	Tirmalappanagutta Kakeral Gangadevi	h.s. " "	38 50 23 62 32 38	5 228767 5 034763 5 185498	169343 108334 153284	32 073 20 518 29 031	" "
135	Tirmalappanagutta Návalipur Sangavaram Turret	h.s. " "	8 47 0 25 2 25	4 178966 4 621734 4 740704	15100 41854 55043	2 860 7 927 10 425	147	Devarakōnda Tirmalappanagutta Vēnkāmpet Hill Pagoda	h.s. " "	105 42 59 13 38 5	5 167181 4 556145 5 124002	146954 35987 133064	27 832 6 816 25 202	" "
136	Tirmalappanagutta Návalipur Pōtanūr Choultry	h.s. " "	11 44 55 51 46 33	4 097637 4 084020 4 740704	12521 48308 55043	2 371 9 149 10 425	148	Tirmalappanagutta Gangadevi Vēnkāmpet Hill Pagoda	h.s. " "	69 18 49 67 41 12	5 172039 5 167181 5 034763	148607 146954 108334	28 145 27 832 20 518	" "
137	Devarakōnda Tirmalappanagutta Yēllāpur Hill Mark	h.s. " "	12 56 16 30 42 21	4 635146 4 993212 5 124062	43166 98449 133064	8 175 18 646 25 202	149	Amrabad Tirmalappanagutta Durgappakōnda	h.s. " "	83 16 40 36 59 48 59 43 32	5 374384 5 156810 5 313793	236801 143486 205922	44 849 27 175 39 000	" "
138	Tirmalappanagutta Návalipur Yēllāpur Hill Mark	h.s. " "	46 37 23 51 0 42	4 606017 4 635146 4 740704	40366 43166 55043	7 645 8 175 10 425	150	Tirmalappanagutta Kakeral Durgappakōnda	h.s. " "	58 39 37 81 31 46 39 48 37	5 310656 5 374384 5 185498	204483 236801 153284	38 728 44 849 29 031	" "
139	Niālamari, II Tirmalappanagutta Sarangapalle	h.s. " "	54 22 52 41 1 11 84 35 57	5 196485 5 103558 5 284511	157212 126928 192536	29 775 24 039 36 405	151	Kakeral Gangadevi Durgappakōnda	h.s. " "	42 41 23 82 10 49 55 7 48	5 145962 5 310656 5 228767	139946 204483 169343	26 505 38 728 32 073	" "
140	Niālamari, II Anantagiri Pulichintala	h.s. " "	46 22 8 96 58 31 36 39 21	5 053127 5 190284 4 969489	113013 154983 93216	21 404 29 353 17 655	152	Kakeral Durgappakōnda Sadikōnda No. 1	h.s. " "	99 57 53 14 52 55 65 9 12	5 346239 4 762484 5 310656	221042 57874 204483	42 034 10 901 38 728	" "
141	Niālamari, II Sarangapalle Pulichintala	h.s. " "	44 51 39 81 7 26 54 0 55	5 043944 5 190284 5 103558	110648 154983 126928	20 956 29 353 24 039	153	Dhūlipalla, VII Mániam, VIII Bellamkōnda Rock	h.s. " "	60 4 22 28 11 22	4 820882 4 557333 4 882834	66204 36085 76354	12 539 6 834 14 461	7 " "
142	Niālamari, II Anantagiri Pōhēncharla Hill Pagoda	h.s. " "	41 53 4 55 45 43	4 797904 4 800720 4 909489	62792 77753 93216	11 892 14 726 17 655	154	Voruvakallu, VI Dhūlipalla, VII Bellamkōnda Rock	h.s. " "	33 21 14 70 34 30	4 557333 4 791668 4 804159	36085 61897 63703	6 834 11 723 12 065	" "
143	Anantagiri Pulichintala Pōhēncharla Hill Pagoda	h.s. " "	41 12 48 32 10 7	4 890452 4 797904 5 053127	77706 62792 113013	14 717 11 892 21 404	155	Mániam, VIII Kotapa, IX Viravillipaya	h.s. " "	91 3 29 27 35 58	5 043398 4 709323 4 986720	110509 51206 96988	20 930 9 698 18 369	24 " "
144	Anantagiri Pulichintala Jaggayapet Pagoda	h.s. " "	17 19 7 24 55 22	4 699349 4 850283 5 053127	50044 70841 113013	9 478 13 417 21 404	156	Dhūlipalla, VII Kotapa, IX Viravillipaya	h.s. " "	93 50 11 17 1 36	5 043398 4 510968 5 014921	110509 32432 103495	20 930 6 142 19 601	" "

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangles used	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
157	Kotapa, IX Adamsáb, X Viravillipaya	73 54 51 58 40 56 47 24 13	5° 09' 44.3 5° 04' 33.98 4° 47' 87.748	124292 110509 95224	23 540 20 930 18 035	169	Pulichintala Mátharsála Kollúr Mosque	45 11 56 66 17 4	4° 23' 52.94 4° 34' 59.0 4° 35' 30.34	17191 22181 22544	3 256 4 201 4 270	Inch C.T.I. 86
158	Kotapa, IX Viravillipaya Sudikónda No. 1	68 9 27 60 29 2 51 21 31	5° 11' 85.54 5° 09' 33.6 5° 04' 33.98	131327 123122 110509	24 873 23 319 20 930	170	Pulichintala Mátharsálik Kattevaram Pagoda	40 59 32 114 12 18	4° 54' 71.81 4° 60' 34.1 4° 35' 30.34	35252 49016 22544	6 676 9 283 4 270	C.T.I. 86
159	Adamsáb, X Viravillipaya Rághavapuram	82 12 32 40 56 2	5° 20' 09.64 5° 27' 40.49 5° 09' 44.43	158841 187953 124292	30 084 35 597 23 540	171	Viravillipaya Rághavapuram Vaikuntapuram Pagoda	30 19 1 67 59 39	4° 00' 86.54 5° 17' 26.97 5° 20' 09.64	81031 148832 158841	15 347 28 188 30 084	"
160	Viravillipaya Rághavapuram Pulichintala	41 28 8 106 13 29	4° 9' 46.518 5° 03' 96.12 5° 20' 09.64	88413 109550 158841	16 745 20 748 30 084	172	Viravillipaya Rághavapuram Mangalagiri	48 0 28 80 38 13	5° 17' 94.21 5° 30' 24.69 5° 20' 09.64	151154 200664 158841	28 628 38 004 30 084	"
161	Viravillipaya Pulichintala Sárangapalle	64 57 35 57 4 17	5° 04' 39.44 5° 07' 28.04 5° 03' 96.12	110648 118251 109550	20 956 22 306 20 748	173	Adamsáb, X Viravillipaya Mangalagiri	110 16 36 34 12 4 35 31 20	5° 30' 24.69 5° 08' 00.66 5° 09' 44.43	200664 120245 124292	38 004 22 774 23 540	"
162	Rághavapuram Pulichintala Jammalavoidurgam Hill	150 22 27 17 1 21	5° 30' 16.83 5° 07' 41.56 4° 9' 46.518	200301 118619 88413	37 936 22 466 16 745	174	Adamsáb, X Mangalagiri Vejjéla	38 7 3 46 36 19 95 16 38	4° 87' 23.90 4° 94' 32.29 5° 08' 00.66	74540 87746 120245	14 117 16 619 22 774	"
163	Rághavapuram Pulichintala Kóngramalai Hill Pagoda	41 35 26 47 1 9	4° 76' 86.85 4° 8' 10.909 4° 9' 46.518	58706 64701 88413	11 119 12 254 16 745	175	Mangalagiri Vejjéla Nidumakala Hill	81 29 43 41 34 33	4° 94' 43.47 4° 77' 10.63 4° 87' 23.90	87973 59029 74540	16 661 11 180 14 117	"
164	Rághavapuram Pulichintala Juzzúr Pagoda	160 37 25 5 49 50	5° 09' 72.8 4° 58' 37.25 4° 9' 46.518	125236 38346 88413	23 719 7 263 16 745	176	Mangalagiri Vejjéla Lámkónda Stone	56 20 17 42 41 28	4° 79' 80.97 4° 70' 06.4 4° 87' 23.90	62820 51176 74540	11 898 9 692 14 117	"
165	Rághavapuram Pulichintala Chintápalle Building	21 47 55 44 8 35	4° 55' 57.63 4° 82' 28.76 4° 9' 46.518	35955 67434 88413	6 810 12 771 16 745	177	Mangalagiri Vejjéla Péddapalakalúr	49 47 32 69 6 26 61 6 2	4° 81' 30.77 4° 00' 06.12 4° 87' 23.90	65024 79545 74540	12 315 15 005 14 117	"
166	Viravillipaya Pulichintala Chintápalle Building	18 54 54 62 4 54	4° 55' 57.63 4° 99' 12.60 5° 03' 96.12	35955 98008 109550	6 810 18 562 20 748	178	Adamsáb, X Vejjéla Péddapalakalúr	44 18 0 26 10 12 109 31 48	4° 81' 30.77 4° 61' 34.37 4° 94' 32.29	65024 41062 87746	12 315 7 777 16 619	86
167	Rághavapuram Pulichintala Mátharsála	14 6 18 93 0 21	4° 35' 30.34 4° 96' 58.1 4° 9' 46.518	22544 93381 88413	4 270 17 496 16 745	179	Adamsáb, X Mangalagiri Chivalúr	29 19 36 97 43 40 52 56 44	4° 86' 80.37 5° 17' 40.66 5° 08' 00.66	73797 149302 120245	13 977 28 277 22 774	"
168	Sárangapalle Pulichintala Mátharsála	11 45 22 78 10 43	4° 35' 30.34 5° 03' 46.34 5° 04' 39.44	22544 108301 110648	4 270 20 512 20 956	180	Mangalagiri Péddapalakalúr Chivalúr	100 54 53 37 46 12 41 18 55	5° 07' 30.07 4° 86' 80.37 4° 90' 06.12	118306 73797 79545	22 406 13 977 15 065	"

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	
			Log. feet	Feet	Miles				Log. feet	Feet	Miles		
181	Vejilla Pédapalalalúr Guntúr Base-line N. End	s. h.s. s.	34 39 32 23 28 56 121 51 32	4 638865 4 484379 4 813077	8 246 5 778 12 315	198	Mangalagiri Pédapalalalúr Bhatiprol	No. 1 h.s. " s.	90 9 13 60 49 14 29 1 33	5 214686 5 155750 4 900612	163940 143136 79545	31 049 27 109 15 065	Inch 86 "
182	Pédapalalalúr Guntúr Base-line N. End Guntúr Base-line S. End	h.s. s. "	37 20 15 51 30 54 91 8 51	4 421789 4 532587 4 638805	5 002 6 456 8 246	194	Adamsáb, X Mangalagiri Bhatiprol	No. 1 h.s. s. "	51 45 10 86 58 0 41 16 50	5 155750 5 260080 5 080066	143136 182003 120245	27 109 34 470 22 774	" " "
183	Vejilla Guntúr Base-line N. End Guntúr Base-line S. End	s. " "	48 59 58 70 20 38 60 39 24	4 421789 4 517938 4 484379	26411 32956 30506	195	Adamsáb, X Mangalagiri Srikakulam Pagoda	No. 1 h.s. " "	40 1 28 103 44 31 5 295807	5 116708 5 295807 5 080066	130830 197609 120245	24 778 37 426 22 774	" " "
184	Adamsáb, X Pédapalalalúr Guntúr Mosque	h.s. h.s. h.s.	25 13 45 111 33 50 19 2 48	4 407631 4 746404 4 613437	25564 55778 41062	196	Mangalagiri Bhatiprol Srikakulam Pagoda	No. 1 h.s. s. "	16 46 31 64 40 10 5 116708	4 620934 5 116708 5 155750	41777 130830 143136	7 912 24 778 27 109	" " "
185	Adamsáb, X Mangalagiri Guntúr Mosque	No. 1 h.s. h.s. h.s.	15 5 15 56 21 53 76 54 10	5 080066 4 844668 4 746404	120245 69931 55778	197	Viravillipaya Sarangapalle Karempúdi	h.s. " "	59 13 25 48 45 43 72 0 52	5 028641 4 970766 5 072804	106817 93490 118251	20 231 17 706 22 396	" " "
186	Adamsáb, X Pédapalalalúr Chamallamúdi Pagoda	h.s. h.s. h.s.	56 21 53 76 54 10 4 613437	4 671635 4 739752 4 613437	46950 54924 41062	198	Viravillipaya Sudikónda No. 1 Karempúdi	h.s. " "	20 24 17 36 43 1 122 52 42	4 739754 4 970766 5 118354	54520 93490 131327	10 326 17 706 24 873	" " "
187	Adamsáb, X Mangalagiri Chérbrólú Pagoda	No. 1 h.s. h.s. h.s.	48 7 33 45 55 16 5 080066	4 953080 4 937506 5 080066	89759 86598 120245	199	Viravillipaya Sarangapalle Kampalli Hill Pagoda	h.s. " "	21 47 43 24 23 49 5 072804	4 784182 4 830476 5 072804	60839 67682 118251	11 523 12 819 22 396	" " "
188	Adamsáb, X Pédapalalalúr Chérbrólú Pagoda	h.s. h.s. h.s.	54 18 30 97 39 42 4 613437	4 851046 4 937506 4 613437	70965 86598 41062	200	Sarangapalle Karempúdi Kampalli Hill Pagoda	h.s. " "	73 9 32 33 8 21 5 028641	5 027417 4 784182 5 028641	106516 60839 106817	20 174 11 523 20 231	" " "
189	Mangalagiri Chivalúr Bésváda Hill Bedoubt	No. 1 h.s. s. s.	117 20 46 18 27 26 112 11 55	4 973261 4 525233 4 868037	94029 33515 73797	201	Viravillipaya Karempúdi Matsavaram Fort	h.s. " "	57 18 9 41 46 56 4 634 5	4 901321 4 799919 4 901321	79675 63084 93490	15 090 11 948 17 706	" " "
190	Mangalagiri Chivalúr Sitanagaram Hill Pagoda	No. 1 h.s. s. s.	15 30 8 42 15 53 83 45 11	4 936297 4 396702 5 169620	86357 24929 147781	202	Sarangapalle Karempúdi Matsavaram Fort	h.s. " "	46 34 5 30 13 56 5 028641	4 901321 4 742274 5 028641	79675 55243 106817	15 090 10 463 20 231	" " "
191	Adamsáb, X Mangalagiri Jampani	No. 1 h.s. s. s.	53 58 56 13 58 29 133 53 29	4 999935 4 525113 4 999935	99885 33505 99985	203	Viravillipaya Sarangapalle Guttikónda	h.s. " "	58 14 45 28 49 34 92 55 41	5 002950 4 759556 5 072804	100682 57089 118251	19 068 10 812 22 396	" " "
192	Mangalagiri Chivalúr Jampani	No. 1 h.s. s. "	32 8 2 13 58 29 32 8 2	4 525113 4 999935 4 868037	33505 99985 73797	204	Sarangapalle Karempúdi Guttikónda	h.s. " "	19 56 9 70 28 54 89 34 57	4 561366 5 002950 5 028641	30422 100682 106817	6 898 19 068 20 231	" " "

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
205	Sarangapalle Karempudi Wadapalle Mosque	95 33 44 16 42 51	5°06'0278 4°52'1113 5°02'8641	114889 33108 106817	21°759 6°288 20°231	Inch 36 "	217	Sarangapalle Karempudi Tumurukota Flag-staff	65 14 36 62 41 14	5°08'9829 5°08'0363 5°02'8641	122979 120327 106817	23°291 22°789 20°231	Inch 36 "
206	Sarangapalle Karempudi Pondugala Pagoda	89 50 39 16 54 53	5°04'7489 4°51'1306 5°02'8641	111555 32457 106817	21°128 6°147 20°231	"	218	Sarangapalle Karempudi Madugala Hill Pagoda	42 35 36 57 31 33	4°86'5904 4°96'1604 5°02'8641	73435 91539 106817	13°908 17°337 20°231	"
207	Sarangapalle Karempudi Pulipad Fort	52 31 6 23 45 24	4°94'0796 4°64'6370 5°02'8641	87256 44297 106817	16°526 8°389 20°231	"	219	Kakeral Swamikonda Madugala Hill Pagoda	105 46 43 35 59 43	4°92'1093 4°70'6943 4°72'9301	83386 50926 53617	15°793 9°645 10°155	C.T.I.
208	Karempudi Guttikonda Dacheppalle Fort	75 17 13 77 9 27	4°88'1673 4°88'5150 4°56'1366	76151 76763 36422	14°422 14°538 6°898	"	220	Tirmalleppanagutta Swamikonda Manchikollu Pagoda	30 16 25 42 2 2	4°888893 5°012147 5°165307	77427 102836 146321	14°664 19°476 27°712	"
209	Viravillipaya Karempudi Dacheppalle Fort	44 31 34 76 49 11	4°88'5150 5°02'7693 4°97'0766	76763 106584 93490	14°538 20°186 17°706	"	221	Kakeral Swamikonda Manchikollu Pagoda	91 5 53 45 5 7	4°888893 4°739103 4°729301	77427 54841 53617	14°664 10°387 10°155	"
210	Karempudi Guttikonda Karempudi Fort	100 21 22 24 0 34	4°63'7540 4°25'4147 4°56'1366	43405 17953 36422	8°221 3°400 6°898	"	222	Gangadevi Swamikonda Yelesvaram Hill Pagoda	48 52 53 14 21 20	5°03'3964 4°55'1312 5°10'7759	108135 3589 128162	20°480 6°740 24°273	"
211	Viravillipaya Karempudi Karempudi Fort	10 14 47 101 53 20	4°25'4147 4°99'4599 4°97'0766	17953 98764 93490	3°400 18°705 17°706	"	223	Durgappakonda Swamikonda Yelesvaram Hill Pagoda	40 32 28 73 37 49	5°03'3964 5°20'3684 5°181205	108135 159619 151777	20°480 30°231 28°746	"
212	Tirmalleppanagutta Gangadevi Swamikonda	58 10 9 75 55 40 45 54 11	5°10'7759 5°16'5307 5°03'4763	128162 146321 108334	24°273 27°712 20°518	"	224	Tirmalleppanagutta Swamikonda Machherla Pagoda	11 19 16 15 11 52	4°80'8429 4°93'4046 5°16'5307	64332 85910 146321	12°184 16°271 27°712	"
213	Tirmalleppanagutta Kakeral Swamikonda	20 26 50 72 26 1 87 7 9	4°72'9301 5°16'5307 5°18'5498	53617 146321 153284	10°155 27°712 29°031	C.T.I.	225	Kakeral Swamikonda Machherla Pagoda	61 10 37 71 55 17	4°80'8429 4°84'3882 4°72'9301	64332 69804 53617	12°184 13°220 10°155	"
214	Tirmalleppanagutta Durgappakonda Swamikonda	38 12 47 36 36 33 105 10 40	5°18'1205 5°16'5307 5°37'4384	151777 146321 236801	28°746 27°712 44°849	"	226	Gangadevi Swamikonda Mandadi Pagoda	16 33 4 46 40 0	4°61'1689 5°01'8799 5°10'7759	40897 104424 128162	7°746 19°777 24°273	"
215	Sarangapalle Karempudi Tumurukota Mosque	65 19 4 59 24 58	5°07'2262 5°04'8817 5°02'8641	118103 111806 106817	22°368 21°193 20°231	86	227	Kakeral Swamikonda Mandadi Pagoda	38 39 36 86 21 20	4°61'1689 4°81'5139 4°72'9301	40897 65334 53617	7°746 12°374 10°155	"
216	Kakeral Swamikonda Tumurukota Mosque	80 50 30 64 37 44	4°97'0276 4°93'1801 4°72'9301	93385 85497 53617	17°687 16°187 10°155	C.T.I.	228	Kakeral Swamikonda Pbblavid Pagoda	34 56 41 09 46 25	4°50'1783 4°71'6148 4°72'9301	31753 52017 53617	6°014 9°852 10°155	"

SECONDARY TRIANGULATION. TRIANGLES.

Triangle No.	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
229	Kakeral Swamikõnda Kõlagotta Pagoda	50 25 41 25 5 36	4'630273 4'370779 4'729301	42685 23484 53017	8'084 4'448 10'155	241	Sudikõnda No. 1 Karempõdi Rõmidichõrõla Pagoda	66 12 58 23 38 52	4'698011 4'339822 4'736554	49890 21869 54520	3 9'449 4'142 10'326	Inch C.T.I. "
230	Kakeral Swamikõnda Mutukur Pagoda	33 10 53 53 9 38	4'468405 4'633449 4'729301	29404 42998 53017	5'569 8'144 10'155	242	Sudikõnda No. 1 Karempõdi Tirumaldevargudda Pillar	111 27 29 19 29 6	4'827203 4'381574 4'736554	67174 24075 54520	12'722 4'560 10'326	"
231	Durgappakõnda Swamikõnda Gõttipalle	18 16 7 48 21 23 113 22 30	4'714595 5'091887 5'181205	51832 123563 151777	9'817 23'402 28'746	243	Sudikõnda No. 1 Tirumaldevargudda Pillar Agnigundala	21 28 15	3'987669 4'423350 4'381574	9720 26506 24075	1'841 5'020 4'560	"
232	Gangadevi Durgappakõnda Gõttipalle	61 33 17 33 39 37 84 47 6	5'091887 4'891482 5'145962	123563 77890 139946	23'402 14'752 26'505	244	Kotapa, IX Adamsáb, X Narsaraõpet House (helio.)	58 2 37 18 57 6	4'918659 4'501609 4'978748	82920 31740 95224	15'705 6'011 18'035	24 "
233	Tirmalleppanagutta Gangadevi Shakrãmakõnda Hill Mark	44 2 52 93 53 0	5'050819 5'207074 5'034763	112414 161315 108334	21'290 30'552 20'518	245	Durgappakõnda Sudikõnda No. 1 Innaparati	77 16 22 7 21 39 95 21 59	5'337343 4'455756 5'346239	217442 28560 221942	41'182 5'409 42'034	C.T.I. "
234	Kakeral Gangadevi Sõtakod Peak	62 26 23 23 23 12	5'177611 4'828639 5'228707	150526 67397 169343	28'509 12'765 32'073	246	Durgappakõnda Innaparati Põddachõru Hill Mark	99 58 35 60 46 53	4'931201 4'878715 4'455756	85350 75634 28560	16'165 14'325 5'409	"
235	Kakeral Swamikõnda Sõtakod Peak	28 50 45 99 27 33	4'518041 4'828639 4'729301	39064 67397 53617	6'243 12'765 10'155	247	Durgappakõnda Innaparati Yõrrakõndapålõm	49 54 7 108 16 6 21 49 47	4'769018 4'862929 4'455756	58751 72934 28560	11'127 13'813 5'409	"
236	Adamsáb, X Viravillipaya Patãbanda Pagoda	56 37 16 37 9 38	5'017102 4'876463 5'094443	104917 75242 124292	19'700 14'250 23'540	248	Innaparati Yõrrakõndapålõm Võnkatarõdipålõm Pagoda	23 43 11 28 59 49	4'472806 4'553826 4'769018	29703 35795 58751	5'626 6'779 11'127	"
237	Adamsáb, X Viravillipaya Kantõpõdi Pagoda	25 17 24 15 20 52	4'911310 4'703395 5'094443	81529 50512 124292	15'441 9'567 23'540	249	Sudikõnda No. 1 Innaparati Chandalur	56 46 7 47 54 4 75 19 49	5'274184 5'222134 5'337343	188011 166776 217442	35'608 31'586 41'182	86 C.T.I. "
238	Kakeral Sudikõnda No. 1 Melavog Pagoda	43 44 37 60 2 30	4'614927 4'712800 4'762484	41203 51629 57874	7'804 9'778 10'961	250	Sudikõnda No. 1 Chandalur Kotapa, IX	83 58 47 38 30 45 57 30 28	5'293665 5'090336 5'222134	196637 123122 166776	37'242 23'319 31'586	86 C.T.I. "
239	Kakeral Sudikõnda No. 1 Gummampãd Fort	15 9 41 19 43 35	4'422646 4'533421 4'762484	26463 34152 57874	5'012 6'468 10'961	251	Chandalur Kotapa, IX Medaramõtia, XV	50 52 4 43 26 22 85 41 34	5'184583 5'132222 5'293665	152962 135588 196637	28'970 25'680 37'242	"
240	Kakeral Sudikõnda No. 1 Rõmidichõrõla Pagoda	4 32 29 7 33 15	4'339822 4'560016 4'762484	21869 36309 57874	4'142 6'877 10'961	252	Kotapa, IX Medaramõtia, XV Põppõdi	52 53 25 15 20 26 111 46 9	5'118435 4'639230 5'184583	131351 43574 152962	24'877 8'253 28'970	"

No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
253	Kotapa, IX Pöppüdi Nadëlla	48 54 9 77 46 28 53 19 23	4.612183 4.735085 4.639230	40943 53099 43574	7.754 10.057 8.253	265	Babbëpalle, XIII Medaramëttla, XV Dharnavaram Hill (helio.)	39 14 20 24 20 45	4.801148 4.615203 4.952160	63263 41229 89570	11.982 7.809 16.964	Inch 24 "
254	Kotapa, IX Adamsäb, X Nadëlla	15 11 18 17 33 10 147 15 32	4.663965 4.735085 4.978748	46128 53099 95224	8.736 10.057 18.035	266	Dänapa, XIV Medaramëttla, XV Dharnavaram Hill (helio.)	52 30 55 23 47 57	4.801148 4.507471 4.889084	63263 32171 77461	11.982 6.093 14.671	"
255	Kotapa, IX Nadëlla Narsamöpet Palace	71 31 41 34 41 51	4.719765 4.498035 4.735085	52452 31480 53099	9.934 5.962 10.057	267	Chandalür Medaramëttla, XV Purimëttla Hill Pagoda	28 45 18 33 20 40	4.868091 4.925989 5.132222	73806 84331 135588	13.978 15.972 25.680	C.T.I.
256	Chandalür Kotapa, IX Ikkurru Hill Pagoda	7 39 36 104 51 24	4.452913 5.313336 5.293665	28374 205748 196637	5.374 38.967 37.242	268	Kotapa, IX Medaramëttla, XV Addanki	7 40 54 20 21 2 151 58 4	4.638545 5.053708 5.184583	43506 113187 152962	8.240 21.437 28.970	"
257	Kotapa, IX Nadëlla Ikkurru Hill Pagoda	109 54 40 23 1 42	4.833760 4.452913 4.725085	68196 28374 53099	12.916 5.374 10.057	269	Chandalür Medaramëttla, XV Addanki	18 36 26 65 20 32 96 3 2	4.638545 5.093124 5.132222	43506 123915 135588	8.240 23.469 25.680	"
258	Kotapa, IX Nadëlla Yelchür Hill Pagoda	151 46 57 13 19 59	4.990066 4.678251 4.725085	97739 47671 53099	18.511 9.029 10.057	270	Pëddakalattippa, XVII Chemakurti, XIX Darsi Hill (helio.)	95 24 21 8 28 20 4.924167	4.935098 4.105325 4.924167	86119 12745 83978	16.310 2.414 15.905	24 "
259	Sudikönda No. 1 Chandalür Vinukönda Hill Pagoda	17 58 55 11 58 5	5.013382 4.840560 5.222134	103129 69272 166776	19.532 13.120 31.586	271	Pëddakalattippa, XVII Chemakurti, XIX Darsi Pillar	59 27 23 17 8 5 4.924167	4.871296 4.405432 4.924167	74353 25435 83978	14.082 4.817 15.905	"
260	Sudikönda No. 1 Karempüdi Vinukönda Hill Pagoda	154 4 24 14 32 5	5.081645 4.840560 4.736554	120683 69272 54520	22.857 13.120 10.326	272	Chandalür Medaramëttla, XV Përiyapälëm Hill Pagoda	3 16 52 11 17 6	4.489350 5.023256 5.132222	30857 105501 135588	5.844 19.981 25.680	C.T.I.
261	Kotapa, IX Nadëlla Konidëna Hill Pagoda	92 58 59 42 42 2	4.880255 4.712180 4.725085	75902 51544 53099	14.375 9.762 10.057	278	Babbëpalle, XIII Medaramëttla, XV Jaggayapälëm Beacon	84 19 59 53 25 49 42 14 12	5.122538 5.029452 4.952160	132598 107017 89570	25.113 20.268 16.964	12 "
262	Päläpärü, XII Babbëpalle, XIII Göttipäd	36 2 3 13 59 23 129 58 34	4.601766 4.305554 4.806597	49177 20209 64061	9.314 3.828 12.133	274	Medaramëttla, XV Chemakurti, XIX Pëddaganjäm Beacon	129 47 31 27 58 20 22 14 9	5.183966 4.969607 4.876367	152745 93241 75226	28.929 17.659 14.247	"
263	Kotapa, IX Medaramëttla, XV Gokanakönda Hill Pagoda	34 54 1 35 40 33 129 58 34	4.967542 4.975849 5.184583	92799 94501 152962	17.576 17.915 28.970	275	Babbëpalle, XIII Medaramëttla, XV Pëddaganjäm Beacon	52 7 53 78 33 3 49 19 4	4.969607 5.063569 4.952160	93241 115763 89570	17.659 21.925 16.964	"
264	Chandalür Medaramëttla, XV Gokanakönda Hill Pagoda	43 6 35 50 1 1	4.967542 5.017230 5.132222	92799 104047 135588	17.576 19.706 25.680	276	Medaramëttla, XV Chemakurti, XIX Pätapäd Beacon	97 15 25 49 56 36 32 47 59	5.139112 5.026498 4.876367	137757 106291 75226	26.090 20.131 14.247	"

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
277	Medaramēṭla, XV	31 52 40	4 750956	56358	10 674	Inch	Chandalūr	13 0 37	4 381995	24099	4 564	Inch	
	Ongole, XVIII	95 7 0	5 026498	106291	20 131	"	Chinna Yachāvaram	51 4 33	4 920537	83279	15 773	"	
	Pātapād Beacon	53 0 20	4 930012	85234	16 143	"	Manganapūdi Hill Pagoda		4 983547	96283	18 235	"	
278	Medaramēṭla, XV	40 3 11	4 756381	57067	10 808	24	Chinna Yachāvaram	30 29 31	4 552252	35666	6 755	"	
	Chemakurti, XIX	17 58 14	4 437130	27361	5 182	"	Dupād	20 3 3	4 381995	24099	4 564	"	
	Mallāvaram Hill Pagoda		4 876367	75226	14 247	"	Manganapūdi Hill Pagoda		4 734559	54270	10 278	"	
279	Ongole, XVIII	40 48 38	4 756381	57067	10 808	"	Chinna Yachāvaram	43 16 32	4 719827	52460	9 936	"	
	Chemakurti, XIX	44 53 28	4 789754	61625	11 671	"	Dupād	91 33 28	4 883654	76499	14 488	"	
	Mallāvaram Hill Pagoda		4 939872	87071	16 491	"	Nallakōnda Hill Mark		4 734559	54270	10 278	"	
280	Chemakurti, XIX	19 37 48	4 554943	35887	6 797	"	Lingamgunta	87 0 52	4 976071	94639	17 924	"	
	Nishānkōnda, XXII	43 10 15	4 863842	73087	13 842	"	Chinna Yachāvaram	33 55 53	4 723451	52899	10 019	"	
	Pōḍiḷi Pillar		4 977783	95013	17 995	"	Yanagakōnda	59 3 15	4 909973	81278	15 394	"	
281	Innaparati	47 56 11	5 164085	145910	27 634	c.t.i.	Chandalūr	13 45 13	4 723451	52899	10 019	"	
	Chandalūr	59 0 9	5 226523	168470	31 907	"	Lingamgunta	125 16 7	5 259267	181603	34 406	"	
	Lingamgunta	73 3 40	5 274184	188011	35 608	"	Yanagakōnda	40 58 40	5 164085	145910	27 634	"	
282	Innaparati	24 30 53	4 909973	81278	15 394	86	Lingamgunta	66 16 0	4 824491	66756	12 643	"	
	Lingamgunta	34 48 25	5 048496	111814	21 177	c.t.i.	Yanagakōnda	67 13 49	4 827630	67240	12 735	"	
	Chinna Yachāvaram	120 40 42	5 226523	168470	31 907	"	Mārkapūr Pagoda		4 723451	52899	10 019	"	
283	Chandalūr	31 30 40	4 909973	81278	15 394	"	Lingamgunta	20 44 52	4 478540	30098	5 700	"	
	Lingamgunta	38 15 15	4 983547	96283	18 235	"	Chinna Yachāvaram	52 19 5	4 827630	67240	12 735	"	
	Chinna Yachāvaram	110 14 5	5 164085	145910	27 634	"	Mārkapūr Pagoda		4 909973	81278	15 394	"	
284	Innaparati	28 2 7	4 734559	54270	10 278	86	Lingamgunta	40 10 17	4 535051	34281	6 493	"	
	Chinna Yachāvaram	47 31 9	4 930212	85155	16 128	c.t.i.	Yanagakōnda	55 18 31	4 040434	43695	8 276	"	
	Dupād	104 26 44	5 048496	111814	21 177	"	Turlapād Pagoda		4 723451	52899	10 019	"	
285	Chandalūr	31 17 28	4 734559	54270	10 278	"	Lingamgunta	13 4 44	4 195998	15704	2 974	"	
	Chinna Yachāvaram	81 34 4	5 014349	103359	19 576	"	Yanagakōnda	36 35 17	4 016616	41363	7 834	"	
	Dupād	67 8 28	4 983547	96283	18 235	"	Singarsyan Hill Pagoda		4 723451	52899	10 019	"	
286	Chinna Yachāvaram	23 24 46	4 578139	37856	7 170	"	Lingamgunta	9 21 10	4 294041	19681	3 727	"	
	Dupād	121 51 45	4 908033	80916	15 325	"	Yanagakōnda	144 44 47	4 844477	69900	13 239	"	
	Turukōnda Hill Peak		4 734559	54270	10 278	"	Kakarla Hill Pagoda		4 723451	52899	10 019	"	
287	Chinna Yachāvaram	33 55 57	4 521092	33265	6 300	"	Innaparati	38 42 27	5 024588	105825	20 043	86	
	Dupād	80 28 1	4 769151	58769	11 131	"	Lingamgunta	56 42 41	5 150631	141459	26 792	c.t.i.	
	Tirumaldevargudda Hill Pillar		4 734559	54270	10 278	"	Viramkōnda	84 34 52	5 226523	168470	31 907	86	
288	Chinna Yachāvaram	10 2 55	4 482553	30378	5 753	"	Innaparati	16 56 12	4 871733	74427	14 096	"	
	Dupād	8 6 51	4 390467	24573	4 654	"	Viramkōnda	16 41 0	4 865376	73346	13 891	"	
	Kuchērlakota Pagoda		4 734559	54270	10 278	"	Esvarakuppam Hill Peak		5 150631	141459	26 792	"	

No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
301	Innaparati Lingamgunta Esvarakuppam Hill Peak	h.s. " "	55 38 39 25 28 37	5 148501 4 865376 5 226323	140767 73346 168470	26 660 13 891 31 907	86 c.t.l.	Chandalūr Medaramēṭla, XV Addanki	12 21 26 59 10 1 108 28 33	4 485630 5 089027 5 132222	30594 122752 135588	5 794 23 248 25 680	Inch c.t.l.
302	Durgappakōnda Innaparati Katakōnda	h.s. " "	72 54 33 95 1 8 12 4 19	5 115705 5 133051 4 455756	130528 130035 28560	24 721 25 764 5 409	86 c.t.l.	Medaramēṭla, XV Chemakurti Addanki	100 9 36 4 85630 4 870458	4 934891 4 85630 4 870458	86078 30594 75242	16 303 5 794 14 250	" "
303	Innaparati Vīramkōnda Katakōnda	h.s. " "	65 12 59 79 42 50	4 917013 5 115705 5 150631	82606 130528 141459	15 645 24 721 26 792	86 "	Chandalūr Chemakurti Pōtakamūr Fort	22 22 7 24 48 10 4 908380	4 683473 4 725773 4 908380	48247 53183 92978	9 138 10 073 17 609	" "
304	Anrabād Durgappakōnda Kōliem	h.s. " "	63 24 51 16 48 13 99 46 56	5 114636 4 624207 5 156810	130208 42093 143486	24 661 7 972 27 175	c.t.l. " "	Chandalūr Kandulūr Turukōnda Hill Pagoda	82 16 5 4 25 50 5 251248	5 248003 4 139873 5 251248	177012 13800 178340	33 525 2 614 33 776	" "
305	Durgappakōnda Katakōnda Kōliem	h.s. " "	78 35 48 49 10 11 52 14 1	5 227083 5 114636 5 133651	168687 130208 136035	31 948 24 661 25 764	" "	Chandalūr Lingamgunta Konakanamēṭla	10 53 28 12 57 46 156 8 46	4 833599 4 908132 5 164085	68171 80934 145910	12 911 15 328 27 634	" "
306	Vīramkōnda Katakōnda Gundla Brahmesvaram	h.s. " "	47 26 17 76 7 11 56 26 32	4 863397 4 983326 4 917013	73012 96233 82606	13 828 18 226 15 645	86 " "	Chandalūr Kandulūr Konakanamēṭla	88 32 48 24 39 11 66 48 1	5 287728 4 908132 5 251248	193967 80934 178340	36 736 15 328 33 776	" "
307	Katakōnda Gundla Brahmesvaram Siddhapur	h.s. " "	105 7 47 36 47 19 38 4 54	5 057943 4 850592 4 863397	114273 70891 73012	21 643 13 426 13 828	" "	Chandalūr Chinna Yachāvaram Kurichedu Hill Pagoda	73 42 53 28 8 14 "	4 975122 4 666466 4 983547	94433 46394 96283	17 885 8 787 18 235	" "
308	Chandalūr Lingamgunta Chundikōnda	h.s. " "	60 42 33 78 39 45 40 37 42	5 290094 5 341846 5 164385	195431 219708 145910	37 014 41 611 27 634	c.t.l. " "	Chandalūr Konakanamēṭla Kurichedu Hill Pagoda	116 7 1 22 20 33 "	5 039747 4 666466 4 908132	109584 46394 80934	20 755 8 787 15 328	" "
309	Chandalūr Chundikōnda Kandulūr	h.s. " "	54 9 45 87 6 32	5 138718 5 251248 5 341846	137632 178340 219708	26 067 33 776 41 611	" "	Chandalūr Konakanamēṭla Donakōnda Pagoda	85 26 44 28 18 47 "	4 945218 4 622635 4 908132	88149 41941 80934	16 695 7 943 15 328	" "
310	Chandalūr Medaramēṭla, XV Kandulūr	h.s. " "	36 50 57 93 48 36 49 20 27	5 030151 5 251248 5 132222	107189 178340 135588	20 301 33 776 25 680	" "	Chandalūr Konakanamēṭla Chandalūr Pagoda	80 43 44 7 1 29 "	4 902755 3 995884 4 908132	79938 9906 80934	15 140 1 876 15 328	" "
311	Medaramēṭla, XV Kandulūr Chemakurti	h.s. " "	52 49 1 44 9 59	4 934684 4 876458 5 030151	86037 73242 107189	16 295 14 250 20 301	" "	Chandalūr Konakanamēṭla Ambapuram Pagoda	18 18 29 51 5 53 "	4 433915 4 827914 4 908132	27159 67284 80934	5 144 12 743 15 328	" "
312	Chandalūr Medaramēṭla, XV Chemakurti	h.s. " "	32 3 43 40 59 35	4 876458 4 968380 5 132222	75242 92978 135588	14 250 17 609 25 680	" "	Chandalūr Konakanamēṭla Bodikurupād Pagoda	86 50 17 39 27 0 "	5 001107 4 804819 4 908132	100255 63800 80934	18 988 12 083 15 328	" "

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used	
		°	'	"	Log. feet	Feet	Miles				°	'	"	Log. feet	Feet	Miles		
325	Kandulūr Chemakurti Peranamitta	h.s.	52	44	41	4° 48' 59"	70935	13.435	387	Kandulūr Peranamitta Tangutūr Pagoda	h.s.	136	3	38	4° 52' 17"	69429	13.149	Inch C.T.I.
326	Medaramēṭṭa, XV Chemakurti Peranamitta	h.s.	56	41	28	4° 50' 9"	70935	13.435	388	Ongole, XVIII Konijedu Pasamudra Beacon	h.s.	70	26	49	4° 53' 21"	67945	12.868	"
327	Chandalūr Medaramēṭṭa, XV Chedalavāda Pagoda	h.s.	12	52	8	4° 52' 45"	53390	10.112	389	Ongole, XVIII Chemakurti, XIX Pasamudra Beacon	s.	136	7	2	5° 16' 89"	147504	27.948	"
328	Medaramēṭṭa, XV Peranamitta Chedalavāda Pagoda	h.s.	45	11	51	4° 52' 45"	53390	10.112	340	Konijedu Pasamudra Beacon Singarayakōnda Temple	h.s.	25	45	11	4° 56' 199"	36475	6.908	"
329	Kandulūr Peranamitta Yēndikūr Fort	h.s.	19	36	23	4° 53' 42"	43075	8.158	341	Ongole, XVIII Konijedu Singarayakōnda Temple	h.s.	52	19	40	4° 58' 321"	82618	15.647	"
330	Kandulūr Peranamitta Mangamūr Pagoda	h.s.	22	26	27	4° 52' 61"	33587	6.361	342	Chundikōnda Kandulūr Singarayakōnda Pagoda	h.s.	33	40	0	5° 07' 983"	120194	22.764	"
331	Kandulūr Peranamitta Ongole Hill Pagoda	h.s.	31	7	32	4° 52' 61"	17681	3.340	343	Kandulūr Kared Singarayakōnda Pagoda	h.s.	9	29	46	4° 37' 048"	23468	4.445	36
332	Kandulūr Peranamitta Pellūr Fort	h.s.	61	33	39	4° 52' 61"	30832	5.839	344	Chundikōnda Kandulūr Pōdilikōnda Hill Peak No. 1	h.s.	66	18	57	5° 16' 264"	145427	27.543	C.T.I.
333	Ongole, XVIII Chemakurti, XIX Konijedu	h.s.	65	40	13	4° 52' 61"	79621	15.080	345	Chundikōnda Kandulūr Pōdilikōnda Hill Peak No. 2	h.s.	66	12	16	5° 13' 784"	137355	26.014	"
334	Medaramēṭṭa, XV Chemakurti, XIX Konijedu	h.s.	82	21	32	4° 52' 61"	102008	19.320	346	Chandalūr Kandulūr Andrankōnda Peak	h.s.	43	0	8	5° 08' 702"	122187	23.141	"
335	Chundikōnda Kandulūr Kared	h.s.	40	24	47	4° 52' 61"	95243	18.038	347	Chundikōnda Kandulūr Andrankōnda Peak	h.s.	59	9	37	5° 08' 702"	122187	23.141	"
336	Kandulūr Kared Ongole Hill Mark	h.s.	115	2	13	5° 04' 499"	110788	20.983	348	Chandalūr Chundikōnda Kanigiridrug Platform	h.s.	23	26	38	5° 02' 712"	106446	20.160	"

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
349	Chandalūr Lingamgunta Kanigiridrug Platform	h.s. " "	37 15 55 68 21 25	91738 140826 145910	17.375 26.672 27.634	361	Vīramkōnda Tellanillamalai Pōdillēkōndupalli	h.s. " "	23 5 50 32 36 14 124 17 56	71505 98214 150578	13.543 18.601 28.519	Inch. 86 C.T.I. "
350	Chundikōnda Kandulūr Pēnchalgōlkōnda	h.s. " "	62 43 48 21 9 59 96 6 13	123032 49979 137032	23.302 9.466 26.067	362	Tellanillamalai Singarayākōnda Pōdillēkōndupalli	h.s. " "	66 29 31 56 55 7 56 35 22	78256 71505 71236	14.821 13.543 13.492	" "
351	Kandulūr Chemakurfi Pēnchalgōlkōnda	h.s. " "	71 7 1 40 32 16	125250 123032 86037	23.722 23.302 16.295	368	Vīramkōnda Pōdillēkōndupalli Yēllikōnda	h.s. " "	74 23 25 48 36 7 57 0 28	112778 87838 98214	21.359 16.636 18.601	86 C.T.I. 86
352	Chundikōnda Pēnchalgōlkōnda Kappakōnda Hill Platform	h.s. " "	49 10 46 79 2 29	48142 62456 49979	9.118 11.829 9.466	364	Innaparati Vīramkōnda Yēllikōnda	h.s. " "	31 6 23 92 35 18 56 18 19	87838 169849 141459	16.636 32.168 26.792	" "
353	Kuchēra, XXIV Darutippa, XXV Machavaram Hill (helio.)	h.s. " "	32 21 13 60 57 11	46466 75909 86685	8.800 14.377 16.418	365	Tellanillamalai Pōdillēkōndupalli Rēddichēra	h.s. " "	49 52 6 37 38 58 92 28 56	54721 43718 71505	10.364 8.280 13.543	C.T.I. " "
354	Kuchēra, XXIV Chakalakōnda, XXVII Malakōnda Hill Temple	h.s. " "	59 49 38 12 46 14	73317 18746 80926	13.886 3.550 15.327	366	Singarayākōnda Pōdillēkōndupalli Rēddichēra	h.s. " "	33 50 5 18 56 24 127 13 31	54721 31899 78256	10.364 6.041 14.821	" "
355	Lingamgunta Chundikōnda Tellanillamalai	h.s. " "	74 10 6 38 42 53 67 7 1	204079 132672 195431	38.651 25.127 37.014	367	Pōdillēkōndupalli Rēddichēra Mōkshagundam	h.s. " "	118 36 43 26 38 14 36 45 3	80288 38125 54721	15.206 7.221 10.364	" "
356	Lingamgunta Vīramkōnda Tellanillamalai	h.s. " "	77 23 48 59 18 1	150578 132672 105845	28.519 25.127 20.043	368	Vīramkōnda Pōdillēkōndupalli Cumbum	h.s. " "	68 53 40 27 5 45 84 0 35	92129 44980 98214	17.449 8.519 18.601	86 C.T.I. "
357	Lankamalai Hauhoballam Gānugapēnta	h.s. " "	58 23 35 30 23 23 91 13 2	159545 94708 187291	30.217 17.949 35.472	369	Pōdillēkōndupalli Mōkshagundam Cumbum	h.s. " "	16 14 26 152 53 21 10 52 13	56539 92129 38125	10.708 17.449 7.221	" "
358	Lankamalai Tellanillamalai Gānugapēnta	h.s. " "	20 33 23 14 28 26 144 58 11	133136 94768 217645	25.215 17.949 41.221	370	Yanangkōnda Cumbum Ravipād Pagoda	h.s. " "	64 48 38 36 29 11 †	16042 10541 17384	3.038 1.996 3.292	" "
359	Hauhoballam Gānugapēnta Singarayākōnda	h.s. " "	39 27 55 21 26 55 119 5 10	116043 66759 159545	21.978 12.644 30.217	371	Pōdillēkōndupalli Mōkshagundam Palakavī Pagoda	h.s. " "	19 37 27 82 48 48 †	13112 38735 38125	2.483 7.336 7.221	" "
360	Tellanillamalai Gānugapēnta Singarayākōnda	h.s. " "	60 31 21 32 18 14 87 10 25	116043 71236 133136	21.978 13.492 25.215	372	Pōdillēkōndupalli Rēddichēra Gudimittā Hill Pagoda	h.s. " "	129 47 46 17 8 2 †	77051 29544 54721	14.593 5.596 10.364	" "

* This base is taken from the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 16°. † Deduced base.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
373	Póðilléköndupalli	h.s.	4° 38' 44.15"	24233	4° 59' 0"	885	Lankamalai	h.s.	4° 72' 04.76"	53269	8	Inch
	Mökshagundam	"	4° 23' 10.69"	17048	3° 22' 9"		Singaráyakönda	"	5° 11' 23.94"	129537	24° 53' 4"	C.T.I.
	Satyavol Pagoda	"	4° 58' 12.14"	38125	7° 22' 1"		Porumámilla	s.	5° 24' 51.38"	175848	33° 30' 5"	"
374	Póðilléköndupalli	h.s.	4° 6' 48.206"	44484	8° 42' 5"	886	Singaráyakönda	h.s.	4° 6' 55.253"	45212	8° 56' 3"	"
	Mökshagundam	"	4° 0' 08.402"	12543	2° 37' 6"		Porumámilla	s.	4° 7' 29.834"	53683	10° 16' 7"	"
	Giddalúr Hill Pagoda	"	4° 58' 12.14"	38125	7° 22' 1"		Gorlabod Hill Platform	"	4° 7' 20.476"	53269	10° 08' 9"	"
375	Póðilléköndupalli	h.s.	4° 78' 16.30"	60647	11° 48' 6"	887	Gánugapēnta	h.s.	4° 7' 39.834"	53683	10° 16' 7"	"
	Réddichēra	"	39° 39' 41"	39533	7° 48' 7"		Singaráyakönda	"	4° 9' 39.439"	86984	16° 47' 4"	"
	Ankalamman Hill Peak	"	4° 7' 38.157"	54721	10° 36' 4"		Gorlabod Hill Platform	"	5° 0' 04.618"	116043	21° 9' 7"	"
376	Póðilléköndupalli	h.s.	4° 42' 28.259"	26808	5° 07' 7"	888	Singaráyakönda	h.s.	4° 39' 09.92"	24603	4° 66' 0"	"
	Mökshagundam	"	4° 59' 06.956"	39533	7° 48' 7"		Porumámilla	s.	4° 53' 71.01"	34443	6° 52' 3"	"
	Ankalamman Hill Peak	"	4° 58' 12.14"	38125	7° 22' 1"		Narsapur Pagoda	"	4° 7' 20.476"	53269	10° 08' 9"	"
377	Póðilléköndupalli	h.s.	4° 43' 38.888"	27472	5° 20' 3"	889	Gánugapēnta	h.s.	3° 9' 14.137"	8206	1° 55' 4"	"
	Réddichēra	"	4° 45' 38.78"	28437	5° 38' 6"		Porumámilla	s.	4° 7' 79.685"	60212	11° 40' 4"	"
	Idamakallu Pagoda	"	4° 7' 38.157"	54721	10° 36' 4"		Bairadevargudda Pagoda	"	4° 8' 00.182"	63122	11° 9' 55"	"
378	Póðilléköndupalli	h.s.	4° 73' 08.80"	53812	10° 19' 2"	890	Lankamalai	h.s.	4° 65' 47.82"	45163	8° 55' 4"	"
	Mökshagundam	"	4° 45' 38.78"	28437	5° 38' 6"		Gánugapēnta	"	4° 8' 09.322"	79309	15° 02' 1"	"
	Idamakallu Pagoda	"	4° 58' 12.14"	38125	7° 22' 1"		Kodúr Hill Platform	"	4° 9' 70.662"	94768	17° 9' 49"	"
379	Póðilléköndupalli	h.s.	4° 12' 36.32"	20353	3° 8' 55"	891	Gánugapēnta	h.s.	4° 99' 28.72"	98372	18° 63' 1"	"
	Réddichēra	"	23° 19' 48"	30923	6° 9' 93"		Singaráyakönda	"	4° 65' 47.82"	45163	8° 55' 4"	"
	Kumaravol Village	"	4° 7' 38.157"	54721	10° 36' 4"		Kodúr Hill Platform	"	5° 0' 04.618"	116043	21° 9' 7"	"
380	Chundikönda	h.s.	4° 43' 51"	144489	27° 36' 5"	892	Lankamalai	h.s.	4° 46' 20.48"	28977	5° 48' 8"	"
	Tellanillamalai	"	62° 10' 9"	187063	35° 42' 9"		Gánugapēnta	"	5° 06' 45.69"	116030	21° 9' 75"	"
	Udayagiri	"	74° 44' 50"	204079	38° 65' 1"		Chiv Drug Hill Staff	"	4° 97' 66.62"	94768	17° 9' 49"	"
381	Chákalakönda, XXVII	h.s.	5° 11' 19.419"	131649	24° 9' 34"	893	Singaráyakönda	h.s.	4° 89' 07.16"	79381	15° 03' 4"	"
	Rájalli, XXVIII	"	4° 95' 19.77"	89532	16° 9' 57"		Porumámilla	s.	5° 045.160"	110958	21° 015"	"
	Udayagiri Hill Mosque	"	4° 96' 08.80"	92657	17° 54' 9"		Karadillakuppam Platform	"	4° 72' 04.76"	53269	10° 08' 9"	"
382	Rájalli, XXVIII	h.s.	5° 25' 58.2"	179921	34° 07' 6"	894	Gánugapēnta	h.s.	5° 045.160"	110958	21° 015"	"
	Pallakönda, XXXII	"	5° 11' 19.419"	131649	24° 9' 34"		Singaráyakönda	"	4° 95' 17.88"	89493	16° 9' 49"	"
	Udayagiri Hill Mosque	"	5° 08' 63.99"	122003	23° 10' 7"		Karadillakuppam Platform	"	5° 06' 46.18"	116043	21° 9' 7"	"
383	Tellanillamalai	h.s.	5° 13' 31.06"	135865	25° 73' 2"	895	Lankamalai	h.s.	4° 75' 08.17"	57124	10° 8' 19"	"
	Udayagiri	"	4° 74' 20.50"	55514	10° 45' 7"		Gánugapēnta	"	4° 61' 03.20"	40768	7° 72' 1"	"
	Mallápad Hill	"	5° 15' 59.34"	144489	27° 36' 5"		Chēnrayankönda Pagoda	"	4° 97' 66.62"	94768	17° 9' 49"	"
384	Lankamalai	h.s.	4° 80' 01.82"	63122	11° 9' 55"	896	Lankamalai	h.s.	4° 625.983"	42265	8° 005"	"
	Gánugapēnta	"	5° 11' 23.94"	129537	24° 53' 4"		Gánugapēnta	"	4° 784.118"	60830	11° 52' 1"	"
	Porumámilla	s.	4° 97' 66.62"	94768	17° 9' 49"		Badvel	s.	4° 97' 66.62"	94768	17° 9' 49"	"

* Deduced base.

No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
397	Lankamalai Gānugapēnta Yēddamūra Hill Platform	30 48 26 75 37 43	4 704 180 4 980 974 4 976 662	50603 95714 94768	9 584 18 128 17 949	Inch c.t.i. "	409	Siddhanakōnduru Karakōnda Allikōnda	41 33 25 50 35 13 87 51 22	5 121 561 5 187 757 5 299 505	132300 154084 199299	25 057 29 183 37 746	Inch c.t.i. "
398	Lankamalai Gānugapēnta Uralabod Hill Platform	36 33 30 41 30 9	4 761 145 4 807 446 4 976 662	57696 64187 94768	10 927 12 157 17 949	"	410	Kistama, XXXI Bandalduru, XXXIV Narasimhakōnda Hill Temple	41 30 42 29 51 53	4 771 679 4 647 503 4 926 950	59112 44412 84519	11 196 8 411 16 007	24 "
399	Chundikōnda Udayagiri Siddhanakōnduru	63 10 28 46 42 34 70 6 58	5 249 234 5 160 745 5 271 987	177514 144792 187063	33 620 27 423 35 429	"	411	Vutukūr, XXXIII Bandalduru, XXXIV Narasimhakōnda Hill Temple	36 19 21 86 3 52	4 771 679 4 998 090 4 925 690	59112 99561 84273	11 196 18 856 15 961	"
400	Chundikōnda Kandulūr Malakōnda Hill Pagoda	165 58 1 2 39 48	5 228 624 4 511 091 5 138 718	169287 32441 137632	32 062 6 144 26 067	"	412	Kistama, XXXI Bandalduru, XXXIV Narasimhakōnda	42 23 38 29 37 35 107 58 47	4 777 504 4 642 728 4 926 956	59911 43927 84519	11 347 8 319 16 007	"
401	Chundikōnda Siddhanakōnduru Malakōnda Hill Pagoda	45 43 50 10 46 4	5 094 599 4 511 091 5 160 745	124337 32441 144792	23 549 6 144 27 423	86	413	Siddhanakōnduru Allikōnda Atnakūr Hill Tree	27 51 43 26 18 19	4 948 517 4 625 436 5 187 757	88821 84224 154084	16 822 15 952 29 183	36
402	Udayagiri Siddhanakōnduru Karakōnda	45 25 4 59 25 33	5 299 505 5 160 874 5 249 234	199299 140850 177514	37 746 27 812 33 620	c.t.i.	414	Kistama, XXXI Narasimhakōnda Sangamkōnda	90 10 5 51 13 9 38 36 46	4 847 504 4 739 348 4 642 728	70389 54872 43927	13 331 10 392 8 319	12
403	Udayagiri Karakōnda Vinjamūrōkōnda Platform	68 0 29 40 56 18	5 158 254 5 007 468 5 166 874	143964 101735 146850	27 266 19 268 27 812	86	415	Rājalli, XXVIII Nishānbodu, XXIX Jungal Vangol Temple	27 31 59 43 59 52 5 052 169	4 740 021 4 916 888 5 052 169	54957 82583 112764	10 408 15 641 21 357	24
404	Chundikōnda Udayagiri Vinjamūrōkōnda Platform	32 53 11 53 51 28	5 007 468 5 179 861 5 271 987	101735 151308 187063	19 268 28 657 35 429	"	416	Rājalli, XXVIII Kistama, XXXI Jungal Vangol Temple	31 48 48 51 12 47	4 747 020 4 916 888 5 021 858	55850 82583 105102	10 578 15 641 19 917	"
405	Rājalli, XXVIII Pallakōnda, XXXII Annasamudram Mosque	99 49 54 10 55 7	5 109 070 4 392 909 5 086 369	128549 24712 122003	24 346 4 680 23 107	24	417	Kistama, XXXI Pallakōnda, XXXII Sangam Temple	96 19 23 23 2 16	5 071 997 4 667 199 5 014 938	118031 46473 103500	22 354 8 802 19 602	"
406	Kistama, XXXI Pallakōnda, XXXII Annasamudram Mosque	83 0 51 43 56 10	5 109 070 4 953 575 5 014 938	128549 89862 103500	24 346 17 019 19 602	"	418	Rājalli, XXVIII Pallakōnda, XXXII Sangam Temple	70 46 9 31 49 1	5 071 997 4 818 914 5 086 369	118031 65904 122003	22 354 12 482 23 107	"
407	Vutukūr, XXXIII Bandalduru, XXXIV Allikōnda Hill Mark (helio.)	81 33 7 32 55 17	4 961 837 4 701 764 4 925 690	91588 50323 84273	17 346 9 531 15 961	"	419	Narasimhakōnda Sangamkōnda Pēnner Beacon	108 32 12 46 18 7	5 195 805 5 078 074 4 847 504	156966 119604 70389	29 728 22 669 13 331	12
408	Kistama, XXXI Bandalduru, XXXIV Allikōnda Hill Mark (helio.)	89 23 13 23 16 42	4 961 837 4 558 677 4 926 956	91588 36197 84519	17 346 6 856 16 007	"	420	Siddhanakōnduru Allikōnda Gandavaram Pagoda	52 14 5 43 23 46	5 087 774 5 026 839 5 187 757	122398 106375 154084	23 181 20 147 29 183	36

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
421	Siddhankonduru Allikonda Buechireddipalem Pagoda	34 15 36 37 11 17	4 961402 4 992281 5 187757	91496 98238 154084	17 329 18 606 29 183	488	Allikonda Ikalseri Kálavakonda No. 1	80 31 19 45 1 53 54 26 48	5 277207 5 132899 5 193574	189325 135800 156161	35 857 25 720 29 576	Inch 36 " " "
422	Bandaluru, XXXIV Narasimhakonda Muttukurutéppa	27 19 36 39 13 16 113 27 8	4 476821 4 615882 4 777504	29979 41294 59911	5 678 7 821 11 347	484	Gurramkonda, XXXVII Gudali, XXXVIII Kálavakonda No. 2 h.s.	37 24 36 63 34 21 4 815781	4 607366 4 775874 4 815781	40492 59686 65431	7 669 11 304 12 392	24 " " "
423	Narasimhakonda Muttukurutéppa Kovúrtéppa	47 25 14 71 2 8 61 32 38	4 399820 4 508505 4 476821	25108 32248 29979	4 755 6 108 5 678	485	Bandaluru, XXXIV Gurramkonda, XXXVII Kálavakonda No. 2 h.s.	27 9 19 31 28 29 5 047893	4 775874 4 834297 5 047893	59686 68281 111659	11 304 12 932 21 147	" " "
424	Bandaluru, XXXIV Narasimhakonda Nellore Temple	36 45 1 73 30 3	4 582155 4 786954 4 777504	38208 61229 59911	7 236 11 596 11 347	486	Narasimhakonda Kálavakonda No. 2 Krishnapatnam Beacon	44 11 36 57 33 32 78 14 52	4 958150 5 041180 5 105666	90813 109946 127546	17 199 20 823 24 156	12 " " "
425	Muttukurutéppa Kovúrtéppa Nellore Temple	23 11 41 58 10 36	4 000103 4 334018 4 399820	10002 21578 25108	1 894 4 087 4 755	487	Gudali, XXXVIII Narasimhakonda Krishnapatnam Beacon	40 35 22 40 35 40 98 48 58	5 041180 5 041224 5 222681	109946 109957 166986	20 823 20 825 31 626	" " "
426	Bandaluru, XXXIV Narasimhakonda Nellore Church	37 43 10 61 33 49	4 569835 4 777389 4 777504	37139 53381 59911	7 034 10 110 11 347	488	Allikonda Kálavakonda No. 1 Gulimichērla Pagoda	48 18 58 21 18 5	5 034199 4 721214 5 132899	108193 52628 135800	20 491 9 967 25 720	C.T.I. " " "
427	Muttukurutéppa Kovúrtéppa Nellore Church	36 10 17 33 30 4	4 198747 4 169648 4 399820	15803 14779 25108	2 993 2 799 4 755	489	Vutukúr, XXXIII Kayyúr, XXXVI Kannakondarayan Temple	24 18 47 33 26 44	4 616279 4 742940 4 928947	41331 55327 84908	7 828 10 479 16 081	24 " " "
428	Vutukúr, XXXIII Kayyúr, XXXVI Pēchalkonda Hill Mark	85 56 27 52 31 26	5 106289 5 006986 4 928947	12729 101622 84908	24 191 19 247 16 081	440	Kayyúr, XXXVI Gurramkonda, XXXVII Kannakondarayan Temple	44 29 0 41 9 9	4 643543 4 616279 4 796748	44009 41331 62625	8 335 7 828 11 861	" " "
429	Pallakonda, XXXII Vutukúr, XXXIII Pēchalkonda Hill Mark	73 26 40 27 20 52	5 006986 4 687556 5 017624	101622 48703 104141	19 247 9 224 19 724	441	Gurramkonda, XXXVII Gudali, XXXVIII Vojili Bungalow	8 46 29 5 43 54	4 600406 4 416428 4 815781	39848 26087 65431	7 547 4 941 12 392	" " "
480	Kayyúr, XXXVI Gurramkonda, XXXVII Saidapuram Hill Mark	67 54 28 59 57 17	4 866287 4 836736 4 796748	73500 68665 62625	13 920 13 005 11 861	442	Pálchērla, XXXV Kayyúr, XXXVI Vēnkatagiri Building	49 30 37 52 16 9	4 838034 4 855041 4 947679	68871 71021 88650	13 044 13 565 16 790	" " "
481	Gurramkonda, XXXVII Gudali, XXXVIII Gúdur Bungalow	81 26 25 39 22 56	4 877046 4 684336 4 815781	75343 48343 65431	14 270 9 156 12 392	443	Kayyúr, XXXVI Pillimedu, XL Vēnkatagiri Building	98 15 59 44 21 49	4 988891 4 838034 4 776587	97474 68871 59784	18 461 13 044 11 323	" " "
482	Karakonda Allikonda Ikalseri	62 29 37 68 47 30 48 42 53	5 193574 5 215212 5 121561	156161 104139 132300	29 576 31 087 25 057	444	Gurramkonda, XXXVII Pillimedu, XL Vēnkatagiri Temple	39 21 32 90 51 15	4 770500 4 968242 4 851184	58952 92948 70988	11 165 17 604 13 445	" " "

* Deduced base.

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
445	Kayyūr, XXXVI Pillimedu, XL Yēnkatagiri Temple	71 29 57 34 24 31	4.770500 4.545664 4.776587	58952 35129 59784	11.165 6.653 11.323	Inch 24 "	Kāalkōnda Malinenipatnam Platform Nathelmalai	22 35 51 89 5 9	4.446040 4.829548 4.861365	27928 67538 72672 ⁶	5.289 12.791 13.764	Inch C.T.I. "	
446	Karakōnda Ikaleseri Sanipāya	62 0 32 55 36 2	5.244667 5.246192 5.215212	175657 176275 164139	33.268 33.386 31.087	C.T.I. "	Kāalkōnda Mangampet Nathelmalai	16 5 57 143 9 8 20 44 55	4.494572 4.829548 4.600953	31230 67538 39098	5.915 12.791 7.556	" " "	
447	Lankamalai Nēlkurti Sanipāya	41 32 19 79 51 49 58 35 52	5.110818 5.282391 5.220442	129068 191598 166128	24.445 36.288 31.464	" " "	Kāalkōnda Nathelmalai Virukōnda Hill Platform	20 12 53 113 58 7 143 53 41	4.512458 4.934796 4.829548	32543 80059 67538	6.163 16.299 12.791	" " "	
448	Lankamalai Nēlkurti Kāalkōnda	68 49 26 53 5 29 58 5 5	5.261258 5.194491 5.220442	182498 156492 166128	34.564 29.639 31.464	" " "	Malinenipatnam Platform Nathelmalai Maleshvar	16 18 32 143 53 41	4.205513 4.124146 4.446040	16051 13309 27928	3.040 2.521 5.289	" " "	
449	Lankamalai Sanipāya Kāalkōnda	27 17 7 53 47 35 98 55 18	4.948942 5.194491 5.282391	88908 156492 191598	16.839 29.639 36.288	" " "	Nathelmalai Virukōnda Hill Platform Maleshvar	41 11 30 111 29 20	4.362355 4.205513 4.512458	23033 16051 32543	4.362 3.040 6.163	" " "	
450	Lankamalai Kāalkōnda Mallikōnda Hill Platform	46 17 5 53 48 15	5.060267 5.108134	114886 128273	21.759 24.294	" "	Nathelmalai Maleshvar Malinenipatnam Pagoda	23 27 41 118 14 30	4.013331 4.358201	10312 22817	1.953 4.321	" "	
451	Lankamalai Gānugapēnta Mallikōnda Hill Platform	62 37 7 72 33 49	5.076959 5.108134	119388 128273	22.611 24.294	" "	Sanipāya Kāalkōnda Jotel Hill Platform	40 51 7 95 27 22	4.925251 5.107630	84188 128124	15.945 24.266	" "	
452	Lankamalai Kāalkōnda Yērrakōnda Hill Platform	40 22 9 47 53 0	5.06074 5.064969	101408 116137	19.206 21.996	" "	Mangampet Nathelmalai Jotel Hill Platform	13 22 5 141 55 36	4.237445 4.663499	17276 46079	3.272 8.727	" "	
453	Lankamalai Gānugapēnta Yērrakōnda Hill Platform	68 32 3 64 11 29	5.079384 5.064969	120056 116137	22.738 21.996	" "	Mangampet Nathelmalai Bagarapet Hill Peak	45 7 10 97 42 38	4.563836 4.709484	36630 51225	6.938 9.702	" "	
454	Lankamalai Kāalkōnda Malinenipatnam Platform	17 22 9 22 38 8	4.861365 4.971693	72672 93690	13.764 17.745	" "	Kāalkōnda Nathelmalai Bagarapet Hill Peak	20 45 5 118 27 33	4.563836 4.958515	36630 90890	6.938 17.214	" "	
455	Kāalkōnda Yērrakōnda Hill Platform Mangampet	63 56 40 92 55 7	4.960092 5.06074	91220 101408	17.277 19.206	" "	Nathelmalai Jotel Hill Platform Siddhavattam	32 58 13 35 38 3	4.207830 4.237445	16137 17276	3.056 3.272	" "	
456	Kāalkōnda Malinenipatnam Platform Mangampet	38 41 48 110 18 52	4.685271 4.600953	48447 39898	9.176 7.556	" "	Nathelmalai Bagarapet Hill Peak Siddhavattam	11 14 45 139 20 28	4.039962 4.441057	10964 27609	2.076 5.229	" "	

* This base is taken from the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
469	Mangampet Nathelmalai Taptēvarpalle Hill Platform	12 33 26 60 29 48	3 851139 4 453533 4 494572	7098 28414 31230	1 344 5 381 5 915	481	Ikalseri Sanipáya Budthaid	42 26 30 105 59 55	4 980645 5 091022 5 244667	95641 123317 175657	18 114 23 355 33 268	Inch C.T.I. "
470	Sanipáya Káalkónda Pállakónda Hill Platform	61 31 42 66 57 40	4 999349 5 019235 4 948942	99850 104529 88908	18 911 19 797 16 839	482	Sattevaripálēm Tállarapēt Budthaid	81 22 13 58 33 17	4 997974 4 933939 4 811663	99535 85889 64813	18 851 16 267 12 275	36 "
471	Nēlkurti Sanipáya Pállakónda Hill Platform	52 6 39 50 51 45	5 019235 5 011705 5 110818	104529 102732 129068	19 797 19 457 24 445	488	Sanipáya Káalkónda Vattalūr	52 21 0 59 22 33 68 16 27	4 879535 4 915707 4 948942	75777 82358 88908	14 352 15 598 16 839	C.T.I. "
472	Mangampet Nathelmalai Vōntimitta Pagoda	44 34 38 28 26 3	4 360205 4 191691 4 494572	22920 15549 31230	4 341 2 945 5 915	484	Sanipáya Budthaid Vattalūr	44 1 21 57 31 48 78 26 51	4 831481 4 915707 4 980645	67839 82358 95641	12 848 15 598 18 114	"
473	Káalkónda Nathelmalai Chērlakónda Hill Platform	28 10 55 53 52 44	4 507924 4 741020 4 829548	32205 55083 67538	6 099 10 432 12 791	485	Ikalseri Budthaid Vattalūr	32 57 15 48 28 7 98 34 38	4 831481 4 970152 5 091022	67839 93358 123317	12 848 17 681 23 355	36 "
474	Mangampet Nathelmalai Chērlakónda Hill Platform	76 23 35 33 7 49	4 507924 4 257913 4 494572	32205 18110 31230	6 099 3 430 5 915	486	Sanipáya Káalkónda Attirála Hill Pagoda	12 47 2 68 21 19	4 499088 4 932201 4 948942	19911 83638 88908	3 771 15 840 16 839	C.T.I. "
475	Káalkónda Mangampet Sháalkónda Hill Tree	27 47 30 12 57 11	4 454872 4 136790 4 600953	28502 13702 39898	5 398 2 595 7 556	487	Sanipáya Budthaid Attirála Hill Pagoda	83 35 19 43 55 20	5 078517 4 922401 4 980645	119816 83638 95641	22 693 15 840 18 114	"
476	Káalkónda Mangampet Pōttūr Hill Platform	41 59 1 34 0 32	4 439436 4 361725 4 600953	27507 23000 39898	5 210 4 356 7 556	488	Sanipáya Vattalūr Munikónda Hill Pagoda	42 45 33 59 57 17	4 758306 4 863821 4 915707	57320 73084 82358	10 856 13 842 15 598	"
477	Sanipáya Káalkónda Kōttakónda Hill Platform	34 57 1 31 12 57	4 745706 4 702204 4 948942	55681 50374 88908	10 546 9 540 16 839	489	Sanipáya Káalkónda Munikónda Hill Pagoda	9 35 27 35 51 35	4 317773 4 863821 4 948942	20786 73084 88908	3 937 13 842 16 839	"
478	Káalkónda Mangampet Kōttakónda Hill Platform	51 38 41 83 1 10	4 643352 4 745706 4 600953	43990 55681 39898	8 331 10 546 7 556	490	Káalkónda Vattalūr Ákepád Hill Platform	50 11 0 31 38 16	4 769391 4 603759 4 879535	58802 40157 75777	11 137 7 605 14 352	"
479	Sanipáya Káalkónda Nandalūr Pagoda	1 26 13 8 6 25	4 128622 4 878634 4 948942	13447 75620 88908	2 547 14 322 16 839	491	Káalkónda Vattalūr Rámpur Hill Tree	65 47 50 73 30 2	5 025244 5 040940 4 879535	105985 111414 75777	20 073 21 101 14 352	"
480	Sattevaripálēm Pēddadrug Tállarapēt	44 36 33 90 52 40	4 810923 4 811663 4 965110	64703 64813 92280	12 254 12 275 17 477	492	Budthaid Vattalūr Rámpur Hill Tree	24 42 19 139 46 40	5 025244 5 214186 4 831481	105985 163752 67839	20 073 31 014 12 848	"

* This base is taken from the Synoptical Volume of the Madras Longitudinal Series.

No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			No. of Triangle	Station	Corrected Plane Angle ° ' "	Distance			Theodolite used	
			Log. feet	Feet	Miles				Log. feet	Feet	Miles		
498	Vattalūr Rámpur Hill Tree Bómavaram	h.s. " "	4.841832 4.777021 5.025244	69476 59844 105985	13.158 11.334 20.073	505	Tallarapet Budthaid Ikalseri	h.s. " "	68 12 23 63 15 1	5.091022 5.074070 4.997974	123317 118596 99535	23.355 22.461 18.851	Inch C.T.I. "
494	Budthaid Vattalūr Bómavaram	h.s. " "	4.777021 4.996319 4.831481	59844 99156 67839	11.334 18.780 12.848	506	Vattalūr Rámpur Hill Tree Yérraguntlakota	h.s. s.	81 27 27 68 46 46	5.050893 4.751583 5.025244	112433 56439 105985	21.294 10.689 20.073	C.T.I. "
495	Káalkónða Vattalūr Malaimarapuram Platform	h.s. " "	4.702721 4.726052 4.879535	50434 53217 75777	9.552 10.079 14.352	507	Ikalseri Vattalūr Yérraguntlakota	h.s. " "	35 57 11 40 15 25 103 47 24	4.751583 4.793322 4.970152	56439 62120 93358	10.689 11.765 17.681	" "
496	Sanipáya Káalkónða Malaimarapuram Platform	h.s. " "	4.726052 5.049139 4.948942	53217 111977 88908	10.079 21.208 16.839	508	Vattalūr Bómavaram Tanukónða Hill Platform	h.s. " "	38 30 34 84 2 3	4.645442 4.848844 4.777021	44202 70606 59844	8.372 13.372 11.334	" "
497	Vattalūr Bómavaram Malaimarapuram Platform	h.s. " "	4.788433 4.702721 4.777021	61437 50434 59844	11.636 9.552 11.334	509	Kayyūr, XXXVI Pillinedu, XL Kóttakanama Pass Point No.1	h.s. " "	80 26 51 56 10 11	4.933649 4.859152 4.776587	85832 72302 59784	16.256 13.694 11.323	24 "
498	Káalkónða Vattalūr Úttukūr Hill Platform	h.s. " "	4.532003 4.651502 4.879535	34041 44823 75777	6.447 8.489 14.352	510	Vattalūr Budthaid Kóttakanama Pass Point No.2	h.s. " "	82 14 26 67 8 50	5.120576 5.089069 4.831481	132001 122764 67839	25.000 23.251 12.848	C.T.I. "
499	Sanipáya Vattalūr Yélagalakónða Platform	h.s. " "	4.642862 4.746991 4.915707	43940 55846 82358	8.322 10.577 15.598	511	Vattalūr Bómavaram Karakalpédagu Hill	h.s. " "	96 9 24 46 51 11	4.995143 4.860742 4.777021	98888 72567 59844	18.729 13.744 11.334	" "
500	Sanipáya Budthaid Yélagalakónða Platform	h.s. " "	4.984600 4.746991 4.980645	96516 55846 95641	18.280 10.577 18.114	512	Nélkurti Sanipáya Rajéumalle	h.s. " "	64 51 3 54 13 0 60 55 57	5.126030 5.078429 5.110818	133669 119792 129068	25.316 22.688 24.445	" "
501	Rámpur Hill Tree Bómavaram Chitvel	h.s. s.	4.622860 4.663811 4.841832	41962 46112 69476	7.947 8.733 13.158	513	Sattevaripálém Budthaid Gundalkónða	h.s. " "	68 39 47 51 17 47	5.010790 4.979335 4.933939	102516 95353 85889	19.416 18.059 16.267	86 "
502	Bómavaram Malaimarapuram Platform Chitvel	h.s. s.	4.425857 4.622860 4.788433	26660 41962 61437	5.049 7.947 11.636	514	Sanipáya Budthaid Gundalkónða	h.s. " "	46 38 50 90 38 8 42 43 2	5.010790 5.149145 4.980645	102516 140976 95641	19.416 26.700 18.114	C.T.I. "
503	Vattalūr Bómavaram Pullampet Hill Platform	h.s. " "	4.608660 4.446968 4.777021	40613 27982 59844	7.692 5.301 11.334	515	Sanipáya Rajéumalle Gundalkónða	h.s. " "	50 22 22 68 3 6 61 34 32	5.068430 5.149145 5.126030	117066 140976 133669	22.172 26.700 25.316	" "
504	Vattalūr Bómavaram Gundlatéppa Hill Platform	h.s. " "	4.124634 4.740968 4.777021	13324 55077 59844	2.523 10.431 11.334	516	Nélkurti Rajéumalle Hasanápuram	h.s. " "	48 31 52 35 58 46 95 29 22	4.955090 4.849430 5.078429	90176 70702 119792	17.079 13.390 22.688	" "

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
517	Nēlkurti	h.s.	16 19 11	64358	12 189	529	Sanipāya	16 32 42	16929	3 206	Inch C.T.I.	
	Sanipāya	"	17 58 50	70702	13 390		Gangadiakōnda	78 42 25	58297	11 041		
	Hasanapuram	s.	145 41 59	129068	24 445		Ōdived Pagoda	4 77 23 11	59199	11 212		
518	Nēlkurti	h.s.	29 28 59	74992	14 203	530	Sanipāya	45 13 39	58857	11 147	"	
	Sanipāya	"	92 37 25	152212	28 828		Pulikōnda	70 0 48	77915	14 757		
	Pulikōnda	"	57 53 36	129068	24 445		Rāyachoti Pagoda	4 87 50 16	74992	14 203		
519	Sanipāya	h.s.	58 36 47	85441	16 182	531	Pulikōnda	20 41 37	30724	5 819	"	
	Budthaid	"	48 31 39	74992	14 203		Gangadiakōnda	137 23 41	58857	11 147		
	Pulikōnda	"	72 51 34	95641	18 114		Rāyachoti Pagoda	4 51 11 60	32446	6 145		
520	Sanipāya	h.s.	24 33 36	32446	6 145	532	Pulikōnda	49 31 37	32770	6 206	"	
	Pulikōnda	"	49 19 11	59199	11 212		Gangadiakōnda	81 36 17	42616	8 071		
	Gangadiakōnda	"	106 7 13	74992	14 203		Chintākuntabanda Pagoda	4 51 11 60	32446	6 145		
521	Sanipāya	h.s.	50 4 59	52507	9 945	533	Sanipāya	24 49 58	32770	6 206	"	
	Hasanapuram	s.	59 51 3	59199	11 212		Gangadiakōnda	24 30 56	32377	6 132		
	Gangadiakōnda	h.s.	70 3 58	64358	12 189		Chintākuntabanda Pagoda	4 77 23 11	59199	11 212		
522	Nēlkurti	h.s.	30 41 18	51936	9 836	534	Nēlkurti	69 58 14	129472	24 521	86	
	Hasanapuram	s.	13 19 17	23447	4 441		Sanipāya	40 32 37	89578	16 966		
	Chinna Ubuledevarakōnda Pagoda	h.s.	4 715 466	70702	13 390		Bujannalai Stone	5 110 818	129068	24 445		
523	Hasanapuram	s.	65 33 1	48365	9 160	535	Sanipāya	21 35 47	28498	5 397	C.T.I.	
	Gangadiakōnda	h.s.	33 13 36	29112	5 514		Pulikōnda	53 59 58	62639	11 863		
	Virapalle Hill Pagoda	h.s.	4 720 217	52507	9 945		Malaikōnda No. 1 Pagoda	4 87 50 16	74992	14 203		
524	Sanipāya	h.s.	68 27 42	102378	19 390	536	Sanipāya	99 39 31	158696	30 056	"	
	Pulikōnda	"	68 35 19	102467	19 407		Budthaid	43 53 28	111605	21 137		
	Meddelakōnda Stone	h.s.	4 87 50 16	74992	14 203		Vandādi	36 27 1	95641	18 114		
525	Nēlkurti	h.s.	49 41 34	102467	19 407	537	Nēlkurti	55 40 14	111605	21 137	"	
	Sanipāya	"	24 9 43	54999	10 416		Sanipāya	51 34 41	105881	20 053		
	Meddelakōnda Stone	h.s.	4 849 430	70702	13 390		Vandādi	72 45 5	129068	24 445		
526	Nēlkurti	h.s.	12 29 15	16260	3 080	538	Budthaid	58 53 15	73962	14 008	"	
	Hasanapuram	s.	97 25 51	74569	14 123		Pulikōnda	22 37 10	33226	6 203		
	Baudapalli Hill Pagoda	h.s.	4 211 128	70702	13 390		Vustikayalapēnta Pagoda	4 93 16 65	85441	16 182		
527	Nēlkurti	h.s.	45 22 30	86188	16 324	539	Sattevaripālēm	20 15 31	33226	6 293	"	
	Rājñmalle	"	53 2 50	96773	18 328		Budthaid	43 15 40	65761	12 455		
	Matia Pagoda	h.s.	5 07 8 429	119792	22 688		Vustikayalapēnta Pagoda	4 93 33 39	85889	16 267		
528	Sanipāya	h.s.	21 56 1	25162	4 766	540	Pulikōnda	96 44 40	59932	11 351	"	
	Gangadiakōnda	"	96 34 7	66921	12 674		Gangadiakōnda	50 43 58	46723	8 849		
	Abbavaram Pagoda	h.s.	4 77 23 11	59199	11 212		Rāyavaram	32 31 22	32446	6 145		

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
541	Pulikōnda	h.s.	4.740978	55078	10.431	553	Nēlkurti	h.s.	5.046268	111242	21.069	Inch C.T.I.
	Vustikayalapēnta Pagoda	s.	4.669527	46723	8.849		Sanipāya	"	5.142024	138683	26.266	
	Rāvavaram	"	4.869006	73962	14.008		Rājagūda Hill Platform	"	5.110818	129068	24.445	
542	Pulikōnda	h.s.	3.156932	1435	0.271	554	Nēlkurti	h.s.	4.606165	40380	7.648	"
	Rāvavaram	s.	4.666128	46358	8.780		Rājēnmalle	"	5.142024	138683	26.266	
	Rāvavaram Pagoda	"	4.669527	46723	8.849		Rājagūda Hill Platform	"	5.078429	119792	22.688	
543	Pulikōnda	h.s.	4.310382	20435	3.870	555	Pulikōnda	h.s.	4.647377	44399	8.409	"
	Rāvavaram	s.	4.628635	42524	8.054		Gangadiakōnda	"	4.371599	23529	4.456	
	Yērrakōnda	h.s.	4.669527	46723	8.849		Chēttipalle Hill Pagoda	"	4.511100	32446	6.145	
544	Pulikōnda	h.s.	4.546781	35219	6.670	556	Sattavaripālēm	h.s.	4.546279	35179	6.663	"
	Gangadiakōnda	"	4.309228	20381	3.860		Gundalkōnda	"	4.889261	77493	14.677	
	Sundupalle Pagoda	"	4.511160	32446	6.145		Marellakōnda Hill Platform	"	4.979335	95353	18.059	
545	Pulikōnda	h.s.	4.559575	36272	6.870	557	Sanipāya	h.s.	4.765697	58304	11.042	"
	Gangadiakōnda	"	4.210947	16254	3.078		Pulikōnda	"	5.072974	118300	22.405	
	Narsanagaripalle Pagoda	"	4.511160	32446	6.145		Marellakōnda Hill Platform	"	4.875016	74992	14.203	
546	Hasanāpuram	s.	4.384132	24218	4.587	558	Rājēnmalle	h.s.	5.035541	108528	20.555	"
	Gangadiakōnda	h.s.	4.878449	75587	14.316		Gundalkōnda	"	5.033658	108058	20.466	
	Kōyakōnda Hill Pagoda	"	4.720217	52507	9.945		Tumakōnda	"	5.068430	117066	22.172	
547	Sanipāya	h.s.	4.384132	24218	4.587	559	Gundalkōnda	h.s.	4.948962	88912	16.839	86
	Gangadiakōnda	"	4.888340	77329	14.646		Tumakōnda	"	4.794244	62265	11.793	
	Kōyakōnda Hill Pagoda	"	4.772311	59199	11.212		Chintemeklapalli	"	5.035541	108528	20.555	
548	Pulikōnda	h.s.	4.741059	55088	10.433	560	Pulikōnda	h.s.	4.826690	67095	12.707	C.T.I.
	Gangadiakōnda	"	4.635544	43206	8.183		Gangadiakōnda	"	4.782867	60655	11.488	
	Kōyakōnda Stone	"	4.511160	32446	6.145		Bonamalai Hill Platform	"	4.511160	32446	6.145	
549	Rājēnmalle	h.s.	5.025014	105929	20.062	561	Rājēnmalle	h.s.	4.957356	90647	17.168	"
	Gundalkōnda	"	4.218891	16554	3.135		Tumakōnda	"	4.635147	43166	8.176	
	Nallakōnda Hill Building	"	5.068430	117066	22.172		Bonamalai Hill Platform	"	5.033658	108058	20.466	
550	Pulikōnda	h.s.	4.788659	61469	11.642	562	Tumakōnda	h.s.	5.011977	102796	19.469	86
	Gangadiakōnda	"	4.856598	71878	13.613		Chintemeklapalli	"	4.556771	36039	6.826	
	Nallakōnda Hill Building	"	4.511160	32446	6.145		Gurramkōnda	"	4.948962	88912	16.839	
551	Rājēnmalle	h.s.	4.064636	11605	2.108	563	Gundalkōnda	h.s.	4.874794	74954	14.196	"
	Nallakōnda Hill Building	s.	4.352159	22499	4.201		Chintemeklapalli	"	4.847146	70331	13.320	
	Chinnamandēm	"	4.218891	16554	3.135		Yēnnugōndapālēm Platform	"	4.794244	62265	11.793	
552	Rājēnmalle	h.s.	4.565946	36808	6.971	564	Tumakōnda	h.s.	4.874794	74954	14.196	"
	Rekkakōnda Hill Platform	s.	4.352159	22499	4.201		Chintemeklapalli	"	4.637332	43384	8.217	
	Chinnamandēm	"	4.370558	23472	4.446		Yēnnugōndapālēm Platform	"	4.948962	88912	16.839	

* A small theodolite. † This base is taken from the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
565	Gundalkōnda Chintemeklapalli Bandapalli Platform	70 41 4 47 24 35	4 823528 4 715692 4 794244	66608 51963 62265	12 615 9 841 11 793	Inch C.T.I. "	577	Sattevaripālēm Budthaid Piler	94 3 50 36 54 35 49 1 35	5 054892 4 834538 4 933939	113473 68318 85889	21 21 491 12 939 16 267	Inch C.T.I. "
566	Tumakōnda Chintemeklapalli Bandapalli Platform	48 30 18 42 34 10	4 823528 4 779296 4 948962	66608 60158 88912	12 615 11 394 16 839	"	578	Chintemeklapalli Pālamanda Kalikiri Fort	81 37 46 37 52 28 4 400952 *	4 462621 4 255393 4 400952	29015 18005 25524	5 495 3 410 4 834	"
567	Gundalkōnda Chintemeklapalli Gundlūr Pagoda	70 58 26 24 44 35	4 772011 4 418156 4 794244	59158 26191 62265	11 204 4 960 11 793	"	579	Sattevaripālēm Tallarapet Tālakōnapada Platform	45 28 33 47 36 46	4 665356 4 680707 4 811663	46276 47941 64813	8 764 9 080 12 275	"
568	Tumakōnda Chintemeklapalli Gundlūr Pagoda	39 56 59 65 14 10	4 772011 4 922504 4 948962	59158 83657 88912	11 204 15 844 16 839	"	580	Sattevaripālēm Tallarapet Jondrazikuppam Platform	12 5 52 84 5 53	4 135558 4 811899 4 811663	13663 64848 64813	2 588 12 282 12 275	"
569	Tumakōnda Gurramkōnda Tarigōnda Fort	61 15 14 32 7 29	4 500407 4 283245 4 556771	31652 19198 36039	5 995 3 636 6 826	"	581	Sattevaripālēm Tallarapet Bairagundal Hill Mark	7 31 20 144 46 0	4 261172 4 905304 4 811663	18246 80409 64813	3 456 15 229 12 275	86
570	Gundalkōnda Chintemeklapalli Hoblespuram Hill Platform	40 4 13 79 38 13	4 664141 4 848297 4 794244	46147 70517 62265	8 740 13 356 11 793	"	582	Pēddadrag Tallarapet Nāmalpet	21 34 52 24 12 26 134 12 42	4 520177 4 568369 4 810923	33127 37014 64703	6 274 7 010 12 254	C.T.I.
571	Gundalkōnda Chintemeklapalli Pulsanikōnda Stone	49 35 51 94 20 20	4 906038 5 023116 4 794244	80545 105467 62265	15 255 19 975 11 793	36	583	Sattevaripālēm Pēddadrag Nāmalpet	23 38 50 66 11 25 90 9 45 *	4 568369 4 926481 4 965110	37014 84427 92280	7 010 15 990 17 477	"
572	Chintemeklapalli Gurramkōnda Pulsanikōnda Stone	24 23 35 48 29 21	4 647598 4 906038 5 011977	44422 80545 102796	8 413 15 255 19 469	"	584	Sattevaripālēm Tallarapet Jangamalaikōnda Rock	38 55 43 15 45 24	4 698181 4 333322 4 811663	49909 21569 64813	9 453 4 085 12 275	86
573	Chintemeklapalli Gurramkōnda Vāyalpād Pagoda	25 9 35 34 14 14	4 705653 4 827333 5 011977	50775 67194 102796	9 617 12 726 19 469	"	585	Pēddadrag Nāmalpet Chandragiri	64 3 20 39 28 11 76 28 29	4 534448 4 383815 4 568369	34233 24200 37014	6 484 4 583 7 010	C.T.I.
574	Sattevaripālēm Pālamanda Sandraravipalli Fort	22 41 56 86 51 47	4 570396 4 983283 4 958114 *	37187 96224 90806	7 043 18 224 17 198	C.T.I.	586	Pēddadrag Chandragiri Karakambod Fort	112 38 42 51 36 39	4 915456 4 844509 4 383815	82311 69905 24200	15 589 13 240 4 583	"
575	Gundalkōnda Chintemeklapalli Narasimnaipalli Platform	13 37 27 16 2 29	4 471781 4 541125 4 794244	29633 34764 62265	5 612 6 584 11 793	"	587	Pēddadrag Chandragiri Tirupati Pagoda	85 23 18 62 7 9	4 652280 4 600102 4 383815	44903 39820 24200	8 504 7 542 4 583	"
576	Sattevaripālēm Gundalkōnda Piler	25 24 3 41 3 40 113 32 17	4 649468 4 834538 4 979335	44614 68318 95353	8 450 12 939 18 059	"	588	Yerpet, XLIII Nagari, XXXIII Tirupati Railway Station	40 4 35 13 45 3	4 990346 4 557019 5 088593	97802 36109 122629	18 523 6 839 23 225	24

NOTE.—Station Nagari, XXXIII appertains to the Madras Longitudinal Series. * This base is taken from the Synoptical Volume of the Madras Longitudinal Series.
† For another triangle to this station, see the Synoptical Volume of the Madras Longitudinal Series, the value of the common side being the same.

No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used		
		°	'	"	Log. feet	Feet	Miles					Log. feet	Feet	Miles			
589	Yerpet, XLIII Nagari, XXXIII Tirupati No. 1 Temple	63	40	1	5° 04' 17.91"	110101	20.852	Inch 24	601	Ikalseri	65	23	1	5° 01' 58.00"	103705	19.641	Inch 86
* 590	Péddadrug Námálpét Nágapatla Pagoda	70	58	52	4° 50' 57.35"	32043	6.069	c.t.i.	602	Rösanúr	52	59	2	5° 01' 58.00"	103705	19.641	"
591	Péddadrug Chandragiri Kúndrapak Hill Pillar	124	41	50	4° 49' 13.75"	48998	9.280	"	603	Ikalseri	22	55	32	4° 49' 13.75"	81991	15.529	c.t.i.
592	Péddadrug Chandragiri Kúpcbandrapet Hill Peak	125	59	41	4° 49' 13.75"	31001	5.871	"	604	Rösanúr	101	58	7	5° 31' 36.77"	205910	38.908	"
593	Péddadrug Chandragiri Malaikönda No. 2 Pagoda	20	47	7	4° 38' 38.15"	24200	4.583	"	605	Gudali	55	6	21	5° 23' 71.47"	172642	32.697	"
594	Péddadrug Chandragiri Appalayagunta Peak	13	7	43	4° 38' 38.15"	7009	1.327	"	606	Allikönda	76	37	49	5° 31' 36.77"	205910	38.908	"
595	Ikalseri Kálavakönda No. 1 Rösanúr	38	31	19	4° 28' 37.24"	19219	3.640	"	607	Bandaluru, XXXIV Gurrakönda, XXXVII Gudali Hill Temple	34	43	35	4° 28' 37.24"	65481	12.402	24
596	Ikalseri Rösanúr Yerpet	94	55	59	4° 38' 38.15"	24200	4.583	"	608	Gurrakönda, XXXVII Anéputi, XXXIX Gudali Hill Temple	55	19	17	4° 88' 97.19"	77575	14.692	"
597	Rösanúr Yerpet Kannaköndarayan	33	42	57	5° 02' 60.32"	106177	20.109	86	609	Gudali, XXXVIII Kálavakönda No. 2 Ballavol	46	34	0	4° 48' 63.59"	30645	5.804	12
598	Kálavakönda No. 1 Rösanúr Kannaköndarayan	46	23	13	5° 03' 46.18"	108297	20.511	"	610	Gudali, XXXVIII Ballavol Úttamanéllúr	35	15	1	4° 33' 15.09"	21454	4.063	"
599	Kálavakönda No. 1 Rösanúr Kadived Fort	30	2	35	4° 39' 10.38"	59393	11.249	"	611	Ballavol Úttamanéllúr Lellapálem	47	37	19	4° 20' 00.35"	15850	3.002	"
600	Ikalseri Yerpet Tirhampád Choultry	65	45	25	4° 50' 15.32"	30436	6.901	"	612	Lellapálem Kanapur	61	31	34	4° 50' 15.32"	8648	1.638	"

Note.—Station Nagari, XXXIII appertains to the Madras Longitudinal Series, by which the value of the common side was greater by 1 foot.
* For another triangle to this point, see the Synoptical Volume of the Madras Longitudinal Series.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
613	Gudali, XXXVIII Üttamanéllür Puchalapalle	22 50 23 105 51 4 51 18 33	4' 105437 4' 499596 4' 408822	12748 31593 25634	2' 414 5' 984 4' 855	625	Rösanür Mallam Néllipüdi Pagoda	18 56 0 89 42 30	4' 497868 4' 986691 4' 963292	31468 96982 91895	5' 960 18' 368 17' 404	Inch C.T.I. "
614	Gudali, XXXVIII Puchalapalle Kondür	18 12 17 123 56 0 37 51 43	4' 206326 4' 630511 4' 499596	16081 42708 31593	3' 046 8' 089 5' 984	626	Lellapälém Köttapatnam Köttapatnam Beacon	34 33 58 112 28 24 32 57 38	3' 982018 4' 193861 3' 903810	9594 15626 9200	1' 817 2' 960 1' 743	12 "
615	Gudali, XXXVIII Kondür Dugarápatnam	10 21 51 128 45 47 40 52 22	4' 069721 4' 700631 4' 630511	11741 50890 42708	2' 224 9' 638 8' 089	627	Gudali, XXXVIII Armeghon Light-house Köttapatnam Beacon	68 36 23 119 10 30 75 23 31	4' 887174 4' 687415 4' 903908	77121 48687 80151	14' 606 9' 221 15' 180	"
616	Gudali, XXXVIII Dugarápatnam Armeghon Light-house	20 22 51 130 58 31	4' 567867 4' 903908 4' 700631	36971 80151 50890	7' 002 15' 180 9' 638	628	Gudali Mallam Dugarápatnam Sand-hill	17 18 0 119 10 30 78 17 10	4' 242715 4' 710492 4' 966697	17487 51344 92618	3' 312 9' 724 17' 541	C.T.I. "
617	Gudali, XXXVIII Anépüdi, XXXIX Armeghon Light-house	62 10 37 60 22 46	4' 911374 4' 903908 4' 890486	81541 80151 77712	15' 443 15' 180 14' 718	629	Rösanür Gudali Togaramüdi	41 37 20 82 37 50 56 33 40	4' 913768 4' 798146 4' 723161	81991 62827 52864	15' 529 11' 899 10' 012	"
618	Gudali, XXXVIII Kambákamdurgam, XLI Armeghon Light-house	74 17 46 27 20 12	5' 225368 4' 903908 5' 232875	168023 80151 170952	31' 822 15' 180 32' 377	630	Rösanür Togaramüdi Molakalapüdi	53 0 40 93 4 0 82 37 50	4' 772740 4' 869706 4' 617015	59257 74081 41401	11' 223 14' 030 7' 841	"
619	Rösanür Yerpet Kambákamdurgam	69 33 10 43 58 9 66 28 41	5' 107917 4' 977710 5' 098506	128209 94997 125460	24' 282 17' 992 23' 761	631	Rösanür Molakalapüdi Mizár Pagoda	38 12 54 29 16 40 21 48 13	4' 690177 4' 588105 4' 608078	48998 38735 116971	9' 280 7' 336 22' 154	24
620	Rösanür Kambákamdurgam Pantrangam	91 7 13 47 37 5 41 15 42	5' 158412 5' 026944 4' 977710	144017 106401 94997	27' 276 20' 152 17' 992	632	Pillimedu, XL Yerpet, XLIII Kálahasti Pagoda	40 39 25 73 7 38 60 29 45	4' 772740 4' 869706 4' 934238	48998 74081 85948	9' 280 14' 030 16' 278	"
621	Rösanür Gudali Pantrangam	58 40 42 73 38 30 47 40 48	4' 976482 5' 026944 4' 913768	94729 106401 81991	17' 941 20' 152 15' 529	633	Kambákamdurgam, XLI Yerpet, XLIII Kálahasti Pagoda	40 39 25 73 7 38 60 29 45	4' 690177 4' 934238 4' 936499	48998 85948 86397	9' 280 16' 278 16' 363	"
622	Rösanür Pantrangam Mallam	32 31 58 59 39 34 87 48 28	4' 757869 4' 963292 5' 026944	57262 91895 106401	10' 845 17' 404 20' 152	634	Rösanür Kambákamdurgam Kálahasti	46 22 37 73 7 38 32 14 32	4' 936499 4' 856495 4' 936499	86397 71861 86397	16' 363 13' 610 16' 363	"
623	Rösanür Kambákamdurgam Mallam	123 39 11 27 39 51 28 40 58	5' 216841 4' 963292 4' 977710	164756 91895 94997	31' 204 17' 404 17' 992	635	Yerpet Kambákamdurgam Kálahasti	20 6 4 127 39 24 32 14 32	4' 745516 5' 107917 4' 936499	55057 128209 86397	10' 541 24' 282 16' 363	"
624	Rösanür Gudali Mallam	26 8 44 90 42 31 63 8 45	4' 607422 4' 963292 4' 913768	40497 91895 81991	7' 670 17' 404 15' 529	636	Yerpet Kálahasti Tøndamanád Pagoda	23 58 7 44 20 53 23 58 7	4' 386167 4' 621875 4' 386167	24331 41867 24331	4' 608 7' 929 4' 608	"

* Deduced base.

No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used
		o	'	"	Log. feet	Feet	Miles				Log. feet	Feet	Miles				
637	Rōsanūr Kambākamdurgam Irakam	h.s.	46	5	8	5.001671	100385	19.012	649	Yerpet Nagari, XXXIII Allimallangavaram Pagoda	h.s.	41	22	2	4.987495	97162	18.402
		"	90	56	14	5.144053	139333	26.389			"	23	45	18	4.772489	59223	11.216
		s.	42	58	38	4.977710	94997	17.992			"				5.125077	133376	25.261
638	Kambākamdurgam Irakam Polūr Pagoda	h.s.	50	41	49	4.891290	77856	14.745	650	Yerpet Kambākamdurgam Sadasiapuramkōnda	h.s.	41	59	0	4.934872	86074	16.302
		s.	43	9	54	4.837779	68830	13.036			"	43	7	32	4.944304	87964	16.660
		"				5.001671	100385	19.012			"	94	53	28	5.107917	128209	24.282
639	Rōsanūr Kambākamdurgam Polūr Pagoda	h.s.	46	19	24	4.837779	68830	13.036	651	Kambākamdurgam Nagari, XXXIII	h.s.	78	9	4	5.080191	120279	22.780
		"	40	14	25	4.788720	61478	11.644			"	27	48	34	4.758427	57336	10.859
		"				4.977710	94997	17.992			"	74	2	22	5.072472	118100	22.379
640	Kambākamdurgam Irakam Andagundala	h.s.	26	50	30	4.762008	57811	10.940	652	Nagari, XXXIII Chēmbetu Satyaved	h.s.	27	8	53	4.817441	65681	12.440
		s.	24	47	30	4.720870	53687	10.168			"	56	40	38	5.080191	120279	22.780
		"	128	22	0	5.001671	100385	19.012			"	96	10	29	5.155671	143110	27.104
641	Rōsanūr Kambākamdurgam Khasubakuppam Mosque	h.s.	66	30	48	5.075914	119101	22.557	653	Kambākamdurgam Irakam Igararipālēm	h.s.	28	1	30	4.673711	47175	8.935
		"	66	28	16	5.075775	119062	22.550			s.	63	2	10	4.951766	89488	16.949
		"				4.977710	94997	17.992			"				5.001671	100385	19.012
642	Rōsanūr Kambākamdurgam Jonangipālēm Mosque	h.s.	62	51	16	5.076004	119125	22.562	654	Irakam Igararipālēm Arambākam	h.s.	45	1	30	4.541742	34813	6.593
		"	71	56	31	5.104750	127277	24.105			"				4.369798	23431	4.438
		"				4.977710	94997	17.992			"	106	32	30	4.673711	47175	8.935
643	Kambākamdurgam Irakam Tēttupet	h.s.	8	33	9	4.629657	42624	8.073	655	Kambākamdurgam, XLI Nagari, XXXIII Pulicat Light-house	h.s.	124	35	16	5.415487	260308	49.301
		s.	150	56	43	5.143619	139194	26.302			"	33	27	41	5.241398	174340	33.019
		"	20	30	8	5.001671	100385	19.012			"				5.072603	118196	22.386
644	Irakam Andagundala Venād Tree	h.s.	50	41	10	4.650754	44746	8.475	656	Kambākamdurgam Nagari, XXXIII Pulicat Church	h.s.	123	45	41	5.408335	256056	48.496
		"	37	39	30	4.548196	35334	6.692			"	33	40	45	5.232481	170797	32.348
		"				4.762008	57811	10.949			"				5.072472	118100	22.379
645	Irakam Tēttupet Venād Tree	h.s.	75	28	3	4.681758	48057	9.102	657	Ikalseeri Nagari, XXXIII Pulicat Church	h.s.	41	24	21	5.408335	256056	48.496
		"	45	22	33	4.548196	35334	6.692			"	100	14	22	5.580907	380984	72.156
		"				4.629657	42624	8.073			"				5.380641	240238	45.500
646	Kambākamdurgam Tēttupet Rāmanappa Chattram	h.s.	17	33	0	4.626938	42358	8.022	658	Chēmbedu Erumavēttipālsiyam Manjankaranai	h.s.	14	57	30	4.115375	13043	2.470
		s.	80	11	30	5.141201	138421	26.216			"				4.695731	49628	9.399
		"				5.143619	139194	26.302			"	85	53	15	4.702439	50401	9.546
647	Yerpet Kambākamdurgam Nagari, XXXIII	h.s.	53	39	46	5.072472	118160	22.379	659	Satyaved Manjankaranai Arani	h.s.	11	10	38	4.439503	27511	5.210
		"	65	24	18	5.125077	133376	25.261			s.	27	33	17	4.817251	65652	12.434
		"	60	55	56	5.107917	128209	24.282			"	141	16	5	4.948400	88797	16.818
648	Ikalseeri Yerpet Nagari, XXXIII	h.s.	6	56	13	5.125077	133376	25.261	660	Kambākamdurgam Nagari, XXXIII Pundi Pagoda	h.s.	55	38	51	5.069311	117304	22.217
		"	167	26	6	5.380641	240238	45.500			"	68	5	16	5.119986	131821	24.966
		"				5.034618	108297	20.511			"				5.072472	118160	22.379

NOTE.—Station Nagari, XXXIII appertains to the Madras Longitudinal Series.
* This base is taken from the Synoptical Volumes of the Madras Longitudinal Series.

† Deduced base.

SECONDARY TRIANGULATION. TRIANGLES.

Triangle No.	Station	Corrected Plane Angle	Distance			Triangle No. or Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles			Log. feet	Feet	Miles	
661	Gundlamma, XLV	59 23 37	4.881863	76184	14.429	673	h.s.	3.777115	5986	1.134	Inch 14
	Kappakōnda, XLVI	41 14 33	4.766067	58354	11.052						
	Kappakōnda Hill Mark		4.939493	86995	16.476						
662	Gundlamma, XLV	83 37 25	4.953104	89764	17.001	674	h.s.	4.251004	17824	3.376	"
	Kalimāmi, XLIX	40 14 41	4.766067	58354	11.052						
	Kappakōnda Hill Mark		4.875044	74997	14.204						
663	Nallakōnda, L	66 39 56	4.974481	94293	17.859	675	h.s.	4.390121	24554	4.650	"
	Elangoi, LI	40 6 6	4.820524	66149	12.528						
	Korukōnda Hill Temple		4.992672	98327	18.622						
664	Nallakōnda, L	35 24 34	4.640508	43703	8.277	676	h.s.	4.390121	24554	4.650	"
	Pothkōnda, LIV	61 17 3	4.820524	66149	12.528						
	Korukōnda Hill Temple		4.874547	74911	14.188						
665	Nallakōnda, L	30 24 56	4.699117	50017	9.473	677	h.s.	4.346392	22202	4.205	"
	Nāwilmēta, LIII	74 33 1	4.978752	95225	18.035						
	Milaramēta	75 2 3	4.979750	95444	18.077						
666	Nallakōnda, L	30 10 4	4.685072	48425	9.171	678	h.s.	4.346392	22202	4.205	"
	Pothkōnda, LIV	98 48 35	4.978752	95225	18.035						
	Milaramēta	51 1 21	4.874547	74911	14.188						
667	Pothkōnda, LIV	22 45 37	4.305847	20223	3.830	679	h.s.	4.346392	22202	4.205	"
	Milaramēta	45 7 11	4.568665	37039	7.015						
	Raghudevapuram	112 7 12	4.685072	48425	9.171						
668	Nāwilmēta, LIII	48 23 13	4.580926	38100	7.216	680	h.s.	4.967658	92824	17.580	24
	Milaramēta	30 34 24	4.413640	25920	4.909						
	Sudikōnda No. 2	101 2 23	4.699117	50017	9.473						
669	Nāwilmēta, LIII	50 36 30	4.347383	22253	4.215	681	h.s.	4.266868	18487	3.501	"
	Sudikōnda No. 2	65 12 26	4.417306	26140	4.951						
	Gurajalakōnda	64 11 4	4.413640	25920	4.909						
670	Nāwilmēta, LIII	98 59 43	4.777779	59949	11.354	682	h.s.	4.727611	53409	10.115	"
	Milaramēta	25 30 38	4.417306	26140	4.951						
	Gurajalakōnda	55 29 39	4.699117	50017	9.473						
671	Sudikōnda No. 2	37 31 12	4.199084	15816	2.995	683	h.s.	3.513979	3266	0.619	"
	Gurajalakōnda	83 30 25	4.411645	25802	4.887						
	Dowlaishweram	58 58 23	4.347383	22253	4.215						
672	Gurajalakōnda	49 58 26	4.284522	19254	3.647	684	h.s.	4.284522	19254	3.647	8
	Dowlaishweram	91 2 59	4.400361	25140	4.761						
	Rajahmundry	38 58 35	4.199084	15816	2.995						

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	
			Log. feet	Feet	Miles				Log. feet	Feet	Miles		
685	Dudugat, LXIII Ragulpád Mulgampád	s. h.s.	33 38 54 78 34 3 67 47 3	4' 581805 4' 829518 4' 804723	38177 67533 63786	7' 231 12' 790 12' 081	Yérragattu, LXVI Bézáda, LXIX Agéripalli Hill Temple	697	114 20 14 26 26 55	4' 931278 4' 620440 4' 772563	85365 41729 59233	16' 168 7' 903 11' 218	Inch 24 "
686	Dudugat, LXIII Dálgattu, LXV Malesvara Hill Temple	s. h.s.	6 0 5 30 37 18	4' 065539 4' 753235 4' 821850	11629 56055 66351	2' 202 10' 730 12' 567	Dudugat, LXIII Yérragattu, LXVI Agéripalli Hill Temple	698	9 24 34 14 26 59	4' 620440 4' 804076 5' 013661	41729 63691 103243	7' 903 12' 063 19' 554	"
687	Dálgattu, LXV Ragulpád Muthianu	s. h.s.	49 44 17 44 58 30 85 17 13	4' 653869 4' 620585 4' 769818	45068 41743 58860	8' 536 7' 906 11' 148	Jujúrdurgam, LXVIII Bézáda, LXIX Kóndúr Hill Pole	699	37 3 49 23 2 9	4' 763514 4' 575929 4' 921377	58011 37664 83440	10' 987 7' 133 15' 803	"
688	Dálgattu, LXV Muthianu Núvíd	h.s. s.	34 53 25 72 47 57 72 18 38	4' 399022 4' 621749 4' 620585	25062 41855 41743	4' 747 7' 927 7' 906	Yérragattu, LXVI Bézáda, LXIX Kóndúr Hill Pole	700	71 50 54 32 9 51	4' 763514 4' 511878 4' 772563	58011 32500 59233	10' 987 6' 155 11' 218	"
689	Dudugat, LXIII Muthianu Núvíd	h.s. s.	48 38 51 78 22 59 52 58 10	4' 399022 4' 514590 4' 425753	25062 32703 26653	4' 747 6' 194 5' 048	Yérragattu, LXVI Jujúrdurgam, LXVIII Kóndapalli Hill Fort	701	28 20 53 41 44 48	4' 545237 4' 692071 4' 841948	35094 49212 69494	6' 647 9' 320 13' 162	"
690	Dudugat, LXIII Muthianu Anamanthu	h.s. s.	54 42 33 52 53 44 72 23 43	4' 358397 4' 348335 4' 425753	22824 22302 26653	4' 323 4' 224 5' 048	Yérragattu, LXVI Bézáda, LXIX Kóndapalli Hill Fort	702	52 1 58 53 15 47	4' 684953 4' 692071 4' 772563	48412 49212 59233	9' 169 9' 320 11' 218	"
691	Dudugat, LXIII Anamanthu Góllapalli	s. "	58 41 1 54 26 18 66 52 41	4' 316318 4' 295035 4' 348335	20717 19727 22302	3' 924 3' 736 4' 224	Bézáda, LXIX Anantavaram, LXXI Júpúdi Hill Temple	703	35 42 43 49 42 6	4' 576126 4' 692275 4' 808536	37681 49235 64348	7' 137 9' 325 12' 187	"
692	Dudugat, LXIII Mulgampád Ellore	h.s. s.	72 2 2 50 16 25 57 41 33	4' 880853 4' 788549 4' 829518	76007 61454 67533	14' 395 11' 639 12' 790	Jujúrdurgam, LXVIII Chuntalapád, LXXII Rághavapuram	704	34 48 32 47 50 54 97 20 34	4' 654176 4' 767696 4' 894085	45100 58573 78358	8' 542 11' 093 14' 841	" 14
693	Inupráyi, LXIV Jammalavoidurgam, LXVII Kannigiri Hill Tree	h.s. s.	89 43 18 48 1 35	5' 112846 4' 984105 4' 940474	129672 96406 87191	24' 559 18' 259 16' 514	Jujúrdurgam, LXVIII Jónnalagadda, LXX Rághavapuram	705	22 36 10 43 59 42 113 24 8	4' 510680 4' 767696 4' 888683	32410 58573 77390	6' 138 11' 093 14' 657	24 14
694	Dálgattu, LXV Jammalavoidurgam, LXVII Kannigiri Hill Tree	h.s. s.	45 0 15 110 19 5	5' 112846 5' 235430 4' 884001	129672 171961 76560	24' 559 32' 568 14' 500	Jónnalagadda, LXX Rághavapuram Tirumalaguri Hill Temple	706	109 17 14 48 41 18	4' 911560 4' 812361 4' 510680	81576 64917 32410	15' 450 12' 295 6' 138	24 14
695	Inupráyi, LXIV Jammalavoidurgam, LXVII Tiruvúr Temple	h.s. s.	38 41 16 40 17 18	4' 744496 4' 759221 4' 940474	55526 57441 87191	10' 516 10' 879 16' 514	Jónnalagadda, LXX Rághavapuram Kógramalai Hill Temple	707	97 2 25 53 13 41	4' 811965 4' 718808 4' 510680	64858 52348 32410	12' 284 9' 914 6' 138	24 14
696	Inupráyi, LXIV Dálgattu, LXV Tiruvúr Temple	h.s. s.	91 24 36 33 32 57	5' 016637 4' 759221 4' 930350	103905 57441 85182	19' 679 10' 879 16' 133	Jónnalagadda, LXX Rághavapuram Kámiréddipalli Village	708	70 6 56 6 59 4	4' 495085 4' 3' 60715 4' 510680	31267 4043 32410	5' 922 0' 766 6' 138	24 14

* Deduced base.

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
709	Jönnalagadda, LXX Rághavapuram Kúdmái Temple	56 4 28 52 22 54	4.452566 4.432389 4.510680	28351 27064 32410	5.369 5.126 6.138	Inch 24 14	721	Jujúrdurgam, LXVIII Anantavaram, LXXI Amarávati Temple No. 1	27 7 20 56 16 58	4.513114 4.774266 4.851370	32592 59466 71018	6.173 11.262 13.450	Inch 24 "
710	Jönnalagadda, LXX Rághavapuram Nandigáma Temple	17 9 57 81 54 17	3.986171 4.511796 4.510680	9687 32493 32410	1.835 6.154 6.138	24 14	722	Jujúrdurgam, LXVIII Anantavaram, LXXI Amarávati Temple No. 2	26 58 26 56 31 0	4.510837 4.775369 4.851370	32422 59617 71018	6.140 11.291 13.450	" " "
711	Jönnalagadda, LXX Rághavapuram Nandigáma Bungalow	18 6 45 89 11 46	4.023404 4.530763 4.510680	10554 33944 32410	1.999 6.429 6.138	24 14	723	Jujúrdurgam, LXVIII Chintalapád, LXXII Amarávati Temple No. 2	39 15 29 49 31 18	4.695459 4.775369 4.894085	49597 59617 78358	9.393 11.291 14.841	" " "
712	Jönnalagadda, LXX Rághavapuram Juzzúr House	41 6 47 104 52 17	4.580870 4.748147 4.510680	38095 55995 32410	7.215 10.605 6.138	24 14	724	Jujúrdurgam, LXVIII Bézváda, LXXIX Anantavaram Temple	45 40 16 57 13 22	4.786981 4.857151 4.921377	61232 71970 83440	11.597 13.631 15.803	" " "
713	Chintalapád, LXXII Rághavapuram Pendiyáa House	31 40 36 31 27 35	4.424033 4.421356 4.654176	26548 26385 45100	5.028 4.997 8.542	24 14	725	Jujúrdurgam, LXVIII Anantavaram, LXXI Anantavaram Temple	2 45 2 104 7 9	3.551604 4.857151 4.851370	3561 71970 71018	0.674 13.631 13.450	" " "
714	Jujúrdurgam, LXVIII Rághavapuram Chintalapád Temple	38 10 56 83 27 44	4.628707 4.834770 4.767696	43531 68355 58573	8.055 12.946 11.093	24 14	726	Yérragattu, LXXVI Jujúrdurgam, LXVIII Tadikónda Hill Pagoda	60 42 50 83 48 16	5.018799 5.075645 4.841948	104424 119027 69494	19.777 22.543 13.102	" " "
715	Dhúlipalla, VII Lagadapád, LXXIII Krosúr Hill Pole	46 35 42 47 49 2	4.609398 4.617976 4.746865	40682 41493 55830	7.705 7.859 10.574	24 "	727	Yérragattu, LXXVI Anantavaram, LXXI Tadikónda Hill Pagoda	16 32 34 109 57 17	4.556969 5.075645 5.007727	36055 119027 101795	6.829 22.543 19.279	" " "
716	Dhúlipalla, VII Chikri, LXXV Krosúr Hill Pole	27 28 20 40 59 32	4.465101 4.617976 4.769072	29181 41493 58840	5.527 7.859 11.144	" "	728	Anantavaram, LXXI Gorantla, LXXIV Mangalagiri Temple	53 44 2 59 57 9	4.740627 4.771465 4.795923	55033 59083 62506	10.423 11.190 11.838	" " "
717	Chintalapád, LXXII Lagadapád, LXXIII Béllamkónda Hill Mark (helio.)	51 38 32 88 24 6	4.892426 4.997857 4.805697	78060 99508 63929	14.784 18.846 12.108	" "	729	Ádamsáb, X Anantavaram, LXXI Mangalagiri Temple	29 57 39 86 5 59	4.771465 5.072002 5.026445	59083 118033 106278	11.190 22.355 20.128	" " "
718	Lagadapád, LXXIII Chikri, LXXV Birugubanda Hill Temple	47 15 45 48 28 31	4.707667 4.715983 4.839511	51011 51998 69105	9.661 9.848 13.088	" "	730	Anantavaram, LXXI Gorantla, LXXIV Mangalagiri Hill Temple	55 1 46 59 12 26	4.749516 4.770001 4.795923	56172 58885 62506	10.639 11.152 11.838	" " "
719	Dhúlipalla, VII Lagadapád, LXXIII Birugubanda Hill Temple	58 18 12 7 41 49	4.715983 3.913022 4.746865	51998 8185 55830	9.848 1.550 10.574	" "	731	Yérragattu, LXXVI Anantavaram, LXXI Vallúr Temple	74 44 33 60 29 53	5.144489 5.099762 5.007727	139473 125823 101795	26.415 23.830 19.279	" " "
720	Jujúrdurgam, LXVIII Chintalapád, LXXII Amarávati Temple No. 1	39 6 35 49 20 33	4.694140 4.774266 4.894085	49447 59466 78358	9.365 11.262 14.841	" "	732	Ádamsáb, X Anantavaram, LXXI Vallúr Temple	52 16 33 90 39 34	5.144489 5.246303 5.026445	139473 176321 106278	26.415 33.394 20.128	" " "

* Deduced base.

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles	
VATTURPALLEPÄLEM BEACON AND RÄMAPATNAM						
SECONDARY SERIES.						
733	Narasimhakönda Sangamkönda Somavarapäd	37 7 1 108 54 58 33 58 1	4.880951 5.076202 4.847504	76024 119180 70389	14.398 22.572 13.331	Inch 12 12 "
734	Kistama, XXXI Narasimhakönda Somavarapäd	71 14 18 88 20 10 20 25 32	5.076202 5.099731 4.642728	119180 125815 43927	22.572 23.829 8.319	" " "
735	Narasimhakönda Somavarapäd Bitragunta	19 22 1 92 53 10 67 44 49	4.630453 5.109205 5.076202	42702 128607 119180	8.088 24.357 22.572	" " "
736	Narasimhakönda Sangamkönda Bitragunta	56 29 2 90 20 1 33 10 57	5.030208 5.109205 4.847504	107225 128607 70389	20.308 24.357 13.331	" " "
737	Somavarapäd Bitragunta Brahmankäkra	19 21 27 47 18 15 113 20 18	4.187957 4.533790 4.630453	15415 34181 42702	2.920 6.474 8.088	" " "
738	Somavarapäd Bitragunta Gavüravaram	13 54 55 98 57 53 67 7 12	4.047133 4.660704 4.630453	11146 45783 42702	2.111 8.671 8.088	" " "
739	Bitragunta Brahmankäkra Gavüravaram	51 39 38 45 48 8 82 32 14	4.086161 4.047133 4.187957	12194 11146 15415	2.310 2.111 2.920	" " "
740	Bitragunta Gavüravaram Mungamuru	69 13 48 69 13 49 41 32 23	4.196345 4.196346 4.047133	15716 15716 11146	2.977 2.977 2.111	" " "
741	Bitragunta Mungamuru Alimadugu	32 56 51 92 28 47 54 34 22	4.020763 4.284860 4.196346	10490 19269 15716	1.987 3.649 2.977	" " "
742	Mungamuru Alimadugu Jaggagögula	43 40 26 67 28 53 68 50 41	3.890261 4.016621 4.020763	7767 10390 10490	1.471 1.968 1.987	" " "
	Mungamuru Jaggagögula Koladinne	32 33 16 66 52 12 80.34 32	3.753387 3.986130 4.016621	5667 9686 10390	1.073 1.834 1.968	Inch 12 "
	Jaggagögula Koladinne Juvaldinne	61 0 23 65 3 13 53 56 24	3.787606 3.803225 3.753387	6132 6357 5667	1.161 1.204 1.073	" " "
	Koladinne Juvaldinne Anagaripäläm	41 48 36 77 32 29 60 38 55	3.671180 3.836925 3.787606	4690 6869 6132	0.888 1.301 1.161	" " "
	Juvaldinne Anagaripäläm Vadapäläm	58 0 57 85 30 3 30 29 0	3.825459 3.895623 3.671180	6691 7864 4690	1.267 1.489 0.888	" " "
	Anagaripäläm Vadapäläm Pallepäläm	25 2 41 107 38 29 47 18 50	3.585799 3.938205 3.825459	3853 8674 6691	0.730 1.643 1.267	" " "
	Anagaripäläm Vadapäläm Vatturpallepäläm Beacon	65 23 43 78 37 20 40 21 2	4.015083 4.047803 3.825459	10353 11164 6691	1.961 2.114 1.267	" " "
	Anagaripäläm Pallepäläm Vatturpallepäläm Beacon	88 41 4 51 46 38 92 26 43	4.047803 4.214481 4.318878	11164 16386 20839	2.114 3.103 3.947	" " "
	Brahmankäkra Gavüravaram Akkapäläm	35 46 39 49 23 30 53 57 42	4.086161 4.211124 4.238527	12194 16260 17319	2.310 3.080 3.280	" " "
	Brahmankäkra Akkapäläm Zaladanki	76 38 48 92 7 13 37 45 52	4.318878 4.423779 4.211124	20839 26533 16260	3.947 5.025 3.080	" " "
	Akkapäläm Zaladanki Köttapalli No. 1	42 12 14 73 21 32 64 26 14	4.181023 4.335220 4.309062	15171 21638 20373	2.873 4.098 3.859	" " "
	Zaladanki Köttapalli No. 1 Käváli	81 59 54 49 54 59 48 5 7	4.335220 4.223191 4.211124	21638 16718 16260	4.098 3.166 3.080	" " "
	Akkapäläm Zaladanki Käváli					

No. of Triangle	Station	Corrected Plane Angle	Distance			Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	
			Log. feet	Feet	Miles				Log. feet	Feet	Miles		
755	Kóttapalli No. 1 Kávali Sripuram	s. h.s. s.	47 39 6 45 44 22 86 36 32	11232 10884 15171	2.127 2.061 2.873	767	Guraigunta Téttu Rámapatnam Church	14 34 36 147 32 32	4.044918 4.373791 4.131276	11090 23648 13529	2.100 4.479 2.562	Inch 12 "	
756	Kávali Sripuram Madurupád	h.s. s. h.s.	57 30 29 79 15 32 43 13 59	13831 16111 11232	2.620 3.051 2.127	768	Téttu Jéndaltéppa Kámapatnam Church	109 4 54 29 23 11 4.175643	4.329561 4.044918 4.175643	21358 11090 14985	4.045 2.100 2.838	"	
757	Sripuram Madurupád Lachmipuram	s. h.s. s.	47 43 21 91 35 37 40 41 2	15699 21209 13831	2.973 4.017 2.620	769	Guraigunta Pájarla-péddatéppa Téttu Hill Temple	79 34 56 55 56 55 4.058841	4.206198 4.131728 4.058841	16077 13543 11451	3.045 2.565 2.169	"	
758	Madurupád Lachmipuram Yéiurpád	h.s. s. "	32 10 29 97 48 11 50 1 20	10909 20297 15699	2.066 3.844 2.973	770	Pájarla-péddatéppa Jéndaltéppa Téttu Hill Temple	57 7 45 64 8 30 4.183841	4.176241 4.206198 4.183841	15005 16077 15270	2.842 3.045 2.892	"	
759	Lachmipuram Yéiurpád Guraigunta	s. "	59 13 50 65 45 45 55 0 25	11442 12143 10909	2.167 2.300 2.066	771	Somavarapád Brahmanakakra Bitragunta Hill Temple	19 28 55 113 2 17	4.189407 4.630202 4.533790	15467 42678 34181	2.929 8.083 6.474	"	
760	Yéiurpád Guraigunta Téttu	s. h.s. "	71 56 0 54 33 5 53 30 55	13529 11593 11442	2.562 2.196 2.167	772	Somavarapád Brahmanakakra Bitragunta Hill Pillar	19 27 8 113 17 59	4.190388 4.630972 4.533790	15502 42754 34181	2.936 8.097 6.474	"	
761	Guraigunta Téttu Pájarla-péddatéppa	h.s. "	79 28 42 44 32 45 55 58 33	16049 11451 13529	3.040 2.169 2.562	CUDDAPAH SECONDARY SERIES.							"
762	Téttu Pájarla-péddatéppa Jéndaltéppa	h.s. "	58 49 49 57 6 7 64 4 4	15270 14985 16049	2.892 2.838 3.040	773	Pesiduvuripalli Pushpagiri Bagarapet	64 27 20 67 2 49 48 29 51	4.912559 4.921409 4.831671	81763 83447 67869	15.485 15.804 12.854	10	
763	Téttu Jéndaltéppa Pátapálem	h.s. "	53 15 11 71 6 20 55 38 29	14545 17174 14985	2.755 3.253 2.838	774	Pesiduvuripalli Bagarapet Ukkayapalli	21 21 9 43 26 55 115 11 56	4.526005 4.802241 4.921409	33579 63422 83447	6.360 12.012 15.804	"	
764	Téttu Pájarla-péddatéppa Pátapálem	h.s. "	112 5 0 35 15 49 32 39 11	27564 17174 16049	5.220 3.253 3.040	775	Pesiduvuripalli Pushpagiri Ukkayapalli	43 6 11 63 32 49 73 21 0	4.684892 4.802241 4.831671	48405 63422 67869	9.168 12.012 12.854	"	
765	Jéndaltéppa Pátapálem Rámapatnam Beacon	h.s. s. "	13 27 16 114 17 14 52 15 30	4279 16765 14545	0.810 3.175 2.755	776	Pesiduvuripalli Pushpagiri Bagarapet Uppaláipalli Temple	23 13 16 0 55 54	4.807395 4.293244 4.912559	64179 19645 81763	12.155 3.721 15.485	"	
766	Pátapálem Kámapatnam Beacon Kámapatnam Bungalow	s. "	16 20 33 29 29 38 3.631392	1679 2937 4279	0.318 0.556 0.810								

* This base is taken from the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°, in which the continuation of the triangulation will be found.

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles	
777	Pushpagiri Ukkayapalli Uppalapalli Temple	19 43 16 12 29 43	4.486268 4.293244 4.684892	30639 19645 48405	5.803 3.721 9.168	Inch 10 "
778	Bagarapet Ukkayapalli Cuddapah Masjid	13 58 40 146 29 36	4.384951 4.743918 4.526065	24263 55452 33579	4.595 10.502 6.360	" " "
779	Pushpagiri Ukkayapalli Cuddapah House No. 1 (helio.)	29 0 46 46 29 25	4.384690 4.559436 4.684892	24249 36261 48405	4.593 6.868 9.168	" " "
780	Pushpagiri Bagarapet Cuddapah House No. 1 (helio.)	32 30 46 20 50 42	4.738548 4.559436 4.912559	54771 36261 81763	10.373 6.868 15.485	" " "
781	Pesiduvripalli Bagarapet Cuddapah Idgah Point No. 1	34 50 18 28 8 15	4.728457 4.645185 4.921409	53513 44176 83447	10.135 8.367 15.804	" " "
782	Bagarapet Ukkayapalli Cuddapah Idgah Point No. 1	15 18 40 141 55 13	4.360046 4.728457 4.526065	22911 53513 33579	4.339 10.135 6.360	" " "
783	Pushpagiri Bagarapet Cuddapah Idgah Point No. 2 (helio.)	30 27 53 20 25 20	4.727766 4.565497 4.912559	53428 36770 81763	10.119 6.964 15.485	" " "
784	Pushpagiri Ukkayapalli Cuddapah Idgah Point No. 2 (helio.)	26 57 53 46 50 43	4.358987 4.565497 4.684892	22855 36770 48405	4.329 6.964 9.168	" " "
785	Pushpagiri Ukkayapalli Cuddapah House No. 2 (helio.)	11 15 38 46 42 54	4.047225 4.618690 4.684892	11149 41561 48405	2.112 7.871 9.168	" " "
786	Pesiduvripalli Pushpagiri Cuddapah Chattram	36 57 41 40 4 11	4.621967 4.651589 4.831671	41876 44832 67869	7.931 8.491 12.854	" " "
787	Bagarapet Ukkayapalli Cuddapah Temple	12 4 5 127 31 24	4.034632 4.613664 4.526065	10830 41083 33579	2.051 7.781 6.360	" " "
788	Pesiduvripalli Pushpagiri Cuddapah Racket Court	38 37 52 37 5 18	4.640699 4.625653 4.831671	43722 42233 67869	8.281 7.999 12.854	" " "
789	Pushpagiri Ukkayapalli Cuddapah Racket Court	26 27 31 64 34 8	4.333859 4.640699 4.684892	21570 43722 48405	4.085 8.281 9.168	" " "
790	Pushpagiri Ukkayapalli Cuddapah Dargah	21 9 19 68 47 59	4.242275 4.654458 4.684892	17469 45129 48405	3.309 8.547 9.168	" " "
791	Pushpagiri Bagarapet Cuddapah Dargah	24 39 19 24 47 50	4.652122 4.654458 4.912559	44887 45129 81763	8.501 8.547 15.485	" " "
792	Pushpagiri Bagarapet Cuddapah Mark No. 1 (helio.)	19 56 39 23 13 1	4.610357 4.673201 4.912559	40772 47120 81763	7.722 8.924 15.485	" " "
793	Pushpagiri Bagarapet Cuddapah Tomb (heliotrope)	21 17 11 25 22 49	4.610744 4.682878 4.912559	40808 48181 81763	7.729 9.125 15.485	" " "
794	Bagarapet Ukkayapalli Cuddapah School (heliotrope)	19 32 49 112 10 5	4.177555 4.619706 4.526065	15051 41659 33579	2.851 7.890 6.360	" " "
795	Pushpagiri Bagarapet Cuddapah Mark No. 2 (helio.)	30 15 15 30 13 9	4.675266 4.674811 4.912559	47344 47295 81763	8.967 8.957 15.485	" " "
796	Pushpagiri Ukkayapalli Cuddapah Mark No. 2 (helio.)	26 45 15 73 49 45	4.345713 4.674811 4.684892	22167 47295 48405	4.198 8.957 9.168	" " "
797	Bagarapet Ukkayapalli Cuddapah House No. 3 (helio.)	25 21 2 104 48 59	4.274478 4.628191 4.526065	18814 42481 33579	3.563 8.046 6.360	" " "
798	Pushpagiri Bagarapet Cuddapah House No. 4 (helio.)	26 34 56 30 58 50	4.637002 4.697821 4.912559	43351 49868 81763	8.210 9.445 15.485	" " "
799	Pushpagiri Bagarapet Cuddapah Judge's Court (helio.)	25 41 37 28 57 49	4.638073 4.686099 4.912559	43458 48540 81763	8.231 9.193 15.485	" " "
800	Bagarapet Ukkayapalli Cuddapah House No. 5 (helio.)	32 7 45 92 3 38	4.334237 4.608184 4.526065	21589 40568 33579	4.089 7.683 6.360	" " "

* This base is taken from the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
801	Pushpagiri Ukkayapalli Cuddapah House No. 5 (helio.)	22 52 28 96 29 18	4.334237 4.741818 4.684892	21589 55185 48405	4.089 10.452 9.168	811	Urakōnda Krishnapuram Enilraidu	58 25 41 60 52 26 60 41 53	4.456167 4.467024 4.466278	28587 29311 29260	5.414 5.551 5.542	Inch 8 "
802	Bagarapet Ukkayapalli Cuddapah Railway Station (helio.)	33 38 38 89 2 10	4.344441 4.600847 4.526065	22103 39888 33579	4.186 7.555 6.360	812	Krishnapuram Enilraidu Pērumālapuram	68 45 11 54 30 32 56 44 17	4.503300 4.444605 4.450167	31864 27836 28587	6.035 5.272 5.414	" " "
803	Pushpagiri Ukkayapalli Cuddapah Railway Station (helio.)	22 43 15 99 30 46	4.344441 4.751599 4.684892	22103 56438 48405	4.186 10.689 9.168	813	Enilraidu Pērumālapuram Vijayanagarum	54 21 11 65 16 1 60 22 48	4.474008 4.522332 4.503300	29786 33291 31864	5.641 6.305 6.035	7 " "
804	Bagarapet Ukkayapalli Siddhavattam Temple	98 15 57 15 3 8	4.558535 3.977541 4.526065	36186 9496 33579	6.853 1.798 6.360	814	Pērumālapuram Vijayanagarum Mulapet	63 38 38 54 59 57 61 21 25	4.483034 4.444060 4.474008	30411 27801 29786	5.760 5.265 5.641	" " "
COAST LINE SECONDARY SERIES.												
805	Gunlūr Rājipet Mairāj	62 18 36 54 1 17 63 40 7	4.444638 4.405537 4.449888	27838 25441 28177	5.272 4.818 5.336	815	Vijayanagarum Mulapet Iskapalli	49 52 52 65 50 8 64 17 0	4.411829 4.48506 4.483034	25812 30797 30411	4.889 5.833 5.760	" " "
806	Rājipet Mairāj Gumpūdi	66 19 24 59 58 53 53 41 43	4.500181 4.475817 4.444638	31636 29910 27838	5.992 5.665 5.272	816	Mulapet Iskapalli Vuppada	51 26 47 58 8 39 70 24 34	4.330947 4.366827 4.411829	21426 23272 25812	4.058 4.408 4.889	" " "
807	Mairāj Gumpūdi Lokarup	47 50 50 81 39 5 50 30 5	4.482794 4.608140 4.500181	30394 40564 31036	5.757 7.683 5.992	817	Iskapalli Vuppada Gorasa	59 31 11 56 4 1 64 24 48	4.311181 4.294088 4.330947	20473 19710 21426	3.877 3.733 4.058	" " "
808	Gumpūdi Lokarup Kumārapur	47 6 4 68 48 49 64 5 7	4.393660 4.498426 4.482794	24755 31508 30394	4.688 5.967 5.757	818	Vuppada Gorasa Nēman	57 27 20 63 1 3 59 31 37	4.301555 4.325689 4.311181	20024 21168 20473	3.792 4.009 3.877	" " "
809	Lokarup Kumārapur Urakōnda	66 20 4 56 33 13 57 6 43	4.431369 4.390894 4.393660	27000 24598 24755	5.114 4.659 4.688	819	Gorasa Nēman Timmapuram	56 55 53 66 1 51 57 2 16	4.301031 4.33611 4.301555	20000 21808 20024	3.788 4.130 3.792	" " "
810	Lokarup Ukkayapalli Urakōnda Krishnapuram	63 11 35 61 21 38 55 26 47	4.466278 4.458978 4.431369	29260 28773 27000	5.542 5.449 5.114	820	Nēman Timmapuram Vākalapūdi	61 27 21 63 7 3 55 25 36	4.329136 4.335753 4.301031	21337 21605 20000	4.041 4.103 3.788	" " "
						821	Timmapuram Vākalapūdi Rāmesvaram No. 1	58 53 54 68 58 28 52 7 38	4.364454 4.401929 4.329136	23145 25231 21337	4.383 4.779 4.041	" " "
						822	Timmapuram Rāmesvaram No. 1 Sāmalkot	71 7 51 59 55 17 48 50 52	4.500504 4.461680 4.401929	31660 28952 25231	5.996 5.483 4.779	8 " "

* This base is taken from the Synoptical Volume of the Bider Longitudinal Series, in which the continuation of the triangulation will be found.

No. of Triangle	Station	Distance			Corrected Plane Angle	No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Theodolite used		
		Log. feet	Feet	Miles					Log. feet	Feet	Miles				
823	Ramesvaram No. 1 Sámalkot Tamarachéru	s.	49 1 46 59 12 57 71 45 17	4 400880 4 456951 4 500504	25170 28639 31660	4 767 5 424 5 996	14 8 14	835	Lokarup Kumárapur Sudikónda No. 8	h.s. s. h.s.	94 16 34 30 48 38 54 54 48	4 471489 4 182140 4 385604	29613 15210 24300	5 609 2 881 4 602	12 " " " "
824	Ramesvaram No. 1 Tamarachéru Kaikavol	s.	51 12 21 60 58 35 67 49 4	4 382107 4 432066 4 456951	24105 27044 28639	4 565 5 122 5 424	" "	836	Malraj Péntakota Döngalkónda Beacon	h.s. s. "	14 32 37 35 4 47 130 22 36	4 005029 4 364606 4 486995	10116 23153 30690	1 916 4 385 5 813	" " " " " "
825	Tamarachéru Kaikavol Bikkavol	s.	66 59 28 64 49 20 48 11 12	4 473761 4 406409 4 382107	29769 29269 24105	5 638 5 543 4 565	8	837	Péntakota Sudikónda No. 8 Döngalkónda Beacon	s. h.s. s.	100 3 43 27 3 54 52 52 23	4 340285 4 005029 4 248638	21892 10116 17727	4 146 1 916 3 357	" " " " " "
826	Tamarachéru Bikkavol Elangoi, LI	s.	75 15 30 49 59 5 54 45 25	4 539804 4 438497 4 466409	34658 27447 29269	6 564 5 198 5 543	" "	838	Péntakota Döngalkónda Beacon Gunpúdi Hill Tree No. 1	s. "	51 45 50 78 11 46	4 015648 4 111238 4 005029	10367 12919 10116	1 963 2 447 1 916	" " " " " "
827	Bikkavol Elangoi, LI Sudighatu	s. h.s.	72 51 30 57 5 19 50 3 11	4 635479 4 579239 4 539804	43200 37952 34658	8 182 7 188 6 564	" "	839	Péntakota Sudikónda No. 8 Gunpúdi Hill Tree No. 1	s. h.s.	48 17 53 46 33 56	4 123302 4 111238 4 248638	13283 12919 17727	2 516 2 447 3 357	" " " " " "
828	Elangoi, LI Sudighatu Parlakurru	h.s.	75 16 15 65 19 2 39 24 43	4 818268 4 791168 4 635479	65806 61826 43200	12 463 11 709 8 182	" "	840	Péntakota Sudikónda No. 8 Gunpúdi Hill Tree No. 2	s. h.s.	29 9 41 32 14 38	3 992901 4 032285 4 248638	9838 10772 17727	1 863 2 040 3 357	" " " " " "
829	Elangoi, LI Parlakurru Náwilinetta, LIII	h.s.	49 52 37 71 30 55 58 36 28	4 743373 4 836898 4 791168	55382 68691 61826	10 489 13 010 11 709	" "	841	Péntakota Döngalkónda Beacon Gunpúdi Hill Tree No. 2	s. "	70 54 2 57 4 21	4 083747 4 032285 4 005029	12127 10772 10116	2 297 2 040 1 916	" " " " " "
830	Gunlúr Malraj Nakkapilli Temple	h.s. "	45 35 16 26 50 22	4 280187 4 080942	19063 12049	3 610 2 282	7	842	Lokarup Sudikónda No. 8 Gunpúdi Hill Tree No. 8	h.s. "	16 42 4 133 14 33	3 940886 4 344837 4 182140	8727 22123 15210	1 653 4 100 2 881	" " " " " "
831	Lokarup Urakónda Kumárapur	h.s. " No. 2	62 31 19 58 9 51 59 18 50	4 494424 4 395604 4 390894	25376 24300 24598	4 806 4 602 4 659	12	843	Péntakota Sudikónda No. 8 Gunpúdi Hill Tree No. 8	s. h.s.	9 45 24 10 22 38	3 940886 3 967390 4 248638	8727 9277 17727	1 653 1 757 3 357	" " " " " "
832	Malraj Lokarup Péntakota	h.s. " " s.	49 47 10 48 28 47 81 44 3	4 495563 4 486995 4 608140	31301 30690 40564	5 928 5 813 7 683	" "	844	Péntakota Döngalkónda Beacon Sitáram Temple	s. "	93 44 55 49 9 30	4 223701 4 103451 4 005029	16738 12690 10116	3 170 2 403 1 916	" " " " " "
833	Lokarup Kumárapur Péntakota	h.s. No. 2 "	74 38 52 62 3 15 43 17 53	4 533630 4 495563 4 395604	34169 31301 24300	6 471 5 928 4 602	" "	845	Lokarup Urakónda Péntakota Temple No. 1	h.s. "	111 11 8 30 31 33	4 568376 4 304568 4 390894	37015 20164 24598	7 010 3 819 4 659	8 " " " "
834	Kumárapur Péntakota Sudikónda No. 8	No. 2 s. h.s.	31 14 37 60 3 0 88 42 23	4 248638 4 471489 4 533630	17727 29613 34169	3 357 5 609 6 471	" "	846	Péntakota Döngalkónda Beacon Péntakota Temple No. 2	s. "	155 21 58 15 0 28	4 401693 4 194982 4 005029	25217 15666 10116	4 776 2 967 1 916	12 " " " "

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
847	Sudikönda No. 3 Döngalkönda Beacon Pöntaköta Temple No. 2	82 41 41 37 51 55	4.401693 4.193264 4.340285	25217 15605 21892	4.776 2.955 4.146	859	Urakönda Enilraidu Pámparám Temple	61 49 27 41 37 43	4.424330 4.301470 4.467024	26566 20020 29311	5.031 3.792 5.551	Inch 12 "
848	Lokarup Sudikönda No. 3 Pöntaköta Custom House	48 0 19 88 11 19	4.213006 4.341679 4.182140	16331 21962 15210	3.003 4.100 2.881	860	Urakönda Enilraidu Vöntimamudi Temple No. 1	38 39 56 67 24 47	4.280076 4.449695 4.467024	19058 28164 29311	3.609 5.334 5.551	8 "
849	Pöntaköta Sudikönda No. 3 Pöntaköta Custom House	57 49 19 55 25 52	4.213006 4.201066 4.248638	16331 15888 17727	3.003 3.009 3.357	861	Urakönda Enilraidu Vöntimamudi Temple No. 2	42 47 15 67 24 45	4.326642 4.459933 4.467024	21215 28336 29311	4.018 5.461 5.551	7 "
850	Lokarup Sudikönda No. 3 Pöntaköta Flag-staff	48 0 12 88 55 37	4.218887 4.347715 4.182140	16553 22270 15210	3.135 4.218 2.881	862	Iskapalli Gorasa Vuppada Beacon	59 34 33 64 23 5 56 2 22	4.311571 4.330983 4.294688	20491 21428 19710	3.881 4.058 3.733	12 "
851	Pöntaköta Sudikönda No. 3 Pöntaköta Flag-staff	58 51 57 54 41 34	4.218887 4.198159 4.248638	16553 15782 17727	3.135 2.989 3.357	863	Gorasa Timmapuram Vákalapúdi Light-house	38 28 42 80 0 4 61 31 14	4.188571 4.387981 4.338611	15437 24433 21808	2.924 4.628 4.130	" "
852	Pöntaköta Sudikönda No. 3 Rájina Tree	45 15 10 77 47 48	4.176683 4.315364 4.248638	15020 20671 17727	2.845 3.915 3.357	864	Gorasa Vuppada Beacon Vákalapúdi Light-house	81 29 57 55 3 54 43 26 9	4.469474 4.387981 4.311571	29476 24433 20491	5.583 4.628 3.881	" "
853	Lokarup Sudikönda No. 3 Rájina Tree	56 31 56 65 49 23	4.176683 4.215545 4.182140	15020 16426 15210	2.845 3.111 2.881	865	Timmapuram Vákalapúdi Light-house Sarpávaram Temple	96 55 24 41 14 4	4.361214 4.183371 4.188571	22973 15254 15437	4.351 2.889 2.924	" "
854	Urakönda Enilraidu Urakönda Hill	139 1 39 8 44 18	4.556689 3.921607 4.467024	36032 8348 29311	6.824 1.581 5.551	866	Elangoi, LI Sudaghatu Bikkavol Temple	55 20 56 52 3 38	4.571048 4.552734 4.635479	37243 35705 43200	7.054 6.762 8.182	8 "
855	Urakönda Kumarapur Vöntimamudi Beacon	71 56 26 66 23 12 41 40 22	4.559743 4.543706 4.404424	36286 34971 25376	6.872 6.623 4.806	867	Tamarehuru Elangoi, LI Bikkavol Temple	75 25 51 56 29 48	4.552734 4.488019 4.438497	35705 30762 27447	6.762 5.826 5.198	" "
856	Urakönda Enilraidu Vöntimamudi Beacon	46 47 45 78 6 18 55 5 57	4.415813 4.543706 4.467024	26050 34971 29311	4.934 6.623 5.551	COCANADA, CORINGA AND MASULIPATAM						
857	Urakönda Vöntimamudi Beacon Urakönda Tree Flag	82 46 14 8 34 42	4.540360 3.717483 4.543706	34702 5218 34971	6.572 0.988 6.623	SECONDARY SERIES.						
858	Lokarup Urakönda Urakönda Tree Flag	10 19 27 47 20 3	3.717483 4.330579 4.390894	5218 21408 24598	0.988 4.055 4.659	868	Vákalapúdi Ramesvaram No. 1 Cocanada	56 17 30 45 20 14 78 22 16	4.293518 4.225487 4.364454	19657 16807 23145	3.723 3.183 4.383	7 "

No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles					Log. feet	Feet	Miles	
869	Rámesvaram No. 1 Cocanada Revúr	60 26 11 37 14 30 82 19 19	4.236853 4.079313 4.293518	17253 12004 19657	3.268 2.273 3.723	Inch 7 "	Mallávaram Mol Thirthalmundi Beacon Chirku Lanka No. 1	55 10 24 38 48 47 86 0 49	4.393442 4.276277 4.478109	24742 18892 30068	4.686 3.578 5.695	Inch 12 "	
870	Vákalapúdi Cocanada Revúr	32 39 56 115 36 46 31 43 18	4.236853 4.459752 4.225487	17253 28824 16807	3.268 5.459 3.183	"	Thirthalmundi Beacon Chirku Lanka No. 1 Másanatépá	46 49 35 43 36 54 89 33 31	4.250352 4.232184 4.393442	18045 17068 24742	3.418 3.233 4.686	"	
871	Cocanada Revúr Pénugudúr	49 24 1 73 24 45 57 11 14	4.192742 4.293883 4.236853	15586 19674 17253	2.952 3.726 3.268	"	Chirku Lanka Másanatépá Balusutépá No. 1	56 14 55 48 13 37 75 31 28	4.190202 4.142979 4.250352	15495 13899 18045	2.935 2.632 3.418	"	
872	Cocanada Pénugudúr Chóllangipet	44 13 39 79 0 48 56 45 33	4.215033 4.363449 4.293883	16407 23091 19674	3.107 4.373 3.726	"	Chirku Lanka Balusutépá Depu Lanka No. 1	62 49 31 71 35 55 45 34 34	4.238374 4.266376 4.142979	17313 18466 13899	3.279 3.497 2.632	"	
873	Pénugudúr Chóllangipet Górrípúdi	51 42 21 62 6 16 66 11 23	4.148446 4.200020 4.215033	14075 15850 16407	2.666 3.002 3.107	"	Balusutépá Depu Lanka Kandikuppam	52 13 29 80 54 3 46 52 28	4.272994 4.366636 4.238374	18750 23423 17313	3.551 4.436 3.279	"	
874	Chóllangipet Górrípúdi Pattávás	75 29 36 46 10 27 58 19 57	4.204389 4.076666 4.148446	16010 11931 14075	3.032 2.260 2.666	"	Depu Lanka Kandikuppam Pédda Lanka	40 21 29 71 30 5 68 8 26	4.116680 4.282359 4.272994	13082 19158 18750	2.478 3.628 3.551	"	
875	Górrípúdi Pattávás Manjer	67 49 3 51 39 38 60 31 19	4.231203 4.159108 4.204389	17030 14425 16010	3.225 2.732 3.032	"	Kandikuppam Pédda Lanka Dántakurru	51 13 4 45 25 40 83 21 16	4.011442 3.972311 4.116680	10267 9382 13082	1.945 1.777 2.478	"	
876	Pattávás Manjer Vénkatapálém	71 52 44 53 19 1 54 48 15	4.296788 4.223030 4.231203	19806 16712 17030	3.751 3.165 3.225	12	Kandikuppam Dántakurru Masálkor Kalwa	52 45 57 62 51 30 64 22 33	3.918279 3.966605 3.972311	8285 9260 9382	1.569 1.754 1.777	"	
877	Manjer Vénkatapálém Poilekurru	38 29 27 87 40 17 53 50 16	4.183789 4.389368 4.296788	15268 24511 19806	2.892 4.642 3.751	"	Dántakurru Masálkor Kalwa Noth Kalwa	47 46 45 83 15 36 48 57 39	3.910318 4.037745 3.918279	8134 10908 8285	1.541 2.066 1.569	"	
878	Vénkatapálém Poilekurru Gadimoge	61 15 28 77 16 38 41 27 54	4.305721 4.35028 4.183789	20217 22492 15268	3.829 4.260 2.892	"	Dántakurru Noth Kalwa Kátarkurru	48 18 43 71 4 24 60 36 53	3.970749 4.073419 4.037745	9349 11842 10908	1.771 2.243 2.066	"	
879	Poilekurru Gadimoge Mallávaram Mol	48 15 41 56 48 27 74 55 52	4.193767 4.243558 4.305721	15623 17521 20217	2.959 3.318 3.829	"	Noth Kalwa Kátarkurru Chirayánam	68 35 41 61 57 22 49 26 57	4.058992 4.035790 3.970749	11455 10859 9349	2.169 2.057 1.771	"	
880	Gadimoge Mallávaram Mol Thirthalmundi Beacon	79 6 37 70 12 38 30 40 45	4.478109 4.459564 4.193767	30068 28811 15623	5.695 5.457 2.959	"	Kátarkurru Chirayánam Kóttapali No. 2	81 14 3 51 5 9 47 40 48	4.185013 4.081144 4.058992	15311 12054 11455	2.900 2.283 2.169	"	

SECONDARY TRIANGULATION. TRIANGLES.

No. of Triangle	Station	Corrected Plane Angle			Distance			No. of Triangle	Station	Corrected Plane Angle			Distance			Theodolite used					
		°	'	"	Log. feet	Feet	Miles			Log. feet	Feet	Miles	Log. feet	Feet	Miles						
898	Chirayánam	60	23	34	4'18	4278	15285	2'895	905	Goganamátham	No. 2	s.	63	5	49	3'92	8443	8481	1'606	Inch 12	
	Kóttapalli No. 2	59	2	36	4'17	305	15077	2'855		Késanapalli	No. 1	"	"	70	29	3	3'96	591	9247		1'751
	Kotapatnam	60	33	50	4'18	5013	15311	2'900		Késanapalli	No. 2	"	"	40	25	8	3'79	0012	6166		1'168
894	Kóttapalli No. 2	42	1	10	4'01	5476	10363	1'963	906	Késanapalli	No. 1	s.	33	58	45	3'71	6249	5203	0'985	"	
	Kotapatnam	57	5	57	4'11	380	12998	2'462		Késanapalli	No. 2	"	"	80	22	34	3'96	2766	9178		1'738
	Gátomalai	80	52	53	4'18	4278	15285	2'895		Késanapalli	No. 3	"	"	65	38	41	3'92	8443	8481		1'006
895	Kotapatnam	57	9	0	4'14	6097	13999	2'651	907	Késanapalli	No. 2	s.	66	31	12	3'80	5147	6385	1'209	"	
	Gátomalai	84	23	47	4'21	9088	16584	3'141		Késanapalli	No. 3	"	"	65	6	45	3'80	356	6315		1'196
	Surasaniyánam Beacon	38	27	13	4'01	5476	10363	1'963		Késanapalli	No. 4	"	"	48	22	3	3'71	6249	5203		0'985
896	Gátomalai	45	23	16	4'02	7947	10665	2'020	908	Késanapalli	No. 3	s.	52	25	19	3'80	1231	6327	1'198	"	
	Surasaniyánam Beacon	65	28	25	4'13	4475	13629	2'581		Késanapalli	No. 4	"	"	74	28	35	3'88	6080	7693		1'457
	Chalapalli	69	8	19	4'14	6097	13999	2'651		Késanapalli	No. 5	"	"	53	6	6	3'80	5147	6385		1'209
897	Surasaniyánam Beacon	76	46	24	4'30	6210	20240	3'833	909	Késanapalli	No. 4	s.	54	29	34	3'77	821	5995	1'136	"	
	Chalapalli	72	22	2	4'29	987	19815	3'753		Késanapalli	No. 5	"	"	66	17	19	3'82	872	6743		1'277
	Rámesvaram No. 2	30	51	34	4'02	7947	10665	2'020		Késanapalli	No. 6	"	"	59	13	7	3'80	1231	6327		1'198
898	Chalapalli	38	33	49	4'13	755	13575	2'571	910	Késanapalli	No. 5	s.	54	23	15	3'70	1346	6185	1'171	"	
	Rámesvaram No. 2	73	5	33	4'31	8810	20836	3'946		Késanapalli	No. 6	"	"	73	36	33	3'80	3251	7299		1'382
	Devaguptam	68	20	38	4'30	6210	20240	3'833		Sankaraguptam	No. 1	"	"	52	0	12	3'77	821	5995		1'136
899	Rámesvaram No. 2	68	0	35	4'20	3190	15966	3'024	911	Késanapalli	No. 6	s.	44	26	31	3'73	8875	5481	1'038	"	
	Devaguptam	59	57	0	4'17	3313	14904	2'823		Sankaraguptam	No. 1	"	"	83	21	46	3'89	0741	7776		1'473
	Kumáragiripatnam	52	2	19	4'13	755	13575	2'571		Sankaraguptam	No. 2	"	"	52	11	43	3'79	1346	6185		1'171
900	Devaguptam	55	57	34	4'17	8119	15070	2'854	912	Sankaraguptam	No. 1	s.	63	3	9	3'90	1860	7977	1'511	"	
	Kumáragiripatnam	62	39	8	4'20	8280	16154	3'059		Sankaraguptam	No. 2	"	"	79	10	40	3'94	3983	8790		1'665
	Mögalmor	61	23	18	4'20	3190	15966	3'024		Chintámul	No. 1	"	"	37	46	11	3'73	8875	5481		1'038
901	Kumáragiripatnam	35	2	55	4'06	1482	11521	2'182	913	Sankaraguptam	No. 2	s.	40	30	15	3'81	5796	6543	1'239	"	
	Mögalmor	96	15	26	4'29	9770	19942	3'777		Chintámul	No. 1	"	"	87	8	12	4'00	2672	10002		1'906
	Goganamátham	48	41	39	4'17	8119	15070	2'854		Chintámul	No. 2	"	"	52	21	33	3'90	1860	7977		1'511
902	Kumáragiripatnam	30	14	38	4'02	646	10487	1'986	914	Chintámul	No. 1	s.	56	0	30	3'91	8066	8281	1'568	"	
	Goganamátham	76	27	29	4'30	244	20242	3'834		Chintámul	No. 2	"	"	83	3	36	3'99	6256	9914		1'878
	Wáreo Beacon	73	17	53	4'29	9770	19942	3'777		Antravedi	No. 1	"	"	40	55	54	3'81	5796	6543		1'239
903	Goganamátham	43	18	5	3'92	1141	8340	1'579	915	Chintámul	No. 2	s.	47	22	51	3'98	6206	9687	1'835	"	
	Wáreo Beacon	77	6	28	4'07	3832	11853	2'245		Antravedi	No. 1	"	"	93	38	30	4'11	8527	13138		2'488
	Goganamátham	59	35	27	4'02	646	10487	1'986		Antravedi	No. 2	"	"	38	58	39	3'91	8066	8281		1'568
904	Wáreo Beacon	36	2	47	3'79	0012	6166	1'168	916	Antravedi	No. 1	s.	45	19	49	3'89	0232	7767	1'471	"	
	Goganamátham	91	13	5	4'02	0212	10476	1'984		Antravedi	No. 2	"	"	72	9	53	4'01	6868	10396		1'909
	Késanapalli	52	44	8	3'92	1141	8340	1'579		Antravedi	No. 3	"	"	62	30	18	3'98	6206	9687		1'835

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
917	Antravedi No. 2	59 38 36	4 027202	10646	2 016	929	Sámaldevi	31 25 19	4 080091	12025	2 277	Inch 12
	Antravedi No. 3	81 20 39	4 086268	12197	2 310		Kálipatnam	100 20 20	4 355864	22692	4 298	
	Antravedi No. 4	39 0 45	3 890232	7767	1 471		Pátópád	48 14 21	4 235672	17206	3 259	
918	Antravedi No. 3	33 5 58	3 798572	6289	1 191	930	Kálipatnam	39 8 4	3 951863	8951	1 695	"
	Antravedi No. 4	79 18 39	4 053703	11316	2 143		Pátópád	82 52 45	4 148373	14073	2 665	
	Antravedi No. 5	67 35 23	4 027202	10046	2 016		Losári	57 59 11	4 080091	12025	2 277	
919	Antravedi No. 4	67 17 34	4 100994	12618	2 300	931	Pátópád	62 9 54	4 082760	12099	2 292	"
	Antravedi No. 5	85 20 6	4 134591	13633	2 582		Losári	76 58 38	4 124847	13331	2 525	
	Antravedi No. 6	27 22 20	3 798572	6289	1 191		Góllapálém	40 51 28	3 951863	8951	1 695	
920	Antravedi No. 4	55 3 48	4 086631	12208	2 312	932	Losári	45 1 28	3 950185	8916	1 689	"
	Antravedi No. 6	58 39 33	4 104434	12718	2 409		Góllapálém	61 14 50	4 043367	11050	2 093	
	Gondi	66 16 39	4 134591	13633	2 582		Lakshmpuram	73 43 42	4 082760	12099	2 292	
921	Antravedi No. 6	87 43 5	4 200390	15863	3 004	933	Góllapálém	72 54 29	4 018066	10425	1 974	"
	Gondi	42 1 21	4 026435	10628	2 013		Lakshmpuram	52 15 15	3 935714	8624	1 633	
	Vamaldevi	50 15 34	4 086631	12208	2 312		Tadivēnu	54 50 16	3 950185	8916	1 689	
922	Gondi	68 59 20	4 343272	22043	4 175	934	Lakshmpuram	83 24 11	4 167131	14694	2 783	"
	Vamaldevi	68 48 19	4 342735	22016	4 170		Tadivēnu	51 47 8	4 065273	11622	2 201	
	Bhairapálém	42 12 21	4 200390	15863	3 004		Sandála	44 48 41	4 018066	10425	1 974	
923	Vamaldevi	39 29 48	4 146921	14026	2 656	935	Tadivēnu	110 34 46	4 341235	21940	4 155	"
	Bhairapálém	48 54 11	4 220581	16618	3 147		Sandála	30 35 33	4 076330	11927	2 259	
	Turputálu	91 36 1	4 343272	22043	4 175		Tēppa Pulipálém	38 49 41	4 167131	14694	2 783	
924	Bhairapálém	68 0 22	4 318505	20821	3 943	936	Sandála	40 29 13	4 158013	14388	2 725	"
	Turputálu	73 20 28	4 332698	21513	4 074		Tēppa Pulipálém	57 36 30	4 272136	18713	3 544	
	Pasaldevi	38 39 10	4 146921	14026	2 656		Kurtivēnu	81 54 17	4 341235	21940	4 155	
925	Bhairapálém	35 24 8	4 113892	12998	2 462	937	Tēppa Pulipálém	59 0 47	4 382064	24153	4 574	"
	Pasaldevi	71 6 20	4 326924	21229	4 021		Kurtivēnu	90 16 33	4 449834	28173	5 336	
	Mógaltúr	73 29 32	4 332698	21513	4 074		Kóttasaudi	30 42 40	4 158013	14388	2 725	
926	Pasaldevi	93 38 52	4 337669	21761	4 121	938	Kurtivēnu	34 43 21	4 164246	14596	2 764	"
	Mógaltúr	49 45 32	4 221264	16644	3 152		Kóttasaudi	74 47 55	4 393206	24729	4 684	
	Mutiálpalli	36 35 36	4 113892	12998	2 462		Chinna Pándráka	70 28 44	4 382964	24153	4 574	
927	Pasaldevi	38 10 22	4 087910	12244	2 319	939	Kóttasaudi	72 6 42	4 279027	19012	3 601	"
	Mutiálpalli	84 40 9	4 295014	19735	3 736		Chinna Pándráka	60 56 56	4 242151	17464	3 308	
	Sámaldevi	57 9 29	4 221264	16644	3 152		Péddapatnam	46 56 22	4 164246	14596	2 764	
928	Mutiálpalli	66 26 46	4 235672	17206	3 259	940	Chinna Pándráka	42 0 57	4 108304	12832	2 430	"
	Sámaldevi	72 50 15	4 253670	17934	3 397		Péddapatnam	55 23 3	4 198049	15778	2 988	
	Kálipatnam	40 42 59	4 087910	12244	2 319		Naráyanapuram	82 36 0	4 279027	19012	3 601	

SECONDARY TRIANGULATION. TRIANGLES.

Triangle No.	Station	Corrected Plane Angle			Distance			Theodolite used
		°	'	"	Log. feet	Feet	Miles	
941	Pēddapattēri	76	52	13	4.315080	20658	3.912	Inch
	Nārayanapuram	65	54	16	4.286991	19364	3.667	12
	Jinjēz	37	13	31	4.108304	12832	2.430	"
942	Pēddapattēri	27	51	16	4.026275	10624	2.012	"
	Jinjēr	93	45	28	4.355813	22689	4.297	"
	Tāllapālēm	58	23	16	4.286991	19364	3.667	"
943	Jinjēr	63	37	18	4.142198	13874	2.628	"
	Tāllapālēm	73	3	49	4.170691	14815	2.806	"
	Kakarlamūdi	43	18	53	4.026275	10624	2.012	"
944	Tāllapālēm	31	15	47	3.859828	7242	1.371	"
	Kakarlamūdi	64	52	0	4.101491	12633	2.393	"
	Mariadibba	83	52	13	4.142198	13874	2.628	"
945	Kakarlamūdi	49	56	6	3.918738	8294	1.571	"
	Mariadibba	88	8	2	4.034668	10831	2.051	"
	Kōttapūdi	41	55	52	3.859828	7242	1.371	"
946	Mariadibba	39	47	16	3.702899	6207	1.176	"
	Kōttapūdi	81	26	56	3.981901	9592	1.817	"
	Gopuvaripālēm	58	45	48	3.918738	8294	1.571	"
947	Kōttapūdi	54	53	3	3.889600	7755	1.469	"
	Gopuvaripālēm	84	13	6	3.974636	9433	1.786	"
	Pōtapalli	40	53	51	3.792899	6207	1.176	"
948	Gopuvaripālēm	43	10	35	3.772746	5926	1.122	"
	Pōtapalli	73	15	2	3.918705	8293	1.571	"
	Karmēda	63	34	23	3.889600	7755	1.469	"
949	Pōtapalli	64	11	6	3.880587	7596	1.439	"
	Karmēda	71	12	22	3.902450	7988	1.513	"
	Chilakalapūdi	44	36	32	3.772746	5926	1.122	"
950	Karmēda	44	57	29	3.730002	5370	1.017	"
	Chilakalapūdi	43	6	11	3.715455	5193	0.984	"
	Karmēda Beacon	91	56	20	3.880587	7596	1.439	"
951	Chilakalapūdi	86	22	21	4.204330	16008	3.032	"
	Karmēda Beacon	74	3	59	4.188187	15424	2.921	"
	Masulipatam	19	33	40	3.730002	5370	1.017	"
952	Karmēda Beacon	43	57	0	4.072649	11821	2.239	"
	Masulipatam	66	1	24	4.192080	15563	2.947	"
	Masulipatam	70	1	36	4.204330	16008	3.032	"
953	Masulipatam	98	48	18	4.441842	27659	5.239	Inch
	Masulipatam	56	12	46	4.366648	23262	4.406	12
	Chinna Kona	24	58	56	4.072649	11821	2.239	"
954	Masulipatam	61	33	15	4.331205	21439	4.066	"
	Chinna Kona	45	53	6	4.243174	17505	3.315	"
	Kōthūr	72	33	39	4.366648	23262	4.406	"
955	Vākalapūdi	13	39	12	3.606359	4040	0.765	7
	Cocanada	65	28	10	4.192278	15570	2.949	"
	Cocanada Light-house	4	22	54	4.225487	16807	3.183	"
956	Vākalapūdi	46	19	8	4.328211	21202	4.033	"
	Revūr	31	55	37	4.192278	15570	2.949	"
	Cocanada Light-house	4	22	54	4.225487	16807	3.183	"
957	Revūr	51	23	39	4.365668	23210	4.396	"
	Chōllangipet	40	22	18	4.284166	19238	3.644	"
	Cocanada Flag-staff	4	22	54	4.225487	16807	3.183	"
958	Vākalapūdi	38	52	53	4.284166	19238	3.644	"
	Revūr	31	14	58	4.201377	15899	3.011	"
	Cocanada Flag-staff	4	22	54	4.225487	16807	3.183	"
959	Vākalapūdi	29	6	43	4.184767	15303	2.808	"
	Revūr	37	17	35	4.280063	19057	3.609	"
	Cocanada Temple	4	22	54	4.225487	16807	3.183	"
960	Revūr	67	50	28	4.236511	17239	3.265	"
	Pēnugudūr	55	17	50	4.184767	15303	2.808	"
	Cocanada Temple	4	22	54	4.225487	16807	3.183	"
961	Pattāvāla	59	7	41	4.179440	15116	2.863	"
	Manjer	45	38	25	4.100077	12591	2.385	"
	Coringa	75	13	54	4.231203	17030	3.225	14
962	Chōllangipet	5	35	11	4.100077	12591	2.385	7
	Pattāvāla	169	7	16	4.387601	24412	4.023	"
	Coringa	5	17	33	4.076666	11931	2.260	14
963	Pattāvāla	71	56	52	4.472988	29716	5.628	7
	Coringa	84	17	40	4.492754	31100	5.800	14
	Coringa Light-house	4	22	54	4.225487	16807	3.183	"
964	Chōllangipet	50	50	36	4.472988	29716	5.628	7
	Coringa	89	35	13	4.583439	38321	7.258	14
	Coringa Light-house	4	22	54	4.225487	16807	3.183	"

* Deduced base.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used	
			Log. feet	Feet	Miles				Log. feet	Feet	Miles		
965	Manjer	s. 7 8 3	3.85847	6395	1.211	977	Poilekuru	s. 69 19 35	4.365066	23177	4.390	Inch 12	
	Vēnkatapālem	" 15 29 11	4.138276	13749	2.604		Gādimoge	" 55 58 35	4.312426	20532	3.889		"
	Coringa House	4.290788	19806	3.751	Yēdūr Lanka Tree Flag		" 21 3 54	4.305721	20217	3.829	"		
966	Pattāvāla	s. 52 52 25	4.138276	13749	2.604	978	Poilekuru	s. 102 31 12	3.878489	7559	1.432	"	
	Manjer	" 46 10 58	4.094919	12443	2.357		Mallāvaram Mol	" 21 3 54	4.312426	20532	3.889		
	Coringa House	4.231203	17030	3.225	Yēdūr Lanka Tree Flag		" 102 31 12	4.243558	17521	3.318			
967	Poilekuru	s. 83 12 38	4.304783	20174	3.821	979	Gādimoge	s. 9 38 17	4.057556	11417	2.162	"	
	Gādimoge	" 12 26 38	3.641254	4378	0.829		Mallāvaram Mol	" 157 7 4	4.423508	26516	5.022		
	Georgepet Rice Mill No. 1	4.305721	20217	3.829	Gutūnādevi Temple		" 9 38 17	4.193767	15623	2.959			
968	Manjer	s. 5 0 57	3.641254	4378	0.829	980	Chirku Lanka	s. 74 19 19	4.285071	19278	3.651	"	
	Poilekuru	" 145 40 28	4.450786	28235	5.348		Balusutēppa	" 61 43 12	4.246336	17633	3.340		
	Georgepet Rice Mill No. 1	4.380368	24511	4.642	Bhairaswāmi Temple		" 74 19 19	4.142979	13899	2.632			
969	Poilekuru	s. 78 1 37	4.296211	19779	3.746	981	Chirku Lanka	s. 18 4 24	3.749625	5619	1.064	"	
	Gādimoge	" 12 46 6	3.650174	4469	0.846		Māsanatēppa	" 76 49 0	4.246336	17633	3.340		
	Georgepet Rice Mill No. 2	4.305721	20217	3.829	Bhairaswāmi Temple		" 18 4 24	4.256352	18045	3.418			
970	Manjer	s. 4 22 46	3.650174	4469	0.846	982	Māsanatēppa	s. 46 31 53	4.211477	16273	3.082	"	
	Poilekuru	" 150 51 29	4.454808	28498	5.397		Balusutēppa	" 89 45 18	4.350686	22423	4.247		
	Georgepet Rice Mill No. 2	4.380368	24511	4.642	Kotapālem Beacon		" 46 31 53	4.190202	15495	2.935			
971	Chirku Lanka	s. 142 50 32	4.170718	14816	2.806	983	Balusutēppa	s. 70 53 50	4.375624	23748	4.498	"	
	Balusutēppa	" 2 38 30	3.053274	1131	0.214		Kandikuppam	" 40 21 18	4.211477	16273	3.082		
	Chirku Lanka	34 30 58	4.142979	13899	2.632		Kotapālem Beacon	" 70 53 50	4.369636	23423	4.436		
972	Chirku Lanka	s. 19 14 41	3.318164	2080	0.394	984	Kandikuppam	s. 101 30 15	4.365017	23175	4.389	"	
	Chirku Lanka	" 150 26 16	3.493343	3114	0.590		Masālikor Kalwa	" 55 26 44	4.289541	19478	3.689		
	Chirku Lanka	34 30 58	4.142979	13899	2.632		Kotapālem Temple	" 101 30 15	3.966605	9260	1.754		
973	Mallāvaram Mol	s. 12 2 9	3.493343	3114	0.590	985	Balusutēppa	s. 56 11 27	4.289541	19478	3.689	"	
	Chirku Lanka	" 165 37 3	4.276277	18892	3.578		Kandikuppam	" 36 8 11	4.140032	13824	2.618		
	Chirku Lanka	34 30 58	4.142979	13899	2.632		Kotapālem Temple	" 56 11 27	4.369636	23423	4.436		
974	Mallāvaram Mol	s. 108 3 43	4.390556	24579	4.655	986	Antravēdi	s. 56 10 11	4.045464	11104	2.103	"	
	Chirku Lanka	" 34 5 52	4.161161	14493	2.745		Gondi	" 51 44 53	4.021059	10497	1.988		
	Yanam Church	4.200291	15860	3.004	Antravēdi Temple		" 56 10 11	4.104434	12718	2.409			
975	Mallāvaram Mol	s. 113 50 34	4.293436	19653	3.722	987	Gondi	s. 56 33 7	4.128554	13445	2.546	"	
	Chirku Lanka	" 4 36 30	3.237130	1726	0.327		Vamaldevi	" 43 33 30	4.045464	11104	2.103		
	Mallāvaram House	4.276277	18892	3.578	Antravēdi Temple		" 56 33 7	4.200390	15863	3.004			
976	Thirthalmundi Beacon	s. 38 13 11	4.293436	19653	3.722	988	Antravēdi	s. 81 15 14	4.057661	11420	2.163	"	
	Chirku Lanka	" 90 37 19	4.501945	31765	6.016		Vamaldevi	" 31 50 56	3.785111	6097	1.155		
	Mallāvaram House	4.393442	24742	4.686	Antravēdi Obelisk Beacon		" 81 15 14	4.026435	10628	2.013			

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
989	Antravedi No. 5	22 31 54	3 785111	6097	1 155	999	Gorantla, LXXIV	30 4 54	4 574607	37550	Inch	
	Antravedi No. 6	104 59 48	4 186643	13369	2 911		Angalakudūr	77 22 7	4 863926	73101	14	
	Antravedi Obelisk Beacon	4 100994	12618	2 390	"		Manchala	72 32 59	4 854105	71467	"	
990	Antravedi No. 6	57 37 53	4 396073	24893	4 715	1000	Angalakudūr	56 35 48	4 540930	34748	"	
	Vamaldevi	101 13 54	4 461013	28008	5 475		Manchala	58 57 51	4 552241	35665	"	
	Lachmanesvaram Temple	4 026435	10028	2 013	"		Alapād	64 26 21	4 574607	37550	"	
991	Gondi	89 26 32	4 396073	24893	4 715	1001	Manchala	38 30 33	4 367912	23330	"	
	Vamaldevi	50 58 20	4 286426	19339	3 663		Alapād	73 27 42	4 555325	35919	"	
	Lachmanesvaram Temple	4 200390	15863	3 004	"		Bodapod	68 1 45	4 540930	34748	"	
992	Tadivēnu	70 39 25	4 059013	11455	2 170	1002	Alapād	52 41 15	4 319415	20865	8	
	Tēppa Pulipālēm	30 6 44	3 784687	6091	1 154		Bodapod	64 31 36	4 374446	23684	"	
	Pēdda Gōllapālēm Beacon	79 13 51	4 076530	11927	2 259		Govāda	62 47 9	4 367912	23330	"	
993	Chinna Pāndrāka	64 6 19	4 236691	17246	3 266	1003	Alapād	53 7 17	4 336484	21701	"	
	Nārayanapuram	60 30 26	4 222370	16687	3 160		Govāda	66 4 20	4 394417	24708	"	
	Pēddapatnam Beacon	55 23 15	4 198049	15778	2 988		Peravali	60 48 23	4 374446	23684	"	
994	Chinna Pāndrāka	22 5 22	3 857919	7210	1 365	1004	Govāda	58 13 2	4 319656	20876	"	
	Pēddapatnam	60 30 3	4 222370	16687	3 160		Peravali	59 41 55	4 326414	21204	"	
	Pēddapatnam Beacon	97 24 35	4 279027	19012	3 601		Gudavali	62 5 3	4 336484	21701	"	
995	Chinna Kona	44 0 15	4 235195	17187	3 255	1005	Peravali	73 35 29	4 515173	32747	"	
	Kothūr	75 55 52	4 380165	23997	4 545		Gudavali	68 42 28	4 502527	31807	"	
	Masulipatam Flag-staff	4 331205	21439	4 060	"		Chinnapulivaru	37 42 3	4 319656	20876	"	
996	Chinna Kona	86 59 14	4 432129	27048	5 123	1006	Gudavali	55 13 12	4 451588	28287	"	
	Kothūr	40 40 58	4 246891	17656	3 344		Chinnapulivaru	52 49 5	4 438367	27439	"	
	Masulipatam Temple	4 331205	21439	4 060	"		Rachūr	71 57 43	4 515173	32747	"	
POINT DIVI												
SECONDARY SERIES.												
997	Anantavaram, LXXI	55 57 14	4 757835	57258	10 844	1007	Chinnapulivaru	49 55 22	4 372713	23589	"	
	Gorantla, LXXIV	59 17 7	4 773854	59409	11 252		Rachūr	63 30 16	4 440759	27590	"	
	Mangalagiri No. 2 h.s.	64 45 39	4 795923	62506	11 838		Pesar Lanka	66 34 22	4 451588	28287	"	
998	Gorantla, LXXIV	68 14 53	4 864301	73165	13 857	1008	Rachūr	56 4 32	4 310308	20432	"	
	Mangalagiri No. 2 h.s.	65 7 39	4 854105	71467	13 535		Pesar Lanka	50 35 21	4 279310	19024	"	
	Angalakudūr	40 37 28	4 757835	57258	10 844		Repalle	73 20 7	4 372713	23589	"	

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used
			Log. feet	Feet	Miles				Log. feet	Feet	Miles	
1011	Pesar Lanka Vilvol Sallapalli	53 20 46 66 0 16 60 38 58	4 406514 4 462946 4 442537	25498 29037 27704	4 829 5 499 5 247	1023	Rachur Repalle Manteripallem	62 34 37 78 5 29 39 19 54	4 425584 4 467903 4 279310	26643 29370 19024	5 046 5 562 3 603	Inch 8 "
1012	Pesar Lanka Puligudda Sallapalli	65 49 7 67 25 22 46 45 31	4 457689 4 462946 4 359987	28687 29037 22908	5 433 5 499 4 339	1024	Rachur Manteripallem Muttapalli	45 59 25 67 17 55 66 42 40	4 361676 4 469793 4 467903	22997 29498 29370	4 356 5 587 5 562	" " "
1013	Vilvol Sallapalli Turkapallem	66 34 23 66 46 59 46 38 38	4 507558 4 508244 4 406514	32178 32229 25498	6 094 6 104 4 829	1025	Manteripallem Muttapalli Ganamvanalallem	52 36 12 60 29 29 66 54 19	4 298022 4 337615 4 361676	19862 21758 22997	3 762 4 121 4 356	" " "
1014	Puligudda Sallapalli Vishvanathapalli	65 11 18 65 43 8 49 5 34	4 537237 4 539074 4 457689	34454 34600 28687	6 525 6 553 5 433	1026	Muttapalli Ganamvanalallem Peddapalli	67 8 34 72 5 38 40 45 48	4 447635 4 461588 4 298022	28031 28946 19862	5 309 5 482 3 762	" " "
1015	Sallapalli Vishvanathapalli Kota Manchuru	52 59 23 68 13 42 58 46 55	4 507459 4 573030 4 537237	32171 37414 34454	6 093 7 086 6 525	1027	Ganamvanalallem Peddapalli Nizampatnam	34 31 40 71 50 31 73 37 49	4 219041 4 443422 4 447635	16559 27760 28031	3 136 5 258 5 309	" " "
1016	Sallapalli Turkapallem Kota Manchuru	67 6 1 62 55 21 49 58 38	4 587796 4 573030 4 507558	38708 37414 32178	7 331 7 086 6 094	1028	Peddapalli Nizampatnam Ganapavaram	73 29 25 70 36 7 35 54 28	4 43502 4 425406 4 219041	27071 26632 16559	5 127 5 044 3 136	" " "
1017	Vishvanathapalli Kota Manchuru Peddakona	65 25 40 64 50 58 49 43 22	4 583750 4 581718 4 507459	38349 38170 32171	7 263 7 229 6 093	1029	Peddapalli Ganapavaram Pittalavaripallem	43 23 1 50 23 52 80 15 7	4 268335 4 352315 4 425406	18550 22507 26632	3 513 4 263 5 044	" " "
1018	Vishvanathapalli Peddakona Kodur	68 3 34 37 17 14 74 39 12	4 564835 4 379824 4 581718	36714 23979 38170	6 953 4 541 7 229	1030	Ganapavaram Pittalavaripallem Gudipudi	69 10 59 65 51 18 44 57 43	4 389821 4 379378 4 268335	24537 23954 18550	4 647 4 537 3 513	" " "
1019	Peddakona Kodur Point Divi	58 6 10 46 55 32 74 58 18	4 508855 4 443549 4 564835	32274 27768 36714	6 113 5 259 6 953	1081	Ganapavaram Gudipudi Karlapallem	52 14 17 70 45 39 57 0 4	4 353717 4 430823 4 379378	22580 26966 23954	4 276 5 107 4 537	" " "
1020	Peddakona Point Divi Borardibba	70 6 37 40 45 27 69 7 56	4 446303 4 287833 4 443549	27945 19401 27768	5 293 3 675 5 259	1082	Gudipudi Karlapallem Appikatta	65 25 25 44 32 46 70 1 49	4 339406 4 226665 4 353717	21848 16853 22580	4 138 3 192 4 276	" " "
1021	Peddakona Borardibba Kothur	52 15 42 68 50 9 58 54 9	4 253287 4 324885 4 287833	17918 21129 19401	3 394 4 002 3 675	1088	Karlapallem Appikatta Bapatla	58 7 34 68 41 14 53 11 12	4 365011 4 403229 4 339406	23175 25423 21848	4 389 4 815 4 138	" " "
1022	Peddakona Kothur Chinna Kona	64 38 25 52 24 48 62 56 47	4 331205 4 274173 4 324885	21439 18801 21129	4 060 3 561 4 002	1084	Appikatta Bapatla Jammalalallem	56 15 18 53 30 25 70 14 17	4 311245 4 296591 4 365011	20476 19797 23175	3 878 3 749 4 389	" " "

No. of Triangle	Station	Distance			Corrected Plane Angle	No. of Triangle	Theodolite used	Station	Distance			Corrected Plane Angle	Theodolite used						
		Log. feet	Feet	Miles					Log. feet	Feet	Miles								
1085	Bápatla	s.	4' 336990	21727	4' 115	1047	Péddakona	s.	4' 509197	32300	6' 117	8							
	Jamwalapálém	"	4' 292090	19593	3' 711		Kodúr	"	4' 443891	27790	5' 263		"						
	Murukóndapád	"	4' 311245	20476	3' 878		Point Divi Light-house	"	4' 564835	36714	6' 953								
1086	Jammalapálém	s.	4' 484106	30486	5' 774	KÓTTAPÁLÉM AND CHÁPALMUNDI SECONDARY SERIES.							12						
	Murukóndapád	"	4' 446197	27938	5' 291														
	Kotapapálém	"	4' 336990	21727	4' 115														
1087	Murukóndapád	s.	4' 458246	28724	5' 440								1048	Pesár Lanka	s.	4' 279051	19013	3' 601	"
	Kotapapálém	"	4' 540022	34675	6' 567									Itrepulle	"	4' 372595	23583	4' 466	
	Upputúr	"	4' 484106	30486	5' 774									Rachúr	"	4' 310308	20432	3' 870	
1088	Kotapapálém	s.	4' 594672	31965	6' 054								1049	Repalle	s.	4' 467627	29351	5' 559	"
	Upputúr	"	4' 330551	21407	4' 054									Rachúr	"	4' 425256	26623	5' 042	
	Adusumilli	"	4' 224812	16781	3' 178									Mánteripálém	"	4' 279051	19013	3' 601	
1089	Upputúr	s.	4' 275288	18849	3' 570								1050	Repalle	s.	4' 392167	24670	4' 672	"
	Adusumilli	"	4' 224812	16781	3' 178	Mánteripálém	"	4' 352965	22541	4' 269									
	Chénnubhóttapálém	"	4' 330551	21407	4' 054	Singupálém	"	4' 425256	26623	5' 042									
1040	Adusumilli	s.	4' 806597	64061	12' 133	1051	Mánteripálém	s.	4' 204527	16015	3' 033	"							
	Chénnubhóttapálém	"	4' 687829	48734	9' 230		Singupálém	"	4' 367255	23295	4' 412								
	Pálapáru, XII	"	4' 275288	18849	3' 570		Pötuméraka	"	4' 392167	24670	4' 672								
1041	Chénnubhóttapálém	s.	4' 820450	66138	12' 526	1052	Mánteripálém	s.	4' 249134	17747	3' 361	"							
	Pálapáru, XII	"	4' 903440	80064	15' 164		Pötuméraka	"	4' 314473	20629	3' 907								
	Babbépallo, XIII	"	4' 773854	59409	11' 252		Adavaladevi	"	4' 367255	23295	4' 412								
1042	Anantavaram, LXXI	s.	4' 903440	80064	15' 164	1053	Mánteripálém	s.	4' 343455	22052	4' 177	"							
	Mangalagiri	No. 2 h.s.	4' 779204	60146	11' 391		Adavaladevi	"	4' 336063	21680	4' 106								
	Guntúr	No. 1 s.	4' 773854	59409	11' 252		Ganamvanalapálém	No. 2	4' 314473	20629	3' 907								
1043	Adamsáb, X	s.	4' 264576	18390	3' 483	1054	Adavaladevi	s.	4' 314967	20652	3' 911	"							
	Anantavaram, LXXI	"	4' 783041	60679	11' 492		Ganamvanalapálém	No. 2	4' 293823	19671	3' 726								
	Guntúr	No. 1 s.	4' 799943	63087	11' 948		Dindi	No. 1	4' 343455	22052	4' 177								
1044	Adamsáb, X	s.	4' 820352	66123	12' 523	1055	Adavaladevi	s.	4' 359892	22903	4' 338	"							
	Gorantla, LXXIV	No. 2 h.s.	4' 264576	18390	3' 483		Dindi	"	4' 273246	18761	3' 553								
	Guntúr	No. 2 s.	4' 757835	57258	10' 844		Kóttapálém	"	4' 293823	19671	3' 726								
1045	Péddakona	s.	4' 446353	27948	5' 293	1056	Adavaladevi	s.	4' 166290	14665	2' 778	"							
	Borardibba	"	4' 443891	27790	5' 263		Kóttapálém	"	4' 308962	20369	3' 858								
	Point Divi Light-house	"	4' 287833	19401	3' 675		Morlaguntla	"	4' 273246	18761	3' 553								

* Deduced base.

No. of Triangle	Station	Corrected Plane Angle	Distance			No. of Triangle	Station	Corrected Plane Angle	Distance			Theodolite used		
			Log. feet	Feet	Miles				Log. feet	Feet	Miles			
1057	Pötüméraka	74 12 13	4'308962	20369	3'858	1068	Lankardibba	54 6 25	4'474388	29812	5'646	Inch 12		
	Adavaladevi	48 49 28	4'202300	15933	3'018		Chápal Lanka	92 17 7	4'565498	36770	6'964		"	
	Moriaguntla	56 58 19	4'249134	17747	3'361		Chápalmundi Beacon	33 36 28	4'308964	20369	3'858		"	
1058	Adavaladevi	37 17 55	4'056938	11401	2'159	1064	Singupálém	141 26 33	4'394269	24790	4'695	"		
	Köttapálém	57 1 54	4'198235	15785	2'990		Pötüméraka	14 48 43	4'007213	10167	1'926		"	
	Köttapálém Beacon	85 40 11	4'273246	18761	3'553		Mortola Temple	4'204527	16015	3'033	"			
1059	Adavaladevi	35 49 5	4'061182	11513	2'180	1065	Mánteripálém	46 46 16	4'394269	24790	4'695	"		
	Dindi	53 21 20	4'198235	15785	2'990		Pötüméraka	90 1 6	4'531766	34022	6'444		"	
	Köttapálém Beacon	90 49 35	4'293833	19671	3'726		Mortola Temple	4'367255	23295	4'412	"			
1060	Köttapálém	66 16 31	4'334051	21580	4'087	1066	Dindi	123 24 29	4'752296	56532	10'707	"		
	Moriaguntla	75 15 6	4'357848	22795	4'317		Chápal Lanka	25 11 53	4'459882	28832	5'461		"	
	Lankardibba	38 28 23	4'166290	14665	2'778		Nizámpatnam Beacon	31 23 38	4'547498	35278	6'681		"	
1061	Dindi	33 22 41	4'311450	20486	3'880	1067	Chápal Lanka	41 34 53	4'677935	47636	9'022	"		
	Köttapálém	108 39 51	4'547498	35778	6'681		Nizámpatnam Beacon	128 2 8	4'752296	56532	10'707		"	
	Chápal Lanka	37 57 28	4'359892	22903	4'338		Dindi						"	
1062	Köttapálém	55 50 28	4'308964	20369	3'858	"	Köttapálém						"	
	Lankardibba	56 19 44	4'311450	20486	3'880		Lankardibba							"
	Chápal Lanka	67 49 48	4'357848	22795	4'317		Chápal Lanka							

May, 1892.

S. G. BURRARD,
In charge of Computing Office.

MADRAS MERIDIONAL AND COAST SERIES.

AZIMUTHS OF SURROUNDING STATIONS AND POINTS AT PRINCIPAL,
PRINCIPAL-AUXILIARY AND SECONDARY STATIONS.

The following table contains, in the first column, the name of each Principal, Principal-Auxiliary, or Secondary Station, at which azimuths of surrounding Points have been measured; immediately followed by those azimuths. The second column contains the number of the triangle which gives the distance between the Station and the Point.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Adakōnda, LVI	• ' " "	Ádamsáb, X—(Contd.)	• ' "
Yēdlagattu, LVII	34 4 38.21	Guntúr No. 2 s.	255 33 16
Parampúdi, LX	85 58 3.40	Vallúr Temple	258 51 14
Pothkōnda, LIV	262 34 32.26	Chivalúr	265 31 30
Náwilmētta, LIII	295 34 42.52	Vejēlla	274 18 57
Lachmipuram, LV	338 34 57.13	Sríkakulam Pagoda	276 13 22
		Jampani	278 27 47
		Chērbrolu Pagoda	284 19 27
		Chamallamúdi Pagoda	286 22 50
Adáligat, XV*		Bhattiprol	287 57 4
Níalamari, II	29 20 56.35	1	
Kándágotla, XII*	74 53 39.87	1	
Khamam	h.s. 300 46 49	102	
Anantagiri, I	349 8 9.90	2	
		Adaivaladevi s.	
Ádamsáb, X		Kóttapálēm Beacon	s. 23 19 53.
Pálapáru, XII	3 27 49.06	Dindi	No. 1 " 59 8 58
Nadēlla	h.s. 49 41 12	Ganamvanalapálēm	No. 2 " 118 9 26
Kotapa, IX	67 14 21.67	Mánteripálēm	No. 2 " 179 6 17
Narsaraōpet House (helio.)	86 11 28	Pōtumēra	" 253 25 33
Viravillipaya	" 125 55 18	Morlaguntla	" 302 15 1
Dhúlipalla, VII	133 11 22.94	Kóttapálēm	" 346 1 58
Kantēpúdi Pagoda	151 12 42		
Lagadapád, LXXIII	168 36 31.67	Addanki h.s.	
Pattibanda Pagoda	182 32 34	Chandalúr	h.s. 79 49 48
Rághavapuram	" 182 46 44	Kotapa, IX	191 48 42
Anautavaram, LXXI	206 34 40.60	Medaramēttla, XV	343 46 46
Pēddapalakalúr	" 230 0 57		
Mangalagiri	No. 1 " 236 11 54	Addanki s.	
Mangalagiri Temple	" 236 32 20	Chemakurtti	h.s. 36 58 1
Gorantla, LXXIV	" 238 36 35.00	Chandalúr	" 86 4 50
Guntúr	No. 1 s. 254 53 30	Medaramēttla, XV	337 36 17
Guntúr Mosque	255 14 42		

* These stations appertain to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Adusumilli s.		Anamanthu s.	
Upputúr s. 10 56 24	1038	Muthianu h.s. 203 30 55	690
Chénnubhöttapálém „ 71 12 1	1039	Dudugat, LXIII 275 54 38	690
Pálapáru, XII 128 50 18	1040	Góllapalli s. 330 20 56	691
Kotapapálém „ 308 41 13	1038		
Agnigundala s.		Anantagiri, I	
Sudikönda No. 1 h.s. 149 52 2	243	Sárangapalle, IV 31 19 22·84	4
Tirumaldevargudda Pillar 214 54 27	243	Níálamari, II 83 52 33·35	2
		Kándágatla, XII* 123 58 25·39	3
		Adáligat, XV* 169 9 17·47	2
		Khamam h.s. 218 35 27	102
		Miádarsál, III 349 21 6·03	5
Akkapálém h.s.		Anantagiri h.s.	
Brahmankákra s. 33 12 36	750	Pöchécharla Hill Pagoda 28 9 58	142
Zaladanki „ 87 10 18	751	Níálamari, II 83 55 41	100
Köttapalli No. 1 „ 137 17 13	752	Munagál Mosque 89 42 48	109
Kávali h.s. 169 10 12	754	Sirpuram Pagoda 106 24 47	108
Gavúravaram s. 357 25 57	750	Ráipalle Hill Pagoda 109 58 53	107
		Kándágatla, XII* 123 59 30	99
Alapád s.		Urulkönda Hill Building 144 54 26	104
Bodapod s. 29 58 38	1001	Guniyat h.s. 174 52 0	99
Manchala „ 103 26 20	1000	Kandikönda Hill Pagoda 177 4 30	101
Angalakudúr „ 167 52 41	1000	Khamam Hill Fort 218 28 31	103
Peravali „ 284 10 6	1003	Jaggayapet Pagoda 329 38 3	144
Gováda „ 337 17 23	1002	Pulichintala „ 346 57 10	140
Alimadugu s.		Anantavaram, LXXI	
Bitragunta h.s. 104 38 29	741	Ádamsáb, X 26 36 58·48	729
Mungamuru s. 159 12 51	741	Lagadapád, LXXIII 81 20 22·71	93
Jaggagogula „ 226 41 44	742	Chintalapád, LXXII 131 16 42·12	90
		Amarávati Temple No. 2 135 57 14	722
		Amarávati Temple No. 1 136 11 16	721
		Jujúrdurgam, LXVIII 192 28 13·85	89
Allikönda h.s.		Júpúdi Hill Temple 218 41 56	703
Gulimichérta Pagoda 2 22 58	438	Yérragattu, LXVI 235 27 31·72	727
Ikalséri h.s. 34 35 19	432	Bézváda, LXIX 268 24 2·00	89
Karakönda „ 103 22 49	409	Vallúr Temple 295 57 25	731
Atmakúr Hill Tree 164 55 52	413	Anantavaram Temple 296 35 23	725
Siddhanakönduru „ 191 14 11	409	Mangalagiri No. 2 h.s. 298 17 48	997
Buchchiréddipálém Pagoda 228 25 28	421	Mangalagiri Hill Temple 299 13 16	730
Gandavaram Pagoda 234 37 57	420	Mangalagiri Temple 300 31 0	728
Kálavakönda No. 1 „ 314 4 0	433	Tadikönda Hill Pagoda 345 24 49	727
Gudali „ 317 57 30	604	Guntúr No. 1 s. 352 29 27	1042
		Gorantla, LXXIV 354 15 1·66	94
Amrabad h.s.		Andagundala s.	
Kölem h.s. 21 51 49	304	Kambákamdurgam h.s. 69 16 12	640
Devarakönda „ 196 0 9	120	Venád Tree 263 14 42	644
Tirmallappanagutta „ 235 10 18	120	Irakam s. 300 54 12	640
Durgappakönda „ 318 26 58	149		
Anagaripálém s.		Áněpúdi, XXXIX	
Juvaldinne s. 14 54 26	745	Kambákamdurgam, XLI 28 50 59·40	51
Koladinne „ 75 33 21	745	Pillimedu, XL 100 12 18·38	46
Vattúrpallepálém Beacon 224 0 40	748	Gurramkönda, XXXVII 143 4 38·98	46
Pallepálém „ 264 21 42	747	Gudali, XXXVIII 186 58 59·81	50
Vadapálém „ 289 24 23	746	Gudali Hill Temple 187 2 15	606
		Armeghon Light-house 247 21 46	617
		Jonangipálém, XLII 310 10 57·07	55

* These stations appertain to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Angalakudúr s.		Árani s.	
Manchala s. 44 28 8	999	Satyaved h.s. 120 20 58	659
Gorantla, LXXIV 121 50 15	998	Manjankaranai s. 339 4 53	669
Mangalagiri No. 2 h.s. 168 27 43	998		
Alapád s. 347 52 20	1000		
Antravedi No. 1 s.		Aupád, LVIII	
Antravedi No. 3 s. 60 40 28	916	Sudkõnda, LIX 111 25 52.44	77
Antravedi No. 2 „ 106 0 17	915	Tirupati No. 2 Temple 118 14 12	682
Chintámul No. 2 „ 199 38 47	914	Yédlagattu, LVII 158 47 21.61	76
Chintámul No. 1 „ 240 34 41	914	Lachmipuram, LV 236 18 5.77	76
Antravedi No. 2 s.		Babbēpalle, XIII	
Antravedi No. 4 s. 57 48 19	917	Medaramēṭla, XV 29 8 16.68	19
Chintámul No. 2 „ 247 1 11	915	Dharmavaram Hill (helio.) 68 22 37	265
Antravedi No. 1 „ 285 59 50	915	Dánapa, XIV 85 50 55.56	15
Antravedi No. 3 „ 358 9 43	916	Kotapa, IX 156 23 50.95	15
		Gõttipád s. 218 44 19	262
		Pálapáru, XII 232 43 42.01	18
		Chēnnubhõttapálēm „ 243 59 44	1041
		Jaggayapálēm Beacon „ 304 48 18	273
		Péddaganjám Beacon „ 337 0 24	275
		Faranguldinne, XVI 343 35 14.98	20
Antravedi No. 3 s.		Badvel s.	
Antravedi No. 5 s. 63 43 7	918	Lankamalai h.s. 58 30 56	396
Antravedi No. 4 „ 96 49 5	917	Gánugapēnta „ 191 19 34	396
Antravedi No. 2 „ 178 9 44	916		
Antravedi No. 1 „ 240 40 2	916		
Antravedi No. 4 s.		Bagarapet h.s.	
Antravedi Temple 62 18 25	986	Pesiduvāripalli h.s. 81 43 36	773
Antravedi No. 6 s. 63 24 48	919	Cuddapah Railway Station (helio.) 91 31 53	802
Gondi „ 118 28 36	920	Cuddapah House No. 5 (helio.) 93 2 46	800
Antravedi No. 2 „ 237 47 50	917	Cuddapah House No. 4 (helio.) 99 14 37	798
Antravedi No. 3 „ 276 48 35	917	Cuddapah House No. 3 (helio.) 99 49 29	797
Antravedi No. 5 „ 356 7 14	918	Cuddapah Mark No. 2 (helio.) 100 0 18	795
		Cuddapah Judge's Court (helio.) 101 15 38	799
		Cuddapah Tomb (helio.) 104 50 38	793
		Cuddapah Dargah 105 25 37	791
		Cuddapah School (helio.) 105 37 42	794
		Cuddapah Mark No. 1 (helio.) 107 0 26	792
		Cuddapah House No. 1 (helio.) 109 22 45	780
		Cuddapah Idgah Point No. 2 (helio.) 109 48 71	783
		Cuddapah Idgah Point No. 1 109 51 51	781
		Cuddapah Masjid 111 11 51	778
		Cuddapah Temple 113 6 26	787
		Uppalapalli Temple 123 17 33	776
		Ukkayapalli h.s. 125 10 31	774
		Pushpagiri „ 130 13 27	773
		Siddhavattam Temple 223 26 28	804
Antravedi No. 5 s.		Ballavol s.	
Antravedi Obelisk Beacon 68 15 15	989	Gudali, XXXVIII 17 46 51	607
Antravedi No. 6 s. 90 47 9	919	Kálavakõnda No. 2 h.s. 91 25 12	607
Antravedi No. 4 „ 176 7 15	918	Kanupur s. 257 53 51	611
Antravedi No. 3 „ 243 42 38	918	Lellapálēm „ 286 33 36	609
		Úttamanēllúr „ 334 10 55	608
Antravedi No. 6 s.			
Antravedi Obelisk Beacon 15 46 21	988		
Vamaldevi s. 97 1 35	921		
Lachmanesvaram Temple 154 39 28	990		
Gondi „ 184 44 40	920		
Antravedi No. 4 „ 243 24 13	919		
Antravedi No. 5 „ 270 46 33	919		
Appikatla s.			
Bápatla s. 37 25 14	1033		
Jammalapálēm „ 93 40 32	1034		
Gudipúdi „ 258 42 11	1032		
Karlapálēm „ 328 44 0	1032		
Arambákam s.			
Igavaripálēm 4 39 35	654		
Irakam s. 258 7 5	654		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Balusutēppa s.		Bhattiprol s.	
Kandikuppam s. 53 39 25	885	Adamsāb, X 108 5 23	194
Depu Lanka " 105 52 54	884	Pēddapalākālūr h.s. 120 20 40	193
Chirku Lanka No. 2 " 174 50 19	971	Mangalagiri No. 1 " 149 22 13	193
Chirku Lanka No. 1 " 177 28 49	883	Srikakulam Pagoda 214 2 23	196
Bhairaswāmi Temple 239 12 1	980		
Māsanatēppa " 253 0 17	883		
Kotapālēm Beacon 342 45 35	982	Bikkavol s.	
Kotapālēm Temple 357 27 58	985	Sudaghatu h.s. 113 58 13	827
		Elangoi, LI 186 49 43	826
		Tamarchēru s. 236 48 48	825
		Kaikavol " 285 0 0	825
Bandalduru, XXXIV		Bitragunta h.s.	
Gurramkōnda, XXXVII 18 43 45·06	48	Narasimhakōnda h.s. 15 44 19	735
Vutukūr, XXXIII 74 13 7·90	47	Sangamkōnda " 48 55 16	736
Allikōnda Hill Mark (helio.) 107 8 25	407	Somavarapād " 83 29 8	735
Kistama, XXXI 130 25 6·54	47	Brahmankākra s. 130 47 23	737
Narasimhakōnda h.s. 160 2 42	412	Gavūravaram " 182 27 1	738
Narasimhakōnda Hill Temple 160 17 0	410	Mungamuru " 251 40 49	740
Muttukurrutēppa s. 187 22 18	422	Alimadugu " 284 37 40	741
Nellore Temple 196 47 43	424		
Nellore Church 197 45 52	426	Bodapod s.	
Gudali Hill Temple 344 0 10	605	Manchala s. 141 56 19	1001
Gudali, XXXVIII 344 0 36·87	49	Alapād " 209 58 4	1001
Kālavakōnda No. 2 h.s. 351 34 26	435	Govāda " 274 29 40	1002
Bandanchērla, LXI		Bōmmavaram h.s.	
Dudugat, LXIII 21 37 45·45	79	Tanukōnda Hill Platform 17 37 17	508
Dālgattu, LXV 56 13 55·76	80	Gundlatēppa Hill Platform 38 42 44	504
Inuprāyi, LXIV 103 12 12·12	84	Karakalpēddagu Hill 54 48 9	511
Nāgaldurgam, LXII 154 12 29·69	83	Budthaid h.s. 59 35 41	494
Parampūdi, LX 221 47 22·32	78	Vattalūr " 101 39 20	493
Sudkōnda, LIX 307 24 2·95	78	Pullampet Hill Platform 125 27 33	503
Pōnukamāmidi Mark 343 0 31	683	Malaimarapuram Platform 150 46 42	497
		Chitvel s. 171 26 4	501
		Rāmpur Hill Tree 211 30 49	498
Bāpatla s.		Borardibba s.	
Murukōndapād s. 98 16 26	1035	Point Divi Light-house 30 3 23	1046
Jammalapālēm " 163 54 9	1034	Point Divi s. 30 7 3	1020
Appikatla " 217 24 34	1033	Pēddakona " 99 14 59	1020
Karlapālēm 270 35 46	1033	Kothūr " 168 5 8	1021
Bēzvāda, LXIX		Brahmankākra s.	
Anantavaram Temple 86 52 43	724	Somavarapād h.s. 64 7 11	737
Anantavaram, LXXI 88 27 10·00	89	Zaladanki s. 163 48 37	751
Jūpūdi Hill Temple 124 9 53	703	Akkapālēm h.s. 213 12 7	750
Jujūrdurgam, LXVIII 144 6 4·55	88	Gavūravaram s. 264 58 45	739
Kōndapalli Hill Fort 146 2 18	702	Bitragunta h.s. 310 46 53	737
Kōndūr Hill Pole 167 8 14	699	Bitragunta Hill Pillar 310 49 12	772
Yērragattu, LXVI 199 18 4·92	88	Bitragunta Hill Temple 311 4 54	771
Agēripalli Hill Temple 225 45 0	697		
		Budthaid h.s.	
Bhairapālēm s.		Pīler s. 32 0 50	577
Turputālu s. 26 50 58	923	Vustikayalapēnta Pagoda 38 21 55	538
Pasaldevi " 94 51 20	924		
Mōgaltūr " 130 15 28	925		
Gondi " 295 44 26	922		
Vamaldevi " 337 56 47	922		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Budthaid h.s.—(Contd.)		Chandragiri s.	
Gundalkönda h.s. 55 8 41	513	Námalpet h.s. 226 41 43	585
Pulikönda " 97 15 10	519	Tirupati Pagoda 241 3 3	587
Vandádi " 101 53 21	536	Karakambod Fort 251 33 33	586
Sanipáya " 145 46 49	481	Kundrapák Hill Pillar 271 49 31	591
Yélagalakönda Platform 179 34 2	500	Kúpchandrapet Hill Peak 276 23 5	592
Attirála Hill Pagoda 189 42 9	487	Appalayagunta Peak 285 43 37	594
Vattalúr " 203 18 37	484	Péddadrug " 303 10 12	585
Rámpur Hill Tree 228 0 56	492	Malaikönda No. 2 Pagoda 341 41 31	593
Bómmavaram " 239 32 9	494		
Ikalseri " 251 46 44	481	Chápal Lanka s.	
Kóttakanama Pass Point No. 2 270 27 27	510	Nizámpatnam Beacon s. 118 56 41	1066
Tallarapet " 315 1 45	482	Dindi No. 2 " 129 19 40	1067
Sattevaripálém " 355 6 15	482	Dindi No. 1 " 144 8 34	1061
		Kóttapálém " 182 6 2	1061
Chákalakönda, XXVII		Lankardibba " 249 55 50	1062
Yérrakönda, XXX 47 0 48'11	39	Chápalmundi Beacon " 342 12 57	1063
Udayagiri Hill Mosque 70 42 58	381		
Pichérla, XXIII 180 31 16'15	34	Chápalmundi Beacon s.	
Malakönda Hill Temple 216 15 52	354	Chápal Lanka s. 162 13 22	1063
Kuchérla, XXIV 229 2 5'66	30	Lankardibba " 195 49 50	1063
Kesavaram, XXVI 276 34 15'00	30		
Rájalli, XXVIII 338 11 35'75	35	Chemakurti, XIX	
Chalapalli s.		Netivaripálém, XX 3 45 40'25	25
Rámesvaram No. 2 s. 27 40 40	897	Nishánkönda, XXII 66 42 8'65	31
Devaguptam " 66 14 29	898	Pódili Pillar 86 19 57	280
Gátomalai " 246 10 19	896	Darsi Pillar 137 6 59	271
Surasaniyánam Beacon " 315 18 38	896	Darsi Hill (helio.) 145 46 44	270
		Péddakaltippa, XVII 154 15 4'05	24
Chandalúr h.s.		Medaramétla, XV 237 23 53'98	22
Kanigiridrug Platform 17 21 52	348	Mallávaram Hill Pagoda 255 22 8	278
Turukönda Hill Pagoda 37 27 36	316	Péddaganjám Beacon s. 265 22 14	274
Konakanamétla h.s. 43 44 19	317	Pátapád Beacon " 287 20 30	276
Lingamgunta " 54 37 47	281	Ongole, XVIII 300 15 36'13	22
Ambapuram Pagoda 62 2 48	323	Konijedu h.s. 319 45 26	333
Yanagakönda " 68 23 0	298	Pasamudra Beacon s. 319 59 59	339
Chinna Yachávaram " 86 8 27	283		
Manganapúdi Hill Pagoda 99 9 4	289	Chemakurti h.s.	
Innaparati " 113 37 56	249	Pénchalgólkönda h.s. 28 45 58	351
Dupád s. 117 25 55	285	Chandalúr " 130 27 33	312
Chandalúr Pagoda 124 28 3	322	Pótakamúr Fort 155 15 43	315
Donakönda Pagoda 129 11 3	321	Addanki s. 216 55 35	314
Kurichedu Hill Pagoda 159 51 20	319	Medaramétla, XV 237 24 15	311
Sudikönda No. 1 h.s. 188 57 45	249	Peranamitta h.s. 298 16 50	325
Vinukönda Hill Pagoda 200 55 50	259	Kandalúr " 320 25 15	311
Ikkurru Hill Pagoda 219 48 54	256		
Kotapa, IX 227 28 30	250	Cbēmbedu, XXXV*	
Gokanakönda Hill Pagoda 235 13 59	264	Nagari, XXXIII* 108 11 53'24	54
Purimétta Hill Pagoda 249 35 16	267	Kambákamdurgam, XLI 160 20 7'54	54
Addanki " 259 44 8	269	Réttambedu, XLIV 226 20 57'29	57
Addanki s. 265 59 8	313		
Medaramétla, XV 278 20 34	251	Chēmbedu s.	
Périyapálém Hill Pagoda 281 37 26	272	Nagari, XXXIII* 108 14 15	652
Pótakamúr Fort 288 2 10	315	Satyaved h.s. 164 54 53	652
Chedalaváda Pagoda 291 12 42	327	Manjankaranai s. 264 42 45	658
Chemakurti h.s. 310 24 17	312	Erumaivéttipálayam " 279 40 15	658
Kandalúr " 315 11 31	309		
Bodikurapád Pagoda 316 54 2	324		
Chundikönda " 353 55 14	308		
Andrankönda Peak 358 11 39	346		

* These stations appertain to the Madras Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Chënnubhöttapälëm s.		Chinna Yachávaram h.s.—(Ctd.)	
Babbëpalle, XIII	64 1 48	Manganapúdi Hill Pagoda	214 59 28
Pálapáru, XII	202 25 14	Nallakönda Hill Mark	227 46 29
Adusumilli	s. 251 11 4	Kurichedu Hill Pagoda	237 55 47
Upputúr	„ 329 52 33	Chandalúr	h.s. 266 4 1
Chikri, LXXV		Chintalapád, LXXII	
Chintalapád, LXXII	247 10 24 59	Lagadapád, LXXIII	2 49 33 49
Lagadapád, LXXIII	303 42 44 32	Bëllamkönda Hill Mark (helio.)	54 28 5
Krosúr Hill Pole	313 41 38	Chikri, LXXV	67 13 22 94
Bhrugubanda Hill Temple	352 11 15	Jönnalagadda, LXX	198 0 29 88
Dhúlipalla, VII	354 41 9 71	Rághavapuram	h.s. 210 48 13
		Pendiyála House	242 28 49
		Jujúrdurgam, LXVIII	258 39 7 27
Chilakalapúdi s.		Amarávati Temple No. 1	307 59 40
Masulipatam	No. 1 s. 18 46 57	Amarávati Temple No. 2	308 10 25
Pötapalli	„ 204 41 53	Anantavaram, LXXI	311 13 41 46
Karmeda	„ 249 18 25		
Karmeda Beacon	„ 292 24 36		
		Chintámul No. 1 s.	
Chinna Kona s.		Antravedi	No. 1 s. 60 35 6
Masulipatam Temple	192 23 41	Chintámul	No. 2 „ 116 35 36
Masulipatam	No. 2 s. 208 30 53	Sankaraguptam	No. 2 „ 203 43 48
Masulipatam	No. 1 „ 233 29 49	Sankaraguptam	No. 1 „ 241 29 59
Masulipatam Flag-staff	235 22 40		
Kothúr	„ 279 22 55	Chintámul No. 2 s.	
Pëddakona	„ 342 19 42	Antravedi	No. 1 s. 19 38 55
		Antravedi	No. 2 „ 67 1 46
Chinnamandëm s.		Sankaraguptam	No. 2 „ 244 13 46
Rëkalkönda Hill Platform	h.s. 78 18 28	Chintámul	No. 1 „ 296 35 19
Rájënmalle	h.s. 116 1 49		
Nallakönda Hill Building	161 24 3	Chintemeklapalli h.s.	
		Váyalpád Pagoda	103 34 11
Chinna Pándráka s.		Pulsanikönda Stone	104 20 11
Pëddapatnam Beacon	s. 2 48 37	Tumakönda	h.s. 108 41 46
Pëddapatnam	„ 24 53 59	Hoblesapuram Hill Platform	119 2 18
Naráyanapuram	„ 66 54 56	Gurramkönda	„ 128 43 46
Kurtivënu	„ 253 28 19	Yënnugöndapälëm Platform	137 50 22
Köttasaudi	„ 323 57 3	Bandapalli Platform	151 15 56
		Kalikiri Fort	163 31 36
Chinnapulivaru s.		Gundlúr Pagoda	173 55 56
Gudavali	s. 52 24 54	Narasimnaidpalli Platform	182 38 2
Peravali	„ 90 6 57	Gundalkönda	„ 198 40 31
Vilvol	„ 249 41 50	Pálamanda	„ 245 9 22
Pesar Lanka	„ 309 40 27		
Rachúr	No. 1 „ 359 35 49	Chirayánam s.	
		Kotapatnam	s. 54 4 43
Chinna Yachávaram h.s.		Köttapalli No. 2	„ 114 28 17
Lingamgunta	h.s. 16 18 6	Kátarkurru	„ 165 33 26
Yanagakönda	„ 50 13 59	Noth Kalwa	„ 215 0 23
Márkápúr Pagoda	„ 68 37 11		
Innaparati	„ 136 58 48	Chirku Lanka No. 1 s.	
Tirumaldevargudda Hill Pillar	150 34 0	Depu Lanka	s. 60 18 18
Turukönda Hill Peak	161 5 11	Chirku Lanka	No. 2 „ 140 19 19
Kuchërlakota Pagoda	174 27 2	Chirku Lanka	No. 3 „ 159 34 0
Dupád	s. 184 29 57	Mallávaram House	166 59 39
		Mallávaram Mol	„ 171 36 9
		Thirthalmundi Beacon	„ 257 36 58

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Chirku Lanka No. 1 s.—(Ctd.) ° ' "		Cocanada s.	
Bhairaswami Temple	283 9 28	Chöllangipet	s. 4 26 48 872
Másanatēppa	s. 301 13 52	Pēnugudúr	" 48 40 27 871
Balusutēppa	" 357 28 47	Revúr	" 98 4 28 869
		Rámesvaram No. 1	" 135 18 58 868
		Vákalapúdi	" 213 41 14 868
Chirku Lanka No. 2 s.		Cocanada Light-house	279 9 24 955
Chirku Lanka No. 3	s. 169 53 1		
Chirku Lanka No. 1	" 320 19 17	Coringa s.	
Balusutēppa	" 354 50 15	Manjer	s. 105 44 13 961
		Chöllangipet	" 175 40 34 962
Chirku Lanka No. 3 s.		Pattávála	" 180 58 7 961
Yanam Church	139 51 2	Coringa Light-house	265 15 47 963
Mallávaram Mol	s. 173 56 54		
Chirku Lanka No. 1	" 339 33 57	Cumbum s.	
Chirku Lanka No. 2	" 349 53 0	Mökshagundam	h.s. 23 20 31 869
		Pödillēkōndupalli	" 34 12 44 868
Chitvel s.		Víramkōnda	" 118 13 19 868
Malaimarapuram Platform	117 2 49	Yanagakōnda	" 227 15 37 870
Rámpur Hill Tree	247 22 36	Rávipád Pagoda	263 44 48 870
Bōmmavaram	h.s. 351 25 49		
		Dálgattu, LXV	
Chivalúr s.		Yērragattu, LXVI	31 31 27 20 81
Jampani	s. 4 41 55	Jammalavoidurgam, LXVII	107 8 46 75 82
Ádamaáb, X	85 38 40	Tiruvúr Temple	138 35 1 696
Pēddapalakalúr	h.s. 97 16 29	Kannigiri Hill Tree	152 9 2 694
Mangalagiri	No. 1 " 138 35 24	Inupráyi, LXIV	172 7 57 55 85
Sítanagaram Hill Pagoda	154 5 32	Bandanchērla, LXI	236 9 23 77 80
Bēzváda Hill Redoubt	157 2 50	Ragulpád	s. 252 2 31 684
		Malesvara Hill Temple	282 19 23 686
Chöllangipet s.		Muthianu	h.s. 301 46 48 687
Görripúdi	s. 65 34 54	Dudugat, LXIII	312 56 41 48 80
Pēnugudúr	" 127 41 10	Núzvid	s. 336 40 13 688
Revúr	" 148 59 42		
Cocanada	" 184 26 43	Dánapa, XIV	
Cocanada Flag-staff	189 22 0	Pēddakaltippa, XVII	62 57 18 01 23
Coringa Light-house	304 49 53	Yērrakōnda, XI	126 21 56 97 14
Pattávála	" 350 5 18	Kotapa, IX	204 34 37 57 14
Coringa	" 355 40 29	Babbēpalle, XIII	265 47 41 78 15
		Dharmavaram Hill (helio.)	288 25 27 266
Chundikōnda h.s.		Medaramētla, XV	340 56 21 76 19
Vinjamúrkōnda Platform	18 37 24		
Malakōnda Hill Pagoda	34 3 57	Dántákurru s.	
Udayagiri	h.s. 51 30 35	Kátarkurru	s. 42 59 27 890
Tellanillamalai	" 94 35 36	Pēdda Lanka	" 160 41 13 887
Kappakōnda Hill Platform	116 11 22	Kandikuppam	" 244 2 29 887
Lingamgunta	" 133 18 29	Masálikor Kalwa	" 306 53 59 888
Kanigiridrug Platform	142 10 38	Noth Kalwa	" 354 40 44 889
Pödilikōnda Hill Peak No. 1	161 46 59		
Pödilikōnda Hill Peak No. 2	161 53 40	Darutippa, XXV	
Pēnchalgōlkōnda	" 165 22 8	Kesavaram, XXVI	44 35 57 42 29
Andarankōnda Peak	168 56 19	Kuchērla, XXIV	110 3 51 70 28
Chandalúr	" 173 56 11	Machavaram Hill (heliotrope)	171 1 3 353
Kandulúr	" 228 5 56	Puripád, XXI	193 29 5 90 28
Singaráyakōnda Pagoda	261 45 56		
Kared	s. 268 30 43		
Siddhanakōnduru	h.s. 348 20 7		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Depu Lanka s.		Döngalkönda Beacon s.	
Kandikuppam s. 6 46 8	885	Pöntakota s. 40 32 24	886
Pödda Lanka " 47 7 37	886	Pöntakota Temple No. 2 55 32 52	846
Chirku Lanka No. 1 " 240 17 31	884	Sítarám Temple 89 41 54	844
Balusutöppa " 285 52 5	884	Sudikönda No. 8 h.s. 93 24 47	887
		Gunpúdi Hill Tree No. 2 97 36 45	841
		Gunpúdi Hill Tree No. 1 118 44 10	888
		Malráj " 170 55 0	886
Devaguptam s.		Dowlaisweram h.s.	
Kumáragiripatnam s. 14 31 18	899	Dowlaisweram Factory No. 2 27 4 27	676
Mögalmor " 70 28 52	900	Dowlaisweram Temple 50 11 11	678
Chalapalli " 246 13 34	898	Dowlaisweram Factory No. 1 136 50 51	673
Bámesvaram No. 2 " 314 34 12	898	Rajahmundry s. 145 26 47	672
		Sudikönda No. 2 h.s. 177 31 23	671
		Gurajalakönda " 236 29 46	671
Devarakönda h.s.		Dudugat, LXIII	
Amrabad h.s. 16 1 59	120	Göllapalli s. 37 14 43	691
Véñkatampet Hill Pagoda 168 7 27	147	Ágëripalli Hill Temple 61 12 3	698
Pálvoi Mosque 245 7 48	134	Yérragattu, LXVI 70 36 37 25	81
Ganpur Pagoda 260 18 30	182	Anamanthu " 95 55 44	690
Návalipur " 263 10 19	125	Núzvid " 101 59 26	689
Tirmallappanagutta " 273 50 26	120	Dálgattu, LXV 132 59 6 24	80
Yéllápur Hill Mark 286 46 42	137	Malesvara Hill Temple 138 59 11	686
		Muthianu h.s. 150 38 17	689
Dhár, XXXIX*		Ragulpád s. 186 43 21	684
Gundálamma, XLV 34 45 50 13	58	Bandanchërla, LXI 201 35 39 89	79
Pagulráyi XLVII 101 56 59 30	62	Mulagalampád h.s. 220 22 15	685
Sánjib, XLI* 315 34 22 14	58	Sudkönda, LIX 233 35 16 39	79
		Ellore s. 292 24 17	692
Dhúlipalla, VII		Dugarázipatnam s.	
Kotapa, IX 10 17 48 36	12	Gudali, XXXVIII 104 27 57	615
Mániam, VIII 73 27 43 89	9	Köndúr s. 145 20 19	615
Víravillipaya h.s. 104 7 59	156	Armeghon Light-house 333 29 26	616
Kachalboru, V 125 53 42 15	9		
Béllamkönda Rock 133 32 6	158	Dupád s.	
Chikri, LXXV 174 41 25 62	98	Chinna Yachávaram h.s. 4 30 9	284
Bhrugubanda Hill Temple 190 27 15	719	Kuchërlikota Pagoda 12 37 0	288
Krosúr Hill Pole 202 9 46	715	Tirumaldevargudda Hill Pillar 84 58 10	287
Voruvakallu, VI 204 6 36 03	11	Innaparati " 108 56 53	284
Lagadapád, LXXIII 248 45 27 36	96	Turukönda Hill Peak 126 21 54	286
Ádamsáb, X 313 8 2 82	16	Nallakönda Hill Mark 272 56 41	291
		Chandalúr " 297 21 41	285
Dindi No. 1 s.		Manganapúdi Hill Pagoda 344 27 6	290
Nizámpatnam Beacon s. 87 32 5	1066		
Ganamvanalapálém No. 2 " 172 52 49	1054	Dúpallepalle h.s.	
Adavaladevi " 239 8 11	1054	Návalipur h.s. 33 12 46	127
Köttapálém " 290 44 55	1055	Tirmallappanagutta " 353 1 21	127
Köttapálém Beacon " 292 29 31	1059		
Chápal Lanka " 324 7 36	1061	Durgappakönda h.s.	
		Katakönda h.s. 43 7 30	802
Dindi No. 2 s.		Péddachëru Hill Mark 70 11 32	246
Nizámpatnam Beacon s. 77 20 4	1067	Kölem " 121 43 18	804
Chápal Lanka " 309 17 56	1067	Amrabad " 138 31 31	149

* These stations appertain to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Durgappakōnda h.s.—(Contd.) ° ' "		Ganamvanalapālēm No. 1 s. ° ' "	
Gangadevi h.s. 182 55 52	151	Nizāmpatnam s. 68 18 33	1027
Yelesvaram Hill Pagoda 194 19 8	223	Pēddapalli " 102 50 13	1026
Tirmallappanagutta " 198 15 3	149	Muttapalli " 174 55 51	1025
Gōttipalle " 216 35 29	231	Mānteripālēm No. 1 " 241 50 10	1025
Swāmikōnda " 234 51 36	214		
Kakeral " 238 3 40	150	Ganamvanalapālēm No. 2 s.	
Sudikōnda No. 1 " 252 56 35	152	Mānteripālēm No. 2 s. 241 51 37	1053
Yērrakōndapālēm " 280 18 50	247	Adavaladevi " 298 8 32	1053
Innaparati " 330 12 57	245	Dindi No. 1 " 352 52 42	1054
Elangoi, LI		Ganapavaram s.	
Bikkavol s. 6 49 55	826	Karlapālēm s. 70 18 34	1031
Bikkavol Temple 8 34 18	866	Gudipūdi " 122 32 51	1030
Sudaghatu h.s. 63 55 14	827	Pittalavaripālēm " 191 43 50	1029
Nāwilmētta, LIII 89 18 51.64	69	Pēddapalli " 248 7 42	1028
Korukōnda Hill Temple 116 13 5	663	Nizāmpatnam " 284 2 10	1028
Parlakurru " 139 11 29	828		
Nallakōnda, L 156 19 10.98	68	Gangadevi h.s.	
Nāgal, XLVIII 199 55 41.02	68	Durgappakōnda h.s. 2 56 8	151
Tamarchēru s. 312 4 30	826	Vēnkatampet Hill Pagoda 150 31 29	148
		Tirmallappanagutta " 218 12 41	146
Ellore s.		Yelesvaram Hill Pagoda 245 15 28	222
Dudugat, LXIII h.s. 112 27 5	692	Mandadi Pagoda 277 35 17	226
Mulagalampād h.s. 170 8 38	692	Kakeral " 280 45 19	146
		Swāmikōnda " 294 8 21	212
Enilraidu h.s.		Gōttipalle " 301 22 51	232
Vijayanagaram s. 47 17 7	813	Sētakod Peak 304 8 31	234
Urakōnda Hill 228 59 13	854	Shakrāmakōnda Hill Mark 312 5 41	233
Urakōnda h.s. 237 43 31	811		
Pāmparām Temple 279 21 14	859	Gangadiakōnda h.s.	
Krishnapuram s. 298 25 24	811	Kōyakōnda Hill Pogoda 0 5 17	546
Vōntimamudi Temple No. 2 305 8 16	861	Chēttipalle Hill Pagoda 5 58 30	555
Vōntimamudi Temple No. 1 305 8 18	860	Kōyakōnda Stone 26 36 5	548
Vōntimamudi Beacon " 315 49 49	856	Bonamalai Hill Platform 39 29 28	560
Pērumāllapuram " 352 55 56	812	Nallakōnda Hill Building 69 49 39	550
		Rāyachoti Pagoda 112 24 3	531
Ērumaivēttipālaiyam s.		Abbavaram Pagoda 132 19 2	528
Chēmbedu s. 99 42 11	658	Ōdived Pagoda 150 10 44	529
Manjankaranai " 178 51 26	658	Hasanāpuram s. 158 49 11	521
		Virapalle Hill Pagoda 192 2 47	523
Faranguldinne, XVI		Sanipāya h.s. 228 53 9	520
Ongole, XVIII 42 12 5.73	21	Chintākuntabanda Pagoda 253 24 5	532
Medaramētta, XV 104 1 57.97	20	Rāyavaram s. 284 16 24	540
Babbēpalle, XIII 163 36 34.03	20	Sundupalle Pagoda 300 15 9	544
		Narsanagarpalle Pagoda 308 23 4	545
Gadimoge s.		Pulikōnda h.s. 335 0 22	520
Guttinādevi Temple 36 35 16	979		
Mallāvaram Mol s. 46 13 33	879	Gānugapēnta h.s.	
Yēdūr Lanka Tree Flag 47 3 25	977	Badvel s. 11 19 56	396
Georgepet Rice Mill No 2 90 15 54	969	Lankamalai h.s. 39 25 27	357
Georgepet Rice Mill No. 1 90 35 22	967	Chēnrāyakōnda Pagoda 51 38 4	395
Poilekurru " 103 2 0	878	Karadillakuppam Platform 88 16 7	394
Vēnkatapālēm " 144 29 54	878	Kodūr Hill Platform 95 52 28	390
Thirthalmundi Beacon " 327 6 56	880	Hauhoballam s. 130 38 29	357
		Forumāmilla " 148 0 58	384
		Singarāyakōnda h.s. 152 5 24	359
		Bairadevargudda Pagoda 155 9 6	389

Name of Station with Azimuths of surrounding Points	No. of Triangle giving distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Gánugapēta h.s.—(Contd.)		Gopuvaripālēm s.	
Gorlabod Hill Platform	178 3 11	Karmeda	s. 24 5 40 948
Tellanillamalai h.s.	184 23 38	Pōtapalli	" 67 16 15 947
Chiv Drug Hill Staff	267 52 56	Kōttapūdi	" 151 29 21 946
Yēddamura Hill Platform	323 47 44	Mariadibba	" 210 15 9 946
Mallimkōnda Hill Platform	326 51 38		
Yērrakōnda Hill Platform	335 13 58	Gorantla, LXXIV	
Urlabod Hill Platform	357 55 18	Ádamsáb, X	58 39 10 23 95
		Lagadapád, LXXIII	126 24 33 86 94
		Anantavaram, LXXI	174 15 19 85 94
Gátomalai s.		Mangalagiri Hill Temple	233 27 46 780
Surasaniyānam Beacon	s. 20 47 40	Mangalagiri No. 2 h.s.	233 32 27 997
Chalapalli	" 66 10 56	Mangalagiri Temple	234 12 29 728
Kōttapalli No. 2	" 215 31 0	Angalakudúr	s. 301 47 20 998
Kotapatnam	" 296 23 53	Manchala	" 331 52 14 999
		Guntúr No. 2	" 344 34 2 1044
Gavúravaram s.		Gorasa s.	
Bitragunta h.s.	2 27 2	Vákalapūdi Light-house	s. 0 19 57 868
Somavurapád	" 69 34 14	Timmapuram	" 38 48 39 819
Brahmankákra	s. 84 57 16	Iskapalli	" 214 26 55 817
Akkapālēm h.s.	177 25 59	Vuppada Beacon	" 278 50 0 862
Mungamuru	s. 293 13 13	Vuppada	" 278 51 43 817
		Nēman	" 341 52 46 818
Goganamátham No. 1 s.		Gōrripūdi s.	
Goganamátham No. 2	s. 36 33 39	Pēnugudúr	s. 179 22 53 878
Mōgalmor	" 228 6 26	Chōllangipet	" 245 34 16 878
Kumáragiripatnam	" 276 48 5	Pattávála	" 291 44 43 874
Wárreo Beacon	" 353 15 34	Manjer	" 359 33 46 875
Goganamátham No. 2 s.		Gōttipád s.	
Kēsanapalli No. 1	s. 7 21 51	Babbēpalle, XIII	38 45 46 262
Kēsanapalli No. 2	" 70 27 40	Pálapáru, XII	268 47 12 262
Goganamátham No. 1	" 216 33 19		
Wárreo Beacon	" 276 8 46	Gōttipalle h.s.	
Gōllapālēm s.		Durgappakōnda	h.s. 36 39 1 231
Tadivēnu	s. 82 9 16	Gangadevi	" 121 26 7 232
Lakshnipuram	" 155 3 45	Swámikōnda	" 283 16 31 231
Losári	" 216 18 35		
Pátópád	" 257 10 3	Gováda s.	
Gōllapalli s.		Bodapod	s. 94 30 39 1002
Anamanthu	s. 150 21 27	Alapád	" 157 17 48 1002
Dudugat, LXIII	217 14 8	Peravali	" 223 22 8 1003
		Gudavali	" 281 35 10 1004
Gondi s.		Gudali, XXXVIII	
Antravedi No. 6	s. 4 44 43	Ánēpūdi, XXXIX	6 59 22 89 50
Vamaldevi	" 46 46 4	Kambákamdurgam, XLI	19 6 31 83 618
Bhairapālēm	" 115 45 24	Vojili Bungalow	81 54 8 441
Lachmanesvaram Temple	" 136 12 36	Gurramkōnda, XXXVII	87 38 2 23 49
Antravedi No. 4	" 298 28 4	Gúdúr Bungalow	127 0 58 431
Antravedi Temple	350 12 57	Kálavakōnda No. 2 h.s.	151 12 23 434
		Narasimhakōnda	" 162 36 34 437
		Bandalduru, XXXIV	164 1 50 24 49

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Gudali, XXXVIII—(Contd.) ° ' "		Gundalkönda h.s.—(Contd.) ° ' "	
Ballvol s. 197 46 23	607	Nallakönda Hill Building 137 5 50	549
Krishnapatnam Beacon „ 203 11 56	487	Sanipáya h.s. 192 22 6	514
Lellapálém „ 219 33 4	610	Budthaid „ 235 5 8	513
Úttamanéllúr „ 233 1 24	608	Marellakönda Hill Platform „ 236 31 9	556
Köttapatnam Beacon „ 236 12 23	627	Sattevaripálém „ 286 22 55	513
Puchalapalle „ 255 51 47	613	Piler s. 327 26 35	576
Köndúr „ 274 4 4	614		
Dugarápatnam „ 284 25 55	615		
Arneghon Light-house 304 48 46	616		
		Gundla Brahmesvaram h.s.	
Gudali h.s.		Siddhapur h.s. 174 8 53	307
Rösánúr h.s. 35 22 58	603	Katalkönda „ 210 56 12	306
Ikalseri „ 90 29 19	603	Viramkönda „ 267 22 44	306
Allikönda „ 138 2 12	604		
Dugarápatnam Sand-hill 287 22 27	628	Gunigat h.s.	
Mallam s. 304 40 27	624	Urulkönda Hill Building 32 45 27	105
Pantrungam „ 321 44 28	621	Kándágotla, XII* 72 24 11	99
Togaramúdi 353 45 38	629	Khamam Hill Fort 309 34 4	103
		Anantagiri h.s. 354 51 36	99
Gudavali s.			
Gováda s. 101 36 9	1004	Gunpúdi s.	
Peravali „ 163 41 12	1004	Kumárapur No. 1 s. 58 38 24	808
Chinnapulivaru „ 232 23 40	1005	Lokarup h.s. 105 44 28	807
Rachúr No. 1 „ 287 36 52	1006	Malraj „ 187 23 33	806
		Rájipet „ 241 5 16	806
Gudipúdi s.			
Karlapálém s. 13 17 33	1031	Guntúr Base-line N. End s.	
Appikatla „ 78 42 58	1032	Guntúr Base-line S. End s. 45 32 55	182
Pittalavaripálém „ 257 34 11	1030	Péddapalakalúr h.s. 97 3 49	181
Ganapavaram „ 302 31 54	1030	Vejélla s. 335 12 17	181
Gumlúr h.s.		Guntúr Base-line S. End s.	
Rájipet h.s. 1 27 21	805	Péddapalakalúr h.s. 134 23 10	182
Nakkapilli Temple 18 10 41	830	Guntúr Base-line N. End s. 225 32 1	182
Malraj „ 63 45 57	805	Vejélla „ 286 11 25	183
Gundálamma, XLV		Guntúr No. 1 s.	
Kappakönda Hill Mark 21 29 41	661	Ádamsáb, X 74 56 17	1043
Nágul, XLVIII 39 42 27 28	60	Anantavaram, LXXI 172 29 57	1042
Kalimámidi, XLIX 105 7 5 36	61	Mangalagiri No. 2 h.s. 219 15 35	1042
Pagulráyi, XLVII 165 4 6 35	62		
Dhár, XXXIX* 214 43 5 45	58		
Sánjib, XLI* 270 20 3 22	58		
Kappakönda, XLVI 322 6 3 73	59	Guntúr No. 2 s.	
		Ádamsáb, X 75 36 5	1044
Gundalkönda h.s.		Gorantla, LXXIV 164 34 16	1044
Chintemeklapalli h.s. 18 41 36	559	Mangalagiri No. 2 h.s. 218 29 55	1045
Narasimnaidpalli Platform 32 19 3	575		
Hoblespuram Hill Platform 58 45 49	570	Guraigunta h.s.	
Pulsanikönda Stone 68 17 27	571	Lachmipuram s. 2 43 55	759
Tunakönda „ 73 42 14	558	Pájarla-péddatéppa h.s. 173 41 43	761
Yénnugöndapálém Platform 87 13 34	563	Téttu „ 253 10 25	760
Bandapalli Platform 89 22 40	565	Téttu Hill Temple 253 16 39	769
Gundlúr Pagoda 89 40 2	567	Rámapatnam Church 267 45 1	767
Rajénmalle „ 130 47 34	515	Yélúrpád s. 307 43 30	759

* These stations appertain to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Gurajalakōnda h.s.		Ikalseri h.s.—(Contd.)	
Dowlaishweram Factory No. 2	46 12 51	Budthaid	h.s. 71 51 40
Dowlaishweram Temple	54 9 4	Sanipáya	103 25 15
Dowlaishweram	h.s. 56 30 26	Vattalúr	104 48 55
Dowlaishweram Factory No. 1	75 50 28	Karakōnda	165 48 41
Rajahmundry	s. 106 28 52	Allikōnda	214 31 34
Sudikōnda No. 2	h.s. 140 0 51	Kálavakōnda	No. 1 259 33 27
Milaramētta	148 42 16	Gudali	270 20 52
Náwilmētta, LIII	204 11 55	Tirthampád Choultry	273 54 12
		Kayyúr	274 16 36
		Rōsanúr	293 16 24
		Pulicat Church	305 11 29
		Yerpet	339 39 37
		Nagari, XXXIII*	346 35 50
Gurramkōnda, XXXVII			
Pillimedu, XL	37 0 29 18	Innaparati h.s.	
Vēnkatagiri Temple	76 22 1	Víramkōnda	h.s. 20 8 41
Kayyúr, XXXVI	89 42 57 60	Esvarakuppam Hill Peak	37 4 53
Kannakōndarāyan Temple	130 52 7	Katakōnda	55 12 52
Saidápuram Hill Mark	149 40 15	Pēddachēru Hill Mark	89 27 7
Vutukúr, XXXIII	151 19 47 04	Durgappakōnda	150 14 0
Gúdúr Bungalow	186 8 56	Vēnkatārēddipálēm Pagoda	234 46 55
Bandalduru, XXXIV	198 42 15 98	Sudikōnda No. 1	245 35 59
Kálavakōnda	No. 2 h.s. 230 10 45	Yērrakōndapálēm	258 30 6
Gudali, XXXVIII	267 35 21 39	Dupád	s. 288 53 14
Gudali Hill Temple	267 43 5	Chandalúr	h.s. 293 30 3
Vojili Bungalow	276 21 50	Chinna Yachávaram	316 55 21
Ánēpúdi, XXXIX	323 2 22 41	Lingamgunta	341 26 14
		Yēllikōnda	349 2 18
Gurramkōnda h.s.			
Tumakōnda	h.s. 6 22 4	Inupráyi, LXIV	
Chintemeklapalli	308 40 45	Jammalavoidurgam, LXVII	44 50 42 76
Tarigōnda Fort	334 14 35	Tiruvúr Temple	83 31 59
Váyalpád Pagoda	342 54 59	Kannigiri Hill Tree	134 34 1
Pulsanikōnda Stone	357 10 6	Nágaldurgam, LXII	216 25 42 99
		Bandanchērla, LXI	283 7 2 99
		Dálgattu, LXV	352 7 22 38
Guttikōnda h.s.			
Karempúdi	h.s. 72 33 11	Irakam s.	
Karempúdi Fort	96 33 45	Igavaripálēm	33 6 29
Dácheppalle Fort	149 42 38	Arambákam	s. 78 7 59
Sárangapalle	162 8 8	Kambákamdurgam	h.s. 96 8 39
Víravillipaya	255 3 49	Andagundala	s. 120 56 9
		Rōsanúr	h.s. 139 7 17
		Polúr Pagoda	139 18 33
		Venád Tree	171 37 19
		Tēttupet	s. 247 5 22
Hasanápuram s.			
Bandapalli Hill Pagoda	35 49 30	Iskapalli s.	
Rajēnmalle	h.s. 37 45 59	Gorasa	s. 34 27 29
Chinna Ubuledevarakōnda Pagoda	119 56 4	Vijayanagaram	212 30 39
Nēlkurti	h.s. 133 15 21	Mulapet	276 47 39
Vírapalle Hill Pagoda	273 15 22	Vuppada Beacon	334 52 56
Sanipáya	278 57 20	Vuppada	334 56 18
Gangadiakōnda	338 48 23		
Kōyakōnda Hill Pagoda	345 28 49	Jaggagogula s.	
		Alimadugu	s. 46 41 59
Hauhoballam s.		Mungamuru	115 32 40
Singaráyakōnda	h.s. 271 5 55	Koladinne	182 24 52
Gánugapēnta	310 33 50	Juvaldinne	243 25 15
Lankamalai	340 57 13		
Ikalseri h.s.			
Tallarapet	h.s. 23 19 4		
Yērraguntlakota	s. 68 51 44		

* This station appertains to the Madras Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Jaggayapálém Beacon s.		Jujúrdurgam, LXVIII	
Medaramēṭla, XV	82 38 12	Tadikōnda Hill Pagoda	3 26 47 726
Babbēpalle, XIII	124 52 24	Anantavaram Temple	9 43 57 724
		Anantavaram, LXXI	12 28 58·96 89
Jammalapálém s.		Amarāvati Temple No. 2	39 27 25 722
Murukōndapád	s. 39 7 31	Amarāvati Temple No. 1	39 36 19 720
Kotapapálém	„ 113 41 14	Chintalapád Temple	75 20 30 714
Appikatla	„ 273 39 36	Chintalapád, LXXII	78 42 54·24 90
Bápatla	„ 343 53 53	Rághavapuram	h.s. 113 31 26 704
		Jōnnalagadda, LXX	136 7 36·55 91
Jammalavoidurgam, LXVII		Jammalavoidurgam, LXVII	205 55 53·97 87
Jujúrdurgam, LXVIII	25 58 5·16 87	Yērragattu, LXVI	279 38 31·39 87
Jōnnalagadda, LXX	70 29 35·17 91	Kōndúr Hill Pole	286 59 52 699
Kannigiri Hill Tree	176 46 2 693	Kōndapalli Hill Fort	321 23 19 701
Tiruvúr Temple	184 30 19 695	Bēzvāda, LXIX	324 3 40·61 88
Inupráyi, LXIV	224 47 37·10 86		
Dálgattu, LXV	287 5 7·32 82	Juvaldinne s.	
Yērragattu, LXVI	346 31 14·20 82	Jaggagogula	s. 63 25 30 744
		Koladinne	„ 117 21 54 744
Jampani s.		Anagaripálém	„ 194 54 23 745
Ádamsáb, X	No. 1 h.s. 98 34 49	Vadapálém	„ 252 55 20 746
Mangalagiri	s. 152 33 45		
Chivalúr	s. 184 41 47	Kachalboru, V	
		Mániam, VIII	33 21 14·14 8
Jēndaltēppa h.s.		Sárangapalle, IV	130 5 42·78 7
Pájarla-pēddatēppa	h.s. 60 37 35 762	Miádursál, III	202 31 33·87 7
Pátapálém	s. 285 27 11 763	Voruvakallu, VI	245 59 36·61 10
Rámapatnam Beacon	„ 298 54 27 765	Dhúlipalla, VII	305 51 45·97 9
Rámapatnam Church	327 10 20 768		
Tēttu Hill Temple	356 29 5 770	Kaikavol s.	
Tēttu	h.s. 356 33 31 762	Bikkavol	s. 105 1 27 825
		Tamarchēru	„ 169 50 47 824
Jinjer s.		Rámesvaram No. 1	„ 237 39 51 824
Kakarlamúdi	s. 50 0 13 943		
Náráyanapuram	„ 215 23 56 941	Kákalkōnda h.s.	
Pēddapatnam	„ 252 37 27 941	Munikōnda Hill Pagoda	13 33 31 489
Tállapálém	„ 346 22 55 942	Ákepád Hill Platform	40 13 33 490
		Nandalúr Pagoda	41 18 41 479
Jonangipálém, XLII		Sanipáya	h.s. 49 25 6 449
Rēttambedu, XLIV	5 42 45·61 56	Kōttakōnda Hill Platform	80 38 3 477
Kambákamdurgam, XLI	77 52 35·87 55	Nēlkurti	„ 90 15 19 448
Ánēpúdi, XXXIX	130 13 45·89 55	Pōttúr Hill Platform	90 17 43 476
		Sháhkalkōnda Hill Tree	104 29 14 475
Jōnnalagadda, LXX		Pallakōnda Hill Platform	116 22 46 470
Rághavapuram	h.s. 0 4 39 705	Chērlakōnda Hill Platform	120 11 46 473
Nandigáma Temple	17 14 36 710	Bagarapet Hill Peak	127 37 36 466
Chintalapád, LXXII	18 1 38·57 92	Mangampet	h.s. 132 16 44 455
Nandigáma Bungalow	18 11 24 711	Jotel Hill Platform	144 52 28 463
Kōngramalai Hill Temple	97 7 4 707	Lankamalai	„ 148 20 24 448
Tirumalagiri Hill Temple	109 21 53 706	Nathelmalai	„ 148 22 41 457
Jammalavoidurgam, LXVII	250 24 42·75 91	Virurkōnda Hill Platform	168 35 34 459
Rámirēddipalli Village	289 57 43 708	Malinenipatnam Platform	170 58 32 454
Kúdali Temple	304 0 11 709	Yērrakōnda Hill Platform	196 13 24 452
Jujúrdurgam, LXVIII	316 4 57·05 91	Mallimkōnda Hill Platform	202 8 39 450
Juzzúr House	318 57 52 712	Rámpur Hill Tree	284 14 43 491
		Malaimarapuram Platform	308 26 11 495
		Úttukúr Hill Platform	336 4 52 498
		Attirála Hill Pagoda	341 3 47 486
		Vattalúr	h.s. 350 2 33 483

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Kakarlamúdi s.		Kálipatnam s.	
Köttapúdi s. 28 6 39	945	Pátópád s. 42 13 43	929
Jinjer " 229 59 40	943	Lozári " 81 21 47	930
Tállapálém " 273 18 33	943	Mutiyálpalli " 261 10 24	928
Mariadibba " 338 10 33	944	Sámaldevi " 301 53 23	928
Kakeral h.s.		Kambákamdurgam, XLI	
Sétakod Peak 38 26 59	234	Nagari, XXXIII* 53 14 49 24	58
Durgappakōnda h.s. 58 11 59	150	Yerpet, XLIII 116 6 16 05	52
Swámikōnda " 67 17 44	213	Kálahasti Pagoda 137 54 29	633
Mutukúr Pagoda 100 28 37	230	Pillimedu, XL 152 54 26 62	51
Gangadevi " 100 53 22	146	Gudali, XXXVIII 199 4 16 50	618
Pōtlavid Pagoda 102 14 25	228	Ánēpúdi, XXXIX 208 49 7 82	51
Mandadi Pagoda 105 57 20	227	Arneghon Light-house 226 24 29	618
Kōlagotta Pagoda 117 43 25	229	Jonangipálém, XLII 257 47 57 51	55
Machērla Pagoda 128 28 21	225	Pulicat Light-house 288 39 33	655
Tirmallappanagutta h.s. 139 43 45	145	Rēttambedu, XLIV 294 50 49 54	56
Tumurukota Mosque 148 8 14	216	Chēmbedu, XXXV* 340 18 30 54	54
Mauchikōllu Pagoda 158 23 37	221		
Madugala Hill Pagoda 173 4 27	219	Kambákamdurgam h.s.	
Sárangapalle " 206 39 55	145	Nagari, XXXIII* 53 15 29	647
Melavog Pagoda 274 29 29	238	Sadasivapuramkōnda h.s. 75 32 15	650
Gummadampád Fort 303 4 25	239	Yerpet " 118 39 47	619
Sudikōnda No. 1 " 318 14 6	152	Kálahasti " 138 45 51	634
Bēmidichērla Pagoda 322 46 35	240	Rōsanúr " 185 8 28	619
		Mullam s. 212 48 19	623
		Polúr Pagoda 225 22 53	638
		Pantrangam " 232 45 33	620
		Andagundala " 249 14 12	640
		Rámanappa Chattram 249 58 33	646
		Khasubakuppam Mosque 251 36 44	641
		Jonangipálém Mosque 257 4 59	642
		Tēttupet " 267 31 33	643
		Irakam " 276 4 42	637
		Pulicat Church 289 29 48	656
		Ígavaripálém 304 6 12	653
		Satyaved h.s. 335 6 25	651
		Pundi Pagoda 357 36 38	660
Kálahasti h.s.		Kándágatla, XII†	
Tōndamanád Pagoda 42 2 5	636	Súrayapet Mosque 0 36 38	112
Yerpet h.s. 86 22 58	635	Nalgonda h.s. 56 19 27	114
Rōsanúr " 245 35 56	634	Udagat " 83 0 42	111
Kambákamdurgam " 318 43 34	634	Kandikōnda Hill Pagoda 239 16 51	101
		Gunigat " 252 18 5	99
		Adáligat, XV† 254 48 12 26	1
		Anantagiri, I 303 51 53 27	3
		Anantagiri " 303 53 0	99
		Sirkōnda Hill Building 304 33 37	106
		Níálamari, II 339 27 26 29	1
		Undurgōnda Hill Building 343 55 35	110
		Machavaram Pagoda 345 55 17	113
Kálavakōnda No. 1 h.s.		Kalimámididi, XLIX	
Rōsanúr h.s. 15 11 29	595	Nallakōnda, L 29 45 35 15	64
Kadived Fort 53 12 7	599	Kappa, LII 73 30 59 11	65
Ikalseri " 79 41 7	433	Pagulráyi, XLVII 213 20 28 73	63
Kaunnakōndaráyan " 83 14 42	598	Gundálamma, XLV 285 3 19 65	61
Gulimichērla Pagoda 112 49 50	438	Kappakōnda Hill Mark 325 18 1	662
Allikōnda " 134 7 44	433	Nágal, XLVIII 344 23 17 59	61
Kálavakōnda No. 2 h.s.		Kandikuppam s.	
Gurramkōnda, XXXVII 50 12 38	434	Masálkor Kalwa s. 11 16 56	888
Narasimhakōnda h.s. 166 11 41	436	Dántákurru " 64 2 53	887
Bandalduru, XXXIV 171 34 50	435	Pēdda Lanka " 115 15 57	886
Krishnapatnam Beacon s. 223 45 13	436	Depu Lanka " 186 46 2	885
Ballavol " 271 23 56	607	Balusutēppa " 233 38 30	885
Gudali, XXXVIII 331 11 35	434		

* These stations appertain to the Madras Longitudinal Series.

† These stations appertain to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Kandikuppam s.—(Contd.)		Kared s.	
Kotapálém Temple	269 46 41	984	Chundikönda h.s. 88 36 56
Kotapálém Beacon	273 59 48	988	Singaráyakönda Pagoda 125 36 15
			Kandulúr " 158 8 26
			Ongole Hill Mark 171 56 37
Kandulúr h.s.		Karempúdi h.s.	
Malakönda Hill Pagoda	45 30 45	400	Vinukönda Hill Pagoda 2 24 16
Chundikönda h.s.	48 10 33	309	Sudikönda No. 1 h.s. 16 56 21
Pénchalgölkönda "	69 20 32	350	Rémidichéría Pagoda 40 35 13
Andrankönda Peak "	93 44 43	346	Tumurukota Flag-staff 119 21 33
Pödilikönda Hill Peak No. 2	95 30 16	345	Tumurukota Mosque 122 37 49
Pödilikönda Hill Peak No. 1	101 47 4	344	Madugala Hill Pagoda 124 31 14
Konakanamétla "	110 37 54	318	Karempúdi Fort 152 10 19
Turukönda Hill Pagoda	130 51 15	316	Pulipád Fort 158 17 23
Chandalúr "	135 17 5	309	Pöndugala Pagoda 165 7 54
Chemakurti "	140 27 33	311	Wádapalle Mosque 165 19 56
Mangamúr Pagoda	170 45 47	330	Dáchépalle Fort 177 14 28
Yéndlúr Fort	173 35 51	329	Sárangapalle h.s. 182 2 47
Medaramétla, XV	184 37 32	310	Matsavaram Fort 212 16 43
Peranamitta "	193 12 14	325	Kamipalli Hill Pagoda 215 11 8
Ongole Hill Mark	223 4 37	336	Guttikönda " 252 31 41
Ongole Hill Pagoda	224 19 46	331	Viravillipaya " 254 3 39
Pellúr Fort	254 45 53	332	Tirumaldevargudda Pillar 357 27 15
Tangutúr Pagoda	329 15 52	337	
Kared s.	338 6 50	335	
Singaráyakönda Pagoda	347 36 36	342	
			Karlapálém s.
Kannaköndaráyan h.s.			Bápatla s. 90 36 58
Yerpet h.s.	28 53 30	597	Appikatla " 148 44 32
Kálavakönda No. 1 "	263 11 25	598	Gudipúdi " 193 17 18
Kadived Fort "	275 18 20	599	Ganapavaram " 250 17 22
Rösanúr "	331 6 54	597	
			Karmeda Beacon s.
Kanupur s.			Masulipatam No. 1 s. 38 20 51
Lellapálém s.	6 43 28	611	Masulipatam No. 2 " 82 17 51
Ballavol "	77 54 28	611	Chilakalapúdi " 112 24 50
Köttapatnam "	297 27 48	612	Karmeda " 204 21 10
			Karmeda s.
Kappa, LII			Karmeda Beacon s. 24 21 16
Pothkönda, LIV	24 19 48 47	66	Chilakalapúdi " 69 18 45
Kalimámidí, XLIX	253 26 17 39	65	Pötapalli " 140 31 7
Nallakönda, L	335 12 59 47	65	Gopuvaripálém " 204 5 30
			Katakönda h.s.
Kappakönda, XLVI			Gundla Brahmesvaram h.s. 30 57 56
Nágal, XLVIII	94 36 1 66	60	Siddhapur " 136 5 43
Kappakönda Hill Mark	100 54 16	661	Kölem " 173 53 25
Gundáamma, XLV	142 8 48 99	59	Durgappakönda " 223 3 36
Sánjib, XLI*	227 37 34 51	59	Innaparati " 235 7 55
			Víramkönda " 314 50 45
Karakönda h.s.			Kátarkurru s.
Sanipáya h.s.	47 47 32	446	Köttapalli No. 2 s. 66 47 20
Udayagiri "	173 16 37	402	Dántákurru " 222 59 2
Vinjamúrkönda Platform	214 12 55	403	Noth Kalwa " 283 35 55
Siddhanakönduru "	232 42 10	402	Chirayánam " 345 33 17
Allikönda "	283 17 23	409	
Ikalséri "	345 47 0	432	

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Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Kávali h.s.		Késanapalli No. 6 s.	
Zaladanki s. 37 15 10	753	Sankaraguptam No. 1 s. 27 55 25	910
Kóttapalli No. 1 „ 101 41 24	753	Sankaraguptam No. 2 „ 72 21 56	911
Sripuram „ 147 25 46	755	Késanapalli No. 4 „ 255 5 45	909
Madurupád h.s. 204 56 15	756	Késanapalli No. 5 „ 314 18 52	909
Akkapálém „ 349 10 3	754		
Kayyúr, XXXVI		Kesavaram, XXVI	
Vēnkatagiri Temple 52 1 9	445	Rájalli, XXVIII 44 48 18.67	35
Kóttakanama Pass Point No. 1 60 58 3	509	Chákalakōnda, XXVII 96 38 57.15	30
Vēnkatagiri Building 78 47 11	442	Kuchērla, XXIV 144 48 28.75	29
Pálchērla, XXXV 131 3 19.93	43	Darutippa, XXV 224 34 24.54	29
Pēnchalkōnda Hill Mark 139 13 13	428	Nishánbodu, XXIX 333 4 34.02	36
Vutukúr, XXXIII 191 44 39.16	43		
Saidápuram Hill Mark 201 45 56	430	Khamam h.s.	
Kannakōndaráyan Temple 225 11 23	439	Anantagiri, I 38 38 15	102
Gurramkōnda, XXXVII 269 40 23.58	44	Adáligat, XV* 120 50 44	102
Pillimedu, XL 340 31 12.16	45		
Kayyúr h.s.		Kistama, XXXI	
Yerpēt h.s. 22 38 19	601	Vutukúr, XXXIII 12 7 2.04	41
Ikalseri „ 94 19 45	601	Allikōnda Hill Mark (helio.) 39 45 37	408
Rōsanúr „ 307 37 47	602	Pallakōnda, XXXII 80 1 58.28	38
		Rájalli, XXVIII 151 35 25.81	37
Késanapalli No. 1 s.		Annasamudram Mosque 163 2 49	406
Késanapalli No. 3 s. 76 54 1	906	Sangam Temple 176 21 21	417
Késanapalli No. 2 „ 110 52 46	905	Sangamkōnda h.s. 177 48 41	414
Goganamátham No. 2 „ 187 21 49	904	Somavarapád „ 196 44 28	734
Wárreo Beacon „ 240 5 57	904	Jangal Vangol Temple 202 48 13	416
		Nishánbodu, XXIX 215 25 15.80	37
Késanapalli No. 2 s.		Narasimhakōnda „ 267 58 46	412
Késanapalli No. 3 s. 11 14 57	906	Narasimhakōnda Hill Temple 268 51 42	410
Késanapalli No. 4 „ 77 46 9	907	Bandalduru, XXXIV 310 22 23.90	47
Goganamátham No. 2 „ 250 27 15	905		
Késanapalli No. 1 „ 290 52 23	905	Kodúr s.	
		Vishvanáthapalli s. 152 46 23	1018
Késanapalli No. 3 s.		Pēddakona „ 227 25 35	1018
Késanapalli No. 5 s. 73 42 50	908	Point Divi „ 274 21 7	1019
Késanapalli No. 4 „ 126 8 9	907	Point Divi Light-house 274 22 48	1047
Késanapalli No. 2 „ 191 14 54	906		
Késanapalli No. 1 „ 256 53 35	906	Koladinne s.	
		Jaggagogula s. 2 24 53	743
Késanapalli No. 4 s.		Mungamuru „ 82 59 25	743
Késanapalli No. 5 s. 20 36 29	908	Anagaripálém „ 255 33 4	745
Késanapalli No. 6 „ 75 6 3	909	Juvaldinne „ 297 21 40	744
Késanapalli No. 2 „ 257 45 51	907		
Késanapalli No. 3 „ 306 7 54	907	Kölem h.s.	
		Amrabad h.s. 201 51 4	304
Késanapalli No. 5 s.		Durgappakōnda „ 301 38 0	304
Sankaraguptam No. 1 s. 79 55 49	910	Katakōnda „ 353 52 1	305
Késanapalli No. 6 „ 134 19 4	909		
Késanapalli No. 4 „ 200 36 23	908	Konakanamētla h.s.	
Késanapalli No. 3 „ 253 42 29	908	Lingamgunta h.s. 67 32 58	317
		Ambapuram Pagoda 172 35 51	323
		Donakōnda Pagoda 195 22 57	321
		Kurichedu Hill Pagoda 201 21 11	320
		Chandalúr Pagoda 216 40 15	322
		Chandalúr h.s. 223 41 44	317
		Bodikurapád Pagoda 263 8 44	324
		Kandulúr „ 290 29 45	318

* This station appertains to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Köndúr s.		Kothúr s.—(Contd.)	
Gudali, XXXVIII	94 5 50	Masulipatam No. 1 s.	171 57 33 954
Puchalapalle s.	131 57 33	Masulipatam Flag-staff	175 19 46 995
Dugarázipatnam	325 20 3	Borardibba	348 4 57 1021
Konijedu h.s.		Köttapálém Beacon s.	
Chemakurti, XIX	139 47 47	Dindi No. 1 s.	112 30 0 1059
Medaramētia, XV	186 45 31	Adavaladevi	203 19 35 1058
Ongole, XVIII	234 37 44	Köttapálém	288 59 46 1058
Pasamudra Beacon s.	320 19 23		
Singaráyakōnda Temple	346 4 34		
Kota Manchēru s.		Köttapálém s.	
Vishvanáthapalli s.	19 17 8	Chápal Lanka s.	2 6 4 1061
Sallapalli	78 4 3	Köttapálém Beacon	109 0 17 1058
Turkápálém	128 2 41	Dindi No. 1	110 45 55 1055
Pēddakona	314 26 10	Adavaladevi	166 2 11 1055
		Morlaguntla	239 59 5 1056
		Lankardibba	306 15 36 1060
Kotapa, IX		Köttapalli No. 1 s.	
Medaramētia, XV	4 9 3	Sripuram s.	234 1 39 755
Addanki h.s.	11 49 57	Kávali h.s.	281 40 45 753
Dánapa, XIV	24 36 20.48	Akkapálém	317 16 25 752
Gokanakōnda Hill Pagoda	39 3 4	Zaladanki s.	355 2 17 752
Chandalúr	47 35 25		
Yelchúr Hill Pagoda	54 8 26		
Yērrakōnda, XI	80 20 17.31		
Sudikōnda No. 1	105 5 53	Köttapalli No. 2 s.	
Mániam, VIII	145 39 21.57	Gátomalai s.	35 31 22 894
Ikkurru Hill Pagoda	152 26 49	Kátarkurru	246 46 48 892
Víravillipaya	173 15 20	Chirayánam	294 27 36 892
Narsaraōpet House (helio.)	189 7 33	Kotapatnam	353 30 12 893
Dhúlípalla, VII	190 16 55.11		
Narsaraōpet Palace	190 49 48		
Ádamsáb, X	247 10 10.26		
Nadēlla h.s.	262 21 29	Köttapatnam Beacon s.	
Pálapáru, XII	293 2 1.73	Gudali, XXXVIII	56 14 3 627
Pöppúdi	311 15 38	Lellapálém s.	102 49 36 626
Babbēpalle, XIII	336 22 18.82	Köttapatnam	135 47 14 626
Konidēna Hill Pagoda	355 20 28	Armeghon Light-house	340 50.32 627
Kotapapálém s.		Köttapatnam s.	
Upputúr s.	48 40 52	Lellapálém s.	68 15 21 612
Adusumilli	128 41 57	Kanupur	117 28 7 612
Jammalapálém	293 40 2	Köttapatnam Beacon	315 46 57 626
Murukōndapád	337 3 23		
Kotapatnam s.		Köttapúdi s.	
Surasaniyánam Beacon s.	59 15 20	Pötapalli s.	26 22 15 947
Gátomalai	116 24 20	Kakarlamúdi	208 6 24 945
Köttapalli No. 2	173 30 17	Mariadibba	250 2 16 945
Chirayánam	234 4 7	Gopuvaripálém	331 29 12 946
Kothúr s.		Köttasaudi s.	
Pēddakona s.	46 59 6	Pēddapatnam s.	71 50 46 939
Chinna Kona	99 23 54	Chinna Pándráka	143 57 28 938
Masulipatam Temple	140 4 52	Kurtivēnu	218 45 23 937
		Tēppa Pulipálém	249 28 3 937

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Kovúrtēppa h.s.		Lachmipuram, LV	
Muttukurrutēppa s. 11 52 1	428	Aupád, LVIII 56 21 20 11	76
Narasimhakōnda h.s. 73 24 39	428	Yēdlagattu, LVII 94 16 43 15	78
Nellore Temple 313 41 25	425	Adakōnda, LVI 158 36 35 17	71
Nellore Church 338 21 57	427	Pothkōnda, LIV 211 15 22 83	72
		Náwilmētta, LIII 259 45 21 01	71
Krishnapatnam Beacon s.		Lachmipuram s.	
Gudali, XXXVIII 23 13 47	437	Sripuram s. 20 26 57	757
Kálavakōnda No. 2 h.s. 43 47 53	436	Guraigunta h.s. 182 43 54	759
Narasimhakōnda " 122 2 45	436	Yēlúrpád s. 241 57 44	758
		Madurupád h.s. 339 45 55	757
Krishnapuram s.		Lagodapád, LXXIII	
Pērumállapuram s. 49 41 30	812	Dhúlipalla, VII 68 47 58 91	96
Enilraidu h.s. 118 26 41	811	Bhrugubanda Hill Temple 76 29 48	718
Urakōnda " 179 19 7	810	Bēllamkōnda Hill Mark (helio.) 94 25 18	717
Kumárapur No. 1 s. 234 45 54	810	Krosúr Hill Pole 116 37 1	715
		Chikri, LXXV 123 45 32 54	97
Kuchērla, XXIV		Chintalapád, LXXII 182 49 24 25	93
Chákalakōnda, XXVII 49 4 47 31	80	Anantavaram, LXXI 261 17 13 78	93
Malakōnda Hill Temple 108 54 25	854	Gorantla, LXXIV 306 21 7 71	94
Pichērla, XXIII 123 0 19 48	33	Ádamsáb, X 348 35 41 97	95
Netivaripálēm, XX 202 21 6 06	27		
Puripád, XXI 242 12 9 11	27	Lakshmipuram s.	
Machavaram Hill (helio.) 257 39 3	353	Tadivēnu s. 27 18 49	933
Darutippa, XXV 290 0 15 86	28	Sandála " 110 43 0	934
Kesavaram, XXVI 324 46 26 72	29	Losári " 261 19 52	932
		Góllapálēm " 335 3 34	932
Kumáragiripatnam s.		Lankamalai h.s.	
Wáreo Beacon s. 66 34 25	902	Nēlkurti h.s. 37 6 29	447
Goganamátham No. 1 " 96 49 3	901	Hauhoballam s. 160 59 16	357
Mógalmor " 131 51 58	900	Singaráyakōnda h.s. 181 52 5	385
Devaguptam " 194 31 6	899	Kodúr Hill Platform 191 2 54	390
Rámesvaram No. 2 " 246 33 25	899	Porumámilla s. 191 52 25	384
		Tellanillamalai h.s. 198 49 28	358
Kumárapur No. 1 s.		Chēnráyankōnda Pagoda 262 8 32	395
Krishnapuram s. 54 47 6	810	Gánugapēnta " 219 22 51	357
Urakōnda h.s. 117 58 41	809	Chiv Drug Hill Staff 230 9 14	392
Lokarup " 174 31 54	808	Badvel s. 238 28 42	396
Gunpúdi s. 238 37 1	808	Yēddamura Hill Platform 250 11 17	397
		Urlabod Hill Platform 255 56 21	398
Kumárapur No. 2 s.		Mallimkōnda Hill Platform 281 59 58	450
Vōntimamudi Beacon s. 52 38 32	855	Yērrakōnda Hill Platform 287 54 54	452
Urakōnda h.s. 119 1 44	831	Malinenipatnam Platform 310 54 54	454
Lokarup " 178 20 34	831	Kákalkōnda h.s. 328 17 3	448
Sudikōnda No. 3 " 209 9 12	834	Sanipáya " 355 34 10	447
Pēntakota s. 240 23 49	833		
Kurtivēnu s.		Lankardibba s.	
Kōttasaudi s. 38 46 6	937	Chápalmundi Beacon s. 15 50 18	1063
Chinna Pándráka " 73 29 27	938	Chápal Lanka " 69 56 43	1062
Sandála " 226 35 16	936	Kōttapálēm " 126 16 27	1060
Tēppa Pulipálēm " 308 29 33	936	Morlaguntla " 164 44 50	1060

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Lellapálēm s.		Malkapur h.s.	
Úttamanéllúr s. 17 26 2	609	Udagat h.s. 268 51 51	117
Gudali, XXXVIII 39 34 7	610	Uppalagutta " 330 35 18	117
Ballavol " 106 34 11	609		
Kanupur " 186 43 26	611		
Köttapatnam " 248 15 0	612		
Köttapatnam Beacon " 282 48 58	626		
		Mallam s.	
Lingamgunta h.s.		Kambákamdurgam h.s. 32 52 2	628
Tellanillamalai h.s. 27 22 9	355	Rösanúr " 61 33 0	622
Víramkönda " 104 45 57	299	Gudali " 124 41 45	624
Yanagakönda " 109 16 11	292	Néllipúdi Pagoda " 151 15 30	625
Kakarla Hill Pagoda 118 37 21	298	Dugarázpatnam Sand-hill 243 52 15	628
Singaráyan Hill Pagoda 122 20 55	297	Pantrangam s. 333 44 32	622
Esvarakuppam Hill Peak 136 0 1	301		
Turlapád Pagoda 149 26 28	296		
Innaparati h.s. 161 28 38	281	Mallávaram Mol s.	
Márkápúr Pagoda 175 32 11	294	Guttinádevi Temple 23 20 4	979
Chinna Yachávaram " 196 17 3	282	Yédúr Lanka Tree Flag 48 45 56	978
Chandalúr " 234 32 18	281	Yanam Church 102 0 33	974
Konakanamétla " 247 30 4	317	Mallávaram House 105 26 36	975
Kanigiridrug Platform 302 53 43	349	Poilekurre s. 151 17 8	879
Chundikönda " 313 12 3	308	Gadimoge " 226 13 0	879
		Thirthalmundi Beacon " 206 25 38	880
		Chirku Lanka No. 1 " 351 36 2	881
		Chirku Lanka No. 3 " 353 56 50	978
Lokarup h.s.		Malráj h.s.	
Urakönda Tree Flag 50 32 24	858	Péntakota s. 5 27 26	832
Urakönda h.s. 60 51 51	809	Gunpúdi " 7 23 46	806
Malráj " 235 12 53	807	Lokarup h.s. 55 14 36	807
Sudikönda No. 3 " 264 3 58	835	Gumlúr " 243 44 46	805
Gunpúdi Hill Tree No. 3 280 46 2	842	Nakkapilli Temple 270 35 8	830
Péntakota s. 283 41 40	832	Rájipet " 307 24 53	805
Gunpúdi " 285 42 58	807	Döngalkönda Beacon s. 350 54 49	836
Péntakota Temple No. 1 309 40 43	845		
Péntakota Flag-staff 312 4 10	850		
Péntakota Custom House 312 4 17	848		
Rájina Tree 320 35 54	853		
Kumárapur No. 1 s. 354 31 47	808		
Kumárapur No. 2 " 358 20 32	831		
		Manchala s.	
		Gorantla, LXXIV 151 53 53	999
		Angalakudúr s. 224 26 52	999
		Alapád " 283 24 43	1000
		Bodapod " 321 55 16	1001
Losári s.		Mangalagiri No. 1 h.s.	
Göllapálēm s. 36 18 56	931	Vejélla s. 9 40 24	174
Lakshmipuram " 81 20 24	932	Chérbrolu Pagoda 10 21 27	187
Kálipatnam " 261 21 7	930	Guntúr Mosque 41 11 28	185
Pátópád " 319 20 18	930	Ádamsáb, X 56 16 43	173
		Péddapalakalúr h.s. 59 27 56	177
		Lámkönda Stone 66 0 41	176
		Nidumukala Hill 91 10 7	175
		Víravillipaya " 91 48 3	172
		Rághavapuram " 143 9 22	172
		Bézváda Hill Redoubt 201 12 17	189
		Sítánagaram Hill Pagoda 206 21 8	190
		Sríkakulam Pagoda 312 32 12	195
		Chivalúr s. 318 33 3	179
		Bhattiprol " 329 18 43	193
		Jampani " 332 31 32	191
Madurupád h.s.			
Kávali h.s. 24 56 33	756		
Sripuram s. 68 10 32	756		
Lachmipuram " 159 46 9	757		
Yéllarpád " 191 56 38	758		
Maleshvar h.s.			
Nathelmalai h.s. 75 35 15	460		
Virurkönda Hill Platform 187 4 35	461		
Malinenipatnam Pagoda 193 49 45	462		
Malinenipatnam Platform 219 28 56	460		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Mangalagiri No. 2 h.s.		Mánteripálém No. 2 s.	
Guntúr No. 2 s. 38 31 55	1045	Ganamvanalapálém No. 2 s. 61 52 31	1053
Guntúr No. 1 " 39 17 37	1042	Rachúr No. 2 " 181 44 36	1049
Gorantla, LXXIV 53 34 41	997	Repalle " 221 4 41	1049
Anantavaram, LXXI 118 20 20	997	Mortola Temple " 265 9 5	1065
Angalakudúr " 348 27 2	998	Singupálém " 273 2 43	1050
		Pötumëraka " 311 55 21	1051
		Adavaladevi " 359 6 17	1052
Mangampet h.s.		Mariadibba s.	
Köttakönda Hill Platform 35 16 40	478	Gopuvaripálém s. 30 15 23	946
Chérlakönda Hill Platform 92 42 47	474	Köttapúdi " 70 2 39	945
Bagarapet Hill Peak 123 59 3	465	Kakarlamúdi " 158 10 41	944
Vöntimitta Pagoda 124 31 44	472	Tállapálém " 242 2 54	944
Jotel Hill Platform 155 44 17	464		
Taptévarpalle Hill Platform 156 32 56	469	Masálkor Kalwa s.	
Nathelmalai h.s. 169 6 22	458	Noth Kalwa s. 43 38 42	889
Malinenipatnam Platform 201 56 38	456	Dántakurru " 126 54 18	888
Yérrakönda Hill Platform 219 20 23	455	Kandikuppam " 191 16 51	888
Kákalkönda " 312 15 30	455	Kotapálém Temple 246 43 35	984
Sháhkalkönda Hill Tree 325 12 41	475		
Pöttúr Hill Platform 346 16 2	476	Másanatéppa s.	
		Kotapálém Beacon 26 29 8	982
Mániam, VIII		Balusutéppa s. 73 1 1	883
Yérrakönda, XI 31 51 11 51	13	Chirku Lanka No. 1 " 121 14 38	882
Sárangapalle, IV 159 27 58 79	8	Bhairaswámi Temple 198 3 38	981
Kachalboru, V 213 19 37 30	8	Thirthalmundi Beacon " 210 48 9	882
Béllamkönda Rock 225 12 50	153		
Viravillipaya h.s. 234 33 15	155	Masulipatam No. 1 s.	
Dhúlipalla, VII 253 24 11 57	9	Chinna Kona s. 53 30 41	953
Kotapa, IX 325 36 44 18	12	Masulipatam No. 2 " 152 18 59	952
		Chilakalapúdi " 198 46 43	951
Manjankaranai s.		Karmeda Beacon " 218 20 23	951
Chémbedu s. 84 44 40	658	Kothúr " 351 57 26	954
Satyaved h.s. 131 31 59	659		
Árani s. 159 5 16	659	Masulipatam No. 2 s.	
Érumaivéttipálaiyam " 358 51 25	658	Chinna Kona s. 28 31 29	953
		Karmeda Beacon " 262 17 7	952
Manjer s.		Masulipatam No. 1 " 332 18 43	952
Görripúdi s. 179 33 46	875		
Pattávála " 240 5 5	875	Mátharsála h.s.	
Coringa " 285 43 30	961	Kattevaram Pagoda 63 55 4	170
Coringa House 286 16 3	965	Sárangapalle h.s. 88 3 27	168
Véncatapálém " 293 24 6	876	Kollúr Mosque 111 50 18	169
Poilekurru " 331 53 33	877	Pulichintala " 178 7 22	167
Georgepet Rice Mill No. 2 336 16 19	970	Rághavapuram " 251 0 43	167
Georgepet Rice Mill No. 1 336 54 30	968		
		Medaraméttla, XV	
Mánteripálém No. 1 s.		Peranamitta h.s. 0 45 54	326
Ganamvanalapálém No. 1 s. 61 51 4	1025	Kandulúr " 4 38 21	310
Muttapalli " 114 27 16	1024	Konijedu " 6 46 5	334
Rachúr No. 1 " 181 45 11	1023	Mallávaram Hill Pagoda 17 23 38	278
Repalle " 221 5 5	1023	Chemakurti, XIX 57 26 49 31	22
		Chemakurti " 57 27 22	311
		Périyapálém Hill Pagoda 87 9 51	272

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Medaramēṭla, XV—(Contd.)		Morlaguntla s.	
Chandalūr h.s. 98 26 57	251	Kōttapālēm s. 59 59 40	1056
Pēddakaltippa, XVII 109 25 12 79	23	Adavaladevi „ 122 15 49	1056
Purimēṭta Hill Pagoda 131 47 37	267	Pōtumēraka „ 179 14 8	1057
Gokanakōnda Hill Pagoda 148 27 58	263	Lankardibba „ 344 44 34	1060
Addanki s. 157 36 58	313		
Dānapa, XIV 160 57 32 43	19	Mulagalampād h.s.	
Addanki h.s. 163 47 29	268	Dudugat, LXVII 40 24 26	685
Kotapa, IX 184 8 31	251	Ragulpād s. 108 11 29	685
Dharmavaram Hill (helio.) 184 45 29	265	Ellore „ 350 8 1	692
Pōppūdi „ 199 28 57	252		
Babbēpalle, XIII 209 6 14 79	19	Mulapet s.	
Jaggayapālēm Beacon s. 262 32 4	273	Vuppada s. 45 22 10	816
Faranguldinne, XVI 283 58 38 55	20	Iskapalli „ 96 48 57	815
Pēddaganjām Beacon „ 287 39 18	274	Vijayanagaram „ 162 39 5	814
Pātapād Beacon „ 320 11 24	276	Pērumāllapuram „ 224 0 30	814
Chedalavāda Pagoda 325 45 49	327		
Ongole, XVIII 352 4 3 57	21		
Miādarsāl, III		Mungamuru s.	
Kachalboru, V 22 32 57 54	7	Bitragunta h.s. 71 41 28	740
Sārangapalle, IV 87 36 35 56	5	Gavūravaram s. 113 13 51	740
Niālamari, II 135 21 26 13	6	Koladinne „ 262 58 59	743
Anantagiri, I 169 22 17 96	5	Jaggagogula „ 295 32 15	742
Voruvakallu, VI 316 24 34 15	10	Alimadugu „ 339 12 41	741
Milaramēṭta h.s.		Murukōndapād s.	
Raghudevapuram s. 131 59 28	667	Upputūr s. 105 14 24	1087
Pothkōnda, LIV 177 6 39	666	Kotapapālēm „ 157 3 56	1036
Nallakōnda, L 228 8 0	665	Jammalapālēm „ 219 6 52	1035
Nāwilmēṭta, LIII 303 10 3	665	Bāpatla „ 278 15 31	1035
Gurajalakōnda h.s. 328 40 41	670		
Sudikōnda No. 2 „ 333 44 27	668	Muthianu h.s.	
Mōgalmor s.		Anamanthu s. 23 31 22	690
Goganamātham No. 1 s. 48 6 51	901	Nūzvid „ 49 0 37	688
Devaguptam „ 250 28 7	900	Dālgattu, LXV „ 121 48 34	687
Kumāragiripatnam „ 311 51 25	900	Ragulpād „ 207 5 47	687
		Dudugat, LXIII 330 37 38	689
Mōgaltūr s.		Mutiypālpalli s.	
Pasaldevi s. 23 44 13	925	Sānaldevi s. 14 44 30	927
Mutiypālpalli „ 73 29 45	926	Kālipatnam „ 81 11 16	928
Bhairapālēm „ 310 14 41	925	Mōgaltūr „ 253 28 45	926
		Pasaldevi „ 290 4 21	926
Mōkshagundam h.s.		Muttapalli s.	
Rēddichērla h.s. 13 41 6	367	Pēddapalli s. 62 4 20	1026
Idamakallu Pagoda „ 20 4 45	378	Rachūr No. 1 „ 227 43 37	1024
Pōdillēkōndupalli „ 50 26 9	367	Mānteripālēm No. 1 „ 294 26 17	1024
Giddalūr Hill Pagoda 65 31 17	374	Ganamvanalapālēm No. 1 „ 354 55 46	1025
Satyavol Pagoda 69 8 43	373		
Palakavid Pagoda 133 14 57	371	Muttukurrutēppa s.	
Cumbum s. 203 19 30	369	Bandaluru, XXXIV 7 22 32	422
Ankalamman Hill Peak 337 46 47	376	Narasimhakōnda h.s. 120 49 40	422
Molakalapūdi s.		Kovūrṭēppa „ 191 51 48	423
Rōsanūr h.s. 57 5 54	630	Nellore Temple 215 3 29	425
Mizār Pagoda 324 1 54	631	Nellore Church 228 2 5	427
Togaramūdi 334 28 4	630		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Nadëlla h.s.		Námalpet h.s.	
Pöppüdi h.s. 29 4 35	253	Pëddadrug h.s. 7 14 31	582
Konidëna Hill Pagoda 39 41 56	261	Chandragiri s. 46 42 42	585
Yelchúr Hill Pagoda 69 3 59	258	Nágápatla Pagoda 78 13 23	580
Kotapa, IX 82 23 58	253	Sattevaripálëm h.s. 97 24 16	588
Ikkurru Hill Pagoda 105 25 40	257	Tallarapet " 141 27 13	582
Narsaraöpet Palace 117 5 49	255		
Ádamsáb, X 229 39 30	254		
Nágal, XLVIII		Narasimbakönda h.s.	
Elangoi, LI 19 57 42.54	68	Kistama, XXXI 88 0 38	412
Nallakönda, L 76 5 21.04	64	Sangamkönda h.s. 139 13 47	414
Kalimámidí, XLIX 164 24 26.82	61	Somavarapád " 176 20 48	738
Gundáamma, XLV 219 39 52.06	60	Bitragunta " 195 42 49	785
Kappakönda, XLVI 274 30 42.76	60	Pënner Beacon 247 45 59	419
		Kovúrtëppa " 253 23 21	423
		Nellore Temple 266 31 48	424
		Nellore Church 278 28 2	426
		Muttukurrutëppa s. 300 48 35	422
Nágaldurgam, LXII		Krishnapatnam Beacon " 301 58 48	436
Inupráyi LXIV 36 28 29.94	84	Bandalduru, XXXIV 340 1 51	412
Parampüdi, LX 294 7 20.53	83	Gudali, XXXVIII 342 34 29	437
Bandanchërla, LXI 334 10 5.41	88	Kálavakönda No. 2 h.s. 346 10 24	436
Nagari, XXXIII*		Náráyanapuram s.	
Tirupati No. 1 Temple 145 20 22	589	Jinjer s. 35 24 30	941
Allimailangavaram Pagoda 148 30 28	649	Chinna Pándráka " 246 54 14	940
Tirupati Railway Station 161 21 3	588	Pëddapatnam Beacon " 307 24 40	998
Ikalseri h.s. 166 38 5	648	Pëddapatnam " 329 30 14	940
Yerpet " 172 15 46	647		
Yerpet, XLIII 175 6 5.97	53		
Kambákamdurgam, XLI 233 11 5.63	58		
Kambákamdurgam " 233 11 42	647		
Satyaved " 261 0 16	651		
Pulicat Light-house 266 38 47	655	Nathelmalai h.s.	
Pulicat Church 266 52 27	656	Vöntimitta Pagoda 17 32 10	472
Chëmbedu, XXXV* 288 6 35.92	54	Chërlakönda Hill Platform 22 13 56	478
Chëmbedu s. 288 9 9	652	Taptëvarpalle Hill Platform 49 35 55	469
Pundi Pagoda 301 16 58	660	Bagarapet Hill Peak 86 48 45	465
		Siddhavattam s. 98 3 30	467
		Jotel Hill Platform 131 1 43	464
		Virurkönda Hill Platform 214 23 5	459
		Malinenipatnam Pagoda 232 6 54	462
		Malinenipatnam Platform 239 16 3	457
		Maleshvar h.s. 255 34 35	460
		Kákalkönda " 328 21 12	457
		Mangampet " 349 6 7	458
Nalgonda h.s.		Návalipur h.s.	
Návalipur h.s. 16 17 3	126	Devarakönda h.s. 83 13 54	125
Samalpalle Hill Mark 54 41 19	123	Ganpur Pagoda 98 12 3	132
Uppalagutta " 87 43 16	116	Pálvoi Mosque 100 43 46	134
Náráyanpur Hill Building 105 56 41	118	Nalgonda " 196 15 37	126
Appajipet Mosque 132 8 22	121	Dúpallepalle " 203 10 51	127
Udagat " 159 26 13	114	Yëllammagúdëm Fort 212 47 56	128
Kándágatla, XII† 236 12 58	114	Lingampalle Turret 249 21 23	129
Niálamari, II 274 5 18	115	Perúr Fort 261 40 46	130
Tirmallappanagutta " 352 51 58	119	Halval Fort 264 48 28	131
		Tirmallappanagutta h.s. 289 49 3	125
		Sangavaram Turret 314 51 28	135
		Yëllápur Hill Mark 340 49 45	138
		Pötánúr Choultry 341 35 36	136
Nallakönda, L			
Náwilmëtta, LIII 17 46 40.40	67		
Korukönda Hill Temple 42 57 7	663		
Milaramëtta h.s. 48 11 37	665		
Pothkönda, LIV 78 21 40.60	66		
Kappa, LII 155 14 43.23	65		
Kalimámidí, XLIX 209 42 38.97	64		
Nágal, XLVII 256 1 17.24	64		
Elangoi, LI 336 17 10.57	68		

* These stations appertain to the Madras Longitudinal Series.

† This station appertains to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Náwilmëtta, LIII		Nishánbodu, XXIX	
Gurajalakönda h.s. 24 12 28	669	Kistama, XXXI 35 27 56.43	87
Sudikönda No. 2 " 74 48 58	668	Jangal Vangol Temple 48 17 30	415
Lachmipuram, LV " 79 50 27.25	71	Rájulli, XXVIII 92 17 21.79	86
Adakönda, LVI 115 41 28.92	70	Kesavaram, XXVI 153 6 17.17	86
Milaramëtta " 123 12 11	665		
Pothkönda, LIV " 149 42 11.05	67	Nishánkönda, XXII	
Nallakönda, L " 197 45 11.67	67	Pichërla, XXIII 10 32 5.13	82
Parlakurru " 210 38 56	829	Pödili Pillar 203 27 54	280
Elangoi, LI 269 15 23.98	69	Chemakurti, XIX 246 38 9.09	81
		Netivaripälëm, XX 301 35 16.14	81
Nëlkurti h.s.		Nizámpatnam Beacon s.	
Rajënmalle h.s. 1 45 4	512	Dindi No. 2 s. 257 19 29	1067
Bujanmalai Stone 6 52 15	534	Dindi No. 1 " 267 30 44	1066
Lankamalai " 217 2 12	447	Chápal Lanka " 298 54 22	1066
Pallakönda Hill Platform 244 47 22	471		
Kákkalkönda " 270 7 41	448	Nizámpatnam s.	
Sanipáya " 296 54 1	447	Ganapavaram s. 104 3 24	1028
Hasanápura s. 313 13 12	516	Pëddapalli " 174 39 31	1027
Matla Pagoda 316 22 34	527	Ganamvanalapälëm No. 1 " 248 17 20	1027
Bandapalli Hill Pagoda 325 42 27	526		
Pulikönda h.s. 326 23 0	518	Noth Kalwa s.	
Chinna Ubuledevarakönda Pagoda 343 54 30	522	Chirayánam s. 35 0 41	891
Rájagudda Hill Platform 345 50 8	553	Kátarkurru " 103 36 22	890
Meddelakönda Stone 346 35 35	525	Dántákurru " 174 40 46	889
Vandádi h.s. 352 34 15	537	Masáلكor Kalwa " 223 38 25	889
Nëman s.		Núzvid s.	
Vákalapúdi s. 34 23 53	820	Dálgattu, LXV 156 41 3	688
Timmapuram " 95 51 14	819	Muthianu h.s. 228 59 41	688
Gorasa " 161 53 5	818	Dudugat, LXIII 281 57 51	689
Vuppada " 221 24 42	818		
Netivaripälëm, XX		Ongole, XVIII	
Kuchërla, XXIV 22 23 0.83	27	Singaráyakönda Temple 2 19 9	841
Pichërla, XXIII 57 51 12.52	82	Puripád, XXI h.s. 13 25 40.35	26
Nishánkönda, XXII 121 38 58.17	81	Konijedu h.s. 54 38 49	333
Chemakurti, XIX 183 45 24.48	25	Netivaripälëm, XX 61 34 18.02	25
Ongole, XVIII 241 30 37.54	25	Chemakurti, XIX 120 19 2.46	22
Puripád, XXI 310 49 25.82	26	Mallávaram Hill Pagoda 161 7 40	279
		Medaramëtla, XV 172 4 35.95	21
Niálamari, II		Faranguldinne, XVI 222 9 20.09	21
Tirmallappanagutta h.s. 49 27 40	119	Pátapád Beacon s. 267 11 36	277
Machavaram Pagoda 76 21 44	113	Pasamudra Beacon " 344 12 0	338
Nalgonda " 94 13 37	115		
Súrayapet Mosque 137 17 57	112	Pagulráyi, XLVII	
Undurgönda Hill Building 148 8 56	110	Kalimámidi, XLIX 33 22 58.83	63
Kándágatla, XII* 159 29 16.33	1	Dhár, XXXIX* 281 52 55.96	62
Sirkönda Hill Building 196 22 40	106	Gundálamma, XLV 345 2 49.27	62
Adáligat, XV* 209 17 21.47	1		
Urulkönda Hill Building 210 11 48	104	Pájarla-pëddatëppa h.s.	
Ráipalle Hill Pagoda 222 59 39	107	Jëndaltëppa h.s. 240 37 0	762
Sirpuram Pagoda 247 47 30	108	Pátapälëm s. 262 27 18	764
Munagál Mosque 255 59 4	109	Tëttu h.s. 297 43 7	761
Anantagiri, I 263 47 53.48	2	Tëttu Hill Temple 297 44 45	769
Anantagiri h.s. 263 51 1	100	Guraigunta " 353 41 40	761
Pöchëcharla Hill Pagoda 305 44 5	142		
Pulichintala " 310 13 9	140		
Miádarásál, III 315 15 37.20	6		
Sárangapalle, IV 354 18 31.47	4		
Sárangapalle " 355 4 48	139		

* These stations appertain to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Pálamanda h.s.		Pasaldevi s.	
Chintemeklapalli h.s. 0' 16"	578	Sámaldevi s. 71' 54" 44"	927
Kalikiri Fort 103' 2" 44"	578	Mutiyálpalli " 110' 5" 6"	926
Sandravaripalli Fort 169' 32" 6"	574	Mögaltúr " 203' 43" 58"	925
Sattevaripálém " 256' 23" 53"	574	Bhairapálém " 274' 50" 18"	924
		Turputálu " 313' 29" 28"	924
Pálapáru, XII		Pasamudra Beacon s.	
Chénnubhöttapálém s. 22' 25" 34"	1040	Singaráyakönda Temple 40' 8" 35"	840
Babbépalle, XIII 52' 46" 6" 13"	18	Chemakurti, XIX 140' 4" 18"	839
Göttipád " 88' 48" 9"	262	Konijedu h.s. 140' 21" 21"	838
Kotapa, IX 113' 5" 59" 16"	17	Ongole, XVIII 164' 12" 53"	838
Ádamsáb, X 183' 27" 36" 55"	17		
Adusumilli " 308' 49" 41"	1040	Pátapád Beacon s.	
		Ongole, XVIII 87' 14" 11"	277
Pálchērla, XXXV		Chemakurti, XIX 107' 26" 32"	276
Vēnkatagiri Building 0' 31" 11"	442	Medaramētla, XV 140' 14" 31"	276
Pallakönda, XXXII 179' 10" 49" 01"	42		
Vutukúr, XXXIII 253' 27" 47" 58"	42	Pátapálém s.	
Kayyúr, XXXVI 311' 0" 34" 48"	43	Rámapatnam Bungalow 7' 31" 7"	766
		Tēttu h.s. 49' 49" 19"	763
Pallakönda, XXXII		Pájarla-pēddatēppa " 82' 28" 30"	764
Pēnchalkönda Hill Mark 18' 25" 46"	429	Jēndaltēppa " 105' 27" 48"	763
Yērrakönda, XXX 146' 21" 15" 86"	40	Rámapatnam Beacon s. 351' 10" 34"	765
Udayagiri Hill Mosque 158' 4" 38"	382		
Rájalli, XXVIII 205' 6" 22" 38"	38	Pátópád s.	
Annasamudram Mosque 216' 1" 30"	405	Göllapálém s. 77' 10" 41"	931
Sangam Temple 236' 55" 24"	417	Losári " 139' 20" 35"	930
Kistama, XXXI 259' 57" 39" 79"	38	Kálipatnam " 222' 13" 20"	929
Vutukúr, XXXIII 304' 59" 6" 27"	41	Sámaldevi " 270' 27" 41"	929
Pálchērla, XXXV 359' 10" 45" 97"	42		
		Pattávála s.	
Pallepálém s.		Coringa s. 0' 58" 8"	961
Vadapálém s. 37' 3" 15"	747	Coringa House 7' 13" 24"	966
Anagaripálém " 84' 22" 5"	747	Manjer s. 60' 5" 49"	875
Vattúrpallepálém Beacon 173' 3" 9"	749	Görripúdi " 111' 45" 27"	874
		Chöllangipet " 170' 5" 24"	874
Pantrangam s.		Coringa Light-house 289' 1" 16"	963
Kambákamdurgam h.s. 52' 50" 16"	620	Vēnkatapálém " 348' 13" 5"	876
Rósanúr " 94' 5" 58"	620		
Gudali " 141' 46" 46"	621	Pēddadrug h.s.	
Mallam s. 153' 45" 32"	622	Malaikönda No. 2 Pagoda 110' 3" 17"	598
		Sattevaripálém h.s. 121' 2" 55"	480
Parampúdi, LX		Chandragiri s. 123' 11" 0"	585
Pōnkamámidi Mark 39' 41" 58"	683	Nágápatla Pagoda 138' 29" 39"	590
Bandanchērla, LXI 41' 49" 50" 91"	78	Tallarapet h.s. 165' 39" 28"	480
Nágaldurgam, LXII 114' 12" 15" 14"	83	Námalpet " 187' 14" 20"	582
Adakönda, LVI 265' 53" 1" 91"	74	Tirupati Pagoda 208' 34" 18"	587
Yēdlagattu, LVII 325' 38" 20" 79"	74	Karakambod Fort 235' 49" 42"	586
Mallesvara Temple 348' 21" 4"	679	Kundrapák Hill Pillar 247' 52" 50"	591
Sudkönda, LIX 359' 26" 7" 98"	75	Kúpchandrapet Hill Peak 249' 10" 41"	592
		Appalayagunta Peak 276' 30" 21"	594
Parlakurru h.s.		Pēddaganjám Beacon s.	
Náwilmētta, LIII 30' 40" 21"	829	Chemakurti, XIX 85' 29" 15"	274
Elangoi, LI 319' 9" 26"	828	Medaramētla, XV 107' 43" 24"	274
Sudaghatu h.s. 358' 34" 9"	828	Babbépalle, XIII 157' 2" 28"	275

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Pēdda Gōllapālēm Beacon s. ° ' "		Pēnchalgōlkōnda h.s. ° ' "	
Tēppa Pulipālēm s. 75 3 33	992	Kappakōnda Hill Platform 64 24 2	352
Tadivēnu " 154 17 24	992	Chemakurti h.s. 208 43 4	351
		Kandulūr " 249 15 20	350
		Chundikōnda " 345 21 33	350
Pēddakaltippa, XVII		Pēntakota s.	
Darsi Pillar 33 40 46	271	Kumārapur No. 2 s. 60 25 21	833
Darsi Hill (heliotrope) 69 37 44	270	Pēntakota Flag-staff 61 36 24	851
Dānapa, XIV 242 53 49 05	23	Pēntakota Custom House 62 39 2	849
Medaramēṭla, XV 289 20 34 69	23	Pēntakota Temple No. 2 65 10 6	846
Chemakurti, XIX 334 13 22 76	24	Rājina Tree 75 13 11	852
		Lokarup h.s. 103 43 14	832
Pēddakona s.		Gunpūdi Hill Tree No. 3 110 42 57	843
Kodūr s. 47 26 52	1018	Sudikōnda No. 3 " 120 28 21	834
Vishvanāthapalli " 84 44 6	1017	Sītārām Temple 126 47 9	844
Kota Manchēru " 134 27 28	1017	Gunpūdi Hill Tree No. 2 149 38 2	840
Chinna Kona " 162 19 58	1022	Gunpūdi Hill Tree No. 1 168 46 14	838
Kothūr " 226 58 23	1021	Malrāj " 185 27 17	832
Borardibba " 279 14 5	1020	Dōngalkōnda Beacon s. 220 32 4	836
Point Divi Light-house 349 18 10	1046		
Point Divi " 349 20 42	1019	Pēnugudūr s.	
		Revūr s. 171 28 29	871
Pēdda Lanka s.		Cocanada Temple 226 46 19	960
Depu Lanka s. 227 6 56	886	Cocanada " 228 39 43	871
Kandikuppam " 295 15 22	886	Chōllangipet " 307 40 31	872
Dāntākurru " 340 41 2	887	Gōrripūdi " 359 22 52	873
		Peranamitta h.s.	
Pēddapalakalūr h.s.		Kandulūr h.s. 13 12 50	325
Ādamsāb, X 50 2 28	178	Mangamūr Pagoda 47 51 24	330
Mangalagiri No. 1 h.s. 239 24 38	177	Chemakurti " 118 19 44	325
Guntūr Base-line N. End s. 277 1 44	181	Yēndlūr Fort 129 1 26	329
Chivalūr " 277 10 50	180	Medaramēṭla, XV 180 45 41	326
Guntūr Mosque 298 28 38	184	Chedalavāda Pagoda 225 57 32	328
Bhattiprol " 300 13 52	193	Ongole Hill Pagoda 303 26 31	331
Vejēlla " 300 30 40	177	Pellūr Fort 328 5 35	332
Chērbrolu Pagoda 312 22 46	188	Tangutūr Pagoda 348 53 18	337
Guntūr Base-line S. End " 314 21 59	182		
Chamallamūdi Pagoda 333 8 18	186	Peravali s.	
		Govāda s. 43 22 50	1003
Pēddapalli s.		Alapād " 104 11 13	1003
Ganapavaram s. 68 8 52	1028	Chinnapulivaru " 270 5 26	1005
Pittalavaripālēm " 111 29 53	1029	Gudavali " 343 40 55	1004
Muttapalli " 242 3 8	1026		
Ganamvanalapālēm No. 1 " 282 48 56	1026	Pērumāllapuram s.	
Nizāmpatnam " 354 39 27	1027	Mulapet s. 44 1 18	814
		Vijayanagaram " 107 39 56	813
Pēddapatnam Beacon s.		Enilraidu h.s. 172 55 57	812
Pēddapatnam s. 85 24 0	994	Krishnapuram s. 229 40 14	812
Nārāyanapuram " 127 25 20	993		
Chinna Pāndrāka " 182 48 35	993	Pesar Lanka s.	
		Repalle s. 12 31 44	1008
Pēddapatnam s.		Rachūr No. 2 " 63 5 43	1048
Tāllapālēm s. 44 47 4	942	Rachūr No. 1 " 63 7 5	1007
Jinjer " 72 38 20	941	Chinnapulivaru " 129 41 27	1007
Nārāyanapuram " 149 30 33	940	Vilvol " 190 8 22	1009
Chinna Pāndrāka " 204 53 36	939	Sallapalli " 243 29 8	1011
Kōttasaudi " 251 49 58	939	Puligudda " 309 18 15	1010
Pēddapatnam Beacon " 265 23 39	994		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Pesiduvaripalli h.s.		Poilekurru s.—(Contd.)	
Pushpagiri h.s. 197 12 45	773	Gadimoge s. 283 1 1	878
Cuddapah Idgah Point No. 1 226 49 47	781	Mallávaram Mol " 331 16 42	879
Cuddapah Chattram 234 10 26	786	Yédúr Lanka-Tree Flag 352 20 36	977
Cuddapah Racket Court 235 50 37	788		
Ukkayapalli " 240 18 56	774		
Bagarapet " 261 40 5	773	Point Divi s.	
		Kodúr s. 94 22 39	1019
		Pëddakona " 169 20 57	1019
		Borardibba " 210 6 24	1020
Pichërla, XXIII		Pöppúdi h.s.	
Chákalakönda, XXVII 0 31 18.38	34	Medaramëttla, XV 19 31 1	252
Nishánkönda, XXII 190 31 7.28	32	Kotapa, IX 131 17 10	252
Netivaripálëm, XX 237 46 35.11	32	Nadëlla h.s. 209 3 38	253
Kuchërla, XXIV 302 57 38.74	33		
Píler s.		Porumámilla s.	
Gundalkönda h.s. 147 28 1	576	Lankamalai h.s. 11 53 35	384
Budthaid " 211 58 43	577	Karadillakuppam Platform 44 51 38	393
Sattevaripálëm " 261 0 18	576	Narsápur Pagoda 126 18 50	388
		Singaráyakönda " 156 53 42	385
Pillimedu, XL		Gorlabod Hill Platform 222 21 49	386
Kálahasti Pagoda 7 55 13	632	Bairadevargudda Pagoda 262 17 11	389
Yerpet, XLIII 46 8 7.48	52	Gánugapënta " 327 59 32	384
Köttakanama Pass Point No. 1 104 21 50	509		
Vënkata giri Building 116 10 12	443	Pötapalli s.	
Vënkata giri Temple 126 7 30	444	Chilakalapúdi s. 24 42 2	949
Kayyúr, XXXVI 160 32 0.90	45	Köttapúdi " 206 22 3	947
Gurramkönda, XXXVII 216 58 44.73	45	Gopuvaripálëm " 247 15 54	947
Ánëpúdi, XXXIX 280 8 18.86	46	Karmeda " 320 30 56	948
Kambákamdurgam, XLI 332 52 20.86	51		
Pittalavaripálëm s.		Pothkönda, LIV	
Ganapavaram s. 11 44 1	1029	Raghudevapuram s. 19 52 8	667
Gudipúdi " 77 35 19	1080	Lachmipuram, LV 31 18 16.32	72
Pëddapalli " 291 28 54	1029	Adakönda, LVI 82 39 5.64	70
		Kappa, LII 204 17 45.89	66
Pödillëköndupalli h.s.		Nallakönda, L 258 17 55.64	66
Singaráyakönda h.s. 7 57 56	362	Korukönda Hill Temple 319 34 59	664
Giddalúr Hill Pagoda 117 47 9	374	Náwilmëtta, LIII 329 39 56.30	67
Víramkönda " 187 4 38	361	Mílaramëtta h.s. 357 6 31	666
Satyavol Pagoda 203 17 10	373		
Palakavid Pagoda 210 47 22	371	Pötumërika s.	
Cumbum s. 214 10 23	368	Adavaladevi s. 73 26 21	1052
Gudimitta Hill Pagoda 219 13 46	372	Mánteripálëm No. 2 " 131 56 9	1051
Möksbhagundam h.s. 230 24 49	367	Singupálëm " 207 8 32	1051
Yëllikönda " 235 40 45	363	Mortola Temple 221 57 15	1064
Ankalamman Hill Peak 270 45 2	375	Morlaguntla " 359 14 8	1057
Tellanillamalai " 311 22 34	361		
Kumáravol Village 336 25 0	379	Puchalapalle s.	
Idamakallu Pagoda 337 24 10	377	Gudali, XXXVIII 75 53 3	613
Rëddichërla " 349 1 32	365	Üttamanëllúr s. 127 11 36	613
		Köndúr " 311 57 3	614
Poilekurru s.			
Georgepet Rice Mill No. 2 1 2 38	969		
Georgepet Rice Mill No. 1 6 13 39	967		
Manjer s. 151 54 7	877		
Vënkatapálëm " 205 44 23	877		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Pulichintala h.s.		Pushpagiri h.s.—(Contd.)	
Viravillipaya h.s. 11 20 28	160	Cuddapah Railway Station (helio.) 336 24 3	803
Kattevaram Pagoda 39 6 52	170	Cuddapah House No. 5 (helio.) 336 33 16	801
Kollúr Mosque 43 19 16	169	Cuddapah House No. 4 (helio.) 336 45 44	798
Sárangapalle " 76 18 4	141	Cuddapah Chattram 337 9 26	786
Níálamari, II 130 18 59	140	Cuddapah Racket Court 340 8 19	788
Pöchécharla Hill Pagoda 134 48 13	143	Cuddapah Mark No. 2 (helio.) 340 26 3	795
Anantagiri " 166 58 20	140	Cuddapah Idgah Point No. 2 (helio.) 340 38 41	783
Jaggayapet Pagoda 191 53 42	144	Cuddapah House No. 1 (helio.) 342 41 34	779
Köngramalai Hill Pagoda 218 5 50	163		
Jammalavoidurgam Hill 248 5 38	162	Rachúr No. 1 s.	
Rághavapuram " 265 6 59	160	Mánteripálém No. 1 s. 1 45 14	1023
Juzzúr Pagoda 270 56 49	164	Muttapalli " 47 44 39	1024
Chintápalle Building 309 15 34	165	Gudavali " 107 38 6	1006
Mátharsála " 358 7 20	167	Chinnapulivaru " 179 35 49	1006
		Pesar Lanka " 243 6 5	1007
		Repalle " 299 10 37	1008
Puligudda s.			
Repalle s. 76 14 1	1010	Rachúr No. 2 s.	
Pesar Lanka " 129 19 5	1010	Mánteripálém No. 2 s. 1 44 38	1049
Sallapalli " 106 44 27	1012	Pesar Lanka " 243 4 43	1048
Vishvanáthapalli " 261 55 45	1014	Repalle " 299 10 38	1048
Pulikönda h.s.		Rághavapuram h.s.	
Chéttipalle Hill Pagoda 51 11 10	555	Adamsáb, X 2 47 11	159
Köyakönda Stone 62 39 37	548	Chintalapád Temple 16 56 31	714
Bonamalai Hill Platform 68 21 58	560	Chintalapád, LXXII 30 49 21	704
Nallakönda Hill Building 96 34 5	550	Viravillipaya h.s. 43 43 13	159
Ráyachoti Pagoda 134 19 19	530	Chintápalle Building 63 23 26	165
Meddelakönda Stone 135 44 48	524	Mátharsála " 71 5 3	167
Néikurti h.s. 146 26 31	518	Pulichintala " 85 11 21	160
Malaikönda No. 1 Pagoda 150 20 9	535	Nandigáma Bungalow 90 52 53	711
Gangadiakönda " 155 0 56	520	Nandigáma Temple 98 10 22	710
Sanipáya " 204 20 7	518	Köngramalai Hill Pagoda 126 46 47	163
Chintákuntabanda Pagoda 204 32 33	532	Köngramalai Hill Temple 126 50 58	707
Sundupalle Pagoda 235 6 2	544	Tirumalagiri Hill Temple 131 23 21	706
Narsanagarpalle Pagoda 244 56 54	545	Jönnalagadda, LXX 180 4 39	705
Ráyavaram s. 251 45 36	540	Rámireddipalli Village 187 3 43	708
Ráyavaram Pagoda 253 28 9	542	Kúdali Temple 232 27 33	709
Budthaid h.s. 277 11 41	519	Jammalavoidurgam Hill 235 33 48	162
Yérrakönda " 277 41 17	543	Juzzúr Pagoda 284 33 56	164
Vustikayalapénta Pagoda 299 48 51	538	Juzzúr House 284 56 56	712
Marellakönda Hill Platform 328 58 43	557	Jujúrdurgam, LXVIII 293 28 47	704
		Mangalagiri No. 1 h.s. 323 5 0	172
		Vaikuntapuram Pagoda 335 43 34	171
		Pendiyála House 359 21 46	713
Puripád, XXI			
Darutippa, XXV 13 29 58.97	28	Raghudevapuram s.	
Kuchérta, XXIV 62 16 39.76	27	Pothkönda, LIV 199 51 30	667
Netivaripálém, XX 130 52 3.65	26	Milaramétta h.s. 311 58 42	667
Ongole, XVIII 193 24 39.28	26		
		Ragulpád s.	
Pushpagiri h.s.		Dudugat, LXIII 6 43 44	684
Pesidivaripalli h.s. 17 13 37	773	Muthianu h.s. 27 6 49	687
Bagarapet " 310 10 48	773	Dálgattu, LXV 72 5 19	684
Ukkayapalli " 313 40 48	775	Mulagalampád " 288 9 41	685
Cuddapah House No. 2 (helio.) 324 56 26	785		
Cuddapah Mark No. 1 (helio.) 330 7 27	792		
Cuddapah Tomb (helio.) 331 27 59	793		
Uppalapalli Temple 333 24 4	776		
Cuddapah Dargah 334 50 7	790		
Cuddapah Judge's Court (helio.) 335 52 25	799		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Rajahmundry s.		Ráyavaram s.	
Gurajalakönda h.s. 286 27 39	672	Yérrakönda h.s. 6 18 15	543
Dowlaishweram " 325 26 14	672	Pulikönda " 71 47 25	540
Dowlaishweram Factory No. 2 " 343 26 17	675	Gangadiakönda " 104 18 47	540
Dowlaishweram Temple 350 27 27	677	Vustikayalapénta Pagoda 338 57 52	541
		Ráyavaram Pagoda 357 20 45	542
Rájalli, XXVIII		Réddichërla h.s.	
Pallakönda, XXXII 25 8 34 96	38	Singaráyakönda h.s. 41 48 29	366
Yérrakönda, XXX 90 24 8 63	39	Pöðillëkköndupalli " 169 2 0	365
Udayagiri Hill Mosque 115 25 13	381	Idamakallu Pagoda 181 4 13	377
Chákalakönda, XXVII 158 13 5 50	35	Gudimitta Hill Pagoda 186 10 2	372
Kesavaram, XXVI 224 45 8 36	35	Kumáravol Village 192 21 48	379
Nishánbodu, XXIX 272 12 30 38	36	Mökshagundam " 193 40 14	367
Annasamudram Mosque 285 18 41	405	Ankalamman Hill Peak 208 41 41	375
Jangal Vangol Temple 299 44 29	415	Tellanillamalai " 261 30 56	365
Sangam Temple 314 22 26	418		
Kistama, XXXI 331 33 17 46	87	Repalle s.	
		Mánteripálém No. 2 s. 41 5 30	1049
Rajënmalle h.s.		Mánteripálém No. 1 " 41 5 55	1023
Tumakönda h.s. 8 12 30	558	Rachúr No. 1 " 119 11 24	1008
Rekakönda Hill Platform 42 23 16	552	Rachúr No. 2 " 119 11 25	1048
Nëlkurti " 181 44 55	512	Pesar Lanka " 192 31 31	1008
Hasanápuram s. 217 43 41	516	Puligudda " 256 12 58	1010
Matla Pagoda 234 47 45	527	Singupálém " 341 32 33	1050
Sanipáya h.s. 242 40 52	512		
Nallakönda Hill Building 266 5 19	549	Réttambedu, XLIV	
Rájagudda Hill Platform 291 23 33	554	Chëmbedu, XXXV* 46 23 36 13	57
Chinnamandëm s. 296 0 59	551	Kambákamdurgam, XLI 114 55 7 86	56
Gundalkönda h.s. 310 43 58	515	Jonangipálém, XLII 185 42 27 64	56
Bonamalai Hill Platform 312 59 58	561		
Rájipet h.s.		Revúr s.	
Gunpúdi s. 61 6 38	806	Rámesvaram No. 1 s. 195 44 17	869
Malraj h.s. 127 26 2	805	Vákalapúdi " 246 20 18	870
Gumlúr " 181 27 19	805	Cocanada Flag-staff 277 35 16	957
		Cocanada " 278 3 36	869
Rámapatnam Beacon s.		Cocanada Light-house 278 15 55	956
Jëndaltëppa h.s. 118 55 6	765	Cocanada Temple 283 37 53	959
Rámapatnam Bungalow 141 40 58	766	Chöllangipet " 328 58 55	957
Pátapálém s. 171 10 36	765	Pënungudúr " 351 28 21	871
		Rösanúr h.s.	
Rámesvaram No. 1 s.		Kambákamdurgam h.s. 5 8 54	619
Revúr s. 15 44 27	869	Kálahasti " 65 38 39	634
Kaikavol " 57 41 0	824	Yerpet " 74 42 4	596
Tamarchëru " 108 53 21	823	Ikalseri " 113 22 52	595
Sámalkot " 157 55 7	822	Kayyúr " 127 41 6	602
Timmapuram " 217 50 24	821	Kannaköndaráyan " 151 8 59	597
Vákalapúdi " 269 58 2	821	Kálavakönda No. 1 " 195 10 17	595
Cocanada " 315 18 16	868	Gudali " 215 20 59	603
		Nëllipúdi Pagoda 222 33 43	625
Rámesvaram No. 2 s.		Molakalapúdi s. 237 4 29	630
Kumáragiripatnam s. 66 34 5	899	Mallam " 241 29 43	622
Devaguptam " 134 34 40	898	Pantrangam " 274 1 41	620
Chalapalli " 207 40 13	897	Mizár Pagoda 290 5 9	631
Surasaniyánam Beacon " 238 31 47	897	Togaramúdi 293 38 9	629
		Khasubakuppam Mosque 298 38 6	641
		Jonangipálém Mosque 302 17 38	642

* This station appertains to the Madras Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Rösanúr h.s.—(Contd.)		Sanipáya h.s.—(Contd.)	
Polúr Pagoda	318 49 30	639	Hasanápúram s. 98 59 58 517
Irakam	s. 319 3 46	637	Nölkurti h.s. 116 58 48 447
Sadasivapuramkönda h.s.			Pallakönda Hill Platform 167 50 33 470
Yerpet	h.s. 160 35 29	650	Lankamalai " 175 34 40 447
Kambákamdurgam	" 255 28 57	650	Jotel Hill Platform 188 31 8 463
Sallapalli s.			Köttakönda Hill Platform 194 25 14 477
Puligudda	s. 16 44 51	1012	Karakönda " 227 42 4 446
Pesar Lanka	" 63 30 22	1011	Kákalkönda " 229 22 15 449
Vilvol	" 124 9 20	1011	Nandalúr Pagoda 230 48 28 479
Turkápálém	" 190 56 19	1013	Munikönda Hill Pagoda 238 57 42 488
Kota Manchëru	" 258 2 20	1015	Attirála Hill Pagoda 242 9 17 486
Vishvanáthapalli	" 311 1 43	1014	Yélagalakönda Platform 251 46 40 499
Sámaldevi s.			Malaimarapuram Platform 257 10 50 496
Pátópád	s. 90 28 47	929	Vattalúr h.s. 281 43 15 483
Kálipatnam	" 121 54 6	928	Ikalseri " 283 18 6 446
Mutiyálpalli	" 194 44 21	927	Budthaid " 325 44 36 481
Pasaldevi	" 251 53 50	927	Sánjib, XLI*
Sámalkot s.			Kappakönda, XLVI 47 41 24.70 59
Tamarchëru	s. 37 7 28	823	Gundáamma, XLV 90 26 40.74 58
Timmapuram	" 288 57 39	822	Dhár, XXXIX* 135 38 17.28 58
Rámesvaram No. 1	" 337 54 31	822	Sankaraguptam No. 1 s.
Sandála s.			Chintámul No. 1 s. 61 30 21 912
Tëppa Pulipálém	s. 6 6 42	935	Sankaraguptam No. 2 " 124 33 30 911
Kurtivënu	" 46 35 55	936	Kësanapalli No. 6 " 207 55 16 910
Lakshnipuram	" 290 42 28	934	Kësanapalli No. 5 " 259 55 28 910
Tadivënu	" 335 31 9	934	Sankaraguptam No. 2 s.
Sangamkönda h.s.			Chintámul No. 1 s. 23 43 57 912
Somavarapád	h.s. 210 16 52	733	Chintámul No. 2 " 64 14 12 913
Bitragunta	" 228 51 49	736	Kësanapalli No. 6 " 252 21 34 911
Pënner Beacon	" 272 53 43	419	Sankaraguptam No. 1 " 304 33 17 911
Narasimhakönda	" 319 11 50	414	Sárangapalle, IV
Kistama, XXXI	" 357 48 36	414	Niálamari, II 174 19 7.90 4
Sanipáya h.s.			Anantagiri, I 211 15 22.11 4
Marellakönda Hill Platform	h.s. 0 26 7	557	Miádarsál, III 267 31 26.11 5
Gundalkönda	" 12 23 26	514	Kachalboru, V 310 1 58.67 7
Chintákuntabanda Pagoda	" 24 5 1	533	Mániam, VIII 339 25 52.94 8
Pulikönda	" 24 21 23	518	Sárangapalle h.s.
Köyakönda Hill Pagoda	" 35 17 15	547	Karempúdi h.s. 2 2 46 197
Malaikönda No. 1 Pagoda	" 45 57 10	535	Kakeral " 26 42 45 145
Rájagudda Hill Platform	" 46 56 7	553	Madugala Hill Pagoda 44 38 22 218
Gangadiakönda	" 48 54 59	520	Pulipád Fort 54 33 52 207
Rajënmalle	" 62 45 48	512	Tumurukota Flag-staff 67 17 22 217
Vandádi	" 65 24 7	536	Tumurukota Mosque 67 21 50 215
Óived Pagoda	" 65 27 41	529	Tirmallappanagutta h.s. 90 29 23 139
Ráyachoti Pagoda	" 69 35 2	530	Pöndugala Pagoda 91 53 25 206
Abbavaram Pagoda	" 70 51 0	528	Wádapalle Mosque 97 36 30 205
Bujanmalai Stone	" 76 26 11	534	Niálamari, II 175 5 20 139
Meddelakönda Stone	" 92 49 5	524	Pulichintala " 256 12 46 141
			Mátharsála " 267 58 8 168
			Kamipalli Hill Pagoda 288 53 14 199
			Víravillipaya " 313 17 3 161
			Matsavaram Fort 315 28 41 202
			Guttikönda " 342 6 37 203

* These stations appertain to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Sattevaripálēm h.s.	° ' "	Singupálēm s.	° ' "
Pálamanda h.s.	76 27 24	Pötumēraka s.	27 8 53
Píler s.	81 3 0	Mánteripálēm No 2	93 3 52
Sandravaripalli Fort	99 9 20	Repalle	161 32 53
Gundalkönda h.s.	106 27 3	Mortola Temple	245 42 20
Marellakönda Hill Platform	126 45 29		
Vustikayalapēnta Pagoda	154 51 19		
Budthaid	175 6 50	Somavarapád h.s.	
Tállakönápada Platform	211 0 30	Kistama, XXXI	16 46 1
Jondrázikuppam Platform	244 23 11	Sangamkönda h.s.	30 18 30
Bairagundal Hill Mark	248 57 43	Brahmankákra s.	244 5 52
Tallarapet h.s.	256 29 3	Gavúravaram	249 32 24
Námalpet	277 21 0	Bitragunta h.s.	263 27 19
Jangamalaikönda Rock	295 24 46	Bitragunta Hill Pillar	263 33 0
Péddadrag	300 59 50	Bitragunta Hill Temple	263 34 47
		Narasimhakönda	356 20 29
Satyaved h.s.		Srípuram s.	
Nagari, XXXIII*	81 4 55	Köttapalli No. 1 s.	54 2 2
Kambákamdurgam h.s.	155 7 17	Lachmipuram	200 26 37
Árani s.	300 18 45	Madurupád h.s.	248 9 58
Manjankaranai	311 29 23	Kávali	327 25 30
Chēmbedu	344 54 26		
		Sudaghatu h.s.	
Siddhanakönduru h.s.		Parlakurru h.s.	178 34 15
Allikönda h.s.	11 15 40	Elangoi, LI	243 53 17
Atmakúr Hill Tree	39 7 23	Bikkavol s.	293 56 28
Karakönda	52 49 5	Bikkavol Temple	295 56 55
Udayagiri	98 14 9		
Malakönda Hill Pagoda	157 35 3		
Chundikönda	168 21 7	Sudikönda No. 1 h.s.	
Gandavaram Pagoda	319 1 35	Chandalúr h.s.	8 58 59
Buchchirēddipálēm Pagoda	337 0 4	Innaparati	65 45 6
		Durgappakönda	73 6 45
		Rémidichērla Pagoda	130 42 42
		Kakeral	138 15 57
		Gummadampád Fort	157 59 32
		Karempúdi	196 55 40
		Melavog Pagoda	198 18 27
		Viravillipaya	233 38 41
		Kotapa, IX	285 0 12
		Tirumaldevargudda Pillar	308 23 9
		Agnigundala s.	329 51 24
		Vinukönda Hill Pagoda	351 0 4
Siddhapur h.s.		Sudikönda No. 2 h.s.	
Katalkönda h.s.	316 3 26	Dowlaishweram Factory No. 1	7 55 11
Guudla Brahmesvaram	354 8 20	Milaramētta h.s.	153 45 19
		Náwilmētta, LIII	254 47 42
		Gurajalakönda	320 0 8
		Dowlaishweram	357 31 20
Siddhavattam s.		Sudikönda No. 3 h.s.	
Bagarapet Hill Peak	57 22 49	Rájina Tree	18 15 21
Jotel Hill Platform	242 24 18	Kumárapur No. 2 s.	29 9 56
Nathelmalai h.s.	278 2 21	Lokarup h.s.	84 4 44
		Gunpádi Hill Tree No. 1	253 53 37
		Gunpádi Hill Tree No. 2	268 12 55
		Dóngalkönda Beacon s.	273 23 39
Singaráyakönda h.s.			
Lankamalai h.s.	1 52 17		
Karadillakuppam Platform	18 25 12		
Hauhoballam s.	91 8 10		
Pöðillēköndupalli h.s.	187 57 28		
Rēddichērla	221 47 33		
Tellanillamalai	244 52 35		
Gorlabod Hill Platform	286 51 59		
Gánugapēnta	332 3 0		
Porunámilla s.	336 52 44		
Kodúr Hill Platform	354 28 53		
Narsápura Pagoda	358 11 20		

* This station appertains to the Madras Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Sudikönda No. 3 h.s.—(Contd.) ° ' "		Tallarapet h.s.—(Contd.) ° ' "	
Pöntakota s. 300 27 33	834	Jondrázikuppam Platform 160 37 23	580
Gunpúdi Hill Tree No. 3 310 50 11	842	Ikalseri h.s. 203 17 10	505
Pöntakota Flag-staff 355 9 7	850	Bairagundal Hill Mark 221 17 30	581
Pöntakota Custom House 355 53 25	848	Námálpét „ 321 26 24	582
Pöntakota Temple No. 2 356 5 20	847	Péddadrug „ 345 38 50	480
Sudkönda, LIX		Tamarchëru s.	
Dudugat, LXIII 53 39 50'59	79	Bikkavol Temple 56 39 41	867
Bandanchërla, LXI 127 26 33'22	78	Bikkavol s. 56 50 2	825
Parampúdi, LX 179 26 10'75	75	Elangoi, LI 132 5 32	826
Yëdlagattu, LVII 242 57 29'79	75	Sámalkot „ 217 6 42	823
Mallesvara Temple 263 55 3	679	Rámesvaram No. 1 „ 288 51 59	823
Tirupati No. 2 Temple 271 21 28	681	Kaikavol „ 349 50 34	824
Aupád, LVIII 291 22 35'93	77		
Surasaniyánam Beacon s.		Tellanillamalai h.s.	
Rámesvaram No. 2 s. 58 32 36	897	Gánugapënta h.s. 4 24 7	358
Chalapalli „ 135 19 0	896	Lankamalai „ 18 52 33	358
Gátomalai „ 200 47 25	895	Singaráyakönda „ 64 55 28	360
Kotapatnam „ 239 14 38	895	Rëddichërla „ 81 32 53	365
		Pöðillëköndupalli „ 131 24 59	361
Swámikönda h.s.		Víramkönda „ 164 1 13	356
Durgappakönda h.s. 54 57 26	214	Lingamgunta „ 207 19 24	355
Göttipalle „ 103 18 49	231	Mállápád Hill 266 38 42	388
Gangadevi „ 114 13 55	212	Chundikönda „ 274 26 25	355
Yelesvaram Hill Pagoda 128 35 15	222	Udayagiri „ 336 36 34	380
Tirmallappanagutta „ 160 8 6	212		
Mandadi Pagoda 160 53 55	226	Tëppa Pulipálëm s.	
Machërla Pagoda 175 19 58	224	Köttasaudi s. 69 29 19	937
Pötlavid Pagoda 177 28 50	228	Kurtivënu „ 128 30 6	936
Tumurukota Mosque 182 37 31	216	Sandála „ 186 6 36	935
Mutukúr Pagoda 194 5 37	230	Tadivënu „ 224 56 17	935
Manchiköllu Pagoda 202 10 8	220	Pëdda Göllapálëm Beacon „ 255 3 1	992
Madugala Hill Pagoda 211 15 32	219		
Kölagotta Pagoda 222 9 39	229	Tëttu h.s.	
Kakeral h.s. 247 15 15	213	Yëlúrpád s. 19 40 4	760
Sétakod Peak 346 42 48	235	Guraigunta h.s. 73 10 59	760
		Pájarla-pëddatëppa „ 117 43 44	761
Tadivënu s.		Jëndaltëppa „ 176 33 33	762
Tëppa Pulipálëm s. 44 56 41	935	Pátapálëm s. 229 48 44	763
Sandála „ 155 31 27	934	Rámapatnam Church 285 38 27	767
Lakshnipuram „ 207 18 35	933		
Göllapálëm „ 262 8 51	933	Tëttupet s.	
Pëdda Göllapálëm Beacon „ 334 17 16	992	Irakam s. 67 6 55	643
		Kambákamdurgam h.s. 87 37 3	643
Tállapálëm s.		Venáð Tree 112 29 28	645
Mariadibba s. 62 3 26	944	Rámanappa Chattram 167 48 33	646
Kakarlamúdi „ 93 19 13	943		
Jinjer „ 166 23 2	942	Thirthalmundi Beacon s.	
Pëddapatnam „ 224 46 18	942	Másanatëppa s. 30 48 35	882
		Chirku Lanka No. 1 „ 77 38 10	881
Tallarapet h.s.		Mállávaram House 115 51 21	976
Jangamalaikönda Rock 60 46 6	584	Mállávaram Mol „ 116 26 57	880
Sattevaripálëm h.s. 76 31 30	480	Gadimoge „ 147 7 42	880
Tállakönápada Platform 124 8 16	579		
Budthaid „ 135 4 47	482		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Timmapuram s.		Udagat h.s.	
Sarpávaram Temple	35 43 26	865 Uppalagutta h.s. 53 25 40	116
Rámesvaram No. 1	s. 37 51 11	821 Malkapur " 88 58 40	117
Sámalkot	" 108 59 2	822 Kándágotla, XII* 262 52 58	111
Gorasa	" 218 47 58	819 Undurgönda Hill Building 286 57 37	111
Néman	" 275 50 14	819 Nalgönda " 339 24 58	114
Vákalapúdi Light-house	" 298 48 2		
Vákalapúdi	" 338 57 17		
		Udayagiri h.s.	
Tirmallappanagutta h.s.		Tellanillamalai h.s. 156 39 6	380
Durgappakönda	h.s. 18 18 28	149 Mallápád Hill 179 5 48	383
Gangadevi	" 38 15 50	120 Chundikönda " 231 23 56	380
Amrabad	" 55 18 16	137 Siddhanakönduru " 278 6 30	399
Yéllápur Hill Mark	63 14 13	120 Vinjamúrkönda Platform 285 15 24	403
Devarakönda	" 93 56 34	136 Karakönda " 353 15 53	402
Pötánúr Choultry	98 6 41		
Sangavaram Turret	101 4 36	Ukkayapalli h.s.	
Véñkatampet Hill Pagoda	107 34 39	Cuddapah Railway Station (helio.) 34 11 31	802
Ganpur Pagoda	107 36 24	Cuddapah House No. 5 (helio.) 37 12 59	800
Návalipur	h.s. 109 51 36	Cuddapah House No. 3 (helio.) 49 58 20	797
Samalpalle Hill Mark	127 33 22	Cuddapah School (helio.) 57 19 26	794
Yéllammagúdém Fort	130 45 26	Cuddapah Mark No. 2 (helio.) 59 52 32	796
Lingampalle Turret	147 51 55	Pesidivaripalli h.s. 60 21 17	774
Halval Fort	163 50 35	Cuddapah Dargah 64 54 18	790
Appajipet Mosque	164 25 57	Cuddapah Racket Court 69 8 9	789
Nalgönda	h.s. 172 53 5	Cuddapah Temple 72 40 45	787
Dúpallepalle	" 173 1 59	Cuddapah Idgah Point No. 2 (helio.) 86 51 34	784
Perúr Fort	211 40 2	Cuddapah House No. 2 (helio.) 86 59 23	785
Níálamari, II	229 20 28	Cuddapah Idgah Point No. 1 87 4 34	782
Sárangapalle	" 270 21 39	Cuddapah House No. 1 (helio.) 87 12 52	779
Manchiköllu Pagoda	309 49 16	Cuddapah Masjid 91 38 57	778
Kákeral	" 319 38 51	Uppalappalli Temple 121 12 34	777
Machërla Pagoda	328 46 25	Pushpagiri h.s. 133 42 17	775
Swámikönda	" 340 5 41	Siddhavattam Temple 290 6 13	804
Shakrámakönda Hill Mark	354 12 58	Bagarapet " 305 9 21	774
		Uppalagutta h.s.	
Tumakönda h.s.		Malkapur h.s. 150 37 17	117
Gurramkönda	h.s. 186 21 54	562 Náráyanpur Hill Building 167 59 27	118
Rajénmalle	" 188 11 50	558 Udagat " 233 20 50	116
Bonamalai Hill Platform	211 13 7	561 Appajipet Mosque 251 39 31	121
Yéñnugöndapálém Platform	231 21 28	564 Nalgönda " 267 37 11	116
Bandapalli Platform	240 8 17	566 Samalpalle Hill Mark 326 21 45	123
Tarigönda Fort	247 37 8		
Gundlúr Pagoda	248 41 36	Upputúr s.	
Gundalkönda	h.s. 253 37 58	Chéñnubhöttapálém s. 149 53 13	1039
Chintemeklapalli	" 288 38 35	558 Adusumilli " 190 56 7	1038
		1037 Kotapapálém " 228 39 51	1037
Turkápálém s.		1087 Muruköndapád " 285 12 50	1087
Sallapalli	s. 10 56 37		
Vilvol	" 57 35 15	Urukönda h.s.	
Kota Manchëru	" 308 1 16	Vöntimamudi Beacon s. 10 57 2	855
		1013 Vöntimamudi Temple No. 2 14 57 32	861
Turputálu s.		1016 Vöntimamudi Temple No. 1 19 4 51	860
Pasaldevi	s. 133 30 12	Enilraidu h.s. 57 44 47	811
Bhairapálém	" 206 50 40	Urukönda Hill 196 46 26	854
Vamaldevi	" 298 26 41	Lokarup " 240 50 45	809
		Péntakota Temple No. 1 271 22 18	845
		Urukönda Tree Flag 288 10 48	857

* This station appertains to the Bider Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Urukōnda h.s.—(Contd.)		Vattalūr h.s.—(Contd.)	
Kumárapur No. 1 s. 297 57 28	809	Káalkōnda h.s. 170 3 2	483
Kumárapur No. 2 " 299 0 36	831	Úttukúr Hill Platform 188 34 25	498
Pámparám Temple " 355 55 20	859	Malaimarapuram Platform 214 31 48	495
Krishnapuram " 359 19 6	810	Rámpur Hill Tree 243 33 4	491
		Pullampet Hill Platform 245 45 53	503
		Bömmavaram h.s. 281 36 55	493
Úttamanēllūr s.		Ikalseri " 284 45 6	485
Gudali, XXXVIII 53 2 15	608	Gundlatēppa Hill Platform 294 3 24	504
Ballavol s. 154 11 18	608	Kōttakanama Pass Point No. 2 301 5 18	510
Lellapālēm " 197 25 50	609	Tanukōnda Hill Platform 320 7 29	508
Puchalapalle " 307 11 11	613	Yērraguntlakota s. 325 0 31	506
Vadapālēm s.		Vejēlla s.	
Juvaldinne s. 72 55 40	746	Ádamsáb, X 94 23 10	174
Anagaripālēm " 109 24 40	746	Guntúr Base-line S. End s. 106 12 56	183
Vattúrpallepālēm Beacon 188 2 0	748	Pēddapalalalúr h.s. 120 33 22	177
Pallepālēm " 217 3 9	747	Lámkōnda Stone 146 58 20	176
		Nidumukala Hill 148 5 15	175
		Guntúr Base-line N. End s. 155 12 54	181
Vákalapúdi Light-house s.		Mangalagiri No. 1 h.s. 189 39 48	174
Sarpávaram Temple 77 34 39	865		
Timmapuram s. 118 48 43	863	Vēnkatapālēm s.	
Gorasa " 180 19 57	863	Poilekurru s. 25 44 43	877
Vuppada Beacon " 223 46 6	864	Manjer " 113 25 0	876
		Coringa House 128 54 11	965
		Pattávála " 168 13 15	876
Vákalapúdi s.		Gadimoge " 324 29 15	878
Cocanada Light-house 20 2 30	955		
Cocanada Flag-staff 27 28 45	958	Vijayanagaram s.	
Cocanada s. 33 41 42	868	Iskapalli s. 32 31 29	815
Cocanada Temple 37 14 55	959	Enilraidu h.s. 227 15 52	813
Revúr " 66 21 38	870	Pērumállapuram s. 287 38 40	813
Rámesvaram No. 1 " 89 59 12	821	Mulapet " 342 38 37	814
Timmapuram " 158 57 40	820		
Nēman " 214 23 16	820		
Vamaldevi s.		Vilvol s.	
Turputálu s. 118 27 23	923	Pesar Lanka s. 10 8 36	1009
Bhairapālēm " 157 57 11	922	Chinnapulivaru " 69 43 4	1009
Lachmanesvaram Temple 175 47 10	990	Turkápālēm " 237 33 57	1013
Gondi " 226 45 30	921	Sallapalli " 304 8 20	1011
Antravedi Temple 270 19 0	987		
Antravedi No. 6 " 277 1 4	921	Víramkōnda h.s.	
Antravedi Obelisk Beacon 308 52 0	988	Pōdillēkōndupalli h.s. 7 5 8	361
		Gundla Brahmesvaram " 87 27 9	306
Vandádi h.s.		Katalkōnda " 134 53 26	303
Nēlkurti h.s. 172 34 51	537	Esvarakuppam Hill Peak 183 25 25	300
Sanipáya " 245 19 56	536	Innaparati " 200 6 25	299
Budthaid " 281 46 57	536	Lingamgunta " 284 41 17	299
		Yēllikōnda " 292 41 43	363
		Cumbum s. 298 11 28	368
		Tellanillamalai h.s. 343 59 18	356
Vattalūr h.s.		Víravillipaya h.s.	
Karakalpēddagu Hill 17 46 19	511	Sudikōnda No. 1 h.s. 53 43 43	158
Budthaid h.s. 23 19 44	484	Mániam, VIII " 54 35 14	155
Sanipáya " 101 46 35	483	Karempúdi " 74 8 0	197
Ákepád Hill Platform 138 24 46	490	Guttikōnda " 75 6 40	203
Yēlagalakōnda Platform 141 9 2	499		
Munikōnda Hill Pagoda 161 43 52	488		

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Víravillipaya h.s.—(Contd.) ° ' "		Wárreo Beacon s. ° ' "	
Karempúdi Fort 84 22 47	211	Késanapalli No. 1 s. 60 6 23	904
Dáchepalle Fort 118 39 34	209	Goganamátham No. 2 " 96 9 10	903
Matsavaram Fort 131 26 9	201	Goganamátham No. 1 " 173 15 38	902
Sárangapalle h.s. 133 21 25	161	Kumáragiripatnam " 246 33 31	902
Kamipalli Hill Pagoda 155 9 8	199		
Pulichintala " 191 19 33	160	Yanagakönda h.s.	
Chintápalle Building 210 14 27	166	Cumbum s. 47 16 12	370
Rághavapuram " 223 37 56	159	Kakarla Hill Pagoda 144 29 7	298
Vaikuntapuram Pagoda 253 56 57	171	Márkápúr Pagoda 222 0 5	294
Pattibanda Pagoda 268 40 50	236	Chinna Yachávaram h.s. 230 10 39	292
Mangalagiri No. 1 " 271 38 24	172	Turlapád Pagoda 233 55 23	296
Dhúlipalla, VII 284 6 28	156	Chandalúr " 248 15 14	293
Kantépúdi Pagoda 290 29 36	237	Singaráyan Hill Pagoda 252 38 37	297
Ádamsáb, X 305 50 28	157	Lingamgunta " 289 13 54	292
Kotapa, IX 353 14 41	155	Rávipád Pagoda 342 27 34	370
Vishvanáthapalli s.		Yēdlagattu, LVII	
Puligudda s. 81 57 22	1014	Tirupati No. 2 Temple 49 11 39	681
Sallapalli " 131 2 56	1014	Mallesvara Temple 52 42 10	680
Kota Manchēru " 199 16 38	1015	Sudkönda, LIX 62 59 49.40	75
Pēddakona " 264 42 18	1017	Parampúdi, LX 145 40 44.19	74
Kodúr " 332 45 52	1018	Adakönda, LVI 214 2 1.82	73
		Lachmipuram, LV 274 12 30.30	73
		Aupád, LVIII 338 46 24.06	76
Vōntimamudi Beacon s.		Yēllikönda h.s.	
Enilraidu h.s. 135 50 45	856	Pōdillēkkōndupalli h.s. 55 44 58	363
Urakönda " 190 56 42	855	Viramkönda " 112 45 26	363
Urakönda Tree Flag 199 31 24	857	Innaparati " 169 3 45	364
Kumárapur No. 2 s. 232 37 4	855		
		Yēlúrpád s.	
Voruvakallu, VI		Madurupád h.s. 11 56 49	758
Dhúlipalla, VII 24 7 52.10	11	Lachmipuram s. 61 58 9	758
Bēllamkönda Rock 57 29 6	154	Guraigunta h.s. 127 43 54	759
Kachalboru, V 66 2 49.58	10	Tēttu " 199 39 54	760
Miáarsál, III 136 26 24.32	10		
		Yerpet, XLIII	
Vuppada Beacon s.		Tirupati Railway Station 35 10 16	588
Vákalapúdi Light-house s. 43 47 7	864	Tirupati No. 1 Temple 58 45 42.	589
Gorasa " 98 51 1	862	Pillimēdu, XL 226 5 59.94	52
Iskapalli " 154 53 23	862	Kálahasti Pagoda 255 22 40	632
		Kambákamdurgam, XLI 296 2 4.64	52
Vuppada s.		Nagari, XXXIII* 355 5 41.09	53
Nēman s. 41 25 25	818		
Gorasa " 98 52 45	817	Yerpet h.s.	
Iskapalli " 154 56 46	816	Allimailmangavaram Pagoda 33 37 5	649
Mulapēt " 225 21 20	816	Ikalseri h.s. 159 41 9	596
		Tirthampád Choultry 179 16 44	600
Vutukúr, XXXIII		Kayyúr " 202 36 42	601
Kayyúr, XXXVI 11 45 22.05	43	Kannaköndaráyan " 208 50 39	597
Pálchēria, XXXV 73 31 17.47	42	Rōsanúr " 254 37 8	596
Pēnchalkönda Hill Mark 97 41 49	428	Kálahasti " 266 20 45	635
Pallakönda, XXXII 125 2 40.90	41	Tōndamanád Pagoda 290 18 52	636
Allikönda Hill Mark (helio.) 172 36 38	407	Kambákamdurgam " 298 35 17	619
Kistama, XXXI 192 6 19.99	41	Sadasivapuramkönda " 340 34 17	650
Narasimhakönda Hill Temple 217 50 24	411	Nagari, XXXIII* 352 15 3	647
Bandalduru, XXXIV 254 9 44.61	47		
Gurramkönda, XXXVII 331 17 54.67	44		
Kannaköndaráyan Temple 347 26 35	439		

* This station appertains to the Madras Longitudinal Series.

Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance	Name of Station with Azimuths of surrounding Points	No. of Triangle giving Distance
Yërragattu, LXVI		Yërrakönda, XXX	
Bëzvada, LXIX	88	Chákalakönda, XXVII	39
Tadikönda Hill Pagoda	726	Rájalli, XXVIII	39
Anantavaram, LXXI	727	Pallakönda, XXXII	40
Köndapalli Hill Fort	701		
Köndúr Hill Pole	700		
Jujúrdurgam, LXVIII	87	Yërrakönda h.s.	
Jammalavoidurgam, LXVII	82	Pulikönda	543
Dálgattu, LXV	81	Ráyavaram	543
Dudugat, LXIII	81		
Ágëripalli Hill Temple	697	Yërraköndapálëm h.s.	
Vallúr Temple	781	Innaparati	247
		Durgappakönda	247
Yërraguntlakota s.		Vënkatarëddipálëm Pagoda	248
Vattalúr	506		
Rámpur Hill Tree	506	Zaladanki s.	
Ikalseeri	507	Köttapalli No. 1	752
		Kávali	753
Yërrakönda, XI		Akkapálëm	751
Mániam, VIII	13	Brahmaukákra	751
Kotapa, IX	13		
Dánapa, XIV	14		

June, 1892.

S. G. BURRARD,
In charge of Computing Office.

MADRAS MERIDIONAL AND COAST SERIES.

CO-ORDINATES AND DESCRIPTIONS OF ALL STATIONS AND POINTS.

The following table gives the co-ordinates of all stations and other fixed points, arranged in alphabetical order, also the descriptions of the secondary and intersected (or unvisited) points, and references to the preceding pages where the descriptions of the principal stations are given.

NOTE.—Principal stations are followed by the Roman numerals I, II, &c., secondary stations by the letters h.s. and s. Stations and points fixed by Colonel Lambton's triangulation have his nomenclature given also, in italics, immediately below their names. The year or season when a station or point was originally fixed is given usually after its description.

For visited stations and points of superior accuracy, the values of latitude and longitude are given to two places of decimals, for well determined objects to one place, and for the remaining points to the nearest second.

The trigonometrical heights in general refer to the upper surface of the pillar or to the mark engraved on top of pillar, building, &c.; but in exceptional cases, where the information is forthcoming in the field books, the surfaces to which the heights refer are specified in footnotes. The spirit-levelled heights are given to two places of decimals of a foot, and the surfaces to which they refer are also indicated in footnotes. In the column of heights, the upper numeral gives the height of the station above mean sea level and the lower is that of the structure itself above ground level.

The numerals in the last column indicate the triangles given on pages 17—E. to 66—E., by which the station or point has been fixed; when these numerals are omitted it is to be understood that no triangles are given.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Abbavaram Pagoda <i>Umbavaram P.</i>	Cuddapah (Kadapa)	Close N. of the Mandavia stream, about 2 miles N.E. by E. of Ráyachoti town, and 1½ miles E. of the junction of the high road from Ráyachoti to Cuddapah: táluk Ráyachoti. 1812.	° ' " 14 4 27·8	° ' " 78 49 10·5	<i>feet</i> ...	528
Adakõnda, LVI	Godávári	<i>Vide page 14—E.</i>	° ' " 17 13 47·99	81 31 35·61	$\frac{1367}{2·5}$	70
Adáligat, XV*	Nizam's Territory	<i>Vide page 5—E.</i>	° ' " 17 22 17·31	79 58 3·69	$\frac{971}{4}$	†
Ádamsáb, X <i>Condavir S.</i>	Kistna (Krishna)	<i>Vide page 7—E.</i> Note:—By subsequent calculations it has been found that this station is identical with "Condavir S." of Colonel Lambton's triangulation of 1812.	° ' " 16 15 12·81	80 19 47·94	$\frac{1675}{1·0}$	16, 95

* This station appertains to the Bider Longitudinal Series.

† For triangle fixing this station, see the Synoptical Volume of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Adavaladevi s. ...	Kistna	On high open ground, about 250 feet N. of a thick jungle of palms and prickly-pear, 400 yards E. of the small village of Gornamtēppa, 500 yards S. of a wide and deep creek called Kōttapālēm Vetsevera which, turning sharply round to the village of Gornamtēppa, winds away to the large and important village of Kōttapālēm: tāluk Repalle. The station is denoted by a circle cut on a large stone firmly embedded in a pillar of burnt bricks and mud cement, 3½ feet square, covered over by a circular mound of earth 17 feet in diameter and 5 feet high. 1885-86.	15 54 42' 26"	80 50 10' 82"	feet ...	1052
Addanki h.s. ... <i>Adtenki H.</i>	Nellore (Nēllūr)	On an isolated hill immediately E. of the high road from Ongole (Vangol) to Guntūr, and about 2¼ miles N. of the town of Addanki on the above mentioned road: tāluk Ongole. 1812.	15 50 48' 34"	80 0 49' 19"	...	268 269
Addanki s. ... <i>Adtenki</i>	"	On the S.E. corner of the ruined fort in the town so called on the high road from Ongole to Guntūr: tāluk Ongole. 1812.	15 48 34' 59"	80 0 54' 28"	...	313 314
Adusumilli s. ...	Kistna	Also called Arsumalli. On the high road from Ongole to Guntūr, about 100 yards N.N.W. of the village so called, 2¼ miles E. by N. of Devarapalli, and 3 miles S.S.W. of Pēddanandipād on the above named road: tāluk Bāpatla. The station is denoted by an iron nail in the head of a wooden peg driven into a mound of earth. 1865-66.	16 1 30' 20"	80 21 17' 03"	...	1038
Āgēripalli Hill Temple	"	On a small hill close N. of the village so called on the road to Nūzvīd, and about 8 miles S.W. by S. of it: zamīndāri Nūzvīd. 1861-62.	16 41 3' 1"	80 49 27' 1"	...	697 698
Agnigundala s. ... <i>Ugnygoondalah</i>	"	On a pagoda about 3 miles E. of Bōllēpalli: tāluk Vinukōnda. 1812.	16 10 36' 69"	79 46 43' 27"	...	243
Ākepād Hill Platform <i>Aukaipaud Hill</i>	Cuddapah	About ¼ of a mile S.W. of the village so called, and 5¼ miles W. by N. of Rājampet Station on the N.W. Line of the Madras Railway: tāluk Pullampet. 1812.	14 12 35' 6"	79 6 55' 5"	...	490
Akkapālēm h.s. ...	Nellore	On a ridge, 158 feet from its western extremity, and about 50 feet above the general level of the country, about ¼ a mile N.W. of the village so called, 1¼ miles W.S.W. of Musunūr, 2 miles E.S.E. of Būdammagunta, and 3¼ miles S.S.W. of Kāvāli town: tāluk Kāvāli. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	14 52 30' 39"	80 1 4' 97"	91	750
Alapād s. ...	Kistna	On the E. bank of a large tank about 100 yards N.E. of the village so called, 1 mile W. of the Nizāmpatnam Canal, 1¼ miles W. of Pēddapūdi, and the same distance S. of Mandūr: tāluk Repalle. The station is marked by a circle and dot engraved on a large stone firmly embedded in the soil. 1863-64.	16 8 39' 10"	80 40 41' 53"	...	1000

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Alimadugu s.	Nellore	On an open piece of waste ground E. of a field having an irrigation well, about 250 yards E.S.E. of another irrigation well, 1½ miles S.S.E. of Mungamuru village, 2½ miles E. of Kadanútála on the high road from Gúdúr to Madras, 1½ miles W. of Vēnkatesvarapálēm, and 1½ miles N.W. of Alimadugu hamlet: táluk Kávali. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 47 9'31"	80 4 17'66"	$\frac{14}{2}$ feet	741
Allikōnda Hill Mark (helio.)	"	Close to Allikōnda h.s.: táluk Rápúr. 1864-65. ...	14 22 38'55"	79 43 50'13"	631	407 408
Allikōnda h.s. <i>Allicondah S.</i>	"	On one of a group of small hills, about 3 miles W. of the village of Podalakurru on the main road from Somatila to Nellore, and 1½ miles S.E. of Mogallúr village: táluk Rápúr. The station is denoted by a mark-stone in the centre of a platform. 1812.	14 22 38'70"	79 43 50'06"	...	409
Allimailmangavaram Pagoda <i>Chirtanoor pagoda or Allimailmangavaram P.</i>	North Arcot (Árkád)	Of the village so called, about 2½ miles S.E. by E. of Lower Tirupati, and 4½ miles W.S.W. of Tirupati Station of the South Indian Railway: táluk Chandragiri. 1812.	13 36 26'7"	79 29 38'9"	...	649
Amarávati Temple No. 1	Kistna	Small temple in the large village so called on the right bank of the Kistna: táluk Sattēnapalle. 1861-62.	16 34 48'4"	80 24 4'7"	...	720 721
Amarávati Temple No. 2 <i>Ummaravutty P.</i>	"	Large temple close to Temple No. 1: táluk Sattēnapalle. 1812. It was refixed in 1861-62.	16 34 46'2"	80 24 5'0"	...	722 723
Ambapuram Pagoda <i>Umbaupooram P.</i>	Nellore	In the village so called, about 2 miles N.W. by N. of Chintagunta: division Pōdili. 1812.	15 41 57'4"	79 29 51'5"	...	323
Amrabad h.s. <i>Amrabad S.</i>	Nizam's Territory	On a hill, about 2 miles S.S.W. of the large village so called, and 2½ miles E. by N. of Turkapalle on the road to Amrabad. The station is marked by a circle on a rock over which a platform, 11 feet high, was raised. 1812.	16 21 26'98"	78 51 52'49"	$\frac{2461}{11}$	*
Anagaripálēm s.	Nellore	On high ground covered with scrub jungle. The Chipalēru river flows S.E. at a distance of 200 yards. The station is about 242 feet W.N.W. of a tamarind tree, 78½ feet N.W. by N. of a Ním tree, 1 mile E. of Kola-dinne hamlet, 1½ miles S. by W. of Anagaripálēm, ¼ of a mile N.N.W. of Juvaldinne, and 5½ miles S. of the port of Tummalapēnta: táluk Kávali. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 49 15'30"	80 6 25'53"	$\frac{22}{2}$	745
Anamanthu s.	Kistna	On a wide piece of high ground, about ¼ of a mile W. of Tukulúr village, and 1½ miles E. by S. of the town of Núzvid: zamindári Núzvid, thána Ganavaram. The station is denoted by a mark-stone embedded in the ground. 1862-63.	16 46 30'38"	80 55 13'02"	...	690

* For triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Anantagiri, I	Nizam's Territory	<i>Vide</i> page 5—E.	17 3 12'84	80 1 52'03	$\frac{821 \cdot 44}{2 \cdot 8}$ feet	2, 8
Anantagiri h.s. <i>Anantaaceeres S.</i>	"	On the summit of a hill, about 30 feet S. of the principal station so called. The station is denoted by a platform having a mark-stone inserted in it. 1812.	17 3 12'02	80 1 52'37	823	99 100
Anantavaram, LXXI	Kistna	<i>Vide</i> page 16—E.	16 30 55'18	80 27 56'75	$\frac{845}{1 \cdot 5}$	89
Anantavaram Temple	"	In the village of this name, about $\frac{1}{2}$ of a mile E.S.E. of the principal station so called: taluk Guntur. 1861-62.	16 30 39'4	80 28 29'5	...	724 725
Andagundala s. <i>Undagoondalum</i>	Nellore	On the fort so named, about $1\frac{1}{4}$ miles W. of the high road from Madras to Nayudupet, and $4\frac{1}{4}$ miles S. of Sularpet on the above mentioned road: zamindari Venkatagiri, division Polur. 1812.	13 37 35'33	80 2 42'06	...	640
Andrankonda Peak <i>Undrancondah</i>	"	Of a small detached hill, about $1\frac{1}{4}$ miles W. of Kuchipudi, and $3\frac{1}{4}$ miles S.S.W. of Maripudi village: division Pddili. 1812.	15 27 33	79 40 38	...	846 847
Anepudi, XXXIX	"	<i>Vide</i> page 11—E.	13 48 24'40	80 2 4'56	$\frac{128}{14 \cdot 0}$	46, 50
Angalakudur s.	Kistna	On a little mound about $\frac{1}{2}$ a mile E. of the village so called, $2\frac{1}{4}$ miles W. of Tenali near the Nizampatnam Canal: taluk Repalle. The station is denoted by a circle and dot engraved on a large stone firmly embedded in the ground. 1863-64.	16 14 24'87	80 39 24'64	...	998
Ankalamman Hill Peak <i>Ankalamman Peak</i>	Kurnool (Karnul)	At the W. edge of a flat-topped range running nearly S. and N., about 4 miles S.E. by E. of Daddavada on the high road from Kurnool to Cumbum (Kambham), and $6\frac{1}{2}$ miles N.E. of Idamakal close to the road from Cud-dapah to Cumbum: taluk Cumbum. 1812.	15 21 27	79 6 56	...	375 376
Annasamudram Mosque <i>Unnamahsundrumpettah Mosque</i>	Nellore	Known as Hazrat Gumbalaur or Rahmat Ullah Mosque. About $3\frac{1}{4}$ miles W. by N. of Chiramana village, and $6\frac{1}{2}$ miles N.E. by N. of the town of Atmakur: taluk Atmakur. 1812. It was refixed in 1863-64.	14 41 27'0	79 43 18'7	...	405 406
Antravedi No. 1 s.	Godavari	About a mile S.S.E. of the northern extremity of the village which is a long line of straggling and scattered huts about $7\frac{1}{4}$ miles long, running N.E. by E. and S.W. by W., and surrounded by palmyra and cocoanut trees: taluk Narsapur. The station is on a comparatively firm sand dune about 13 feet above the high water-mark and 40 yards from the sea coast, having a 6-inch layer of alluvial deposit with a scanty growth of vegetation thereon which renders it somewhat permanent. As a further precaution the station and part of the dune were covered over with a 1-foot layer of soft mud to invite vegetation. The station is denoted by a thick sal wood stake 6 feet long driven 4 feet into the ground. 1885-86.	16 21 25'05	81 51 30'78	† 16	914

* To upper surface of circular pillar surmounted by a rectangular protecting pillar.

† To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Antravedi No. 2 s. ...	Godávári	On firm ground on a plain $\frac{1}{4}$ of a mile N. of the village of that name. On the west of the station are large patches of swamp interspersed here and there by small rice fields: taluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 $\frac{1}{2}$ feet square and 1 $\frac{1}{2}$ feet above the surface of the ground, which contains two mark-stones, one at the foundation and the other on the top. A mound of earth has been raised over the station. 1885-86.	16 21 51' 53	81 49 55' 13	$\frac{7}{1.5}$ feet	915
Antravedi No. 3 s. ...	"	On a sand dune, about 3 $\frac{1}{2}$ miles S.W. of the northern extremity of the village, and 20 yards from the sea coast. The dune is not the highest, several in the neighbourhood and within 50 yards being higher, and is not covered with any alluvial deposit and hence has no vegetation on it. The station is 14 feet above the high water-mark: taluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground. As a further precaution the station and part of the dune were covered over with a 1-foot layer of soft mud to invite vegetation. 1885-86.	16 20 34' 55	81 49 57' 69	* 19	916
Antravedi No. 4 s. ...	"	On firm ground on the boundary of the two extensive fields, about 1 $\frac{1}{4}$ miles N.E. by E. of Antravedi temples, and about 2 $\frac{1}{2}$ feet above the general ground level. There is a small grove of cocoanut trees about 400 yards N.W. of the station: taluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 $\frac{1}{2}$ feet square and 1 $\frac{1}{2}$ feet above the surface of the ground, which contains two mark-stones, one at the foundation and the other on the top. A mound of earth has been raised over the station. 1885-86.	16 20 47' 08	81 48 9' 11	$\frac{8}{1.5}$	917
Antravedi No. 5 s. ...	"	On a low sand dune covered with a thin coating of alluvial soil below which is all loose sand, about 1 $\frac{1}{4}$ miles E. by S. of Antravedi temples. The station is 8 $\frac{1}{2}$ feet above the high water-mark and about 40 yards distant from it: taluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground. As a further precaution the station and part of the dune were covered over with a 1-foot layer of soft mud to invite vegetation. 1885-86.	16 19 44' 86	81 48 13' 48	* 13	918
Antravedi No. 6 s. ...	"	On firm ground on an open plain surrounded by swamps, about a mile N. of the southern extremity of the village. The temples of Antravedi are situated about $\frac{1}{2}$ of a mile to N.N.E.: taluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 $\frac{1}{2}$ feet square and 1 $\frac{1}{2}$ feet above the surface of the ground, which contains two mark-stones, one at the foundation and the other on the top. A mound of earth has been raised over the station. 1885-86.	16 19 46' 57	81 46 3' 91	$\frac{7}{1.5}$	919
Antravedi Obelisk Beacon ...	"	Near the left bank of the Vasista branch or western discharge of the Godávári river and close to its mouth, about 1 $\frac{1}{4}$ miles E.S.E. of Vamaldevi, and $\frac{1}{4}$ of a mile N.E. of Narsápur Point on the sea coast: taluk Narsápur. 1885-86.	16 18 48' 4	81 45 46' 9	† 81	988 989
Antravedi Temple ...	"	Highest temple in this village, about 4 $\frac{1}{2}$ miles S. of Ramesvaram: taluk Narsápur. 1885-86.	16 19 58' 7	81 46 33' 7	‡ 57	986 987
Appajipet Mosque <i>Appajeepett</i> ...	Nizam's Territory	South minaret of the mosque about 7 $\frac{1}{4}$ miles N.W. of Nalgönda town. 1821.	17 7 44' 3	79 13 4' 0	...	121 122

* To ground level.

† To top of beacon.

‡ To top of temple.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Appalayagunta Peak <i>Applayagoontah P.</i>	North Arcot	About 4 miles S.W. by W. of Pudi Station of the Madras Railway, N.W. Line: táluk Chandragiri. 1821.	0 1 "	0 1 "	feet	594
Appikatla s. ...	Kistna	On the bund of a tank, about 1½ miles S.W. of the village of this name close W. of the main road from Bapatla to Guntúr, and 1 mile E. of Mulapálém: táluk Bapatla. The station is denoted by a circle and dot engraved on a brick firmly embedded in the ground with three other bricks for the theodolite stand. It is covered over by a mound of earth about 4 feet high. 1865-66.	15 57 23' 26	80 31 40' 80	...	1032
Arambákam s. ... <i>Arumbauk</i>	North Arcot	On a pagoda of the large village so called on the high road from Nellore to Madras, and about a mile from the W. bank of the Pulicat (Paraverkád) lake: zamindári Kálahasti. 1812.	13 31 52' 87	80 7 12' 50	...	654
Árani s. ... <i>Arnee</i>	Chingleput (Chéngalpat)	In the fort immediately N. of the large village of this name on the main road from Kálahasti to Pudu váyal, and about 4 miles W. of the latter place: táluk Pónneri. 1812.	13 20 21' 98	80 7 51' 63	...	659
Armeghon Light-house	Nellore	Centre. On the coast and near Monapálém village. The shoal lies E. by N. of the light-house. It is said to be named after Arumugam Mudaliar: táluk Gúdúr. There is a circle and dot mark cut on a stone embedded in the floor of the balcony of the light-house, which is at an azimuth of 20° from the centre of the light-house and 4 feet 4½ inches distant therefrom. The co-ordinates given here are of the centre of the light-house. 1864-65.	13 53 35' 4	80 14 48' 7	* 112	616 617 618
Atmakúr Hill Tree <i>Autcoor H.</i>	"	On a hill at the E. foot of which lies the town of this name: táluk Atmakúr. 1812.	14 36 49	79 39 55	...	413
Attirála Hill Pagoda <i>Hutterall H.P.</i>	Cuddapah	Highest spire. On a small hill, about a mile S.E. by E. of the large village of Madanagopálapuram, and 4½ miles in the same direction of Nandalúr Railway Station on the line from Bombay to Madras: táluk Pullampet. 1812.	14 14 32' 9	79 12 24' 9	...	486 487
Aupád, LVIII	Godávári	<i>Vide page 14—E.</i>	16 53 3' 22	81 26 1' 89	† 191' 45 7' 0	76
Babbépalte, XIII	Kistna	<i>Vide page 7—E.</i>	15 56 50' 01	80 10 20' 16	664 1' 0	15, 18
Badvel s. ... <i>Budvail</i>	Cuddapah	On the N.W. angle of the fort of this town: táluk Badvel. 1812.	14 44 55' 64	79 6 10' 89	...	396
Bagarapet Hill Peak <i>Baukrapett H.</i>	"	Centre of the peak. Close to Bagarapet h.s.: táluk Sidhavattam. 1812.	14 26 50	78 59 7	...	465 466

* To floor of lamp room.

† To mark-stone on top of circular pillar.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Bagarapet h.s. ...	Cuddapah	On a conspicuous peak of the Nallakōnda Hills, about 2 miles S.W. of the town of Siddhavattam at the junction of the high road from Badvel town and Vōntimitta Railway Station to Cuddapah. It is on the boundary of the village lands of Gopālpuram, Ankampalli Gundlamula and Kalamalopalli. The high road and Railway Line from Cuddapah to Madras are between it and the Pālkōnda Range on the south: tāluk Siddhavattam. The station consists of a circular platform of earth and stones, 8·7 feet high and 9 feet in diameter, having a mark-stone embedded in its surface. 1871-72.	14 26 49·60	78 59 6·19	1825	773
Bairadevargudda Pagoda <i>Byradavergooda P.</i>	"	On a hill, about 1½ miles E. of Porumāmilla on the road from Cumbum to Badvel: tāluk Badvel. 1812.	15 0 48·5	79 3 17·3	...	389
Bairagundal Hill Mark <i>Byra Goondal</i>	"	On one of the high hills of the Pālkōnda Range, about 5½ miles W. by S. of Ballipalle Station of the Madras Railway North-West Section: tāluk Pullampet. 1812.	13 45 38·79	79 22 55·37	...	581
Ballavol s. ...	Nellore	On a small piece of waste land with rice fields to S. and N. and a group of palm trees to W., about 600 yards N.W. by W. of Ballavol: tāluk Gūdūr. The station consists of a masonry pillar 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 6 53·90	80 5 33·68	$\frac{8}{2}$	607
Balusutēppa s. ...	Godāvāri	On the centre of the paka and slightly arched roof of a rectangular temple between two separate blocks of the fishing village of that name. These blocks have an interval of about 120 yards of open space between them. The centre of the roof was carefully ascertained by measurements. The temple lies at a bearing of 57° along its length, and is dedicated to the deity Lachmanesvaram. The dimensions are as follows:—the length is 19 feet 8 inches, width 12 feet 6 inches and the height up to the top of the arch is 9 feet 3 inches. The station is about 4½ miles S.E. by E. of the large village of Kōttapalli: tāluk Amalāpuram. The station is denoted by a mark-stone embedded in the roof. 1885-86.	16 37 48·67	82 18 25·13	11	883
Bandalduru, XXXIV	Nellore	<i>Vide page 10—E.</i> ...	14 18 11·30	79 58 40·64	$\frac{141' 46}{2 \cdot 0}$	47
Bandanchērla, LXI	Godāvāri	<i>Vide page 14—E.</i> ...	17 3 36·18	81 6 12·93	$\frac{1118}{2 \cdot 0}$	78
Bandapalli Hill Pagoda <i>Bundapilly Hill and Pagoda</i>	Cuddapah	About ¼ a mile E.S.E. of Bandapalli village close E. of the road from Rāyachoti to Pulivēndla, and 4½ miles N. of the town of Rāyachoti: tāluk Rāyachoti. 1812.	14 7 34·6	78 47 30·0	...	526
Bandapalli Platform <i>Bundapilly H.</i>	"	Close N.E. of the village of Mudiyaṁvaripalli, about 1½ miles S. by E. of Navabupet, 6½ miles N.E. of Rāmapuram on the road from Vāyalpād, and 4 miles N.N.E. of Nagarimadugu village: tāluk Vāyalpād. 1812.	13 45 14·4	78 45 58·6	...	565 566
Bāpatla s. ...	Kistna	About 1½ miles N.W. of the town so called on the high road from Ongole to Masulipatam (Machilipatnam): tāluk Bāpatla. The station is denoted by a circle and dot engraved on a flag-stone firmly embedded in the ground. 1865-66.	15 54 20·73	80 29 16·48	...	1033

* To mark-stone on top of circular pillar.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Béllamkōnda Hill Mark (helio.)	Kistna	On the highest part of a hill, about 1 mile N.E. by N. of the village so called, and 2½ miles N. of Rájupálém on the high road from Hyderabad (Haidarabad) to Guntúr: táluk Satténápalle. 1861-62.	0 1 " 16 30 16'39	0 1 " 80 3 31'61	feet 1563	717
Béllamkōnda Rock ...	"	On hill, near the tower of the fort and close to Béllamkōnda Hill Mark: táluk Satténápalle. 1868-69.	16 30 3	80 3 28	...	153 154
Béžváda, LXIX ...	"	<i>Vide page 15—E.</i>	16 31 12'70	80 38 57'99	$\frac{697}{0'5}$	88
Béžváda Hill Redoubt <i>Bejwadda H.</i> ...	"	Turret. On a hill, about ¼ a mile N.W. by N. of the town of Béžváda on the left bank of the Kistna, and 1 mile E S.E. of Bhavánipuram on the high road from Nandigáma to Masulipatam: táluk Béžváda. 1812.	16 31 25'3	80 38 59'3	...	189
Bhairapálém s. ...	Godávari	On a low sandy ridge about 7½ feet above the general ground level. The ridge is artificial and is formed from excavations thrown up from an adjoining tank lying 55 feet to N.W. About 2½ miles S.W. by S. of Narsápur town, ¼ of a mile S.E. from the E. extremity of the village of that name. About 440 yards to the S. lie swampy creeks: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones, at foundation and top, and is covered over by a mound of earth. 1885-86.	16 23 22'04	81 42 50'59	$\frac{16}{1'5}$	922
Bhairaswámi Temple ...	"	In the village of Másanatēppa about ¼ a mile from the sea coast: táluk Amalápuram. 1885-86.	16 39 26'5	82 21 15'5	...	980 981
Bhattiprol s. ... <i>Buttiproal</i>	Kistna	In the village so called on the main road from Bápatla to Vállatúr on a branch of the Kistna river, about ¼ of a mile E. of Addipalli, and 2 miles W.S.W. of Vállatúr: táluk Repalle. 1812.	16 5 54'50	80 49 24'03	...	198 194
Bhōngir h.s. ... <i>Bhongeer</i>	Nizam's Territory	On the old palace of Kutabsháh in the hill fort of Bhōngir. The station is marked by a circle and dot cut in the plaster of the terrace. It is identical with Bhonágír h.s. of the Bider Longitudinal Series. 1819.	17 30 52'73	78 56 5'47	2040	*
Bhrugubanda Hill Temple ...	Kistna	On a small low, isolated hill, about 1½ miles S. by E. of the village so called, 2 miles E. of Nagavaram, and 3½ miles N.E. by N. of Rēddigúdém on the high road from Hyderabad to Guntúr: táluk Satténápalle. 1861-62.	16 27 16'6	80 8 12'0	...	718 719
Bikkavol s. ...	Godávari	On a large stone-built temple about ¼ of a mile N. of the large and well-known village of Bikkavol, ¼ a mile S. of the Sámalkot Canal, 2½ miles E. of Balabhadrapuram, and 2 miles N. of Vulapalli: táluk Rámachandrapuram. 1861-62.	16 57 39'10	82 5 40'08	...	825
Bikkavol Temple ...	"	Spire of the temple in the village so called: táluk Rámachandrapuram. 1861-62.	16 57 30'2	82 5 27'7	...	866 867
Bitragunta Hill Pillar ...	Nellore	Iron pillar on the hill so called, 87 feet N.W. of Bitragunta h.s.: táluk Kávali. 1886-87.	14 47 57'0	80 1 8'2	...	772

* For triangles fixing this station, see the Synoptical Volume of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Bitragunta h.s. ...	Nellore	On a small isolated hill, about a mile S. by E. of the village so called, and 1½ miles N.W. of Kadanutala village on the high road from Madras to Guntúr. The directions and distances of the adjacent objects are:— Bitragunta Temple S. by W., feet 95; Bitragunta Iron Pillar N.W., feet 87: táluk Kávali. The station is denoted by a circle and dot cut into the roof of the porch entering the court-yard of the temple and plumb over which two bricks were cemented to the roof, the upper one bearing a circle and dot. 1886-87.	0 1 " 14 47 57.59	0 1 " 80 1 7.60	<i>feet</i> 150	735 786
Bitragunta Hill Temple ...	"	Spire of the temple on the hill so called, 95 feet S. by W. of Bitragunta h.s.: táluk Kávali. 1886-87.	14 47 56.7	80 1 7.5	...	771
Bodapod s. ...	Kistna	On the E. bund of a tank about 200 yards N. of the village so called, 1½ miles E. by N. of Kõndamúdi, and 2½ miles N.W. of Intúr: táluk Repalle. The station is marked by a circle and dot engraved on a large stone firmly embedded in the ground. 1863-64.	16 5 18.68	80 38 41.95	...	1001
Bodikurapád Pagoda <i>Boodakoorapaud P.</i>	Nellore	White pagoda of the village so called, about 9 miles S.S.E. of the town of Darsi: division Darsi. 1812.	15 39 28.3	79 47 26.2	...	324
Boligutta Hill Mark <i>Boleegootah</i>	Nizam's Territory	About 2 miles S.E. of Mandra, and 2½ miles N. by E. of Nárvatpalli from which a road leads to Nalgõnda town. It is identical with Bolíguttá Hill Mark of the Bider Longitudinal Series. 1819.	17 14 2.52	79 14 38.19	...	...
Bõmmavaram h.s. <i>Bomavaram H.</i>	Cuddapah	About 7½ miles N. of Kodúr Railway Station on the line from Bombay to Madras, 1 mile W. of the road from this Railway station passing through the village of Bõmmavaram, and ½ a mile S. by W. of Ratsapalli: táluk Pullampet. 1812.	14 3 19.72	79 23 27.94	...	498 494
Bonamalai Hill Platform <i>Paulneecondah</i>	"	On the centre of the great rock on a hill, about a mile E.S.E. of the village so called, and 4½ miles S.S.E. of Chinnamandem on the road from Madanapalle to Ráyachoti: táluk Ráyachoti. 1812.	13 53 6.1	78 45 6.3	...	560 561
Borardibba s. ...	Kistna	On the seashore, about a mile E. by S. of Tumberpálém village, 2½ miles S.E. of Hamsaldevi village, and 5½ miles N.N.E. of Point Divi Light-house: táluk Bandar. The station is denoted by a small iron nail in the head of a large wooden pin driven into the ground. 1865-66.	16 3 11.69	81 12 31.66	...	1020
Brahmankákra s. ...	Nellore	On firm ground at the N.W. side of the bund of a tank called Yélla Rõddigunta, about 3 miles E. by S. of Brahmankákra village, 1½ miles E.N.E. of Kamma-váripálém, and 3½ miles W. of Gavúravaram on the high road from Gúdúr to Madras: táluk Kávali. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 49 37.46	79 59 8.60	$\frac{36}{2}$	787
Buchampet Hill Mark (helio.) ...	Godávári	About 1½ miles N. of Nandúr, and 11½ miles S. by E. of the town of Gõlgõnda. It is identical with Buchampettá Hill Mark of the Bider Longitudinal Series. 1860-61.	17 30 31.60	82 31 36.04	...	*

* For triangle fixing this point, see the Synoptical Volume of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Buchchirēddipālēm Pagoda <i>Bouchareddypolliam P.</i>	Nellore	In the village so called, about a mile N. of the high road from Nellore to Cuddapah: taluk Nellore. 1812.	14 32 40·6	79 55 27·0	feet ...	421
Budthaid h.s. <i>Boodthaid S.</i>	Cuddapah	On a point on the S.W. edge of the mass of hills known as the Palkōnda Hills, about 7 miles E. by S. of Mudumpād on the left bank of the Pincha river, and 8 miles N.E. by N. of Vustikayalapēnta village: taluk Rāyachoti. The station is denoted by a very large platform and a pyramid of stones. 1812.	13 55 1·55	79 8 59·54	3082	481 482
Bujanmalai Stone <i>Boojanmalli</i>	"	Remarkable stone on a hill, about 2½ miles W. of Madhavaram village, 2½ miles N.N.E. of Yēguva Gōttived village, and ¼ a mile N. of the road from Rāyachoti to Kadiri: taluk Rāyachoti. 1812.	14 3 4	78 38 34	...	* 534
Chākalakōnda, XXVII	Nellore	<i>Vide page 9—g.</i>	14 56 45·05	79 33 25·10	$\frac{604}{2·0}$	30, 34
Chalapalli s.	Godāvāri	On low ground surrounded by swamps and rice fields, about a mile E. of the village so called, and 1½ miles W. of Surasaniyānam: taluk Amalāpuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 29 57·77	82 7 1·64	$\frac{9}{1·5}$	896
Chamallamūdi Pagoda <i>Chomdlamoody P.</i>	Kistna	In the village so called about 5½ miles S. by W. of the town of Guntūr: taluk Guntūr. 1812.	16 12 39·0	80 28 48·8	...	186
Chandalūr h.s. <i>Chendaloor H.S.</i>	Nellore	On the northernmost and highest of a range of hills running N. and S., about 2 miles S.E. by E. of the village so called, and 3½ miles W.N.W. of the town of Darsi: division Darsi. 1812.	15 47 10·37	79 39 59·97	1433	249
Chandalūr Pagoda <i>Chendaloor H.S.</i>	"	Of the village so called, about 5½ miles W.N.W. of the town of Darsi: division Darsi. 1812.	15 48 6·0	79 38 36·3	...	322
Chandragiri s. <i>Chendergherry</i>	North Arcot	On a small magazine on the highest part of the drug in the town of Chandragiri, about 7½ miles S.W. by W. of Tirupati which is 6½ miles E. of Tirupati Station of the South Indian Railway: taluk Chandragiri. 1812.	13 35 12·42	79 20 10·41	...	† 585
Chāpal Lanka s.	Kistna	Also known as Fish Island. At the N.E. end of the island or reef of this name, about a mile W. of the main land and opposite the inlets leading to Kōttapālēm and Lankardibba. The island or rather the bar extends southwards for 3 miles. It is this reef that breaks the force of the surf and so forms the Kōttapālēm harbour: taluk Repalle. The station is denoted by a wooden peg 5 feet long driven into the ground. 1885-86.	15 48 18·69	80 50 49·53	...	1061 1062
Chāpalmundi Beacon s.	"	About 330 feet from the high water-mark at the extremity of a tongue of land called "False Point Divi", at the mouth of the Kistna river, on its right bank: taluk Repalle. The beacon consists of an 8-inch square post of teak, standing to a height of 23 feet 3 inches above the surface of the ground, and having two pairs of cross-arms attached to it, the smaller pair 6 inches and the larger 4 feet from the top. The post is shod with a block of teak and this together with the lower portion of the post is embedded in a block of masonry 6 feet square and 10 feet deep. The letters G.T.S. are engraved on the post. The arms and post above the dune are painted white. 1887-88.	15 43 37·17	80 52 22·76	...	1063

* For another triangle fixing this point, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 16°.

† For another triangle fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Chedalaváda Pagoda <i>Cheddelwáda P.</i>	Nellore	In the village so called, about 1½ miles N.E. by E. of Inamanamelúr on the right bank of the Gundlakamma river, and 7½ miles N.N.E. of the town of Ongole: táluk Ongole. 1812.	15 36 36.3	80 8 1.0	feet ...	327 328
Chemakurti, XIX ...	"	<i>Vide page 8—E.</i> ...	15 37 12.36	79 52 4.69	$\frac{2093}{1.0}$	22, 24
Chemakurti h.s. ... <i>Shiggoorteecondah</i>	"	Close to the principal station of this name: táluk Ongole. The station is denoted by a mark in the centre of a platform. 1812.	15 37 12.38	79 52 4.54	...	311 312
Chēmbedu, XXXV*	Chingleput	<i>Vide page 12—E.</i> ...	13 15 22.76	80 1 11.17	$\frac{257}{70.3}$	54, 57
Chēmbedu s. ... <i>Chumbade H.</i>	"	About 105 feet S.S.W. of the principal station of this name: táluk Tiruvallúr. 1802-3.	13 15 21.85	80 1 10.65	...	†
Chēnnubhōttapálēm s.	Kistna	On a tank bund, about 250 feet N.W. of the village so called, 2½ miles N.N.W. of the large village of Paruchúr on the high road from Ongole to Guntúr: táluk Bápáta. The station consists of a mud pillar 8 feet high. 1865-66.	16 0 21.76	80 17 49.25	...	1039
Chēnráyankōnda Pagoda <i>Chenroycondah</i>	Cuddapah	On the S. end of a hill, about 2 miles W. of Budaváda, and 7 miles W. by N. of the town of Badvel: táluk Badvel. 1812.	14 45 54.9	78 59 59.0	...	395
Chērbrolu Pagoda ... <i>Chabole P.</i>	Kistna	White pointed pagoda in the village so called on the high road from Guntúr to Pōnnúr, and about 1½ miles N.N.W. of a bridge on the above road crossing the Kōmmamúr Canal: táluk Guntúr. 1812.	16 11 39.9	80 34 9.1	...	187 188
Chērlakōnda Hill Platform <i>Cherlocondah</i>	Cuddapah	About 2 miles S.W. of the town of Vōntimitta: táluk Siddhavattam. 1812.	14 22 14.3	79 3 14.8	...	473 474
Chēttipalle Hill Pagoda <i>Chettipilly P.</i>	"	Tower of the pointed pagoda about 1½ miles S. of the village of this name, and 8 miles S.W. by W. of the large village of Timmasamudram: táluk Ráyachoti. 1812.	13 54 21.8	78 51 32.6	...	555
Chikri, LXXV ...	Kistna	<i>Vide page 16—E.</i> ...	16 35 37.71	80 7 0.77	$\frac{796}{1.0}$	97
Chilakalapúdi s. ...	"	On a mound, the site of a house destroyed in the cyclone of 1st November, 1864, about 200 yards E. of the village so called, midway between two small tanks of salt water, 50 yards S. of an old masonry well, and a mile E. of the district court at Masulipatam: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 11 22.24	81 12 19.55	$\frac{20}{1.5}$	949
Chinna Gōttikallu Fort <i>Gooticul</i>	Cuddapah	S.E. angle. At the W. foot of a small isolated hill on the main road from Bakrapet to Píler, and about 4 miles E. of the village of Bōmmayágaripalli: táluk Váyalpád. 1812.	13 38 55.9	79 7 41.4	...	†

* This station appertains to the Madras Longitudinal Series.

† For triangles fixing this point see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Chinna Kona s. ...	Kistna	So called from a village of this name which was situated about a mile S. of the station and was washed away by the cyclone of 1st November, 1864. About 2 miles S.E. of Gundupálém, 3 miles E. of Chinnapuram, and 4½ miles S.W. of Masulipatam Fort: táluk Bandar. The station consists of a kacha pillar 8 feet above the ground level, with one mark-stone in the foundation and others above it. 1865-66. It was re-visited in 1885-86.	16 6 40' 23"	81 8 16' 73"	... feet	953 1022
Chinnamandēm s. <i>Chinni Mundium</i>	Cuddapah	On the S.W. angle of the fort lying close E. of the Mandavia stream and about ¼ a mile W. of the high road from Madanapalle to Ráyachoti: táluk Ráyachoti. 1812.	13 56 20' 26"	78 43 11' 10"	...	551 552
Chinna Pándráka s. ...	Kistna	On a long high bank between two salt water Jhils, about a mile N.E. of Chinna Pándráka village. A group of huts belonging to the salt Chaukidár lie 300 yards to S.E., across a wide piece of salt water which dries up during April to June. The path from Chinna Pándráka to Góllapálém runs 20 feet W. of the station: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 20 55' 52"	81 20 57' 67"	14 1' 5"	988
Chinnapulivaru s. ...	"	On the top of a temple about 80 yards W. of the village so called, 1½ miles N.N.E. of Bhattiprol on the high road from Bápatla to Vállatúr, and 1½ miles N.W. by W. of the latter: táluk Repalle. The station is marked by a circle and dot engraved on a pillar of burnt bricks, 3 feet high. 1865-66.	16 7 38' 30"	80 50 14' 53"	...	1005
Chinna Tēppasamudram Pagoda <i>Chinni Tēpsundrum</i>	Cuddapah	Platform of the pagoda in the fort, about ¼ a mile N. of the main road from Váyalpád to Gumma Samudram, and 4½ miles W. of the former place: táluk Madanapalle. 1812.	13 38 45' 3"	78 36 24' 1"	...	*
Chinna Ubuledevarakōnda Pagoda <i>Chinni Wobledavurcondah</i>	"	On a hill, about 1½ miles N. of the village of Konepet on the high road from Pulivēndla to Ráyachoti: táluk Ráyachoti. 1812.	14 14 2' 3"	78 41 29' 0"	...	522
Chinna Yachávaram h.s. ... <i>Chinni-jarla or Yasaurum H.</i>	Kurnool	On a hill, about 1½ miles E. by N. of Pēdda Yachávaram village: táluk Márkápúr. 1812.	15 46 5' 49"	79 23 36' 14"	...	282 283
Chintákōmmadinne Hill Platform <i>Chintakomdinna</i>	Cuddapah	About 2½ miles W.S.W. of the large village so called, and 6 miles S.W. of the town of Cuddapah: táluk Cuddapah. 1812.	14 24 53' 2"	78 48 22' 9"	...	*
Chintákuntabanda Pagoda ... <i>Chintacoontabunda P.</i>	"	On an isolated hill, about 5 miles N. of the police station and village of Sundupalle on the road to Ráyachoti town: táluk Ráyachoti. 1812.	14 3 12' 6"	78 57 38' 6"	...	532 533
Chintalapád, LXXII ...	Kistna	<i>Vide page 16—E.</i> ... NOTE.—When visited by the Levelling Party in 1889-90, the station was found in good order.	16 39 50' 30"	80 17 24' 01"	† 187' 44 2' 3"	90, 92

* For triangle fixing this point, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

† To mark-stone on top of circular pillar.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Chintalapád Temple ...	Kistna	In the village so called, about a mile W. of the Muniyer river, and 1½ miles S. of Totaravulapád: táluk Nandigáma. 1861-62.	16 39 30' 9"	80 19 14' 2"	... feet	714
Chintámanikoil s. <i>Chintominicoil</i> ...	Chingleput	About ¼ of a mile from the sea coast, 1 mile N.N.E. of Kálánji and 1½ miles S. by E. of Karinkáli village: táluk Pónneri. 1802-3.	13 20 36' 11"	80 22 45' 11"	...	*
Chintámul No. 1 s. ...	Godávári	On a dune of loose sand not intermixed with alluvial soil. The station adjoins the village of Sankaragup-tam at its S.W. extremity, and is about 13 feet above the high water-mark, 175 yards from the sea coast, and 1½ miles S.S.E. of the N.E. extremity of the village of Chintámul: táluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground. A 1-foot layer of soft mud was thrown over the station and part of the dune to invite vegeta-tion. 1885-86.	16 22 13' 34"	81 52 59' 49"	† 16	912
Chintámul No. 2 s. ...	"	On elevated ground in an open glade about 18 inches above the surrounding level. The station is between two lines of houses at the N.E. extremity of the vil-lage of that name, about 6 feet lower than the sites of the huts which are on partially elevated ground, and is surrounded by palmyra and cocoa-nut trees: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 22 42' 38"	81 51 59' 38"	$\frac{9}{1.5}$	913
Chintápalle Building <i>Chintapilly</i> ...	Kistna	Tiled building at the N. gate of the fort of the village so called on the right bank of the Kistna river, and 2½ miles N.W. of the large village of Pökkunúr: táluk Satténápalle. 1812.	16 41 15"	80 11 1"	...	165 166
Chintemeklapalli h.s. <i>Chintamaklepilly H.</i> ...	North Arcot	On a low hill, about 3 miles W. by S. of Guttapálém vil-lage, and 3½ miles S. by E. of Kalikiri. The station is denoted by a platform. 1812.	13 35 35' 10"	78 51 23' 56"	...	† 559
Chirayánam s. ...	Godávári	On low ground about 2 feet above the swamps and lakes which surround it on all sides except towards the south where the villages of Chirayánam and Yan-tarpálém stand, close N.W. of the former about 4 miles S. by E. of the large village of Katrenikona, and ¼ a mile N.N.E. of Yantarpálém: táluk Amalápu-ram. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground, and is covered over by a layer of soft mud 1 foot thick. 1885-86.	16 31 34' 38"	82 12 50' 71"	† 6	891
Chirku Lanka No. 1 s. ...	"	On a small bund on the low lying ground between two rice fields. It is in the lands of a hamlet of that name which belongs to the village of Gothingi, about 1½ miles E. of the southern end of the scattered village of Guttinadivi Vemavaram, and ¼ of a mile S.E. of Chirku Lanka No. 2 s.: táluk Amalápuram. The station consists of a pillar 2 feet square and 2 feet below and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 40 6' 36"	82 18 18' 84"	$\frac{2}{1.5}$	881

* For triangles fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

† To ground level.

‡ For another triangle fixing

this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Chirku Lanka No. 2 s. ...	Godávári	On the centre one of three artificially raised mounds 2 feet above the general ground level, which apparently is not subject to the action of ordinary floods during the rains. It was fixed and built with the object of readily identifying Chirku Lanka No. 1 s. The mounds are old sites of deserted cattle sheds. About 1½ miles E. by N. of the southern end of the scattered village of Guttinadivi Vemavaram, and 300 yards N. by W. of the hamlet of Chirku Lanka which belongs to the village of Gothingi: táluk Amalápuram. The station consists of a pillar of masonry 2 feet below and 3½ feet above the surface of the ground and 3 feet square at the base, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 40 14' 99	82 18 11' 41	feet ...	971
Chirku Lanka No. 3 s. ...	"	About 1½ miles E.N.E. of the southern end of the scattered village of Guttinadivi Vemavaram. This is a temporary station laid down with a view only to determine the position of Yanam Church in the French Settlement: táluk Amalápuram. 1885-86.	16 40 35' 30	82 18 7' 65	...	972 973
Chitvel s. <i>Chitvail</i>	Cuddapah	On the palace in the large village of this name on the high road from the town of Pullampet to Rápúr, about 4 miles N. by W. of Nagaripád village, and 9 miles N.E. of Réddipalli on the Railway line from Cuddapah to Madras: táluk Pullampet. 1812.	14 10 11' 27	79 22 24' 40	...	501 502
Chivalúr s. <i>Sheevaloor</i>	Kistna	On the high road from Guntúr to the village of Tumulúr on the Kistna river, about 2½ miles W. of Kóllepara, and 1½ miles E. by S. of Attóta on the above named road: táluk Repalle. The station is marked on the ruins of Chivalúr village, which forms a pretty high mound. 1812.	16 17 6' 81	80 45 16' 26	...	179 180
Chiv Drug Hill Staff <i>Sheevdroog</i>	Nellore	On a range of hills running N. and S., about 8½ miles W. of Udayagiri town, and 4½ miles S.W. of Anampalle village: táluk Udayagiri. 1812.	14 51 57' 2	79 12 30' 8	...	392
Chöllangipet s. ...	Godávári	On rising ground a short distance from the coast, about ¼ of a mile S.E. of Chinna Chöllangi village, ¼ a mile N.E. of Pédá Chöllangi village, a little E. of the main road from Coringa (Korangi) to Cocanada (Kákináda), 4 miles S. of the latter place, and 1½ miles N.E. of Vemavaram village. Between the station and the coast there is a swamp: division Cocanada. 1861-62. In season 1884-85, the station was found destroyed.	16 52 39' 20	82 16 35' 79	...	872
Chundikónda h.s. <i>Soondicondah s.</i>	Nellore	On a small isolated hill, about a mile N. of Chundi village, and 1½ miles S.W. of Rámachandrapuram: táluk Kandukúr. The station is denoted by a mark-stone in the centre of a large platform. 1812.	15 11 3' 73	79 43 57' 61	879	308
Cocanada Flag-staff	Godávári	Division Cocanada. 1861-62. ...	16 56 26' 3	82 17 14' 7	...	957 958
Cocanada Light-house	"	Centre of the old light-house and not the one erected in 1865: division Cocanada. 1861-62.	16 56 21' 1	82 17 35' 3	...	955 956
Cocanada s. ...	"	On the paka roof of Mr. Murray's terraced house on rising ground on the bank of the river, at the southeastern end of this sea-port town, close to the Rajah-mundry (Rájamahéndravaram) Canal, and about ¼ of a mile W. by N. of the Cocanada old Light-house: division Cocanada. 1861-62.	16 56 27' 48	82 16 54' 23	...	868

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Cocanada Temple ...	Godávári	North temple in Jagannáthapuram, the old or southern portion of Cocanada town: division Cocanada. 1861-62.	0 1 " 16 56 15·7	0 1 " 82 16 31·5	<i>feet</i> ...	959 960
Coringa House ...	"	Flag on the centre of the roof of Papaya's house in the town of Coringa on the road from Yanam to Cocanada: division Coringa. 1884-85.	16 48 40·3	82 16 40·8	...	965 966
Coringa Light-house ...	"	On Hope Island: division Coringa. 1861-62.	16 49 2·1	82 21 59·7	* 105	963 964
Coringa s. ...	"	On the centre of the roof of Mr. Gahan's terraced paka house: division Coringa. The station is marked by a circle and dot engraved on the plaster work. 1861-62.	16 48 37·82	82 16 54·75	...	961 962
Cuddapah Chattram ...	Cuddapah	Centre of the roof of the chattram or rest-house about $\frac{1}{4}$ of a mile N.W. of the town of Cuddapah: taluk Cuddapah. It is marked by a circle and dot. 1871-72.	14 29 10·27	78 51 15·86	437	786
Cuddapah Dargah ...	"	Centre of the dome of Ghumez Dargah in the western portion of the city: taluk Cuddapah. 1871-72.	14 28 47·9	78 51 45·7	463	790 791
Cuddapah House No. 1 (helio.)	"	On the roof of Court Serishtedár's terraced house in the cantonment, 8·5 feet from the east terrace wall and about midway between the N. and S. terrace walls: taluk Cuddapah. It is denoted by a mark-stone fixed in the roof. 1871-72.	14 29 49·69	78 50 20·19	434	779 780
Cuddapah House No. 2 (helio.)	"	On the roof of Rhaddy's house in Pata Cuddapah, about $1\frac{1}{4}$ miles N.N.E. of Cuddapah city: taluk Cuddapah. It is denoted by a circle and dot. 1871-72.	14 29 55·59	78 52 33·42	426	785
Cuddapah House No. 3 (helio.)	"	On the centre of the roof of the S. store-room of Mr. Andree's house S. of Cuddapah town: taluk Cuddapah. It is denoted by a mark-stone fixed in the roof. 1871-72.	14 28 1·39	78 52 0·12	454	797
Cuddapah House No. 4 (helio.)	"	On the grass roof of the S.W. room of the second story of Mr. Smith's house S. of this town, and near the Judge's Court: taluk Cuddapah. It is denoted by a mark-stone let into the grass roof. 1871-72.	14 27 58·55	78 51 50·65	467	798
Cuddapah House No. 5 (helio.)	"	On the roof of Mr. Cochran's house, 15 feet 8·75 inches from the N.E. angle, 6 feet 4·75 inches from the N.W. angle, and 34 feet from the N.E. corner. The house is a large high building with a tower at the S.W. end, and adjoins the Railway grounds near the station: taluk Cuddapah. It is marked by a circle and dot. 1871-72.	14 27 10·88	78 52 13·85	488	800 801
Cuddapah Idgah Point No. 1 ...	"	North minár of the idgah near the cantonment and irrigation canal, and about $\frac{1}{4}$ of a mile W. of Gudúr village. The idgah extends N. and S. and its length is 96 feet 7 inches measured from the centre of each minár: taluk Cuddapah. 1871-72.	14 29 49·8	78 50 33·8	448	781 782

* To top of vane.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Cuddapah Idgah Point No. 2 (helio.)	Cuddapah	On the E. side of the platform of the idgah near the cantonments and irrigation canal, and about $\frac{1}{4}$ of a mile W. of Gudúr village. It is 73, 101.5 and 76 feet respectively from the centres of the bases of the south minár, north minár and centre Kaman: táluk Cuddapah. It is denoted by a mark-stone embedded in the platform. 1871-72.	14 29 48.96	78 50 34.43	feet 414	788 784
Cuddapah Judge's Court (helio.)	"	On the highest part of the roof of the Judge's Court, 11 feet 2.75 inches, 14 feet 9 inches and 1 foot 9.75 inches respectively from the N., S. and E. terrace walls: táluk Cuddapah. It is denoted by a mark-stone. When visited by the Levelling Party in 1880-81, the mark-stone was found in good preservation. 1871-72.	14 28 13.66	78 51 52.33	* 457.04	799
Cuddapah Mark No. 1 (helio.) ...	"	Close to a nala running N. and S. near the grave-yard, and 78 feet W. of the 8th stone counting from the N.E. side of the road, which marks the Municipal limits: táluk Cuddapah. It is denoted by a mark-stone embedded in the ground. 1871-72.	14 28 47.78	78 52 29.30	417	792
Cuddapah Mark No. 2 (helio.) ...	"	On a small mound near the cart-track between Chinsot-palli and Gutanpalli villages, about $\frac{1}{4}$ of a mile from the former, $\frac{1}{4}$ a mile N.E. of the Railway line, and 1 mile S.W. of the city: táluk Cuddapah. 1871-72.	14 28 11.05	78 51 11.59	433	795 796
Cuddapah Masjid ...	"	South minár of the cantonment masjid W. of the fort, close to the irrigation canal, and about 2 miles N.W. of the town of Cuddapah: táluk Cuddapah. 1871-72.	14 30 8.3	78 50 19.8	429	778
Cuddapah Mosque ... <i>Cuddapah</i>	"	S. minaret of the mosque in the fort: táluk Cuddapah. 1812.	14 28 40.5	78 51 48.1	...	†
Cuddapah Racket Court ...	"	Top of the north end of the wall, about $\frac{1}{4}$ of a mile W. by S. of the city: táluk Cuddapah. 1871-72.	14 28 45.2	78 51 1.6	452	788 789
Cuddapah Railway Station (helio.)	"	On the inner wall on the roof of the Railway station, 2 feet 9.25 inches W. of the N.E. corner, and 25.46 feet above the rails: táluk Cuddapah. It is marked by a circle and dot. When visited by the Levelling Party in 1880-81, the mark was found in good preservation. 1871-72.	14 27 0.08	78 52 20.34	‡ 477.18	802 803
Cuddapah School (helio.) ...	"	On the centre of the roof of the school-room in the eastern portion of the city and opposite the travellers' bungalow: táluk Cuddapah. It is marked by a circle and dot. 1871-72.	14 28 40.81	78 52 17.80	438	794
Cuddapah Temple ...	"	Centre of the gopuram. In a village locally called Devani Cuddapah, about a mile N.E. of the city: táluk Cuddapah. 1871-72.	14 29 29.4	78 52 41.5	468	787
Cuddapah Tomb (helio.) ...	"	On the N.E. side of the roof of Mútyálishesh Tomb close S.E. of Cuddapah city. The distances of the corners of the roof are 13 feet 4 inches and 12 feet 3.5 inches respectively from the mark: táluk Cuddapah. It is marked by a circle and dot. 1871-72.	14 28 33.19	78 52 24.65	431	793
Cumbum s. <i>Cumbum</i>	Kurnool	On the N.E. angle of the fort close S.E. of the town of this name: táluk Cumbum. 1812.	15 34 7.80	79 9 1.10	...	368 369
Dáchépalle Fort ... <i>Dachapilly</i>	Kistna	S.W. angle of the fort close S.W. of the village so called on the high road from Hyderabad to Nellore, about a mile E. of Nadikudi, and $1\frac{1}{4}$ miles S.E. of Gamalapád: táluk Palnád. 1812.	16 35 41.5	79 46 31.8	...	208 209

* To mark-stone on roof.

† For triangles fixing this point, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 16°.

‡ To circle and dot mark on roof.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Dálgattu, LXV	Kistna	<i>Vide</i> page 15—E.	16 53 35·99	80 50 41·42	<i>feet</i> $\frac{1407}{1·8}$	80, 85
Dánapa, XIV	"	<i>Vide</i> page 7—E.	15 56 0·14	79 58 34·57	$\frac{1010}{1·0}$	14
Dántákurru s.	Godávri	On the E. bank or bund of the eastern Kalwa Canal. The S.W. extremity of the village of Dántákurru lies 70 feet off on the opposite bank of the canal and trends along the canal in a N.E. direction for nearly $\frac{1}{2}$ of a mile. The bund is 7 $\frac{1}{2}$ feet above the general ground level. It is about $\frac{1}{2}$ and 1 $\frac{1}{2}$ miles E. of Góddanapalli and Katrenikona respectively, and 1 $\frac{1}{2}$ miles S.E. of the large village and police station of Nandavpalli: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 $\frac{1}{2}$ feet square and 1 $\frac{1}{2}$ feet above the surface of the bund, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 34 50·28	82 13 44·36	$\frac{13}{1·5}$	887
Darsi Hill (helio.)	Nellore	On the eastern part of a hill, about 3 miles N. by E. of the town of Darsi, and 2 miles S.S.E. of Pótavaram: division Darsi. 1863-64.	15 48 58·38	79 43 48·56	...	270
Darsi Pillar	"	Wood or stone pillar with a black cap close to the high flag-staff in the town so called, about 6 miles W.N.W. of the large village of Pótakamúr: division Darsi. 1863-64.	15 46 12·5	79 43 26·5	...	271
Darutippa, XXV	"	<i>Vide</i> page 9—E.	15 0 36·47	79 57 40·10	$\frac{195}{12·6}$	28
Depu Lanka s.	Godávri	On an open piece of land of that name with rice fields around it, about 1 $\frac{1}{2}$ miles S.E. by S. of the large village of Kóttapalli, 2 $\frac{1}{2}$ miles S.W. of the southern end of the scattered village of Guttinadivi Vemavaram, 3 miles E. of Kesanakurru, and 1 $\frac{1}{2}$ miles N.E. by E. of Tillakuppa. There is a small creek called Tillakuppa Kalwa about 100 yards S. of the station, and 300 yards further south is the large navigable creek called Kotalanka Chilpa on the southern bank of which and nearly S. of the station is the hamlet called Malichéru: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2 $\frac{1}{2}$ feet below, and 2 feet square and 2 feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 38 35·63	82 15 33·84	$\frac{5}{2}$	884
Devaguptam s.	"	On an open flat much impregnated with saline matter, about 1 $\frac{1}{2}$ miles N.E. by E. of the village so called, 1 $\frac{1}{2}$ miles W. of Samantákurru, and 2 $\frac{1}{2}$ miles N.E. by N. of Kumáragiripatnam. The hamlet of Devaguptam, called also Gondopuri, lies about $\frac{1}{2}$ of a mile N.N.W. and another hamlet of Chamárs lies $\frac{1}{2}$ a mile N.N.E. of the station. A creek passes about $\frac{1}{2}$ of a mile W. of it: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 $\frac{1}{2}$ feet square and 1 $\frac{1}{2}$ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 28 34·50	82 3 45·64	$\frac{10}{1·5}$	898
Devarakónda h.s. ... <i>Davurcondah</i>	Nizam's Territory	On the highest part and towards the N.E. angle of the hill fort of this town, about 2 yards S. from the centre of a platform of stones raised for a gun. The station is denoted by a mark-stone embedded in the platform. 1812.	16 42 20·73	78 58 5·68	1420	*

* For triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Dhár, XXXIX* ...	Vizagapatam (Vishakha-patnam)	<i>Vide</i> page 12—E. ...	17 43 59·10	82 30 54·99	$\frac{4093}{2'0}$	†
Dharmavaram Hill (helio.) ...	Kistna	On the N. summit of an isolated hill, about 1½ miles E. of the village of that name, and 7½ miles N.N.E. of the town of Addanki on the high road from Ongole to Guntúr: táluk Vinukónda. 1863-64.	15 54 19·25	80 3 47·37	...	265 266
Dhúlipalla, VII ...	"	<i>Vide</i> page 6—E. ...	16 25 56·75	80 7 56·77	$\frac{245}{5'0}$	9, 11, 96, 98
Dindi No. 1 s. ...	"	On the highest of a series of sand mounds that run parallel with and about 200 yards N. of the sea coast, about 3 miles E. of Dindi village, and the same distance W.N.W. of the mouth of the Kóttapálém Vetsevera: táluk Repalle. The station is denoted by a wooden peg 5 feet long driven into the ground. 1887-88.	15 53 2·21	80 47 17·77	...	1054
Dindi No. 2 s. ...	"	On the roof of a house about 300 yards N. of the sea coast and midway between it and the village of Dindi, 2½ miles E.S.E. of Nizámpatnam, and 33 feet 7 inches, 32 feet 11 inches, 30 feet 8 inches, and 30 feet 10½ inches respectively from the N.W., N.E., S.E. and S.W. corners of the Rev. R. B. Wolff's house: táluk Repalle. The station is denoted by a circle and dot. 1887-88.	15 53 17·99	80 44 31·93	...	1067
Dóddapalli Hill Platform <i>Dodapilly H.</i>	Cuddapah	About 1½ miles N.W. by N. of the village of Rayágallu, and 3½ miles S.W. of the postal village of Píler on the main road from Chinna Góttikallu to Váyalpád: táluk Váyalpád. 1812.	13 38 14·4	78 56 33·8	...	‡
Donakónda Pagoda... <i>Donocondah</i>	Nellore	Near the village so called, about 2 miles N.W. by N. of Gangavaram, and 4½ miles N.E. of Kóttapalli: division Darsi. 1812.	15 51 33·1	79 34 26·9	...	321
Döngalkónda Beacon s. ...	Godávári	On high ground ¼ of a mile N. of Lachmipuram village and the same distance from the sea. A higher ridge known as Amalápurkónda lies ½ a mile to N.W.: zamíndári Yéllamanchili. The beacon consists of an obelisk of solid masonry 21 feet high and 7 feet square at base, which contains two marks, one at the foundation and the other 3 feet above it and flush with the surface of the ground. 1884-85.	17 20 11·33	82 42 49·73	...	836 837
Dowlaisweram Factory No. 1 ...	"	Chimney of Arbutnot's Sugar Factory midway between the towns of Dowlaisweram (Dhavalesvaram) and Rajahmundry, about ¼ of a mile E. of the main road between the above mentioned towns: táluk Rajahmundry. 1860-61.	16 58 32·2	81 49 46·0	...	673 674
Dowlaisweram Factory No. 2 ...	"	Chimney of a disused sugar factory in the centre of the town, about ½ a mile W. of the left bank of the Godávári river: táluk Rajahmundry. 1860-61.	16 56 32·7	81 49 47·7	...	675 676
Dowlaisweram h.s. ...	"	On the highest part of the low hills, ¼ of a mile N. of the Sappers and Pioneers Cantonments, about 10 paces W. of the house occupied by Captain Wetherall in 1861: táluk Rajahmundry. The station is denoted by a mark-stone embedded in masonry about 6 inches below the surface of the ground, and is covered over by another stone the upper surface of which is flush with the ground level. 1860-61.	16 57 48·88	81 50 28·14	...	671

* This station appertains to the Bider Longitudinal Series. † For triangles fixing this station, see the Synoptical Volume of the Bider Longitudinal Series.
‡ For triangle fixing this point, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Dowlaisheram Temple ...	Godávári	On the left bank of the Godávári river and W. of the town of Dowlaisheram: táluk Rajahmundry. 1860-61.	16 56 49·0	81 49 13·5	feet ...	677 678
Dúbagat Hill Mark <i>Doobagutt</i> ...	Nizam's Territory	On the hill known as Rámápalie, about 1½ miles S.W. by W. of Dubbák, the same distance N.E. by E. of Rámanna-pet, and 3¼ miles S.W. by S. of Vemulkónða. It is identical with Dúbagat Mark of the Bider Longitudinal Series. 1812-19.	17 18 25·79	79 9 15·87	...	*
Dudugat, LXIII ...	Kistna	<i>Vide page 15—E.</i> ...	16 46 7·57	80 59 1·36	$\frac{483}{1·5}$	79
Dugarápatnam s. ...	Nellore	On the roof of the travellers' bungalow 33 feet 3 inches long, 18 feet broad, and 15 feet 6 inches above the ground level. The Buckingham Canal flows about 150 yards to E. A metalled road leads from this place to the civil station of Nellore. It is 50 yards N.W. of a small canal bungalow, and 250 yards N.N.E. of Dugarápatnam: táluk Gúdúr. The station is denoted by two circles and dots, one 2 inches above the other. 1886-87.	13 59 3·50	80 12 1·14	22	615
Dugarápatnam Sand-hill <i>Doorajeputnum</i> ...	"	Táluk Gúdúr. 1812. ...	13 58 36	80 11 59	...	628
Dupád s. <i>Doopaud</i> ...	Kurnool	On the S.E. angle of the fort about 3 miles S.E. by E. of Gurijépalie village: táluk Márkápúr. 1812.	15 55 2·02	79 24 19·77	...	284 285
Dúpallepalie h.s. <i>Doopullapully H.</i> ...	Nizam's Territory	On a hill, about a mile S.W. by S. of the village so called, and 4¼ miles S. by E. of Nalgónða town. 1821.	16 58 46·73	79 18 34·95	...	127
Durgappakónða h.s. <i>Doorgupcondah S.</i> ...	Kurnool	On a stupendous hill, about 5 miles W.N.W. of Chinna-palle hamlet, and 8 miles W. by N. of Vénkatadri-pálém: táluk Márkápúr. The station is denoted by a mark-stone in the centre of a platform. 1812.	16 3 41·53	79 8 8·57	2992	149 150 151
Elangoi, LI ...	Godávári	<i>Vide page 13—E.</i> ...	17 3 20·33	82 6 22·56	$\frac{340}{4·0}$	68
Ellore s. ...	"	On the top of the west central bastion of the old fort of Ellore (Ellúr) and 28·5 feet above the level of the country: táluk Ellore. The station is denoted by a circle and dot cut on a masonry pillar. 1862-63.	16 42 15·08	81 8 45·98	81	692
Enilraidu h.s. ...	"	On the highest of several low hills, about 1½ miles N.W. of Tóndangi village, 3¼ miles E. of Béndapúdi, a little W. of the high road from Pithápuram to Vizagapatam, and ¼ a mile N.W. of the village of Kothapili: zamíndári Pithápuram. When visited in 1884-85, the old 4-foot pillar was found broken, but the station mark, circle and dot, engraved on a rock <i>in situ</i> was found. A new circular masonry pillar 40 inches in diameter and 1 foot high, with the usual rectangular protecting pillar, was built over it. 1860-61.	17 15 34·73	82 28 30·31	...	811
Énnúr <i>Ennore</i> No. 1 s. ...	Chingleput	On a remarkable tree in the village so called: táluk Pónneri. 1802-3.	13 14 52·52	80 22 2·43	...	†
Énnúr No. 2 s. ...	"	On a sand bar running in a northerly direction towards the present mouth of the Kagri Kalwa Creek; the bar lies close to and runs in a N.E. direction of the European Settlement of Énnúr. It is about 30 yards off the sea coast, and 9 feet above it: táluk Pónneri. 1886-87.	13 13 59·56	80 22 30·06	11	†

* For triangles fixing this point, see the Synoptical Volume of the Bider Longitudinal Series.
† For triangle fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Ēnnúr No. 3 s. ...	Chingleput	On the roof of a double-storied D.P.W. bungalow on an artificial mound about 8 feet above the general ground level and 13 feet above the high water-line of the Kagri Kalwa Creek. The bungalow is the last but one lying towards the N.E. extremity of the European Settlement of Ēnnúr and about 3½ miles S.E. by E. of Vallúr. The roof is 25½ feet high and is L-shaped, the longer arm of which runs E. and W.: táluk Pönnéri. The station is marked by a circle and dot engraved on the roof. 1886-87.	° ' " 13 13 50' 20	° ' " 80 22 19' 41	feet ...	*
Ērumaivēttipálayam s. ... <i>Yerramootpolliam</i>	"	On a pagoda about ¼ a mile S.W. by S. of the village of this name, and 3 miles W. of Solavaram on the high road from Nellore to Madras: táluk Pönnéri. 1802-3.	13 13 57' 73	80 9 33' 73	...	*
Esvarakuppam Hill Peak ... <i>Ishnacoopum H.</i>	Kurnool	About 2½ miles N.E. of Rámalingam, and 6 miles S.E. by S. of Chērlapalli: táluk Cumbum. 1812.	15 49 55	79 3 1	...	300 301
Faranguldinne, XVI ...	Kistna	<i>Vide page 8—E.</i> ...	15 40 56' 08	80 15 10' 19	$\frac{26}{2' 0}$	20
Gadimoge s. ...	Godávári	On a high mound about ¼ of a mile N.W. of the village so called, 1 mile N.W. by N. and the same distance S.S.W. respectively of the junctions of the Mantha and Thippa Creeks with the Godávári river, 3¼ miles E.S.E. of Mallávaram village, and 306 yards E. of the Revenue Survey station on the S.W. corner of a tank N. of Gadimoge: division Coringa. The station consists of a masonry pillar 40 inches in diameter and 1 foot high, with the usual rectangular protecting pillar built over it. 1884-85.	16 44 58' 87	82 19 46' 54	$\frac{3}{1}$	878
Ganamvanalapálēm No. 1 s.	Kistna	This station has been destroyed. For description see Ganamvanalapálēm No. 2 s.: táluk Repalle. It was denoted by a small iron nail in the head of a long wooden pin driven into the sand. 1865-66.	15 56 24' 86	80 46 50' 72	...	1025
Ganamvanalapálēm No. 2 s.	"	About 1½ miles S.S.W. of Kuchēnapúdi, and 2½ miles E. of Amúdalapalli on the high road from Nizámpatnam to Repalle. The old station, Ganamvanalapálēm No. 1 s., having been destroyed, a site was selected for the present station about 90 feet N.E. by E. of it: táluk Repalle. The station is denoted by a 4-foot wooden peg driven into the ground, and is covered over by a circular mound of earth 16 feet in diameter and 5 feet high. 1885-86.	15 56 25' 43	80 46 51' 54	...	1053
Ganapavaram s. ...	"	About ¼ a mile N. of the village of this name, and 2½ miles S.E. of Buddám on the high road from Bápátla to Vēllatúr on the Kistna river: táluk Bápátla. The station is denoted by an iron nail in the head of a long wooden pin driven into the ground, and is covered over by a mound of loose earth 3 feet high. Three burnt bricks were embedded to support the theodolite stand. 1865-66.	15 55 48' 22	80 37 57' 21	...	1028
Gandavaram Pagoda ... <i>Goondawaram</i>	Nellore	About a mile W. of the high road from Nellore to Ongole, and 8 miles N. of the former place: táluk Nellore. 1812.	14 34 20' 6	80 0 46' 5	...	420

* For triangles fixing these stations, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Gangadevi h.s. ... <i>Gangadawyhulwa S.</i>	Nizam's Territory	On a hill, about 2 miles W. of Rakalavaram on the road to Machērla. The station is denoted by a mark-stone in the centre of a platform. 1812.	16 26 47'48	79 9 22'10	feet 1636	146
Gangadiakōnda h.s. <i>Gongadyacondah</i>	Cuddapah	On an isolated hill, about $\frac{1}{4}$ of a mile S. of the high road from Ráyachoti to Sundupalle, and 2 miles S.E. of the village of Sibyala on the above mentioned road: táluk Ráyachoti. 1812.	14 1 39'79	78 52 19'54	...	520 521
Ganpur Pagoda ... <i>Ghunpooram Pagoda</i>	Nizam's Territory	Of the village so called on the road to Devarakōnda and 13 miles E. by N. of it. 1821.	16 44 15'2	79 9 43'4	...	132 133
Gánugapēnta h.s. <i>Gaunigapent H.</i>	Cuddapah	About 2 $\frac{1}{2}$ miles N.E. by E. of the village so called: táluk Badvel. 1812.	14 51 46'65	79 7 35'53	...	357 358
Gátomalai s. ...	Godávāri	On a bit of open and elevated ground about 6 feet above the level of the surrounding country. There are swamps all around this piece of land. About $\frac{1}{2}$ of a mile S.W. by S. of the village so called, 2 $\frac{1}{2}$ miles E.S.E. of Kunavaram, and 2 $\frac{1}{2}$ miles S.W. by S. of Nimmakýalakōttapalli: táluk Amalápūram. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 $\frac{1}{2}$ feet square and 1 $\frac{1}{2}$ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 30 52'35	82 9 9'80	$\frac{12}{1'5}$	894
Gavúravaram s. ...	Nellore	On a small knoll called Gavúratēppa on the summit of a ridge about 50 feet above the general level of the country and bounded on the N. and W. by a stream called Pillivágu. It is about a mile W. by N. of Gavúravaram village on the high road from Gúdúr to Madras, and 1 $\frac{1}{2}$ miles N.N.E. of Bitragunta: táluk Kávali. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1 $\frac{1}{2}$ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. When visited by the Levelling Party in 1887-88, the station was found in good order. 1886-87.	14 49 48'04	80 1 12'46	* $\frac{82'74}{2}$	738 739
Georgepet Rice Mill No. 1	Godávāri	Top of chimney. About $\frac{1}{4}$ of a mile W. of the road from Cocanada to Yanam, and 6 $\frac{1}{2}$ miles S. by W. of the town of Coringa. The place is also known as Sájipet: division Coringa. 1884-85.	16 45 0'9	82 16 18'9	...	967 968
Georgepet Rice Mill No. 2	"	Top of chimney. Close to Georgepet Rice Mill No. 1: division Coringa. 1884-85.	16 44 59'8	82 16 23'0	† 63	969 970
Giddalúr Hill Pagoda <i>Giddaloor H.P.</i>	Kurnool	Of the village of this name on the high road from Kurnool <i>vid</i> Daddaváda to Cumbum, about 3 $\frac{1}{2}$ miles N.E. by N. of Mundlapád village: táluk Cumbum. 1812.	15 22 30'0	78 58 18'2	...	374
Goganamátham No. 1 s.	Godávāri	On a bund 4 $\frac{1}{2}$ feet high, which separates two fields on the right or western bank of the central branch of the Godávāri river, about 150 yards from it, and 175 yards S. of Goganamátham village. There are two small clumps of palmyra trees close to the station, one to S.E. and the other to S.W.: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 $\frac{1}{2}$ feet square and 1 $\frac{1}{2}$ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 26 24'67	81 59 41'02	$\frac{11}{1'5}$	901

* To mark-stone on top of pillar.

† To top of chimney.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Goganamátham No. 2 s.	Godávári	On a high mound composed of a mixture of alluvial soil and sand, about 15 feet above the surrounding level, on the southern bank of a creek called Upa Kalwa which runs into the central discharge of the Godávári river at a point about 2½ miles along its course below the station. The village of Kēsanapilli is on the southern bank of the above named creek and about ¼ of a mile to W. The centre of the middle one of some neglected indigo vats has been fixed for ready identification of the station; this point lies 373 feet distant at an azimuth of 312° 37' 24": táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 24 50·26	81 58 28·48	<i>feet</i> $\frac{20}{1·5}$	908
Gokanakōnda Hill Pagoda <i>Goklecondah P.</i>	Kistna	Of the village of this name, about ¼ of a mile E. of a large stream, and 12 miles S.E. of the town of Vinukōnda: táluk Vinukōnda. 1812.	15 56 58·3	79 54 36·1	...	263 264
Gōllapálēm s. ...	"	On high ground at the N. edge of the thorny jungle reaching from Pēdda Gōllapálēm to Chinna Gōllapálēm, about 2 miles from the former village. The foot-path (used only in the dry season) between the two villages runs within a few feet of the station. A tank of brackish water, above the general level of the surrounding swamps, lies about 25 feet to N.: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 22 11·82	81 29 51·15	$\frac{8}{1·5}$	981
Gōllapalli s. ...	"	On gently rising ground in the village of Gōllapalli, and 5½ miles S.E. of the town of Núzvid: zamíndári Núzvid, thána Ganavaram. The station is denoted by a circle and dot engraved on a stone <i>in situ</i> . 1862-63.	16 43 31·84	80 56 58·49	...	691
Gondi s. ...	Godávári	On a short causeway or bund about 1½ miles long, and about 11 feet above the general level of the adjacent country. To E. and S. of this causeway there is an irrigation cut used only during the rains. The causeway leads from the village of Gurmola, a little over a mile to N.N.E. of the station, to Gondi about 300 yards to S.S.W. of it. The irrigation cut which joins a deep creek at the village of Gondi, separates two blocks of the said village. The western discharge of the Godávári river runs in a broad sheet nearly ¼ of a mile in width, about 180 yards distant. The station is about 2½ miles S. by W. of Rámesvaram: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the bund, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 21 47·21	81 46 14·28	$\frac{13}{1·5}$	920
Gopuvaripálēm s. ...	Kistna	On the edge of a small tank about ¼ of a mile E. of the road from Masulipatam to Mangēnapúdi, 1½ miles S.W. of the latter place: táluk Bandar. The station is denoted by an iron nail in the head of a wooden peg 6 feet long driven into the ground. 1885-86.	16 13 3·93	81 14 7·22	* 16	946
Gorantla, LXXIV ...	"	<i>Vide page 16—E.</i>	16 20 38·46	80 29 1·06	$\frac{253}{1·5}$	94

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Gorasa s.	Godávári	In the midst of paddy fields, W. of a small well in a field appertaining to Kumáragiri village, about a mile N. of Gorasa village, 1½ miles N.W. by N. of Kumáragiri, and 3 miles S.E. of Pithápúram on the high road to Vizagapatam: zamindári Pithápúram. The station consists of a pillar 8 feet including foundation. When visited in 1884-85, the usual rectangular protecting pillar was built over the station. 1861-62.	17 4 52' 11"	82 19 32' 22"	... feet	817
Gorlabod Hill Platform Gorelabode	Cuddapah	On an extensive range of hills running N. and S., about 6 miles S.E. by S. of Sanchērla village on the high road from Cumbum to Porumámilla, 1 mile N. of the Yērrati Pass, 1½ miles S. of the Vóntibod Pass, and 3½ miles W. of Mallapalle village: táluk Badvel. 1812.	15 6 8' 8"	79 7 5' 4"	...	386 387
Górrípúdi s.	Godávári	On the boundary of two guava gardens on rising sandy ground, about ¼ a mile S.E. of Górrípúdi village, 1 mile W. of Vemavaram, and 3 miles S.S.E. of the large village of Karapa. To S. of the station is the Murku Kalwa stream between which and the southern one of the two gardens is a salt waste: division Cocanada. When visited in 1884-85, the old pillar, 4 feet high including foundation, with a mark-stone on top was found in good preservation. A protecting pillar 4'8 feet high was built over the mark and protected by a mound of earth. When again visited by the Levelling Party in 1887-88, the station was found in good order. 1861-62.	16 51 41' 49"	82 14 23' 81"	13' 18"	873
Góttipád s.	Kistna	About ¼ a mile S.E. of the village of the same name, 1½ miles N.E. of the main road from Purushóttapatnam to Paruchúr, and 4 miles S.E. by E. of the former place: táluk Narsaraópet. The station is denoted by a small iron nail in the head of a large wooden pin driven into the ground. 1865-66.	16 3 10' 33"	80 15 35' 76"	...	262
Góttipalle h.s. Gotípolah	"	On a mound about ¼ a mile N.E. of the village so called, 4½ miles W. by S. of Vēldurti, and 2½ miles N.W. of Srigiripád: táluk Palnád. 1821.	16 20 4' 98"	79 20 45' 04"	...	231 232
Gováda s.	"	On the bund of a tank about 250 yards S.W. of the village so called, 2½ miles N.E. by E. of Intúr, and 2 miles S. of Amaratúr: táluk Repalle. The station is denoted by a circle and dot engraved on a large stone embedded in the bund. 1865-66.	16 5 2' 44"	80 42 15' 31"	...	1002
Gudali, XXXVIII	Nellore	<i>Vide</i> page 11—E.	14 1 9' 45"	80 3 40' 54"	292 6' 0"	49
Gudali h.s. Gooruloor H.	"	On a pagoda close S.E. of the principal station of the same name: táluk Gúdúr. 1812.	14 1 8' 26"	80 3 41' 27"	...	603 604
Gudali Hill Temple	"	On an isolated hill and close S. by E. of the principal station of this name: táluk Gúdúr. 1864-65.	14 1 8' 0"	80 3 41' 1"	...	605 606
Gudavali s.	Kistna	On a mound in a field about 100 yards N.E. of the village so called on the high road from Bápatla to Vēlatúr on the Kistna river, and 1½ miles N. of Rájaval: táluk Repalle. The station is denoted by a kucha pillar 3 feet high. 1865-66.	16 4 20' 18"	80 45 48' 36"	...	1004

* To mark-stone on top of old pillar.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Gudimitta Hill Pagoda <i>Goodimittah P.</i>	Kurnool	On a small hill at the N. end of a large piece of water, about 2 miles N.E. by N. of Yēdavali, and 2½ miles N. of Daddavāda on the high road from Kurnool: tāluk Cumbum. 1812.	15 25 19.0	79 3 22.7	... feet	372
Gudipūdi s.	Kistna	On the bund of a tank about ¼ a mile S.E. of the village of this name, and 2 miles in the same direction of Itēru on the high road from Bāpatla to Guntūr: tāluk Bāpatla. The station is denoted by a mark-stone embedded in the ground having three burnt bricks around it on which the theodolite stand rested, and is covered over by a mound of loose earth 4 feet high. 1865-66.	15 57 55.98	80 34 30.21	...	1030
Gūdūr Bungalow	Nellore	Top of the new travellers' bungalow near the town of Gūdūr on the high road from Madras to Guntūr: tāluk Gūdūr. 1864-65.	14 8 39.1	79 53 29.1	...	431
Gulimichērla Pagoda <i>Goolumusella P.</i>	"	About 1½ miles N. of the main road from Saidāpuram to Rāpūr, and 6 miles N.W. by W. of the former place: tāluk Rāpūr. 1812.	14 13 57.2	79 43 27.8	...	438
Gumlūr h.s.	Vizagapatam	On a single detached hill known also by the name of Madakōnda. The village of Gumlūr is at the foot to N.E. and that of Nakkapilli about 2 miles to S. The station is denoted by a circle and dot engraved on the rock <i>in situ</i> . When visited in 1884-85, the usual rectangular protecting pillar was built over it. 1860-61.	17 25 49.58	82 46 7.67	...	*
Gummadampād Fort <i>Goomanapaud Fort</i>	Kistna	N.E. angle of the fort of the village so called, about 2 miles S.W. by W. of Garikepād: tāluk Vinukōnda. 1821.	16 18 27.3	79 42 44.8	...	239
Gundālamma, XLV	Godāvāri	<i>Vide page 11—E.</i>	17 31 27.28	82 21 51.21	2668 2.0	58
Gundalkōnda h.s. <i>Goondaleondah</i>	Cuddapah	On a hill, about 2 miles N.N.E. of the junction of the main roads from Kalakada, Medikurti and Vogallu, and the same distance S.W. of the last named place: tāluk Vāyalpād. The station is marked by a platform. 1812.	13 45 20.05	78 54 45.93	...	513 514 515
Gundla Brahmesvaram h.s. <i>Goondla-Bramaiswar P.</i>	Kurnool	On a mass of hills, about 3 miles S.W. of the village of this name. 1812.	15 36 55.57	78 45 51.62	2959	306
Gundlatēppa Hill Platform <i>Goondlatippa</i>	Cuddapah	At the W. foot of the hill lies Mangampet village on the high road from Pullampet to Madras, and about 7½ miles S.E. by E. of Rēddipalle Station of the Madras Railway, N.W. Line: tāluk Pullampet. 1812.	14 1 36.6	79 22 3.3	...	504
Gundlūr Pagoda <i>Goondloor P.</i>	"	Black pagoda at the junction of the main roads from Kalakada and Vāyalpād, and about 5 miles S. of the former place: tāluk Vāyalpād. 1812.	13 45 18.6	78 50 20.1	...	567 568
Gunigat h.s. <i>Goonigutt S.</i>	Nizam's Territory	On a hill but not on the highest part of it, about 2½ miles W. by S. of Haidarshāhipet, and 1½ miles N.W. by N. of Jalpalle. The station is denoted by a mark-stone in the centre of a platform. 1812.	17 23 42.02	79 59 57.30	1201	*

* For triangles fixing these stations, see the Synoptical Volume of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Gunpúdi Hill Tree No. 1 ...	Vizagapatam	Flag on a big tree about 1½ miles N. of the village so called, and 4½ miles N.E. by N. of the Custom house at the sea-port town of Pēntakota. 1884-85.	17 21 1	82 41 16	feet ...	838 839
Gunpúdi Hill Tree No. 2 ...	"	Flag. About 1½ miles N.N.W. of the village so called, and 3½ miles N.N.E. of the Custom house. 1884-85.	17 20 27	82 40 46	...	840 841
Gunpúdi Hill Tree No. 3 ...	"	Flag. About 2½ miles N.N.E. of the Custom house. 1884-85.	17 19 28	82 40 12	...	842 843
Gunpúdi s. ...	"	On a sand height above the high water-mark, about ¼ a mile S. of the village of Gunpúdi, and 2½ miles N.E. by E. of the Custom house at the sea-port town of Pēntakota. The station is denoted by pickets. 1860-61.	17 18 46.96	82 41 29.94	...	806
Guntúr Base-line N. End s. ... <i>Base in 1812</i>	Kistna	About ¼ a mile E. of the village of Tukḱēllapád, and 2½ miles E.N.E. of the town of Guntúr: táluk Guntúr. 1812.	16 18 41.45	80 32 34.78	47	181
Guntúr Base-line S. End s. ... <i>Base in 1812</i>	"	About a mile E. by S. of Yētukurru village on the road to Guntúr, and 1½ miles S. of this town: táluk Guntúr. 1812.	16 15 38.01	80 29 21.22	71	182 183
Guntúr Mosque ... <i>Guntoor</i>	"	N. minaret. In the western portion of the town of Guntúr: táluk Guntúr. 1812.	16 17 33.5	80 29 1.8	...	184 185
Guntúr No. 1 s. ...	"	On the N. terrace of the first large house on the right, entering Guntúr from Mangalagiri: táluk Guntúr. The station is marked by a circle and dot cut on the pavement. 1865-66.	16 17 48.03	80 29 44.19	...	1042 1043
Guntúr No. 2 s. ...	"	This station was built for the purpose of connecting the positions of the instruments used for the Solar Eclipse of August 18, 1868, with the trigonometrical stations in the vicinity. It is situated towards the N.E. corner of a triangular field the property of A.G.M. Gahia Sahib, District Munsiff of Guntúr. It is 108 feet W. of the ridge of a small culvert on the trunk road from Bēzvāda: táluk Guntúr. The station consists of a masonry pillar, 3 feet in diameter, surmounted by a circular stone 2½ feet in diameter. There are two circle and dot marks, one at the ground level, in the centre of the circular stone, and the other 1.6 feet below it on a stone laid in the foundation of the pillar. 1867-68.	16 17 42.67	80 29 51.31	...	1044 1045
Guntúr No. 3 s. ...	"	Between the Judge's (Guntúr Mallia) and the Sub-Collector's (Pattarivar) compounds: táluk Guntúr. The station is marked by a stout wooden peg driven into a bank of earth. 1867-68.	16 17 36.76	80 29 43.95	...	...
Guntúr No. 4 s. ...	"	E. of the Sub-Collector's house, and 1362.3 feet (by chaining) from Guntúr No. 2 s., whence its azimuth is 49° 16' 40": táluk Guntúr. The station is denoted by a circular stone on the top of a masonry pillar. The stone is flush with the ground level. 1867-68.	16 17 34.04	80 29 40.55	...	...

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Guraigunta h.s. ...	Nellore	On about the centre of a flat-topped hill covered with jungle, and 70 feet above the general level of the surrounding country: it is called Guraigunta after a small tank at the foot of the hill, between it and another hill about $\frac{1}{4}$ of a mile distant. About $2\frac{1}{4}$ miles N.W. by W. of Yélúrpád, and $2\frac{1}{4}$ miles S.W. by W. of Téttu through both of which the high road to Nellore passes: táluk Kandukúr. The station consists of a masonry pillar 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	15 2 4'51"	80 0 52'75"	145	759
Gurajalakónda h.s. ...	Godávári	On a low, isolated conical hill about $1\frac{1}{4}$ miles E. of Mórampúdi village, 4 miles S.E. of Rajahmundry town, and $3\frac{1}{4}$ miles N.E. of Dowlaishweram Cantonment: táluk Rajahmundry. The station is denoted by a circle and dot engraved on a very large stone embedded in a platform of stones and earth. 1860-61.	16 59 15'43"	81 52 44'04"	...	669 670
Gurramkónda, XXXVII	Nellore	<i>Vide page 10—E.</i> ... When visited by the Levelling Party in 1887-88, the station was found in good order.	14 0 42'41"	79 52 36'42"	$\frac{329 \cdot 16}{7 \cdot 5}$	44, 48
Gurramkónda h.s. <i>Goorumcondah</i>	Cuddapah	On a small isolated hill E. of the main road from Váyalpád, about a mile S. of Gurramkónda village, and 2 miles E.S.E. of Réddivaripalli: táluk Váyalpád. 1812.	13 46 12'60"	78 37 49'84"	...	† 562
Guttikónda h.s. ... <i>Gootycondah P.</i>	Nizam's Territory	On a hill pagoda, about 2 miles S.S.E. of the village so called, and 4 miles S.E. by E. of Julakallu. 1812.	16 24 49'49"	79 53 6'72"	...	208 204
Guttinádevi Temple	Godávári	North temple of the village so called: táluk Amalápuram. 1884-85.	16 41 27'7"	82 17 3'9"	...	979
Halval Fort <i>Halwall</i>	Nizam's Territory	Turret of the fort of the village so called, about $4\frac{1}{4}$ miles W. by S. of Perúr on the road to Devarakónda town. 1821.	16 44 37'0"	79 19 43'6"	...	181
Hasanápúram s. ... <i>Hussanapoor</i>	Cuddapah	On the S.W. angle of the fort lying close S.W. of the village of this name, about $1\frac{1}{4}$ miles E. of the police station and village of Chitlúr on the high road from Ráyachoti to Cuddapah: táluk Ráyachoti. 1812.	14 9 45'38"	78 49 6'69"	...	516 517
Hauhoballam s. ... <i>How-Hoblum S.</i>	Kurnool	About 4 miles E. by N. of Diguoballam, and 2 miles N. of the celebrated pagoda at Hauhoballam: táluk Cumbum. 1812.	15 8 56'11"	78 46 59'47"	2977	‡
Hoblespuram Hill Platform <i>Hoblesprum H.</i>	Cuddapah	On a small isolated hill, about a mile N.W. by N. of Chintaparti village on the road to Váyalpád, and about 5 miles E. of this town: táluk Váyalpád. It is denoted by a mark in the centre of a platform. 1812.	13 39 17'18"	78 44 34'32"	...	570
Idamakallu Pagoda <i>Iddamukul</i>	Kurnool	On a rock. This is the southern pagoda of the village of this name, about $\frac{1}{4}$ a mile W. of the high road from Cuddapah to Cumbum, and $1\frac{1}{4}$ miles N.W. by N. of Kumáravol village on the above mentioned road: táluk Cumbum. 1812.	15 17 11'7"	79 2 3'3"	...	377 378

* To mark-stone on top of circular pillar.

† For another triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

‡ For triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Igavaripálēm ... <i>Indewarpolliam</i>	North Arcot	The village of Igavaripálēm is 3½ miles E. by S. of Madarapákam: zamíndári Kálahasti. 1812.	0 1 "	0 1 "	<i>feet</i> ...	653
Ikalseri h.s. <i>Eckullserreecondah S.</i>	Nellore	On a hill, about 10½ miles W.N.W. of Vēnkatagiri town, 6½ miles W.S.W. of Altúrpád village, 8 miles N.E. of Kodúr Railway Station on the line from Bombay to Madras, and 5½ miles E. by S. of Nágávaram village: zamíndári Vēnkatagiri. The station is denoted by a mark-stone in the centre of a platform. 1812.	14 1 23'17	79 28 49'47	...	432 505
Ikkurru Hill Pagoda <i>Ickoortee H.P.</i>	Kistna	On a small isolated hill immediately N. of the high road from Vinukōnda to Guntúr, and about 3½ miles S.W. of Narsaraōpet town: táluk Narsaraōpet. 1812.	16 13 16'4	80 2 32'2	...	256 257
Innaparati h.s. ... <i>Innaparathee H.S.</i>	Kurnool	On the Nallamalai Hills, about 6½ miles S.W. of Vēnkatadripálēm: táluk Márkápúr. The station is marked by a platform and a pile of stones. 1812.	15 59 35'78	79 10 34'04	2395	245
Inupráyi, LXIV	Nizam's Territory	<i>Vide page 15—E.</i> ...	17 7 32'67	80 48 41'18	$\frac{730}{2'0}$	84
Irakam s. ... <i>Iricum</i>	Nellore	At the S. extremity of the island so named in the Pulicat Lake: táluk Gúdúr. 1812.	13 32 40'69	80 11 4'97	...	637
Iskapalli s. ...	Godávari	On high ground at the junction of four paddy fields in the village lands of Nagulapalli. It is the highest spot in the neighbourhood, and is about ¼ of a mile E. of Iskapalli village, 1½ miles W. of Nagulapalli, 4 miles E.N.E. of Pithápúram and Góllaprol on the high road from Pithápúram to Vizagapatam: zamíndári Pithápúram. The station is denoted by a circular pillar 6 feet high including foundation. When visited in 1884-85, a rectangular protecting pillar was built over it. 1861-62.	17 7 33'27	82 21 27'20	...	815
Jaggagogula s. ...	Nellore	On the bund of a tank called Jaggagogula-chēru at the E. side. To E. and S. is an extensive open plain of waste land, and the road to Allúr passes 120 feet to E. About 120 feet N.E. by N. of a group of three palms 1 mile S.E. by E. of Tirumalai hamlet, 1½ miles W.S.W. of Juvaldinne, 1½ miles N.W. by W. of Vádepálēm, and 1½ miles W. of Pēnugōndamma temple: táluk Kávali. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 48 2'14	80 5 15'28	$\frac{14}{2}$	742
Jaggayapálēm Beacon s. ...	Kistna	On a dune 20 feet high about ¼ of a mile N.E. of the old village site of Jaggayapálēm, 1568 feet from the high water-mark, and 767 feet W. of a conspicuous isolated palm on a dune: táluk Bápatla. The beacon consists of a solid 7-inch square post of teak, standing 19 feet above the surface of the ground, and having two pairs of cross-arms attached to it, the smaller pair is let in 6 inches and the larger 4 feet below the top of the post which is shod with a block of teak and embedded in a block of masonry 6 feet square and 7 feet deep. The arms and 6 feet of the post from the top have been painted white, the remainder of the post above the dune red. The letters G.T.S. are engraved on the post. 1887-88.	15 46 43'74	80 25 20'12	* 40	273

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Jaggayapet Pagoda <i>Juggiapett</i>	Kistna	Pointed pagoda within the fort, W. of a square building, and at the S.W. end of this postal town; the place is also known as Bëttavol: táluk Nandigáma. 1819.	0 1 " 16 53 5'9	0 1 " 80 8 1'2	feet ...	144
Jammalapálém s. ...	"	About $\frac{1}{2}$ a mile N.N.E. of the village of this name, 2 $\frac{1}{2}$ miles E.N.E. of Narasayapálém, and 4 miles S.E. of the large village of Chérúkúr: táluk Bápatla. The station is denoted by a circle and dot engraved on a burnt brick firmly embedded in a mound raised over a tank bund 6 feet high. 1865-66.	15 57 35'82	80 28 18'28	...	1034
Jammalavoidurgam, LXVII	"	<i>Vide</i> page 15—E.	16 57 19'41	80 38 7'65	$\frac{1850}{1'6}$	82, 86
Jammalavoidurgam Hill <i>Jaumlavoyecondah</i>	"	Close to the principal station of this name: division Vissanspet. 1812.	16 57 19	80 38 10	...	162
Jampani s. <i>Jumpany</i>	"	On the centre of a mandapam in the village so called, about 4 $\frac{1}{4}$ miles S.E. of Ténali village close E. of the Nizámpatnam Canal, and 3 miles E.N.E. of Kuchipúdi: táluk Repalle. 1812.	16 11 35'67	80 44 48'09	...	191 192
Jangal Vangol Temple	Nellore	Centre. About 2 $\frac{1}{2}$ miles N. of Siddipuram on the high road from Cuddapah to Nellore: táluk Nellore. 1863-64.	14 35 45'2	79 51 26'2	...	415 416
Jangamalaikönda Rock <i>Jungamallacondah</i>	Cuddapah	On a hill, about $\frac{1}{2}$ of a mile E. of Bagarapet on the road from Piler Post Office to Tirupati Railway Station: táluk Váyalpád. 1812.	13 39 21	79 13 31	...	584
Jëndaltéppa h.s. ...	Nellore	On a low flat-topped hill about 40 feet high, close to and E. of the high road to Nellore, about 2 $\frac{1}{2}$ miles N. of Tëttu, and 1 mile E.S.E. of Virapalli: táluk Kandukúr. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	15 5 11'68	80 2 55'74	73	762
Jinjer s. ...	Kistna	On high ground among rice fields, about 600 yards S.E. of the village of the same name, and 500 yards N. of a fresh-water canal: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1 $\frac{1}{2}$ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. A circular mound of earth, 12 feet in diameter and 4 feet high, has been raised over the station. 1885-86.	16 17 7'19	81 16 25'71	$\frac{13}{1'5}$	941
Jonangipálém, XLII	Nellore	<i>Vide</i> page 11—E.	13 38 36'46	80 13 56'10	$\frac{26}{14'0}$	55
Jonangipálém Mosque <i>Janupolliam</i>	"	Well-known mosque on the E. margin of the Pulicat Lake and S. of Jonangipálém village: táluk Gúdúr. 1812.	13 38 50'1	80 13 50'6	...	642

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Jondrázikuppam Platform <i>Jondrazeecoopa H.</i>	North Arcot-Cuddapah	On a hill of the Pálkónđa Range, on the boundary between the Pullampet and Váyalpád táluks, about 8½ miles W. by S. of Ballipalle Station of the Madras Railway, North-West Section. 1812.	0 1 " 13 45 30·7	0 1 " 79 20 7·2	<i>feet</i> ...	580
Jónnalagadda, LXX	Kistna	<i>Vide page 16—g.</i>	16 51 35·76	80 21 22·19	$\frac{557}{1·5}$	91
Jotel Hill Platform <i>Jotel Peak Platform</i>	Cuddapah	About 8½ miles E.N.E. of the town of Siddhavattam, and 1 mile E. of the high road from Cuddapah to Badvel: táluk Siddhavattam. 1812.	14 29 2·5	79 3 6·1	...	463 464
Jujúrdurgam, LXVIII	Kistna	<i>Vide page 15—r.</i>	16 42 22·77	80 30 34·55	$\frac{1785}{1·2}$	87
Júpúdi Hill Temple	"	Northern and larger temple of two about ½ a mile N.W. of the village so called, and 9½ miles N.W. by W. of Bézváda town: táluk Bézváda. 1861-62.	16 35 46·8	80 31 59·0	...	703
Juvaldinne s. ...	Nellore	On the N. side of a low table-land surrounded by water during the rains, about 300 yards S. of the Chipalēru river, ¼ of a mile W.S.W. of Juvaldinne, and 1½ miles N. by W. of Vádepálēm: táluk Kávali. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 48 30·35	80 6 13·23	$\frac{23}{2}$	744
Juzzúr House ...	Kistna	Centre of the upper story of a large house close to Juzzúr Pagoda: táluk Nandigáma. 1861-62.	16 44 36·9	80 27 40·5	...	712
Juzzúr Pagoda <i>Joojoor P.</i>	"	Close N. of the village so called, on the bank of a large sheet of water, about 1½ miles N. of Narasimharapálēm, 1 mile W.S.W. of Chinnaravupálēm, and 3 miles E. of Gokarazupalli: táluk Nandigáma. 1812.	16 44 38·7	80 27 43·7	...	164
Kachalboru, V ...	"	<i>Vide page 6—r.</i>	16 30 42·71	80 1 7·02	$\frac{976}{2·0}$	7
Kadived Fort <i>Carwair</i>	Nellore	Immediately N.W. of the village so called on the main road from Gúdúr to Dugaráspatnam, and about 6 miles S.E. by S. of the town of Gúdúr: táluk Gúdúr. 1812.	14 4 34	79 56 59	...	599
Kaikavol s. ...	Godávári	In a paddy field quite close to the village of that name, about ¾ of a mile S. of Pēddapúdi, 2 miles W. of Aratlakatla on the Cocanada Canal, 1½ miles W.S.W. of Karakudúr, and 1 mile S.S.W. of Domada village: táluk Rámachandrapuram. The station is marked by a circle and dot engraved on a mud pillar. 1861-62.	16 56 22·65	82 10 36·33	...	824

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Káalkönda h.s. ... <i>Kauklecondah</i>	Cuddapah	On a prominent point of the Pálkönda Hills, about 2½ miles N.E. of the police station and large village of Nandalúr on the high road from Cuddapah <i>viá</i> the Rápúr Pass: táluk Siddhavattam. The station is denoted by a platform covered over by a pile of stones. 1812.	14 17 39·68	79 11 19·18	2051 <i>feet</i>	448 449
Kakarla Hill Pagoda <i>Kakerlah H.P.</i>	Kurnool	On the range of hills running S.W. and N.E. and close to the village of Kakarla, about 4½ miles N. of the town of Cumbum: táluk Cumbum. 1812.	15 38 43·7	79 9 14·7	...	298
Kakarlamúdi s. ...	Kistna	On the edge of a vegetable plot 150 yards N.N.W. of the village, 6 feet N.E. of the station stands a huge palmyra tree on which the symbol † has been deeply engraved 2 feet 8 inches from the ground. It is about 3½ miles E. of the large village of Pidana on the high road from Masulipatam to Gudiváda: táluk Bandar. The station consists of a solid pillar 3 feet square and 18 inches deep resting on 6 inches of concrete, with a protecting pillar, 2 feet 8 inches at base, 1½ feet at top, and 3½ feet high, built over it. 1885-86.	16 15 32·75	81 14 29·19	18 *	943
Kakeral h.s. <i>Kaukirah H.P.</i>	"	On a pagoda on the highest point of a hill, about 7½ miles E. by S. of Mutukúr village, and 5½ miles S. by E. of Dharmavaram: táluk Palná. The station is denoted by a mark-stone in the centre of a platform. 1812.	16 21 32·17	79 37 50·96	1945	145
Kálahasti h.s. <i>Calastree P.</i>	North Arcot	On a pagoda: zamindári Kálahasti. 1812.	13 45 10·93	79 44 35·04	...	634 635
Kálahasti Pagoda <i>Calastree P.</i>	"	Largest gopuram. In the town of the same name on the Swarnamukhi river and on the high road from Tirupati to Náyudupet: zamindári Kálahasti. 1812. It was refixed in 1864-65.	13 44 59·5	79 44 28·5	360 †	632 633
Kálavakönda No. 1 h.s. <i>Collavycondah</i>	Nellore	On a low hill, about ¼ of a mile S.W. of the village so called, the same distance N.N.E. of Parlápalle, and 7½ miles E.S.E. of Gúdúr town: táluk Gúdúr. 1812.	14 7 1·47	80 0 21·77	...	433
Kálavakönda No. 2 h.s.	"	On a temple on a low hill, close to Kálavakönda No. 1 h.s.: táluk Gúdúr. 1864-65.	14 7 1·38	80 0 22·32	134	434 435
Kalikiri Fort <i>Kulkerra</i>	Cuddapah	S.W. angle of the fort about a mile S. of the junction of the main roads from Gundlúr and Váyalpád, and the same distance S.W. of Korlagunta village: táluk Váyalpád. 1812.	13 38 26·4	78 50 31·8	...	578
Kalimámidí, XLIX	Godávári	<i>Vide page 18—E.</i>	17 34 40·83	82 9 22·73	2818 1·5	61, 63
Kálipatnam s.	"	On a small open patch of ground entirely surrounded by vast mangrove swamps and dry only for three months in the year. The foot-path from Pátópád to Yémpa passes close to the station. It is about 2½ miles N.E. of Pátópád, 1 mile N. of Kálipatnam, and 1½ miles S. of the village so called at the terminus of the high road passing through Mógaltúr to Narsápur town: táluk Narsápur. The station consists of a thick sál wood peg 6 feet long driven 4 feet into the ground, and is protected by a circular platform of earth. 1885-86.	16 24 9·47	81 33 27·69	† 5	928

* To top of protecting pillar. † To top of gopuram. ‡ To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Kambákamdurgam, XLI	Chingleput	<i>Vide page 11—B.</i>	13 34 27·10	79 54 13·09	$\frac{2540}{1·5}$ feet	51
Kambákamdurgam h.s. <i>Combaucum Dr.</i>	"	Close to the principal station of this name: táluk Tiruvallúr. 1812.	13 34 26·69	79 54 12·93	...	619
Kamipalli Hill Pagoda <i>Kaumapilly H.P.</i>	Kistna	Of the village so called on the right bank of the Kistna river, and about 2 miles W. by S. of Bodanam: táluk Satténápalle. 1812.	16 37 24·1	79 57 41·0	...	199 200
Kándágotla, XII* <i>Kundagutt S.</i>	Nizam's Territory	<i>Vide page 5—B.</i> Note:—By subsequent calculations it has been found that this station is identical with "Kundagutt S." of Colonel Lambton's triangulation of 1819.	17 17 31·31	79 39 43·95	$\frac{1647}{2·0}$	†
Kandikōnda Hill Pagoda <i>Kundicondah Pag</i>	"	On a hill called "Camel's Back", about 1½ miles N. of Kandikōnda, and 11 miles W. of Garla Station of the Nizam's State Railway. 1819.	17 29 20·2	80 0 28·9	...	101
Kandikuppam s. ...	Godávari	At the angle of the bund of a small irrigation cut leading out of the Kandikuppam Canal in about a southerly direction for 180 yards and then turning at the station itself in an easterly direction. It is about 220 yards E.N.E. of Malpili (a hamlet of Chamára's huts), ¼ a mile E. of the village so called, 1 mile S.E. of Pallamkurru, 2½ miles W. by S. of the large village and police station of Nandavpalli, and 1½ miles E.N.E. of Dántákurru: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 35 31·00	82 15 11·11	$\frac{8}{1·5}$	885
Kandulúr h.s. ... <i>Cundaloor H.S.</i>	Nellore	On a small low range of hills running nearly E. and W., about 1½ miles N.N.W. of the village so called, 2½ miles E. by S. of Konijedu, 4 miles W.N.W. of Vallúr on the main road from Nellore to Ongole, and 6 miles S.W. of the latter town: táluk Nellore. The station is denoted by a platform. 1812.	15 26 14·63	80 1 25·03	$\frac{442}{1·5}$	309 310
Kanigiridrug Platform <i>Kunnagherry Dr.</i>	"	On a hill, close N. of Kanigiri town: táluk Kanigiri. 1812.	15 24 57·4	79 32 50·3	...	348 349
Kannakōndaráyan h.s. <i>Kunnacondaroyrn H.P.</i>	"	On a pagoda towards the N.W. end of a hill, about 1½ miles W. of Vedichérta village, and the same distance S.E. of the main road from Chittoor (Chittúr) to Gúdúr: táluk Gúdúr. 1812.	14 5 28·21	79 46 58·24	...	597 598
Kannakōndaráyan Temple	"	On a hill, close to Kannakōndaráyan h.s.: táluk Gúdúr. 1864-65.	14 5 28·0	79 46 58·2	...	439 440
Kannigiri Hill Tree	Nizam's Territory	Large tree on the highest point and about the centre of a range of hills, about 2½ miles S.W. by S. of Kannigiri. 1861-62.	17 18 43	80 36 52	...	698 694

* This station appertains to the Bider Longitudinal Series.

† For triangle fixing this station, see the Synoptical Volume of the Bider Longitudinal Series.

‡ To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Kantēpūdi Pagoda ... <i>Kuntapoody P.</i>	Kistna	White pagoda of the village so called on the high road from Hyderabad to Guntūr. It is on a flat rock and is about 5 miles E. by S. of Sattēnapalle town: táluk Sattēnapalle. 1812.	0 1 " 16 22 31·8	0 1 " 80 15 38·1	feet ...	237
Kanupur s. ...	Nellore	On a large open piece of waste land covered with sand and close W. of a small tank. About $\frac{1}{2}$ a mile S.S.E. of Gōllapálēm, and 1 mile N.E. of Kanppur: táluk Gúdúr. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1 $\frac{1}{2}$ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 7 25·70	80 8 5·73	$\frac{14}{2}$	611
Kappa, LII ...	Godávāri	<i>Vide page 13—E.</i>	17 30 14·84	81 53 48·02	$\frac{2807}{0}$	65
Kappakōnda, XLVI ...	"	<i>Vide page 12—E.</i> Note.—When visited by the Levelling Party in 1887-88, the station was found in good order.	17 20 6·41	82 31 2·93	$\frac{1098·52}{1·0}$	59
Kappakōnda Hill Mark ...	"	This is identical with a station of the Topographical Survey: division Tuni. 1860-61.	17 22 28·90	82 18 10·41	...	661 662
Kappakōnda Hill Platform ... <i>Kopocondah</i>	Nellore	On the N.E. extremity of a short range running N. and S., about 2 $\frac{1}{2}$ miles W.S.W. of Chērlapalle village, and 4 $\frac{1}{2}$ miles E. by N. of Ballipalle: táluk Kanigiri. 1812.	15 15 36·9	79 34 25·1	...	352
Karadillakuppam Platform ... <i>Kurradillacoopa</i>	Cuddapah	On a hill, about 5 $\frac{1}{2}$ miles N.N.E. of the large village of Vanipēnta, and 2 miles E. by S. of the police station and village of Mudirēddipalle: táluk Prōddutúr. 1812.	14 51 19·4	78 52 23·4	...	393 394
Karakalpēddagu Hill ... <i>Kurraculpuddagoo</i>	"	A flat-topped hill of the Pálkōnda Hills, about $\frac{1}{2}$ of a mile S.E. by S. of Budthaid h.s.: táluk Ráyachoti. 1812.	13 53 54	79 9 47	...	511
Karakambod Fort ... <i>Kurkenbaddy</i>	North Arcot	S.E. angle of the fort so called, about 1 $\frac{1}{2}$ miles N. by E. of Tirupati Station of the S. I. Railway, Tirupati-Nellore Section: táluk Chandragiri. 1812.	13 39 30·3	79 33 22·4	...	586
Karakōnda h.s. ... <i>Kurracondah S.</i>	Cuddapah	On the summit of a hill, about 3 miles E. by N. of the village of Kottúr, and 2 $\frac{1}{2}$ miles S. by E. of the police station and village of Somasila on the high road and near the left bank of the Pēnner river: táluk Siddhavatam. The station is denoted by a mark-stone in the centre of a platform. 1812.	14 27 41·35	79 21 59·96	...	402
Kared s. ... <i>Kurvade</i>	Nellore	On the sea beach, close E. of the Buckingham Canal, about 1 $\frac{1}{2}$ miles E. of Kared, 2 $\frac{1}{2}$ miles S.S.E. of Binginpalle, and 4 $\frac{1}{2}$ miles S.E. of Singaráyakōnda: táluk Kandukúr. The height of the station was found by measurement to be 12 feet above the low-water mark. 1812.	15 11 38·09	80 7 27·62	...	335

* To mark-stone on top of circular pillar.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Karempúdi Fort ... <i>Kaurumpoody</i>	Kistna	N.W. angle of the fort in the large village so called, about 2½ miles S.E. by E. of Vöppichéria: táluk Palnád. 1812.	16 25 38·6	79 45 43·6	... <i>feet</i>	210 211
Karempúdi h.s. ... <i>Kaurumpoody</i>	"	On the highest part of the Nallamalai Hills and E. of the Nálkurál Pass, close W of the village so called, about 2 miles W.N.W. of Petasannigala, and 2½ miles S.W. of Chintapalli: táluk Palnád. The station is denoted by a mark-stone covered over by a pile of stones. 1812.	16 23 1·18	79 47 9·75	...	197 198
Karlapálém s. ...	"	Close to a tank, about ¼ of a mile N. of the village of this name, 3¼ miles E. by N. of Bápáta, and 2½ miles N. by W. of Perali village: táluk Bápáta. The station is denoted by a small iron nail in the head of a long wooden pin driven into the sand. A palmyra machán 25 feet high was erected to overlook the prickly-pear jungle. 1865-66.	15 54 18·06	80 33 37·01	...	1031
Karmeda Beacon s. ...	"	On a high firmly set sand-hill, one of a chain of sand mounds which protect the village of Chinna Kara or Karmeda from the sea: this chain ends abruptly in a large, smooth-topped sand dune about 40 yards S. of the beacon which stands on the E. border of a fruit garden. It is ¼ of a mile S. of Chinna Kara village, and 3 miles N.N.E. of Masulipatam Fort: táluk Bandar. The beacon is 17 feet 11 inches high and contains four mark-stones, one at the foundation, the second at the ground level, the third 8 feet above the second, and the fourth on the top. 1885-86.	16 11 1·94	81 13 10·50	45	950
Karmeda s. ...	"	On the grazing lands, about ¼ of a mile W. of Chinna Karmeda village, 80 yards in the same direction of a hedge which defines a garden belonging to Míra Sahib of Chinna Karmeda, and 4 miles N.N.E. of Masulipatam Fort: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 11 48·86	81 13 32·48	$\frac{13}{1·5}$	948
Katakõnda h.s. ... <i>Kuttalcondah S.</i>	Kurnool	On the Nallamalai Hills, about 9 miles N.W. of Bõlla-palle, and 4¼ miles S. by E. of the Kortikanamma Pass: táluk Cumbum. The station is denoted by a mark-stone in the centre of a platform. 1812.	15 47 16·54	78 52 16·06	2847	302 303
Kátarkurru s. ...	Godávari	On a small bit of elevated ground about 2½ feet above the swamps by which it is surrounded, about ¼ of a mile S.S.E. of the village of Kátarkurru, 1½ miles S.S.E. of Katrenikona, and the same distance S.S.W. of Gõddanapalli: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 33 24·38	82 12 21·33	$\frac{9}{1·5}$	890
Kattevaram Pagoda <i>Kaetaram P.</i>	Kistna	Of the village so called on the right bank of the Kistna river, about 1½ miles N.E. of Bodanam village on the same bank of the river: táluk Satténápalle. 1812.	16 38 43·1	80 0 56·9	...	170

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Káttúr Choultry ... <i>Salleery Choultry</i>	Chingleput	About 1½ miles N.E. of the village so called on the road from Vallúr to Pulicat, and ½ of a mile S.S.W. of a salt station: táluk Pönneri. 1802-3.	° ' " 13 21 40·7	° ' " 80 20 38·0	feet ...	*
Kávali h.s. ...	Nellore	On the N.W. extremity of a ridge covered with scrub jungle and about 60 feet above the general level of the country, about 1½ miles S. by E. of Sripuram, and 1½ miles W. by N. of Kávali town: táluk Kávali. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom. A mound of earth has been raised over the station. 1886-87.	14 55 13·25	80 0 32·92	120	753 754
Kayyúr, XXXVI ...	"	<i>Vide</i> page 10—E. ...	14 0 39·10	79 42 0·25	$\frac{293}{2·7}$	43
Kayyúr h.s. <i>Kyoor H.</i>	"	Close to the principal station of this name: zamíndári Vēnkatagiri. 1812.	14 0 25·37	79 41 56·46	...	601 602
Kēsanapalli No. 1 s. ...	Godávári	On a sand dune close to the sea coast and about 12 feet above the high-water mark. About 1½ miles S.S.E. of the E. extremity of the village of Kēsanapalli, and 1½ miles S.W. of the mouth of the central discharge of the Godávári river. To W. and N. of the station there are swamps: táluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground. A 1-foot layer of mud was thrown over the station and part of the dune to invite vegetation. 1885-86.	16 23 49·62	81 58 20·36	† 14	904
Kēsanapalli No. 2 s. ...	"	On a low long ridge of sand about 15 feet above the general ground level. About 300 yards S.E. of a point in the village of Kēsanapalli which is 1½ miles from its E. extremity: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 24 19·59	81 56 58·95	$\frac{23}{1·5}$	905
Kēsanapalli No. 3 s. ...	"	On a low sand dune close to the sea coast and about 18 feet above the high-water mark. About 1½ miles a little E. of S. of a point in the village of Kēsanapalli which is 1½ miles from its E. extremity. A small strip of swamp and water, parallel to the sea coast, lies about 150 yards to W.: táluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground. A 1-foot layer of soft mud was thrown over the station and part of the dune to invite vegetation. 1885-86.	16 23 28·99	81 56 48·52	† 18	906
Kēsanapalli No. 4 s. ...	"	On a sand mound about 14 feet above the general ground level. About 220 yards S.E. of a point 2½ miles from the eastern and 3 miles from the western extremity of the village of Kēsanapalli: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 24 6·32	81 55 55·54	$\frac{22}{1·5}$	907

* For triangle fixing this point, see the Synoptical Volume of the Madras Longitudinal Series.

† To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Kēsanapalli No. 5 s. ...	Godāvari	On a sand dune close to the sea coast and about 13 feet above the high-water mark. About 1½ miles a little E. of S. of a point 2½ miles from the W. extremity of the village of Kēsanapalli: tāluk Narsāpur. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 23 7'59"	81 55 32'66"	$\frac{19}{1'5}$ feet	908
Kēsanapalli No. 6 s. ...	"	On slightly rising ground about 1½ feet high, in the midst of the village of Kēsanapalli, a place about 1 mile from its W. extremity: tāluk Narsāpur. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 23 49'13"	81 54 48'59"	$\frac{12}{1'5}$	909
Kesavaram, XXVI ...	Nellore	<i>Vide</i> page 9— <i>E.</i>	14 54 41'65"	79 51 40'34"	$\frac{203}{9'5}$	29
Khamam Hill Fort <i>Kummammett</i> ...	Nizam's Territory	Flag of the fort. Also known as Khamamet. 1819.	17 14 39'0"	80 11 20'8"	...	103
Khamam h.s. ...	"	On the N.E. bastion of the fort surrounded by the town of Khamamet; it is built chiefly of massive blocks of roughly hewn granite quarried on the top of the hill. The station is denoted by a masonry pillar 1 foot high and 3 feet in diameter. 1868-69.	17 14 39'63"	80 11 22'60"	$\frac{579}{1}$	102
Khasubakuppam Mosque <i>Cussapah Mosque</i> ...	Nellore	In the village so called, about ¼ a mile E. of the E. margin of the Pulicat Lake, and a short distance to S.E. of Bheripet village: tāluk Gúdūr. 1812.	13 40 38'5"	80 13 19'4"	...	641
Kistama, XXXI ...	"	<i>Vide</i> page 10— <i>E.</i>	14 27 14'56"	79 47 45'69"	$\frac{458}{2'6}$	37
Kodūr Hill Platform <i>Kodoor H.</i> ...	Cuddapah	On the N. end of a small range of hills trending N. and S., about 1½ miles W. of Kodūr village, and 1 mile E. of Bagarapet: tāluk Badvel. 1812.	14 52 32'4"	78 59 57'4"	...	390 391
Kodūr s. ...	Kistna	In a rice field about ¼ a mile S. of the village so called: tāluk Bandar. The station consists of a 5-foot pillar with two or more marks of circle and dot, the lowest being cut on a stone firmly embedded in the ground. 1865-66.	15 59 36'33"	81 4 37'97"	...	1018
Koladinne s. ...	Nellore	On the highest part of the bund of a tank called Koladinne-chēru, 12 feet W. by S. of the stem of a large pākār tree enclosing a palm, about 800 yards S.S.W. of the chattram in the hamlet of Koladinne, ¼ of a mile E. of the old road from Nellore to Rāmapatnam, 1½ miles W. by N. of Juvaldinne village, and 1½ miles E.N.E. of Mungamuru: tāluk Kāvāli. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 48 58'30"	80 5 17'71"	$\frac{18}{2}$	743

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Kölagotta Pagoda ... <i>Atikoor Pagoda</i>	Kistna	Small white pagoda about 1½ miles S.E. by E. of the village so called, 2½ miles S.E. of Atmakúr, and 2½ miles S.S.W. of Duggi: táluk Palnád. 1821.	16 23 20·5	79 34 17·4	... feet	229
Kölem h.s. ... <i>Kolem S.</i>	Nizam's Territory	On a low hill, about 3½ miles S. of the village so called on the road to Amrabad, and 1 mile W. by N. of Útivelupalle village. The station is denoted by a mark-stone in the centre of a platform 13 feet high. 1812.	16 14 59·58	78 49 11·57	2784 13	304 305
Kollúr Mosque ... <i>Kooloor Mosque</i>	Kistna	S. minaret of the mosque of the village so named on the right bank of the Kistna river, and about 1½ miles N.E. of Chetiýála on the same bank of the river: táluk Satténápalle. 1812.	16 42 20·3	80 3 38·4	...	169
Konakanamétla h.s. <i>Konakanametlah H.</i>	Nellore	On a detached hill, about 2 miles S.W. of the village so called, and the same distance N.E. of Katragunta: division Pödili. 1812.	15 37 30·27	79 30 27·32	...	317 318
Köndapalli Hill Fort	Kistna	Turret or sentry box on the highest part of the hill fort so called, about 1½ miles N.W. of Köndapalli village, and 3½ miles W. of Kavulúr: táluk Bézváda. 1861-62.	16 37 50·8	80 34 19·8	...	701 702
Köndúr Hill Pole ...	"	Pole and brush above the temple west of the village so called, about 4½ miles N.N.E. of the large village of Köndapalli: táluk Bézváda. 1861-62.	16 40 33·5	80 36 45·1	...	699 700
Köndúr s. ...	Nellore	On a low sand ridge about 7 feet above the level of the surrounding ground which is mostly all waste. A small nala or creek about 80 yards to E. flows into the Buckingham Canal about a mile to N., and the village of Köndúr is 400 yards to W.N.W.: táluk Gúdúr. The station is denoted by a thick wooden stake 6 feet long driven 4 feet into the ground. 1886-87.	14 0 39·29	80 10 53·30	* 15	614
Köngramalai Hill Pagoda <i>Goangamullaroyecondah P.</i>	Kistna	On an isolated hill near the road from Hyderabad to Bézváda, about 1½ miles S.W. by S. of Bhímavaram, and 2½ miles N.W. of Gavaravaram: táluk Nandigáma. 1812.	16 52 38·3	80 12 28·0	...	163
Köngramalai Hill Temple	"	Centre of the doorway of the square temple close to Köngramalai Hill Pagoda: táluk Nandigáma. 1861-62.	16 52 39·9	80 12 27·2	...	707
Konidöna Hill Pagoda <i>Konadinna H.P.</i>	"	About ¼ of a mile W. of the village so called, and 4½ miles N.W. of the large village of Márutúr: táluk Narsaraöpet. 1812.	16 0 37·5	80 5 29·9	...	261
Konijedu h.s. ...	Nellore	On the highest part of a rugged hill N. of the Kandulúr Range, on the boundary line between the villages of Konijedu, Marlápád, Sariviréddipálém, and Yérrachérla. It is about 6 miles S.W. by W. of the town of Ongole, 1½ miles S.W. by S. of Sariviréddipálém, 2 miles W. of Yérrachérla, and 1½ miles E.N.E. of Konijedu village: táluk Ongole. The station is denoted by a mark-stone embedded in the centre of a platform of stones 8 feet square and 2½ feet high. 1887-88.	15 27 9·47	80 0 50·67	485 2·3	333 334

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Korukōnda Hill Temple ...	Godāvāri	On a low isolated hill immediately N. of the village so called, about a mile W. of the high road from Rajahmundry to Rampa, and 1½ miles N.W. by W. of Kapavaram on the above mentioned road: tāluk Rajahmundry. 1860-61.	0 1 " 17 10 12'9	0 1 " 81 51 50'0	<i>feet</i> ...	663 664
Kota Manchēru s. ...	Kistna	On the bund of a tank, about ¼ of a mile N.E. of Kota Manchēru village, and 7½ miles W. by S. of Masulipatam Fort: zamīndāri Sallāpalli. The station is marked by a circle and dot engraved on a large stone firmly embedded in the soil, over which a pillar 9 feet high is built. 1865-66.	16 8 8'89	81 4 34'43	...	1015 1016
Kotapa, IX ... Yellamundah H.S.	"	<i>Vide page 7—E.</i>	16 9 6'95	80 4 46'95	$\frac{1583}{0'6}$	12
Kotapālēm Beacon ...	Godāvāri	On a firm sand dune composed of about three parts of sand and one of alluvial soil. The dune is fairly covered over with scrub vegetation and creepers. The "Keora" (a hardy tree shrub of the aloes species) has been planted to ensure permanency of the site. It is about ¼ a mile distant from the sea coast and 16 feet above the general ground level or about 18 feet above the high-water mark. The village of Kotapālēm which has been half carried away by an adjoining large creek, lies a mile to the W.N.W., and the mouth of the creek is about 1½ miles N.E. of it. Two casuarina trees, seemingly planted four years since, stand at the foot of the dune, about 25 yards to N.W.: tāluk Amalāpuram. The beacon consists of a 7-inch square post of teak, standing above the surface of the ground to a height of 22 feet 8 inches and is 40 feet 8 inches above the high-water mark. It has two pairs of cross-arms attached to it, the smaller pair 6 inches and the larger 5 feet from the top. The post is shod with a block of teak and this together with the lower portion of the post is built into a masonry pillar. The letters G.T.S. have been burnt into the post. The arms and 5 feet of the post from top have been painted white, the rest red. 1885-86.	16 35 14'6	82 19 14'7	* 14	982 983
Kotapālēm Temple ...	"	In the village so called: tāluk Amalāpuram. 1885-86.	16 35 31'7	82 18 31'4	...	984 985
Kotapapālēm s. ...	Kistna	About a mile N.E. of Rāmanāyapālēm, 1½ miles N.W. by W. of the large village of Chērukūr, and 5½ miles E.N.E. of Paruchūr on the high road from Ongole to Guntūr: tāluk Bāpatla. The station is denoted by a machān of palmyra logs 16 feet high. 1865-66.	15 59 27'08	80 23 55'97	..	1036
Kotapatnam s. ...	Godāvāri	On a slightly (4½ feet) elevated ground close to and N. of a hamlet of seven houses from which the station takes its name. About a few yards S. of a small canal connecting two marshy lakes, and 1½ miles S. by W. of Gachkailpur: tāluk Amalāpuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 2 feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 30 6'66	82 10 45'21	$\frac{13}{2}$	893

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Kothúr s.	Kistna	On the sea coast. It takes its name from the village of Kothúrpálém which was about $\frac{1}{2}$ a mile to S.W. and was washed away by the cyclone of 1st November, 1864. Since this cyclone another site for a village was selected $1\frac{1}{2}$ miles N.W.W. of the station, and the name of this new village is Kóttapálém. It is about $3\frac{1}{2}$ miles S. by E. of Masulipatam Fort, $1\frac{1}{2}$ miles S. of Polatitēppa, and $1\frac{1}{2}$ miles N.N.E. of Hamsaladevi: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 $\frac{1}{2}$ feet below, and 2 $\frac{1}{2}$ feet square and 2 feet above the surface of the ground, which contains two mark-stones, one (the original mark) at the foundation and the other on the top. A mound of earth has been raised over the station. 1865-66.	° ' " 16 6 5'55	° ' " 81 11 53'71	feet ...	954 1021
Kóttakanama Pass Point No. 1	Nellore	Cayman's Nose. About a mile E. of the source of the Marimanipēnta stream, and $7\frac{1}{2}$ miles W.S.W. of Vēnkata giri town: zamíndári Vēnkata giri. 1864-65.	13 54 51	79 31 18	...	509
Kóttakanama Pass Point No. 2 <i>Koyemaun Nose</i>	"	Close to Kóttakanama Pass Point No. 1: zamíndári Vēnkata giri. 1812.	13 54 50	79 31 20	...	510
Kóttakōnda Hill Platform <i>Kotakōndah</i>	Cuddapah	On one of the summits of a mass of hills overlooking the Chēyer river and about a mile to N.W. from it, and 7 miles W. of the Railway station of Nandalúr on the line from Bombay to Madras: táluk Pullampet. 1812.	14 16 9'6	79 2 0'5	...	477 478
Kóttapálém Beacon s.	Kistna	On a firmly set sand mound about 300 yards from the beach and 500 yards to the N. of the point, where the Kóttapálém Vetsevera Creek enters the sea, and about 2 miles S.W. of the large and important village of Kóttapálém: táluk Repalle. The beacon consists of an upright post of teak, 23 feet high, with double cross-arms attached to it. 1885-86.	15 52 18'52	80 49 6'76	...	1058 1059
Kóttapálém s.	"	In the centre of an open patch of sandy ground surrounded by mangrove jungle and covered with water during spring tides, about $1\frac{1}{2}$ miles S. of the large and important village of Kóttapálém, and 300 yards N. of a wide and deep creek, Kóttapálém Vetsevera: táluk Repalle. The station is denoted by a copper brad on the head of a thick well-tarred 4-foot wooden peg driven into the ground, and is covered over by a circular mound of sand 12 feet in diameter and 4 feet high. 1885-86.	15 51 41'71	80 50 57'22	...	1055
Kóttapalle Hill Dargah <i>Kothapully</i>	Nizam's Territory	N. minaret of the highest mosque about a mile N. of Kōmigudda, and $4\frac{1}{2}$ miles S.E. by S. of Tūmallagūdem. It is identical with Kothápálí Hill Dargah of the Bider Longitudinal Series. 1819.	17 17 22'3	79 7 50'3	...	*
Kóttapalli No. 1 s.	Nellore	On the bund of a tank called Rangadigunta, about the centre of the E. side, $\frac{1}{2}$ of a mile N.W. by W. of a tank surrounded by palm trees, called Kōnda-rēddigunta, $1\frac{1}{2}$ miles S.S.E. of Kóttapalli, and $4\frac{1}{2}$ miles W. by N. of Kávali town: táluk Kávali. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	14 55 43'72	79 58 1'38	70'	752

* For triangle fixing this point, see the Synoptical Volume of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Köttapalli No. 2 s. ...	Godávri	On an old artificial mound of firm earth, about 8½ feet above the general ground level, close to and S.W. of a small tank from the excavations of which the mound has been formed, and close W. of the eastern Kalwa Canal flowing N.N.E. and S.S.W. It is about 290 yards E. of the village so called, 4¼ miles S.E. by E. of the large village of Bhímanapalli, and 3 miles S.W. by S. of Katreníkona. The place is also known as Nimmakáyalaköttapalli: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	0 1 " 16 32 37' 26	0 1 " 82 10 27' 43	feet 13 1' 5	892
Köttapatnam Beacon s. ...	Nellore	On a low sand mound being a part of a narrow sand bar extending about ¼ of a mile to N., towards the mouth of the Swarnamukhi river. The sand mound is about 10 feet high and about 8 feet above the high-water mark. The sea lies 100 yards away. It is about a mile S.E. by S. of Köttapatnam, and 1¼ miles E. by N. of Chinna Govindapalle: táluk Gúdúr. The beacon consists of a 7-inch square post of teak, standing above the surface of the ground to a height of 22 feet 8 inches, and having two pairs of cross-arms inserted into it. The smaller pair is let in 6 inches, and the larger 5 feet from the top. The post is embedded in a block of masonry 5 feet deep, 5 feet square at foundation and 4 feet square at the surface of the ground. A sloping superstructure of masonry braces the post from the surface of the ground to a height of 4 feet. In the masonry, and about 8 inches above the concrete foundation, a large block of teak 2 feet 10 inches long and 18 inches both in depth and width, is let in, having a squarely cut receptacle 7 x 7 x 7 inches which received one end of the post. The letters G.T.S. have been burnt into the post. The arms and 5 feet of the post from top have been painted white, the rest red. 1886-87.	14 5 37' 94	80 10 31' 72	* 15	626 627
Köttapatnam s. ...	"	On a sand mound lying in a sandy waste, having a narrow strip of marshy ground to E. and a smaller one to W. It is about 200 yards W. of Köttapatnam, and 250 yards S.W. of Köttapatnam temple: táluk Gúdúr. The station consists of a thick wooden stake 6 feet long driven 4 feet into the ground. 1886-87.	14 6 46' 14	80 9 23' 72	* 20	612
Köttapúdi s. ...	Kistna	On the kacha cart-road from Mangēnapúdi village to Ellore, about ¼ a mile S.W. of Köttapúdi village, and 3 miles S.E. of the large village of Pidana on the high road from Masulipatam to Gudiváda. It is just outside of a garden of fruit trees from which it is divided by a high hedge: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 13 58' 02	81 13 36' 81	16 1' 5	945
Köttasaudi s. ...	"	On rising ground about 50 yards from the beach, and 250 yards N.E. by E. of a travellers' rest-house. The cart-track from Pēddapatnam to Góllapálēm runs 30 yards to N. The land on which the station stands belongs to Intír village which lies 1¼ miles to N.E. by N: táluk Bandar. The station is denoted by a thick sál wood peg 6 feet long driven 4 feet into the ground, and protected by a circular ditch and a high mound of earth. 1885-86.	16 18 58' 49	81 22 25' 88	* 8	987

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Kovúrtēppa h.s. ...	Nellore	On the top of a small rocky hill above a stone quarry, about a mile N. of the Pēnner river, and 2 miles N.W. of the Nellore large gopuram in Ranganaikalapet: táluk Nellore. 1863-64.	14 29 1'18"	80 0 27'11"	... feet	423
Kōyakōnda Hill Pagoda <i>Koyeacondah</i>	Cuddapah	On the western slope of a rock on the isolated hill S. and close to the small village of this name, about 2½ miles N. by E. of Chēttipalle village, and 6 miles W. by S. of the large village and police station of Sundupalle: táluk Ráyachoti. 1812.	13 57 39'6"	78 52 19'2"	...	546 547
Kōyakōnda Stone ... <i>Dakputlah Koyeacondah</i>	"	Sharp rock on a small isolated hill close W. of the road from Ráyachoti to Váyalpád, about 3 miles S.E. by S. of Ravutūkunta, and 1½ miles S.W. of Devapatla Police Station: táluk Ráyachoti. 1812.	13 53 31"	78 48 9"	...	548
Krishnapatnam Beacon s.	Nellore	On a low sand ridge about 25 feet above the immediately surrounding ground level and 300 yards from the sea. The mouth of the Vupputēru river lies about 3 miles to S. A plantation of screw-pine was laid down around a distance of about 60 feet to give firmness to the spot. It is 1½ miles E. by N. of Krishnapatnam, and ¼ of a mile E. of the D. P. W. canal bungalow at Krishnapatnam: táluk Gúdúr. The beacon consists of a straight and well-seasoned trunk of a palm tree, averaging 3 feet in girth and 50 feet in length driven 12 feet into the ground, and having two pairs of cross-arms inserted into it. The smaller pair is let in 6 inches, and the larger 5 feet from the top. The post is embedded in a block of masonry 5 feet deep, 5 feet square at foundation and 4 feet square at the surface of the ground. A sloping superstructure of masonry braces the post from the surface of the ground to a height of 4 feet. In the masonry, and about 8 inches above the concrete foundation, a large block of teak 2 feet 10 inches long and 18 inches both in depth and width, is let in, having a squarely cut receptacle 7 × 7 × 7 inches which received one end of the post. The letters G.T.S., ↑ and 1887 were cut into the post. The arms and 5 feet of the post from top have been painted white, the rest red. 1886-87.	14 17 51'74"	80 11 1'11"	* 30	436 437
Krishnapuram s. ...	Godávári	On a sand hill on the sea coast, about 1 and 2 miles respectively E. of the villages of Krishnapuram and Vantimámidí, ¼ of a mile S. of the village of Chitharam, and 2½ miles S.W. of Vemavaram: zamíndári Pithapuram. 1860-61.	17 13 19'76"	82 32 49'71"	...	810
Krosúr Hill Pole ...	Kistna	On a small hill between the village and a large sheet of water, about 2½ miles N.E. by N. of Tállúr, and 2½ miles W. by N. of Andukúr village: táluk Sattēnapalle. 1861-62.	16 32 17'8"	80 10 37'7"	...	715 716
Kuchērla, XXIV ...	Nellore	<i>Vide page 9—E.</i>	15 5 30'99"	79 43 48'90"	$\frac{566}{2'0}$	27, 33
Kuchērlakota Pagoda <i>Kocherlakotah P.</i>	"	In the fort of the village so called, towards the W. end of the Darsi division: division Darsi. 1812.	15 50 8'0"	79 23 11'8"	...	288
Kúdali Temple ...	Kistna	Highest temple about 1½ miles N. of Kanatalapalli, 2½ miles S. by E. of Kantamatkúr, and 1½ miles W. of Irallapád: táluk Nandigáma. 1861-62.	16 49 5'7"	80 25 13'2"	...	709

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Kumáragiripatnam s. ...	Godávári	On a sand dune about 14 feet above the high-water mark and 40 yards from the sea coast. About a mile S.W. of the village so called, and 290 yards S.E. of a canal connecting the mouth of the central main discharge of the Godávári river with the mouth of the smaller discharge of the same at Rámesvaram. The dune is somewhat firm and has some vegetation growing on it: táluk Amalápuram. The station consists of a thick sál wood stake 6 feet long driven 4 feet into the ground, having at the base a small supporting masonry pillar 3 feet square, 18 inches high and 6 inches deep. A mound of earth has been raised over the station and a 1-foot layer of mud thrown over the dune. 1885-86.	16 26 1' 23"	82 3 4' 50"	<i>feet</i> # 25	899
Kumárapur No. 1 s. ...	Vizagapatam	On a sand height above the high-water mark about $\frac{1}{2}$ of a mile E. of the village so called, and 3 miles S.W. by W. of the Custom house at the sea-port town of Pēntakota. The station is denoted by pickets. 1860-61.	17 16 4' 31"	82 36 52' 26"	...	808
Kumárapur No. 2 s. ...	"	On a high sand mound about $\frac{1}{2}$ a mile E. of the village of that name and about 520 yards from the high-water mark, $3\frac{1}{2}$ miles S.W. by W. of the Custom house at the sea-port town of Pēntakota. The station consists of a masonry pillar 40 inches in diameter and 1 foot high, with the usual rectangular protecting pillar built over it. 1884-85.	17 16 7' 81"	82 36 35' 16"	...	831
Kumáravol Village <i>Komarole</i>	Kurnool	On the road from Cumbum to Cuddapah: táluk Cumbum. 1812.	15 15 56	79 2 43	...	879
Kundrapák Hill Pillar <i>Koondrapauk H.</i>	North Arcot	About $\frac{1}{2}$ a mile N.N.W. of the village so called, $8\frac{1}{2}$ miles S. by E. of the large place of Tirupati, and $6\frac{1}{2}$ miles S.W. by W. of Tirupati Station of the S. I. Railway: táluk Chandragiri. 1812.	13 34 56' 8"	79 28 27' 0"	...	591
Kúpchandrapet Hill Peak <i>Koopchēndrapettah H.</i>	"	About $6\frac{1}{2}$ miles E. of Chandragiri town: táluk Chandragiri. 1812.	13 34 25	79 27 22	...	592
Kurichedu Hill Pagoda <i>Koorchade H. P.</i>	Nellore	In the village so called, about $1\frac{1}{2}$ miles S.W. of Vírājapá-lēm: division Darsi. 1812.	15 54 22' 3"	79 37 16' 2"	...	819 820
Kurtivēnu s. ...	Kistna	Within the paka walled compound of the Kurtivēnu temple. The station is $37\frac{1}{2}$ feet from the S.E. corner of the temple, $27\frac{1}{2}$ feet from the S.E. corner of the enclosure, 23 feet 5 inches from the E. wall, and 18 feet 11 inches from the S. wall. The temple stands on high ground and can be seen on clear days from a distance of 10 miles: táluk Bandar. The station consists of a masonry pillar 8 feet square and 2 feet below, and 2 feet square and $1\frac{1}{2}$ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 22 5' 25"	81 25 1' 19"	$\frac{13}{1' 5}$	936
Lachmanesvaram Temple	Godávári	About a mile S. of Narsápur town: táluk Narsápur. 1885-86.	16 24 5' 6"	81 43 56' 8"	† 95	990 991
Lachmipuram, LV ...	"	<i>Vide</i> page 13— <i>B.</i> ...	17 0 10' 80"	81 37 8' 74"	$\frac{328}{4' 5}$	71, 72

* To ground level, † To central spire.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Lachmipuram s. ...	Nellore	In a field about 100 yards S.S.E. of Lachmipur Málpalli hamlet, 150 yards S.E. by E. of Lachmipuram village, 2½ miles N.E. of Chalamchála, the same distance S.W. by W. of Yélúrpád, and 1½ miles N.N.E. of Pepálaráripálém: táluk Kandukúr. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom. A mound of earth has been raised over the station. 1886-87.	15 0 4'22"	80 0 46'84"	91 feet	757
Lagadapád, LXXIII ...	Kistna	<i>Vide page 16—E.</i>	16 29 17'14"	80 16 51'61"	$\frac{219}{4'0}$	98
Lakshnipuram s. ...	"	On firm ground (a bund) at the S. corner of a large square tank that lies a few feet E. of the village. It is 51 yards S. of the village of Lakshnipuram: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 23 31'99"	81 29 12'53"	$\frac{13}{1'5}$	982
Lámkónda Stone ... <i>Laumcondah</i>	"	N. stone on a low hill immediately S. of the village of Lám, about 3 miles S. by W. of Tadikónda, and the same distance S.E. of Pónnikallu: táluk Guntúr. 1812.	16 22 49	80 28 54	...	176
Lankamalai h.s. ... <i>Lunkamalli S.</i>	Cuddapah	On a hill about 8½ miles S. of the high road from Cuddapah to Nellore, 10 miles S.W. by W. of Chinnapalli village on the above named road, and 5 miles S. of Regulakunta: táluk Badvel. 1812.	14 39 40'38"	78 57 22'39"	2874	*
Lankardibba s. ...	Kistna	On a ridge between two rice fields, about 1½ miles N.E. by N. of the large fishing village of Lankardibba, 100 yards E. of a large tank which lies 50 feet W. of a fresh water canal, and about 85 to 90 feet W. of the western channel of the Kistna river: táluk Repalle. The station is denoted by an iron brad in the head of a large wooden tarred peg built into and flush with the surface of a masonry pillar 3 feet square and 2 feet 4 inches in height; the upper surface of the pillar is level with the ground and is covered over by a circular mound of earth 12 feet in diameter and 5 feet high. 1885-86.	15 49 27'99"	80 54 5'52"	...	1060
Lellapálém s. ...	Nellore	On a small sand ridge 180 yards from the E. bank of the Buckingham Canal. It is about 12 feet above the general ground level and 1½ miles E.S.E. of Lellapálém: táluk Gúdúr. The station consists of a thick wooden stake 6 feet long driven 4 feet into the ground. 1886-87.	14 6 12'33"	80 7 56'87"	† 23	609 610
Lingamgunta h.s. ... <i>Lingumgoontlah H.S.</i>	"	At the N.E. extremity of an extensive range of hills, about 3 miles N.W. of the village so called, and 6 miles in the same direction of the large village of Pédá Góllapalle: táluk Kanigiri. The station is denoted by a large platform covered over by a pile of stones. 1812.	15 33 11'82"	79 19 42'74"	1688	281
Lingampalle Turret <i>Lingumpullee turret</i>	Nizam's Territory	In the village so called, about 7½ miles W. of Perúr on the road to Devarakónda town. 1821.	16 45 57'3"	79 17 31'9"	...	129

* For triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

† To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Lokarup h.s. ...	Visagapatam	On a small conical hill crowned by the temple of Rámaswámi, the S.W. corner of which is 6 feet 11 inches from the station mark. The village of Lokavaram lies at the foot of the hill. The station is denoted by a circle and dot cut on the rock <i>in situ</i> . When visited in 1884-85, the mark was found intact over which a masonry pillar 40 inches in diameter and 1 foot high with the usual rectangular protecting pillar was built. There is a Revenue Survey mark of a similar description to the S.W. of the temple and 15 feet N. of the station. 1860-61.	17 20 8'65	82 36 27'90	feet ...	807
Losári s. ...	Godávári	On low ground, a bog in the rains, surrounded by mangrove jungle. The river Uputaru flows 100 yards to S. The village of Losári is $\frac{1}{4}$ of a mile to W.N.W.: táluk Narsápur. The station is denoted by a wooden peg 6 feet long driven down to the ground level and another peg 4 feet long centred over the first. The upper peg is surrounded by a platform of sods 12 feet square and $4\frac{1}{4}$ feet high. 1885-86.	16 23 48'50	81 31 4'76	* 4	930
Machavaram Hill (helio.) ...	Nellore	About a mile N. of the village so called, 4 miles N. of Gudlúr, and $5\frac{1}{4}$ miles S. by W. of the town of Kandukúr: táluk Kandukúr. 1863-64.	15 8 11'65	79 56 26'02	...	853
Machavaram Pagoda <i>Macharam</i> ...	Nizam's Territory	Black-topped pagoda with a white base in the village so called which is on the road to Súrayapet town, about $4\frac{1}{2}$ miles S. of Undurgónda, and $5\frac{1}{2}$ miles W. of Chidalla. 1819.	17 1 6'5	79 44 0'7	...	113
Machërla Pagoda ... <i>Mahcherlah P.</i>	Kistna	Of the large village so called about $1\frac{1}{2}$ miles W.N.W. of Ráyavaram: táluk Palnád. 1821.	16 28 42'6	79 28 29'3	...	224 225
Madugala Hill Pagoda <i>Maudugulah</i> ...	Nizam's Territory	Close S.W. of the village so called, about 2 miles S. by E. of Réntala, and 1 mile N.N.E. of Darvemula village. 1812.	16 29 53'5	79 36 47'8	...	218 219
Madurupád h.s. ...	Nellore	On the N.W. extremity of a low ridge covered with jungle called Madurupádtéppa, which extends about 2 miles in a southern direction. It is on the summit of the hill surrounded with rocks. Close to it on the north, terminates a fair cart-road which proceeds from Madurupád village, and is used for the conveyance of wood from the jungle. It is about a mile W. by N. of Madurupád, $1\frac{1}{2}$ miles E. by N. of Náráyanapuram, and 3 miles N. by W. of Kávali town: táluk Kávali. The station consists of a masonry pillar, 3 feet square and 8 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	14 57 38'13	80 1 42'23	88	756
Malaikónda No. 1 Pagoda <i>Mullayecondah</i> ...	Cuddapah	Pointed pagoda on an isolated hill, about $2\frac{1}{2}$ miles S.E. by S. of Sibyala village on the high road from Ráyachoti to the police station and village of Sundupalle: táluk Ráyachoti. 1812.	14 0 53'7	78 52 15'5	...	535
Malaikónda No. 2 Pagoda <i>Mullayecondah P.</i> ...	North Arcot	Táluk Chandragiri. 1812.	13 34 6'4	79 20 32'7	...	593
Malaimarapuram Platform <i>Mullamarpoor</i> ...	Cuddapah	On the N.E. summit of a hill, about $2\frac{1}{2}$ miles W. of the village of this name, and 5 miles N.W. by W. of the large village of Chitvel: táluk Pullampet. 1812.	14 12 11'5	79 18 23'0	...	495 496 497

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Malakōnda Hill Pagoda <i>Maulaeconda P.</i>	Nellore	About 5½ miles W.N.W. of Lingasamudram, and 5 miles S.W. by S. of Chundi: táluk Kandukúr. 1812.	0 1 "	0 1 "	<i>feet</i>	
			15 6 37'2	79 40 52'1	...	400 401
Malakōnda Hill Temple	"	Centre of the temple close to Malakōnda Hill Pagoda: táluk Kandukúr. 1863-64.	15 6 31'2	79 40 47'8	...	354
Maleshvar h.s. ... <i>Mulleeshwar H.P.</i>	Cuddapah	On the pagoda on a spur of a hill washed by the Pēnner river, about 2 miles N.W. of the police station and village of Kotapád, and 6½ miles N.E. of the town of Vōntimitta: táluk Siddhavattam. 1812.	14 27 49'64	79 7 56'99	...	460 461
Malesvara Hill Temple	Kistna	On a small isolated hill, about 1½ miles S. of the village of Kōndavarava, 2½ miles W. by N. of Rámanakapet on the road to Núzvid, and 6½ miles N. by E. of this town. The place is also known as Kōndavarava: zamindári Núzvid. 1861-62.	16 53 11'4	80 52 38'4	...	686
Malinenipatnam Pagoda <i>Mullailputnum P.</i>	Cuddapah	About a mile N. of the N. or left bank of the Pēnner river, and 9 miles E. by N. of the town of Siddhavattam: táluk Siddhavattam. 1812.	14 29 29'0	79 8 22'1	...	462
Malinenipatnam Platform <i>Mullailputnum Hill</i>	"	On a hill, about a mile E. of the village of this name, and 10 miles E. by N. of the town of Siddhavattam: táluk Siddhavattam. 1812.	14 29 31'5	79 9 23'1	...	454
Malkapur h.s. ... <i>Mulkapoor S.</i>	Nizam's Territory	On one of the highest points in the range of granitic hills locally known as Jandagutta, about 2½ miles S. by E. of the village so called on the road to Hyderabad, 3 miles E. of Mailavaram, and the same distance W. of Kundagúdem. The hill which is ascended from the E. side is about 600 feet above the plain at its base. The station is marked by a circle cut on a flat stone at the top of a slightly elevated platform. 1812.	17 14 0'37	78 50 38'96	2175	117
Mallam s. ... <i>Mollum P.</i>	Nellore	About ¼ of a mile S. of the high road from Kálahasti to Dugarápatnam, 3½ miles S.W. by W. of the latter town, and 1½ miles S.S.W. of Tirumúr village: táluk Gúdúr. 1812.	13 57 19'71	80 9 19'51	...	622 623 624
Mallápád Hill <i>Moonlapaud H.</i>	"	About 1½ miles N. of Darisi Timmakapalle village, and 3 miles S.W. by W. of Gogulapalle: táluk Kanigiri. 1812.	15 14 15	79 18 43	...	383
Mallávaram Hill Pagoda <i>Mullaurum H.P.</i>	"	Centre of the temple on a small isolated hill close to and on the left bank of the Gundlakamma river, about ¼ of a mile N. by E. of Mallávaram village on the opposite bank of the river, and 3 miles S.W. of Timmanapálém village on the main road from Ongole to Addanki: táluk Ongole. 1812. It was refixed in 1863-64.	15 39 35'1	80 1 29'9	...	278 279
Mallávaram House ...	Godávári	Known as Dunaváda house. It is situated at the S. end of the Coringa division: division Coringa. The point is denoted by a circle and dot cut on the S.E. corner of the parapet of the paka roof. 1885-86.	16 43 16'25	82 17 33'34	...	975 976

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure <i>feet</i>	No. of Triangle
Mallávaram Mol s. ...	Godávári	About 290 feet W. of the junction of a smaller creek and the Melapúdi Nala, 585 yards E. of a small paka house belonging to Kashivedi Brahmanandam Gáru, and 400 yards N.E. of a small hamlet of Yanam called Daral Chipa. The S.E. angle of the surrounding walls of the paka house has been marked by a circle and dot cut on brick at the surface, and lies 575½ yards W. by N. of the station: division Coringa. The station consists of a circular masonry pillar 40 inches in diameter and 3 feet high, with the usual rectangular protecting pillar built over it. 1884-85. It was re-visited in 1885-86.	16 43 11.69	82 17 50.45	4	879
Mallesvara Temple ...	"	About ¼ of a mile S. of Lorasanipád village, and 2¼ miles N. by E. of the large village of Timmapuram: táluk Ellore. 1860-61.	16 57 36.8	81 17 50.4	...	679 680
Mallimkōnda Hill Platform <i>Mullimcondah</i> ...	Nellore	On a bluff hill, about 5 miles W. by N. of Mangupalli village: táluk Atmakúr. 1812.	14 35 14.9	79 18 40.3	...	450 451
Malráj h.s. ...	Visagapatam	On an isolated conical hill, about 4 miles S. of the village of Nakkapilli, and ¼ of a mile W. of the grand trunk road from Vizagapatam to Cocanada. Siana Dodegola village lies at the foot of the hill to N.E. by E., and the village of Kothúr towards its W. foot. The station is denoted by a circle and dot cut on the rock <i>in situ</i> . When visited in 1884-85, the mark was found intact over which a masonry pillar 40 inches in diameter and 1 foot high with the usual rectangular protecting pillar was built. 1860-61.	17 23 58.03	82 42 11.98	...	805
Manchala s. ...	Kistna	On the E. bund of a tank about 200 feet N. of Manchala village, and ¼ a mile E. of the high road from Guntúr to Pōnnúr: táluk Bápatla. The station is denoted by a circle and dot engraved on a large stone firmly embedded in the ground. 1863-64.	16 9 59.10	80 34 54.72	...	999
Manchikōllu Pagoda <i>Munchicullo</i> ...	"	About ¼ a mile N.E. of the village so called, 1¼ miles S.W. by S. of Bēntala, and the same distance W. by N. of Madugala village: táluk Palnád. 1821.	16 29 57.8	79 34 23.4	...	220 221
Mandadi Pagoda ... <i>Mundadee pagoda</i>	"	Of the village so called, about 2¼ miles N.W. of Potlavíd: táluk Palnád. 1821.	16 24 30.0	79 27 5.6	...	226 227
Mangalagiri Hill Temple ...	"	On the side of the southernmost of a group of low hills. The high road from Guntúr to Bēzvāda passes along the W. foot of the hill, and the village of Mangalagiri lies at the S. foot of it: táluk Guntúr. 1861-62.	16 26 9.9	80 36 44.8	...	730
Mangalagiri No. 1 h.s. ... <i>Munglegcherry H.S.</i>	"	N.W. of a Swámi house and close to Mangalagiri No. 2 s.: táluk Guntúr. The station is denoted by a mark-stone in the centre of a square platform. 1812.	16 26 15.48	80 36 54.68	799	172 173
Mangalagiri No. 2 h.s. ...	"	On the summit of an isolated hill at the S.E. foot of which lies the large and well-known village of Mangalagiri on the high road from Calcutta to Madras. It is about 5¼ miles S.S.W. of the town of Bēzvāda: táluk Guntúr. The station is denoted by a circle and dot engraved on the rock <i>in situ</i> . 1863-64.	16 26 15.72	80 36 54.27	...	997

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Mangalagiri Temple ...	Kistna	In the village so called on the E. side of the high road from Guntúr to Bésvada, and about 2 miles N. by E. of Chinna Kákáni village: táluk Guntúr. 1861-62.	0 1 " 16 25 57.5	0 1 " 80 36 39.8	feet ...	728 729
Mangampet h.s. ... <i>Mungampet H.</i>	Cuddapah	About 3 miles S.E. of the town of Vóntimitta: táluk Siddhavattam. 1812.	14 22 5.84	79 6 18.83	...	455 456
Mangamúr Pagoda ... <i>Mungamoor P.</i>	Nellore	In the village so called, about 3 miles S.W. by S. of Peranamitta village on the main road from Cumbum to Ongole: táluk Ongole. 1812.	15 29 57.2	80 0 47.7	...	330
Manganapúdi Hill Pagoda <i>Munganapody P.</i>	"	About a mile N. by W. of the village so called, and 3½ miles E. by S. of the police station and large village of Kuchérlakota: division Darsi. 1812.	15 49 21.3	79 25 57.7	...	289 290
Mániam, VIII ...	Kistna	<i>Vide page 6—E.</i> ...	16 22 20.85	79 55 24.88	$\frac{1206}{1.0}$	8
Manjankaranai s. ... <i>Munjacarnah</i>	Chingleput	About ¼ of a mile S.W. of the hamlet of Kandigai, and 1½ miles E. by S. of Kannipper on the main road from Périyapálayam to Madras: táluk Tiruvallúr. 1802-3.	13 16 7.08	80 9 31.10	...	658
Manjer s. ...	Godávári	On the E. bund of a tank N. of the village of Kóttá Manjer, about 369 feet from a hut containing an idol, 130 feet N. of a big Jáman tree which has been marked with a broad arrow, ½ a mile N. of the Coringa Canal and Road, and 1½ miles N.E. of Sila village. The place is also called Kóttá Manjer: division Cocanada. The station is denoted by a circle and dot engraved on a large stone embedded in the ground. When visited in 1884-85, the mark-stone was found embedded on a mound, which seemed to have remained undisturbed. A masonry pillar 40 inches in diameter and 1 foot high with the usual rectangular protecting pillar was built over it, and was covered over by a mound of earth. 1861-62.	16 49 18.46	82 14 24.94	10	875
Mánteripálém No. 1 s. ...	Kistna	Close to Mánteripálém No. 2 s.: táluk Repalle. The station is denoted by a small iron nail in the head of a long wooden pin driven into a mound of earth 4 feet high. 1865-66.	15 58 6.67	80 50 7.35	...	1023
Mánteripálém No. 2 s. ...	"	On a slight rise in the centre of a vast swamp, about ¼ a mile S.E. of the village so called, 3 miles E. by N. of Kuchénapalli, and 2½ miles S.E. of Pallapatla on the high road from Nizámpatnam to Repalle: táluk Repalle. The station is denoted by a 6-foot wooden peg driven into the ground and covered over by a large mound of earth. It is within a few feet of the station of 1865-66 of which no mark was found. 1885-86.	15 58 6.80	80 50 7.52	...	1049
Marellakónda Hill Platform <i>Morrellacondah</i>	Cuddapah	On one of a stretch of hills, about a mile W. of the Pincha river, 2 miles S.S.E. of Marella village, and 1½ miles E. by S. of Garnimitta on the main road from Sandraripalli to Maddipatlaripalli: táluk Váyalpád. The point is denoted by a mark in the centre of a platform. 1812.	13 48 32.5	78 59 43.7	...	556 557

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Mariadibba s. ...	Kistna	Between the two hamlets, Mariadibba and Sríwálapálém, of Mangénápúdi village, about 300 yards from the former (the larger) and 200 yards from the latter: táluk Bandar. The station is denoted by an iron brad in the head of a wooden peg 6 feet long driven in the centre of an artificial platform of earth 14 × 10 feet and 2 feet high. 1885-86.	16 14 26·09	81 14 56·83	$\frac{16}{2}$ feet	944
Márkápur Pagoda ... <i>Markapooram P.</i>	Kurnool	Largest pagoda in the town of this name: táluk Márkápur. 1812.	15 44 16·6	79 18 49·2	...	294 295
Masálkor Kalwa s. ...	Godávári	On slightly (20 inches) elevated ground. There are swamps on both the eastern and western sides. It is about 500 yards S.S.W. of the village of Gajantéppa, 350 yards S. of a small hamlet of the said village, 1½ miles S. of Kandikuppam, 1½ miles S.E. by S. of Dántákurru, and a mile N.W. by N. of Pánde: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2½ feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 34 0·95	82 14 52·48	$\frac{8}{1·5}$	888
Másanatéppa s. ...	"	On a sand dune about 18 feet above the general ground level and 240 yards from the sea coast. It is about 3 miles a little to N. of E. of the village of Balistéppa, and 1 mile S. of the temple of Másanatéppa (a recent construction all but completed): táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 38 33·57	82 20 57·56	$\frac{18}{1·5}$	882
Masulipatam Flag-staff ...	Kistna	Fort flag-staff: táluk Bandar. 1865-66. ...	16 8 55·4	81 11 39·4	...	995
Masulipatam No. 1 s. ...	"	The old station having been destroyed, a new one was made on the roof of the portico or entrance to the fort church now in ruins: táluk Bandar. The station is denoted by a circle and dot cut on the roof and protected by a brick platform 3 feet square and 1 foot high. 1885-86.	16 8 57·44	81 11 28·59	47	951
Masulipatam No. 2 s. ...	"	On the N.E. corner of the paka terraced house belonging to Rája Bahádur in Buttárapet: táluk Bandar. The old mark-stone had been removed, but the square hole in which it lay was found, and a new mark-stone has been embedded therein. 1885-86.	16 10 41·24	81 10 32·23	54	952
Masulipatam Temple ...	"	Spire of Shivaganga temple about 2½ miles W. by N. of Masulipatam Fort: táluk Bandar. 1865-66.	16 9 31·2	81 8 55·6	...	996
Mátharsála h.s. ... <i>Mathersawla H.</i>	"	On the southern point of a mass of hills, about 5 miles W. of Chintapalli village on the right bank of the Kistna river, and 5½ miles N.W. by N. of the large village of Chámaru: táluk Satténapalle. The station is denoted by a platform. 1812.	16 41 16·88	80 6 22·57	...	167 168

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Matla Pagoda ... <i>Mutlee P.</i>	Cuddapah	Of the village so called close to the left bank of the Mandavia stream, about 6¼ miles S.E. of the police station and village of Chitlúr on the high road from Ráyachoti to Cuddapah, and 5¼ miles N.E. by E. of the town of Ráyachoti: táluk Ráyachoti. 1812.	0 1 " 14 6 10'7	0 1 " 78 51 41'5	feet ...	527
Matsavaram Fort ... <i>Maussarum</i>	Kistna	S.W. angle of the fort of the village so called: táluk Palnád. 1812.	16 34 9'0	79 54 27'3	...	201 202
Medaraméttla, XV ...	Nellore	<i>Vide page 8—E.</i> Note:—As Colonel Lambton's station of Maidrametlah H.S. has disappeared, all his observations have been referred to this station.	15 43 54'04	80 2 53'59	$\frac{568}{1'0}$	19
Meddelakõnda Stone <i>Muddulroye</i>	Cuddapah	On a sharp rock on a hill, about 3¼ miles W. by S. of the police station and village of Lakkiréddipalle on the high road from Fulivéndla to Ráyachoti: táluk Ráyachoti. 1812.	14 8 55	78 42 33	...	524 525
Melavog Pagoda ... <i>Melog Pagoda</i>	Kistna	W. of the village so called: táluk Vinukõnda. 1821. ...	16 20 51'9	79 46 39'6	...	238
Miádarsál, III ...	"	<i>Vide page 6—E.</i>	16 42 2'92	80 5 59'79	$\frac{1574}{1'2}$	5, 6
Midimalapkõnda Platform <i>Middee Malapcondah</i>	Cuddapah	On the S. point of a mass of hills, about 2 miles N.E. by N. of Gurrankõnda on the main road from Madanapalle to Chérlapalli, and 4 miles S.W. of the latter place: táluk Váyaspád. 1812.	13 48 8'0	78 38 5'2	...	*
Milaraméttla h.s. ...	Godávári	On the eastern ridge of a double hill of that name, about 1¼ miles N. of Katavaram village on the left bank of the Godávári river, and the same distance E.N.E. of Munikudali village on the same bank of the above named river: táluk Rajahmundry. 1860-61.	17 7 43'30	81 47 22'89	...	665 666
Mizár Pagoda ... <i>Meenjoor</i>	Nellore	In the village so called on an island in the Pulicat Lake and near its western margin about 2¼ miles S. of Velupád village on the adjacent island: táluk Gúdúr. 1812.	13 45 52'5	80 7 25'4	...	681
Mögalmor s. ...	Godávári	In a rice field, about 270 yards S.S.E. of the hamlet of Sirugattapalli, 1 mile S.W. of the village so called, and 1¼ miles N.W. by W. of Kumáragiripatnam: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2¼ feet square and 1¼ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 27 40'96	82 1 9'16	$\frac{9}{1'5}$	900
Mögaltúr s. ...	"	On open ground among rice fields, exactly on the northern boundary of the Mógaltúr Rája's lands and about ¼ a mile E. of his fort. A path leading to Yempa and a small irrigation cut running parallel to it and only a few feet apart, pass to the S. of the station: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1¼ feet above the surface of the ground, which contains mark-stones at ground level and top. A mound of earth has been raised over the station. 1885-86.	16 25 38'06	81 40 4'12	$\frac{9}{1'5}$	925

* For triangles fixing this point, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Mōkshagundam h.s. ... <i>Mooshigoondum P.</i>	Kurnool	On a range of hills running N.N.E. and S.S.W., along the foot of which and to the E. runs the high road from Cuddapah to Cumbum, about 2½ miles S.W. of Mōkshagundam village, and 2½ miles S.E. of Palakavīd: tāluk Cumbum. 1812.	0 1 " 15 25 32' 94	0 1 " 79 5 12' 06	feet ...	367
Molakalapūdi s. ... <i>Mukulpaddy</i>	Nellore	About ¼ of a mile S.W. of the village so called, 1 mile S. of the high road from Nāyudupet to Dugarāzpatnam, and 6 miles E. of the former place: division Polūr. 1812.	13 53 48' 24	80 1 32' 19	...	630
Morlaguntla s. ...	Kistna	On open ground, about 350 yards S.E. of the large fishing village of this name, and about 2½ miles S.S.W. of Kaitēpalli: tāluk Repalle. The station is denoted by a wooden peg driven into the ground, and covered over by a large circular mound of earth. 1885-86.	15 52 54' 45	80 53 7' 34	...	1056 1057
Mortola Temple ...	"	Spire of the temple also called Mutiasaswāmi. At the N. extremity of the large village of Kāmarajugada on the right bank of the western channel of the Kistna river, and about 4 miles S.E. by S. of Repalle: tāluk Repalle. 1885-86.	15 58 35' 3	80 55 55' 1	...	1064 1065
Motumallela Hill Pagoda ... <i>Mote Mullail H.P.</i>	Cuddapah	On a small isolated hill close to the place so called, and about 2 miles N. of Rampichēra village: tāluk Vāyālpād. 1812.	13 42 21' 4	79 5 40' 4	...	*
Mulagalampād h.s. ...	Godāvāri	On a very high sandy height, about 2½ miles S. by E. of the village so called, and 2 miles S.E. by E. of Bōgol: tāluk Ellore. The station is denoted by a mark-stone on a kacha pillar 4.5 feet high. 1862-63.	16 54 37' 62	81 6 31' 96	$\frac{538}{4.5}$	685
Mulapet s. ...	"	On the high-water mark, about 1½ miles E. of the village so called, and 2½ miles S.S.E. of Rāmanakapet village: zamindāri Pithāpuram. In 1884-85 this station was reported as having been destroyed. 1861-62.	17 7 2' 94	82 25 51' 51	...	814
Mulaswāmi Hill Pagoda ... <i>Moolaswamy H.P.</i>	Nizam's Territory	Also called Gopālswāmi. About 1½ miles W. of Nārkatpalli from which a road leads to Nalgōnda town. 1819.	17 12 2' 5	79 12 50' 1	...	†
Munagāl Mosque ... <i>Moongal</i>	"	Cupola of the left minaret. In the large place so called on the high road from Hyderabad to Masulipatam. 1819.	17 3 9' 1	79 52 35' 2	...	109
Mungamuru s. ...	Nellore	On the N. side of a raised strip of ground forming a pathway to Tāllapālēm village about 3 miles N. by E., 200 yards N.E. of the N. extremity of the village of Mungamuru, 150 yards S.E. of the S.W. extremity of a large tank called Mungamuru-chēru, and 100 yards N.W. of a conspicuous palm: tāluk Kāvāli. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 8 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 48 46' 57	80 3 39' 71	$\frac{19}{2}$	740

* For triangle fixing this point, see the Synoptical Volume of the Madras Longitudinal Series.

† For triangle fixing this point, see the Synoptical Volume of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Munikōnda Hill Pagoda <i>Moonecondah P.</i>	Cuddapah	On one of a group of small hills, about 2½ miles S.E. of the Railway station of Nandalūr on the line from Bombay to Madras, and 1 mile S.W. of the large village of Madanagopālapuram: táluk Pullampet. 1812.	14 14 19.3	79 10 29.6	feet ...	488 489
Murukōndapád s. ...	Kistna	On the E. bund of a large tank about ¼ of a mile W. of the village of this name, 1¼ miles W. of Kankatapālēm, and 5 miles W.N.W. of Bāpatla: táluk Bāpatla. The station is denoted by a mark-stone firmly embedded in a mound raised over the bund, about 6 feet high. 1866-66.	15 54 48.66	80 25 57.77	...	1035
Muthianu h.s. ...	"	On a small isolated hill, about 2 miles W. of Chintalapalli, 1¼ miles E. by N. of Mukkolupád, and 4¼ miles N.E. of the town of Núsvid: zamindári Núsvid, thána Ganavaram. The station is denoted by a mark-stone embedded in the ground. 1862-63.	16 49 57.90	80 56 46.80	...	687
Mutiyálpalli s. ...	Godávári	About 3 miles W.S.W. of Mōgaltúr Fort, and ¼ of a mile N. of the fishing hamlet of Mutiyálpalli Pallipālēm on the low ground: táluk Narsápur. The station is denoted by a thick wooden peg 6 feet long driven 4 feet into the ground, and protected by a platform of earth. 1885-86.	16 24 36.74	81 36 29.76	* 5	926
Muttapalli s. ...	Kistna	About ¼ of a mile N.E. of the village so called, and 1¼ miles W.N.W. of Pallapatla on the high road from Nizámpatnam to Repalle: táluk Repalle. The station is marked by a circle and dot engraved on a mud pillar 6 feet high. 1865-66.	15 59 41.05	80 46 32.72	...	1024
Muttukurrutēppa s.	Nellore	On the centre of Montgomerie's mound a few hundred yards W. of the high road, and about 3 miles S. by W. of Nellore town: táluk Nellore. 1864-65.	14 24 57.47	79 59 34.56	...	422
Mutukúr Pagoda <i>Mootkoor P.</i>	Kistna	White pointed pagoda about 4 miles S.W. of Atmakúr village, and the same distance S.E. by E. of Mandádi: táluk Palnád. 1821.	16 22 49.6	79 30 36.6	...	280
Nadēlla h.s. <i>Nahdindlah H.</i>	"	On a small, low, isolated hill so called, about 2½ miles N.W. by N. of Timmapuram village on the high road to Guntúr, 5 miles N.E. by E. of Kávúr on the high road to Narsaraōpet, and 9 miles S.E. by E. of the last named place: táluk Narsaraōpet. 1812.	16 10 16.78	80 13 47.00	...	258 254
Nágál, XLVIII ...	Godávári	<i>Vide page 13—E.</i> ...	17 21 28.27	82 13 13.34	$\frac{1653}{2.0}$	60
Nágálapuram Hill <i>Naglavaram H.</i>	Chingleput	About 3¼ miles E.N.E. of Mudiyrú village on the N. bank of the Arani river, and 1¼ miles N.E. of Kát-tukandigai hamlet: táluk Tiruvallúr. 1812.	13 25 38	79 48 50	...	...
Nágaldurgam, LXII	Nizam's Territory	<i>Vide page 14—E.</i> ...	17 19 46.02	80 58 4.87	$\frac{1391}{2.0}$	88

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Nágapatla Pagoda ... <i>Nagapatlah</i>	North Arcot	About 4 miles N.W. by N. of Chandragiri town: táluk Chandragiri. 1812.	13 38 0'4	79 19 5'0	... <i>feet</i>	* 590
Nagari, XXXIII† ... <i>Naggery Nose</i>	"	<i>Vide page 12—E.</i> ... Note:—By subsequent calculations it has been found that this station is identical with "Naggeri Nose" of Colonel Lambton's triangulation of 1802-3.	13 22 45'08	79 38 13'62	2814 1'5	‡ 53
Nakkapilli Hill Temple ...	Vizagapatam	About a mile S.E. of the well-known town of Nakkapilli on the high road to Tuni: táluk Sarvasiddhi. 1860-61.	17 23 51'8	82 45 27'6	...	...
Nakkapilli Temple ...	"	About a mile S.E. of the well-known town of Nakkapilli on the high road to Tuni: táluk Sarvasiddhi. 1860-61.	17 23 56'1	82 45 28'9	...	830
Nalgönda h.s. ... <i>Nelgoondah</i>	Nizam's Territory	On the highest part of the north hill, close to the town so called. The station is marked by a circle on the rock to the level of which a platform has been raised. 1812.	17 3 31'25	79 17 55'00	1474	114 115
Nallakönda, L ...	Godávári	<i>Vide page 13—E.</i> ...	17 18 13'09	81 59 34'91	1263 2'0	64
Nallakönda Hill Building <i>Nullacondah</i>	Cuddapah	About 2 miles N.N.W. of the police station and village of Chinnamandém, and the same distance W. of Köt-tapalle village on the high road from Madanapalle to Ráyachoti: táluk Ráyachoti. 1812.	13 58 9	78 42 34	...	549 550
Nallakönda Hill Mark <i>Nullacondah Mark</i>	Nellore	About 4½ miles W. of the large place of Kurichedu: division Darsi. 1812.	15 54 35'11	79 33 16'69	...	291
Námalpet h.s. ... <i>Naumalpete</i>	North Arcot	On Námalpet Mandapam on the sacred hills of Tirupati: táluk Chandragiri. 1812.	13 39 5'28	79 24 23'10	...	582 583
Nandalúr Pagoda ... <i>Nundelloor</i>	Cuddapah	Eastern pagoda in the large village of this name on the left bank of the Chéyer river, and about a mile E. of the Railway station of Nandalúr on the line from Bombay to Madras: táluk Pullampet. 1812.	14 15 59'5	79 9 48'9	...	479
Nandigáma Bungalow ...	Kistna	N. gable end of the travellers' bungalow close S. of the place so called on the road from Bézváda to Hyderabad: táluk Nandigáma. 1861-62.	16 46 16'0	80 19 33'1	...	711
Nandigáma Temple ...	"	Gilt spire of the highest temple in Nandigáma: táluk Nandigáma. 1861-62.	16 46 28'0	80 19 43'0	...	710
Narasimhakönda h.s. ...	Nellore	On the N.W. summit of the highest peak of a long low range. The directions and distances of the adjacent places are:—Narasimhakönda temple S.E. by S., yards 270; and Narasimhakönda village E., mile †: táluk Nellore. When visited in 1886-87, the old mark was found intact on the top of a platform 8 feet square varying in height from 6 to 2 feet owing to the slope of the ridge. 1864-65.	14 27 29'80	79 55 12'53	502	412

* For another triangle fixing this point, see the Synoptical Volume of the Madras Longitudinal Series.

† This station appertains to the Madras Longitudinal Series.

‡ For two other triangles fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Narasimhakōnda Hill Temple ...	Nellore	Centre of the temple on a hill at the E. foot of which lies the village of Narasimhapuram, about 4½ miles S.W. of Damaramadugu on the high road from Nellore to Cuddapah: táluk Nellore. ~ 1863-64.	14 27 23'2	79 55 17'7	... feet	410 411
Narasimnaidpalli Platform <i>Nursimnaidpolliam</i> ...	Cuddapah	On a small isolated hill about a mile N.E. by N. of the junction of the main roads from Váyalpád and Gundlúr, and having the village of Patagada at its E. foot: táluk Váyalpád. The point is denoted by a mark in the centre of a platform. 1812.	13 40 28'7	78 51 37'4	...	575
Náráyanapuram s. ...	Kistna	On high ground 100 yards W. of the water's edge, about 2 miles S.W. of a large white tomb in Chinna Pándráka village, ½ of a mile S.E. of Náráyanapuram village, and the same distance W. of the salt chaukidárs' huts: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. A mound of earth 12 feet in diameter and 5 feet high has been raised over the station. 1885-86.	16 19 54'16	81 18 28'60	$\frac{12}{1'5}$	940
Náráyanavaram h.s. <i>Narnawaram</i> ...	North Arcot	On a hill, about 2½ miles N.E. of the village so called on the road from Patúr to Tiruvallúr and on both banks of the Náráyanavaram river, and 2½ miles E.S.E. of Patúr Station of the Madras Railway, N.W. Line: zamíndári Kárvétnagar. 1812.	13 27 9'74	79 39 59'65	...	*
Náráyanpur Hill Building <i>Narainpoor</i> ...	Nizam's Territory	Centre of square building about ¼ a mile E.S.E. of the large place so called on the road from Nalgōnda to Hyderabad. 1821.	17 9 35	78 55 45	...	118
Narsanagarpalle Pagoda <i>Narsanagarpilly P.</i> ...	Cuddapah	On the right bank of the Báhuda stream, about ¼ a mile W. of Timmasamudram village, and 1 mile S.S.W. of Sundupalle: táluk Ráyachoti. 1812.	13 57 56'4	78 57 8'3	...	545
Narsápur Pagoda ... <i>Nursapoor P.</i>	"	In the village so called on a road to the large village of Porumámilla which is on the high road from Badvel to the towns of Cumbum and Giddalúr: táluk Badvel. 1812.	15 3 2'1	78 58 32'0	...	388
Narsaraōpet House (helio.) ...	Kistna	On the top of the water-tower at the N.W. corner of Rája's house, and on the W. side of the masonry tank: táluk Narsaraōpet. The point is denoted by a circle and dot on the top of the cover over the hatchway. 1863-64.	16 14 17'72	80 5 38'63	280	244
Narsaraōpet Palace <i>Narsarowpett</i> ...	"	Gateway of the palace in the town of Narsaraōpet: táluk Narsaraōpet. 1812.	16 14 13'6	80 5 47'7	...	255
Nathelmalai h.s. ... <i>Nathelmalli</i>	Cuddapah	On a hill, about ¼ a mile N. of the Pēnner river, 5½ miles E. by S. of the town of Siddhavattam, and 4½ miles N. by E. of the large village of Vōntimitta: táluk Siddhavattam. 1812.	14 27 10'00	79 5 18'75	...	457 458

* For triangle fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Návalipur h.s. ... <i>Novellipooram H.</i>	Nizam's Territory	On a hill, about $\frac{1}{2}$ a mile N.E. of the village so called on the road to Devarakōnda, and 15 miles E. by N. of this town. 1821.	16 43 56.46	79 11 58.75	... feet	125 126
Náwilmēta, LIII ...	Godávári	<i>Vide page 13—E.</i>	17 3 11.84	81 54 34.49	$\frac{386}{4.0}$	67, 69
Nēkkunram ... <i>Neccoanah</i>	Chingleput	About $\frac{1}{2}$ of a mile E. by S. of the village of this name, and 2 $\frac{1}{2}$ miles N.E. by N. of Solavaram on the high road from Nellore to Madras: táluk Pōnneri. 1802-3.	13 15 54	80 14 0	...	*
Nēlkurti h.s. ... <i>Nelkoortee S.</i>	Cuddapah	On the verge of a remarkable precipice of a flat-topped hill locally known as Pallakōnda, about 2 miles N. of Gōllapalle village, and 8 $\frac{1}{2}$ miles W. of Guvalchēru Police station and village on the high road from Ráyachoti to Cuddapah: táluk Ráyachoti. The station is denoted by a large platform with a pyramid of stones. 1812.	14 17 45.74	78 40 22.95	2969	†
Nēllibanda Hill Pagoda <i>Nellibundah</i>	Nizam's Territory	Highest and square pagoda on a low hill, about $\frac{1}{2}$ a mile S.E. by E. of the village so called, and 13 $\frac{1}{2}$ miles N.E. of Nalgōnda town. 1819.	17 11 10.1	79 27 18.1	...	‡
Nēllipúdi Pagoda ... <i>Nellibody</i>	Nellore	About 1 $\frac{1}{2}$ miles S.E. of Kota, and 1 $\frac{1}{2}$ miles N. of Vēnkatarēddipálēm on the main road from Gúdúr to Dugarázipatnam: táluk Gúdúr. 1812.	14 1 53.4	80 6 45.8	...	625
Nellore Church ...	"	Centre of the tower of the Protestant Church in the Civil station of Nellore: táluk Nellore. 1863-64.	14 26 35.5	80 1 26.4	...	426 427
Nellore Temple ...	"	Centre of the new large gopuram of a high temple in the village of Ranganayakulapet between Nellore town and the Pēnner river: táluk Nellore. 1863-64.	14 27 52.7	80 1 40.7	...	424 425
Nēman s. ...	Godávári	On the top of one of the huts in the centre of the village so called, about 1 $\frac{1}{2}$ miles N.E. of Vakalpúdi Light-house: division Cocanada. 1861-62.	17 1 43.40	82 20 36.41	...	818
Netivaripálēm, XX	Nellore	<i>Vide page 8—E.</i>	15 22 41.44	79 51 5.67	$\frac{188}{1.0}$	25
Niálamari, II ... <i>Nealamurree S.</i>	Nizam's Territory	<i>Vide page 6—E.</i> Note:—By subsequent calculations it has been found that this station is identical with "Nealamurree S." of Colonel Lambton's triangulation of 1819. When visited by the Levelling Party in 1889-90, the station was found protected by a pillar 2 feet high which was built in 1888-89 over the upper mark for Latitude Observations.	17 1 33.63	79 45 56.96	$\frac{\$ 1144.06}{2.0}$	1
Nidumukala Hill ... <i>Neddijerkoonder H.</i>	Kistna	S. extremity of a small hill running N. and S., overlooking the village so called lying at its E. foot, and about 3 $\frac{1}{2}$ miles N.W. of Tadekōnda village: táluk Guntúr. 1812.	16 26 27	80 26 48	...	175
Nishánbodu, XXIX	Nellore	<i>Vide page 9—E.</i>	14 41 47.90	79 58 24.01	$\frac{228}{\parallel}$	36

* For triangles fixing this point, see the Synoptical Volume of the Madras Longitudinal Series.

† For triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

‡ For triangles fixing this point, see the Synoptical Volume of the Bider Longitudinal Series. § To top of circular pillar. || Not forthcoming.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Nishánkōnda, XXII ...	Nellore	<i>Vide</i> page 8—E. ...	15 30 59·19	79 37 12·06	<i>feet</i> $\frac{2181}{1·0}$	81
Nizámpatnam Beacon s. ...	Kistna	On a dune between the sea and the island of Nizámpatnam: the dune is 10 feet high and 90 feet from the high-water mark; the beacon is $1\frac{1}{4}$ miles S. of Nizámpatnam: táluk Repalle. It consists of an 8-inch square post of solid teak standing 23 feet 3 inches above the surface of the dune. The post has two pairs of cross-arms attached to it. The smaller pair is let in 6 inches and the larger 4 feet from the top. It is shod with a block of teak and this together with the lower portion of the post is embedded in a block of masonry 6 feet square and 10 feet deep. The letters G. T. S. are engraved on the post. The arms and the post above the dune are painted white. 1887-88.	15 52 49·85	80 42 22·60	...	1066
Nizámpatnam s. ...	"	About $\frac{1}{4}$ a mile N.W. of the large village of this name, and 2 miles N. of the sea coast: táluk Repalle. The station is denoted by a small iron nail in the head of a long wooden pin driven into the ground. 1865-86.	15 54 43·06	80 42 26·36	...	1027
Noth Kalwa s. ...	Godávári	On a slightly elevated strip of cultivated land between two long strips of swampy ground. About 400 yards N. by E. of the small hamlet of Kandikuppa occupied chiefly by fishermen, 100 yards in the same direction of a small quadrangular area (70 yards square) of cultivation enclosed by closely planted palmyra trees, $1\frac{1}{4}$ miles W. by S. of the small place of Pánde, and 3 miles S.E. of the large village of Katrenikona: táluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and $2\frac{1}{2}$ feet square and $1\frac{1}{2}$ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 33 2·58	82 13 54·76	$\frac{9}{1·5}$	889
Núzvid s. ...	Kistna	On the top of the eastern and central bastion of the old fort of Núzvid: zamíndári Núzvid, thána Ganavaram. The station is denoted by a mark-stone embedded in the bastion. 1862-63.	16 47 14·87	80 53 32·05	...	688 689
Ódived Pagoda <i>Wodevade P.</i> ...	Cuddapah	About $\frac{1}{4}$ of a mile N. of the high road from Ráyachoti to Pullampet, and $1\frac{1}{4}$ miles in the same direction of Sibyala village on the road from Ráyachoti to Sundupalle Police station and village: táluk Ráyachoti. 1812.	14 4 5·5	78 50 54·0	...	529
Ongole, XVIII ...	Nellore	<i>Vide</i> page 8—E. ... Note.—When visited by the Levelling Party in 1887-88, the station was found in good order.	15 29 56·85	80 4 53·90	$\frac{249·74}{2·0}$	21
Ongole Hill Mark ... <i>Ongole Hill</i>	"	Close to the principal station of this name: táluk Ongole. 1812.	15 29 45·94	80 4 48·82	...	386
Ongole Hill Pagoda <i>Ongole H.P.</i> ...	"	On a small hill on the S.W. side of the town of Ongole: táluk Ongole. 1812.	15 30 2·7	80 5 14·4	...	381
Padari s. <i>Paudree S.</i> ...	North Arcot	On an open spot near the village so called, about $5\frac{1}{2}$ miles E. of Nagari on the main road to Kárvétnagar: zamíndári Kárvétnagar. 1802-3.	13 19 35·24	79 43 5·11	313	†

* To mark-stone on top of circular pillar.

† For triangle fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Paguráyi, XLVII ...	Vizagapatam	<i>Vide</i> page 12—E. ...	17 46 40·44	82 17 37·02	<i>feet</i> 3757 2·0	62
Pájarla-péddatēppa h.s.	Nellore	On a low flat-topped hill, about 60 feet high, covered with jungle, about 2½ miles W.N.W. of Tēttu on the high road to Nellore, and 1½ miles E.S.E. of Pájarlapálēm village: táluk Kandukúr. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	15 3 57·39	80 0 39·91	128	761
Palakavíd Pagoda ... <i>Palkivade P.</i>	Kurnool	Of the village so called, about 8 miles W. by N. of Pēnchikalapád on the high road from Cuddapah to Cumbum, and 3½ miles E. by S. of Bachērla: táluk Cumbum. 1812.	15 27 2·0	79 3 34·4	...	371
Pálamanda h.s. ... <i>Paulamunda</i>	Cuddapah	On a hill, about 2 miles W. of Rayágallu village, and 4½ miles S.W. of the postal village of Píler on the road from Váyalpád to Chinna Gōttikallu: táluk Váyalpád. The station is denoted by a mark in the centre of a platform. 1812.	13 37 21·44	78 55 18·47	...	*
Pálapáru, XII ...	Kistna	<i>Vide</i> page 7—E. ... Note.—When visited by the Levelling Party in 1887-88, the station was found in good order.	16 3 14·55	80 19 2·98	† 48·06 2·0	17
Pálchērla, XXXV ...	Nellore	<i>Vide</i> page 10—E. ...	14 10 16·32	79 30 40·68	2149 3·0	42
Pallakōnda, XXXII	"	<i>Vide</i> page 10—E. ...	14 24 16·25	79 30 28·35	1171 2·0	38, 40
Pallakōnda Hill Platform <i>Pollcondah</i>	Cuddapah	About a mile S. by W. of the place where the Railway line crosses the high road from Cuddapah to Siddhavattam, and 3 miles W. by N. of Péddapalle village: táluk Siddhavattam. 1812.	14 24 59·2	78 56 8·8	...	470 471
Pallepálēm s. ...	Nellore	On a dune 135 feet from the high-water mark, and 200 feet E. of the Chipalēru (Vupputēru) river, about 2 miles S. by E. of Vattúrpallepálēm, 1½ miles N.E. by E. of Juvaldinne, ¼ of a mile N. of Pallepálēm (fishing hamlet), and the same distance N. by E. of a large clump of casuarina trees: táluk Kávali. The station is denoted by a thick wooden stake 6 feet long driven 4 feet into the ground, and is covered over by a mound of sand, 1 foot high and 4 feet in diameter. 1886-87.	14 49 23·75	80 7 53·54	‡ 9	747
Pálvoi Mosque ... <i>Paulvoye</i>	Nizam's Territory	Centre. About ¼ a mile S.S.E. of the village so called, and 8½ miles E.N.E. of Devarakōnda town. 1821.	16 45 16·5	79 4 39·5	...	134
Pámparám Temple ...	Godávári	About 1½ miles W. of Vēmavaram village: zamíndári Pithápúram. 1894-85.	17 14 51·9	82 33 0·8	...	859
Pantrangam s. ... <i>Pondrangrum</i>	Nellore	Near the village so called: táluk Gídúr. 1812. ...	13 48 50·32	80 13 36·64	...	620 621

* For triangles fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

† To mark-stone on top of circular pillar. ‡ To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Parampúdi, LX	Godávári	<i>Vide</i> page 14—E.	17 12 38·28	81 14 37·24	<i>feet</i> 684 2·5	74
Parlakurru h.s.	"	On a low range running E. and S.W., about 1½ miles N.E. of Singarapálém, 1 mile S. of Gorida, and 3¼ miles N.W. of Mallepalli village on the high road from Rajahmundry to Tuni: táluk Pēddápúram. The station is denoted by a mark-stone embedded in the ground. 1861-62.	17 11 4·22	81 59 25·74	...	828
Pasaldevi s.	"	On the S. bank of a large creek about 1½ miles up stream E. of Mōgaltúr Canal Lock, and 100 yards from the water's edge. It is about a mile W.N.W. of Linga-nabōynachēra, the same distance S. of Mōgaltúr, 2 miles E. of Mutyalpalli, and 1 mile N.W. of Pasaldevi: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 23 40·07	81 39 10·37	7 1·5	924
Pasamudra Beacon s.	Nellore	On a dune about 15 feet above the general ground level and 225 yards from the high-water mark. It is on the right bank of the Páler river at a distance of 181 yards from it, and about ¼ of a mile from its mouth. A lock of the Buckingham Canal is 492 yards to W. The directions and distances of the following villages are:—Vēlagapúdi W.N.W., miles 2½; Tállapálém N.W., mile 1; and Mannúr N. by E., miles 3¼: táluk Ongole. The beacon consists of a solid 7-inch square post of teak, standing 19 feet above the surface of the ground. The post has two pairs of cross-arms attached to it, the smaller pair is let in 6 inches and the larger 4 feet from the top. The post is shod with a block of teak and embedded in a block of masonry 6 feet square and 7 feet deep. The letters G. T. S. are engraved on the post. The arms and 5 feet of the post from the top are painted white, the remainder above the dune red. 1887-88.	15 18 30·73	80 8 13·95	* 22	888 889
Pátapád Beacon s.	"	On a swell of ground called Anuwantarudibba, about 30 feet above the sea level, at the S. E. extremity of an island formed by the Mudigonda Yeru on the S., the Buckingham Canal on the W., and the estuary on the N. and E. The place is used as the burning ground of the hamlet of Pátapád which is 300 yards to N.W. The directions and distances of the circumjacent villages are:—Biramguntá W.S.W., miles 2; Motumála S. by W., miles 1½; Devarampád N. by W., miles 3; and Padarti S. by W., miles 2½: táluk Ongole. The beacon consists of a solid 7-inch square post of teak, standing 19 feet above the surface of the ground. The post has two pairs of cross-arms attached to it, the smaller pair is let in 6 inches and the larger 4 feet from the top. The post is shod with a block of teak and embedded in a block of masonry 6 feet square and 7 feet deep. The letters G. T. S. are engraved on the post. The arms and 6 feet of the post from the top are painted white, the remainder above the ground red. 1887-88.	15 30 24·01	80 14 29·64	* 31	276 277
Pátapálém s.	"	On a dune about 152 yards from the high-water mark, and 200 yards E. of the Buckingham Canal. It is 1 furlong S. of Pátapálém hamlet, 2½ miles N. of Rámapatnam, and 979 yards N. by E. of the further one of the two canal godowns situated about 1½ miles N. of Rámapatnam: táluk Kandukúr. The station consists of a thick wooden stake 6 feet long driven 4 feet into the ground, and is covered over by a mound of sand 1 foot high and 4 feet in diameter. 1886-87.	15 4 33·24	80 5 18·84	* 14	768 764

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Pátópád s. ...	Godávári	On the N. bank of the Vupputēru river, about $\frac{1}{4}$ of a mile S.E. of the fishing village of Pátópád, 1 mile W. of Kálipatnam village at the terminus of the high road passing through Mōgaltūr to Narsápur town: táluk Narsápur. The station is denoted by a 4-foot wooden peg driven into the soft swampy earth, 4 feet from the water's edge. 1885-86.	16 22 41' 17"	81 32 4' 67"	feet * 3	929
Pattávála s. ...	"	On a sand height in the midst of a vast Jhīl, about 220 yards from the high-water mark of the Coringa Bay, $\frac{1}{4}$ of a mile S.E. of Mottalapálēm village, $1\frac{1}{4}$ miles N.E. of Pattávála, and $\frac{1}{4}$ a mile N. of Rámanapálēm on the left bank of the Coringa river: division Coringa. The station is denoted by a masonry pillar 40 inches in diameter and 4 feet high including foundation. When visited in 1884-85, the usual rectangular protecting pillar was built over it. 1861-62.	16 50 42' 66"	82 16 56' 94"	* 9	874
Pattibanda Pagoda ... <i>Pautybundah P.</i>	Kistna	On a rock in the village so called, about 2 miles E. of Kurapád village: táluk Sattēnapalle. 1812.	16 27 38' 2"	80 20 22' 3"	...	236
Pēddabod Hill Platform <i>Peddabode</i>	Cuddapah	About $3\frac{1}{4}$ miles E. of Vanipēnta village, and 5 miles N. by E. of the large village and police station of Nandyá-lampet close to the high road from Prōddutūr to Badvel: táluk Prōddutūr. 1812.	14 47 17' 8"	78 52 23' 3"	...	†
Pēddachēru Hill Mark <i>Peddacherro</i>	Kurnool	On a flat-topped range of the Nallamalai Hills, about 5 miles E.N.E. of Pēddachēru village on the road to the large village of Vēnkatatadripálēm: táluk Nandikotkūr. 1821.	15 59 27' 03"	78 55 59' 01"	...	246
Pēddadrug h.s. ... <i>Paunt Dr. S.</i>	North Arcot	Also called Pántdrug. On a rock on the summit of a range of hills, about 11 miles W. of Púdi Station of the Madras Railway, N.W. Line: táluk Chandragiri. The station is denoted by a mark in the centre of a platform surmounted by a pile of stones. 1812.	13 33 1' 07"	79 23 35' 79"	...	‡
Pēddaganjám Beacon s. ...	Kistna	On a dune about 15 feet above the general ground level, situated on the right bank of the Rumpēru stream, $\frac{1}{4}$ a mile S.W. of its mouth, and $\frac{1}{4}$ of a mile W. of the coast. To the S. and close to the station is a tope of casuarina trees. It is about 2 miles N.E. of Pēddaganjám, and 3 miles S.E. of Chinnaganjám: táluk Bapatla. The beacon consists of a solid 7-inch square post of teak, standing 19 feet above the surface of the ground. The post has two pairs of cross-arms attached to it, the smaller pair is let in 6 inches and the larger 4 feet from the top. The post is shod with a block of teak and embedded in a block of masonry 6 feet square and 7 feet deep. The letters G. T. S. are engraved on the post. The arms and 6 feet of the post from the top are painted white, the remainder above the dune red. 1887-88.	15 39 13' 08"	80 18 3' 01"	* 23	274 275
Pēdda Gōllapálēm Beacon s. ...	"	On the high broad belt of sand mounds that protects the village of Pēdda Gōllapálēm from the sea. The beach is distant 50 to 60 yards, and Gōllapálēm about $\frac{1}{4}$ of a mile to N.W.: táluk Bandar. The beacon is 36 feet 8 inches above the high-water mark, and consists of a 7-inch square post of teak rising 26 feet 8 inches above the ground level. The post has two pairs of cross-arms attached to it, the smaller pair is let in 6 inches and the larger 5 feet from the top. The post is shod with a block of teak and this together with the lower portion of the post is built into a masonry pillar. The letters G. T. S. have been burnt into the post. The arms and 5 feet of the post from top have been painted white, the rest red. 1885-86.	16 21 5' 72"	81 28 50' 53"	* 16	992

* To ground level. † For triangle fixing this point, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.
‡ For triangle fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Pëddakaltippa, XVII	Nellore	<i>Vide page 8—E.</i>	15 49 42' 39	79 45 50' 95	<i>feet</i> 479 1' 0	28
Pëddakona s.	Kistna	About $\frac{1}{4}$ a mile from the site formerly occupied by Pëddakona village, $6\frac{1}{4}$ miles S.S.W. of Masulipatam Fort, 3 miles E.N.E. of Vädapälaiyam, and $2\frac{1}{4}$ miles S.W. by W. of Hamsaldivi: taluk Bandar. The station consists of a pillar of burnt bricks about 9 feet above the ground level, with two or more marks, the lowest being in the foundation. 1865-66.	16 3 42' 59	81 9 15' 26	...	1017
Pëdda Lanka s.	Godávári	On a causeway 7 feet above the ground level. The causeway is the bridle road leading from the post office in Murumalli village to the French Settlement of Yanam, and is on a piece of ground of some extent surrounded by creeks. Opposite and on the canal bank is a small village called Kauchanapalli. The station is about $\frac{1}{4}$ of a mile N. of the police station and village of Nandavpalli, 80 yards N. of the left bank of a broad creek, $2\frac{1}{4}$ miles S. by E. of Kësanakurru, 2 miles S.W. of Tillakuppam, and close N. of an island of some extent overgrown with babúl trees: taluk Amalápuram. The station consists of a masonry pillar 3 feet square and 2 feet below, and $2\frac{1}{4}$ feet square and 2 feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1835-86.	16 36 26' 36	82 13 9' 43	$\frac{15}{2}$	886
Pëddapalakalúr h.s. <i>Pullakulloor S.</i>	Kistna	On a small isolated hill having the village so called at its N. foot, about 2 miles N.N.W. of Nallapád village on the road from Sattënapalle to Guntúr, and $5\frac{1}{4}$ miles N.W. of Guntúr: taluk Guntúr. The station is denoted by a mark-stone in the centre of a platform. 1812.	16 19 34' 39	80 25 11' 05	710	177 178
Pëddapalli s.	"	About $\frac{1}{4}$ of a mile N. of the village so called, and $2\frac{1}{4}$ miles W.N.W. of Amudalapalli on the high road from Nizámpatnam to Repalle: taluk Repalle. The station is denoted by a small iron nail in the head of a long wooden pin driven into the sand. 1865-66.	15 57 26' 56	80 42 10' 56	...	1026
Pëddapatnam Beacon s.	"	On a high firmly-set ridge running at right angles with the coast, 150 yards from the sea. The soil is hard, and soft sandstone was found 2 feet below the surface. The cart-road to Göllapálém runs a few yards to W. The sea is fast encroaching but will not reach the beacon for some years at least: taluk Bandar. The beacon is 20 feet high, with 5 mark-stones, one at the foundation, the second at the ground level, the third and fourth 4 and 10 feet respectively above the second, and the fifth on the top. A large brick with G.T.S. is fixed in the N. face of the beacon and another to seaward 2 feet and 10 feet respectively from the ground. 1886	16 18 10' 25	81 20 49' 27	* 10	993 994
Pëddapatnam s.	"	On firm ground near rice fields, about $1\frac{1}{4}$ miles N.N.E. of a temple, and $\frac{1}{4}$ of a mile E. of Malpilli village. The sea is distant $1\frac{1}{4}$ miles: taluk Bandar. The station is denoted by a 6-foot wooden peg driven exactly over the one at the ground level in the centre of a protecting mound of earth 18 feet in diameter and 6 feet high. 1885-86.	16 18 4' 51	81 19 35' 47	* 6	989

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Pëddapatnam Temple ...	Kistna	Near the sea coast: táluk Bandar. 1885-86. ...	0 1 " 16 16 58·3	0 1 " 81 18 57·8	feet...	...
Pellúr Fort ... <i>Pelloor</i>	Nellore	N.W. angle of the northern and highest battery of the fort immediately E. of the village so called on the main road from Nellore to Ongole, about 3 miles from the latter place: táluk Ongole. 1812.	15 27 19·3	80 5 30·2	...	332
Pëncalgölkönda h.s. <i>Punchalingol H.P.</i>	"	On the platform of the pagoda on a hill, about $\frac{1}{2}$ of a mile E.N.E. of Vëngalapuram, and 2 miles E.S.E. of Pëdda Álavalapád on the road from Kanigiri to Kandukúr: táluk Kanigiri. 1812.	15 19 3·32	79 41 48·60	...	350 351
Pëncchalkönda Hill Mark ...	"	On the Eastern Gháts, about 9 $\frac{1}{2}$ miles N.W. of the town of Rápúr, 5 $\frac{1}{2}$ miles S.W. by S. of Gonupalli village, and 6 miles N. of the Rápúr Pass: táluk Rápúr. 1864-65.	14 16 37·97	79 27 51·76	3628	428 429
Pendiyála House ...	Kistna	Centre of the roof of Rain Sahib and Muhammad Sahib's double-storied house on the left bank of the Muniyer river, about 2 miles N. by E. of Vemulapalli, and 2 $\frac{1}{2}$ miles S. by W. of Gandepalli: táluk Nandigáma. 1861-62.	16 41 51·2	80 21 24·8	...	713
Pënnér Beacon ...	Nellore	On the S. side of a small island at the mouth of the Pënnér river, about $\frac{1}{2}$ a mile E. of the Buckingham Canal. It is on a slightly raised mound of sand, about 38 feet above the high-water mark, 700 yards E. of Pallepálëm (fishermen's hamlet), 2 miles S.E. by E. of Chëmbedipálëm, and 2 $\frac{1}{2}$ miles E.N.E. of Úttukúr: táluk Nellore. The beacon consists of a post of teak, averaging 36 inches in girth, and standing above the surface of the ground to a height of 30 feet, and driven 12 feet into the ground. It has two pairs of cross-arms inserted into it, the smaller pair is let in 6 inches and the larger about 5 feet below the top of the post. The post is embedded in a block of masonry 5 feet deep, 5 feet square at foundation, and 4 feet square at the surface of the ground. A sloping super-structure of masonry braces the post from the surface of the ground to a height of 4 feet. In the masonry and about 8 inches above the concrete foundation, a large block of teak, 2 feet 10 inches long and 18 inches both in depth and width, is let in, having a squarely cut receptacle 7" x 7" x 7" which received one end of the post. The letters G.T.S. ↑ 1887 were cut into the post. 1886-87.	14 34 58·2	80 14 0·9	* 19	419
Pëntakota Custom House ...	Visagapatam	N. gable end of the Custom house at this sea-port town. 1884-85.	17 17 42·7	82 39 16·2	...	848 849
Pëntakota Flag-staff ...	"	Close S.E. of the Custom house at this sea-port town. 1884-85.	17 17 40·7	82 39 18·6	...	850 851
Pëntakota s. ...	"	On a sand mound on the sea coast, about 324 feet from the high-water mark, $\frac{1}{4}$ of a mile E. of the village of Gunpúdi and 2 miles N. of Pëntakota. The station consists of a masonry pillar 40 inches in diameter and 1 foot high; the pillar contains a mark-stone at the foundation and is protected by the usual rectangular pillar. 1884-85.	17 18 55·10	82 41 41·85	...	832 833

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Pēntakota Temple No. 1 ...	Visagapatam	About $\frac{1}{4}$ a mile N. of the Custom house at this sea-port town. 1860-61.	17 18 1'0	82 39 8'1	... <i>feet</i>	845
Pēntakota Temple No. 2 ...	"	Close N. of the Custom house at this sea-port town. 1884-85.	17 17 49'9	82 39 15'1	...	846 847
Pēnugudūr s. ...	Godāvāri	On a tank bund near an old pagoda and close W. of the village so called, about $\frac{1}{4}$ of a mile S. of the road from Karapa village to Cocanada town, 2 miles E. of the former, and 3 miles S.W. of the latter: division Cocanada. 1861-62.	16 54 18'65	82 14 22'05	...	871
Peranamitta h.s. ... <i>Pairnametlah H.</i>	Nellore	On an isolated hill immediately S. of the main road from Cumbum to Ongole, about $3\frac{1}{4}$ miles N.W. by W. of the latter, and 4 miles E. by S. of Santamutalapād village on the above named road. The village of Peranamitta lies immediately to N. of the hill and the main road: tāluk Ongole. 1812.	15 31 38'83	80 2 43'54	...	325 326
Peravali s. ...	Kistna	About $\frac{1}{4}$ of a mile S.W. of the village so called, 2 miles W. of Ohāvali, and $8\frac{1}{4}$ miles E.N.E. of Amartalūr village: tāluk Repalle. The station is denoted by a kacha pillar $4\frac{1}{4}$ feet high. 1865-66.	16 7 38'87	80 44 48'20	...	1008
Pēriyapālēm Hill Pagoda <i>Payeroypolliam P.</i>	Nellore	On a hill close to the village so called, about $2\frac{1}{4}$ miles E.S.E. of Tallūr village, and 2 miles N.W. of Denuvan-kōnda: division Darsi. 1812.	15 43 38'9	79 57 38'1	...	272
Pērumāllapuram s. ...	Godāvāri	On the sea coast, about a mile S.E. of the village so called, $\frac{1}{4}$ of a mile E. of Aravaladarāpād, and $4\frac{1}{4}$ miles S.W. of Krishnapuram: division Pithāpuram. The station is destroyed. It was denoted by a mark-stone embedded in a pillar. 1860-61.	17 10 21'18	82 29 10'77	...	812
Perūr Fort <i>Pairoor</i>	Nizam's Territory	High square bastion at the S.W. angle of the fort of the village so called on the road to Devarakōnda town: 1821.	16 45 37'0	79 23 54'5	...	180
Pesar Lanka s. ...	Kistna	On the island so called in the Kistna river, about 1 mile S. of the village of this name, $1\frac{1}{4}$ miles E. of Goripūdi village, 2 miles S.E. of Pēddapulivāru, and 4 miles N. by E. of Repalle: tāluk Repalle. The station consists of a pillar of sun-dried bricks, 12 feet high, having a mark engraved on a flag-stone 3 feet thick, standing on the top of the pillar. When visited in 1865-86, the pillar was found subsided and the stone with the mark embedded in the pillar. A protecting pillar of masonry $1\frac{1}{4}$ feet high was built over the station. 1865-66.	16 4 43'59	80 53 52'35	...	1007
Pesiduvāripalli h.s. ...	Cuddapah	On a hill, about $8\frac{1}{4}$ miles S.W. by W. of Cuddapah town, and $2\frac{1}{4}$ miles in the same direction of Chintakōmmadinne: tāluk Cuddapah. 1871-72.	14 24 50'09	78 45 5'82	...	*
Pichērla, XXIII ...	Nellore	<i>Vide page 9—E.</i>	15 11 58'80	79 33 33'66	$\frac{1279}{1'0}$	32

* For triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Piler s. <i>Peclair</i>	Cuddapah	On the N.E. angle of the fort on the main road to Váyalpád, about $\frac{1}{4}$ a mile W. of the junction of the above road with that from Chittoor to Sandravari-palli: táluk Váyalpád. 1812.	0 1 " 13 39 7.12	0 1 " 78 58 49.27	feet ...	576 577
Pillimedu, XL	North Arcot	<i>Vide page 11—E.</i>	13 51 20.05	79 45 22.64	$\frac{492}{1.5}$	45
Pittalavaripálém s.	Kistna	About a mile N. of Khajépálém, and $1\frac{1}{2}$ miles S. by W. of the large village of Tsandavol on the high road from Bápatla to Vállatúr on the Kistna: táluk Repalle. The station is denoted by a mark-stone firmly embedded in a mud pillar 8 feet high. 1865-66.	15 58 48.32	80 38 35.87	...	1029
Pöchéncharla Hill Pagoda <i>Pochenchurla</i>	Nizam's Territory	White pagoda like a monument about $2\frac{1}{2}$ miles E. of the large village so called. 1819.	16 54 3.1	79 56 47.1	...	142 143
Pödili Pillar	Nellore	In the court of the big white temple in or near the large village of Pödili on the main road from Kanigiri to Ongole: division Pödili. 1863-64.	15 36 25.7	79 39 38.3	...	280
Pödilikönda Hill Peak No. 1 <i>Pondella North Peak</i>	"	W. stone of the N.W. peak of a hill, about $6\frac{1}{2}$ miles S.S.W. of Pödili, and $3\frac{1}{2}$ miles E. of Pédá Arikatla on the main road from Kanigiri to Ongole: division Pödili. 1812.	15 31 8	79 37 9	...	344
Pödilikönda Hill Peak No. 2 <i>Pondella South Peak</i>	"	S. peak (nose) of a hill, about 9 miles S. by W. of Pödili, and $4\frac{1}{2}$ miles S.W. of Maripúdi: division Pödili. 1812.	15 28 24	79 38 7	...	345
Pödilléköndupalli h.s. <i>Pendlikodakoo H.</i>	Kurnool	On a small hill at the N. extremity of the range running nearly N. and S, having the villages of Pödilléköndupalli and Narava at its S.E. and S.W. foot, about $2\frac{1}{2}$ miles S.E. by E. of Giddalúr on the high road from Kurnool to Cumbum <i>viá</i> Daddaváda: táluk Cumbum. 1812.	15 21 32.06	79 0 11.65	...	361 362
Poilekurru s.	Godávári	On the E. side of the high road from Cocanada to Yanam, 130 yards E. of the milestone marked $\frac{1}{3}$, about $\frac{1}{2}$ of a mile W. of Poilekurru and Mallávaram villages, and $2\frac{1}{2}$ miles N.N.E. of the town of Yanam: division Coringa. The station consists of a masonry pillar 40 inches in diameter and 3 feet high, with the usual rectangular protecting pillar built over it. 1884-85.	16 45 44.06	82 16 23.81	2	877
Point Divi Light-house	Kistna	Centre of the highest point of the light-house on a low headland at the mouth of one of the branch outlets of the Kistna river, surrounded by shoal flats for about 6 miles S. and E.; the edge of the shoal sometimes extends 5 or 6 leagues out to sea. A column 43 feet high with a dioptric light marks the danger: táluk Bandar. 1865-66.	15 59 11.8	81 10 8.2	* 122	1046 1047
Point Divi s.	"	On the house adjoining the light-house: táluk Bandar. The station is denoted by a circle and dot engraved on the paka terrace. 1865-66.	15 59 11.97	81 10 7.90	...	1019

* To top of light-house.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Poláram Bungalow	Vizagapatam	On a rocky height and close W. of Poláram secondary station of the Bider Longitudinal Series which is on a single detached rock on the high-water line of the sea and S.E. of Poláram village. 1861-62.	17 23 39	82 51 31	feet...	...
Polúr Pagoda <i>Pooroor P.</i>	Nellore	On the W. bank of a stream, about 1½ miles N.N.W. of Súlurpet village on the main road from Madras to Gúdúr: division Polúr. 1812.	13 42 26.1	80 2 30.0	...	638 639
Pöndugala Pagoda <i>Pondigole P.</i>	Kistna	About ¼ a mile E. of the village so called on the right bank of the Kistna river and on the high road from Hyderabad to Guntúr, and 1½ miles W. of Rámapuram village: táluk Palnád. 1812.	16 40 50.2	79 42 15.2	...	206
Pönukamámidi Mark	Godávári	About 4 miles N.E. of Pragadavaram: táluk Ellore. The point is denoted by a cairn, and was originally fixed by the Topographical Survey. 1861-62.	17 3 5.21	81 6 22.77	...	683
Pöppúdi h.s. <i>Bopody H.P.</i>	Kistna	On a small isolated hill about 2½ miles W.S.W. of the large village of Purushóttapatnam at the junction of the high roads from Ongole and Paruchúr, 1½ miles S.E. of Potavaram, and ¼ of a mile S.W. of Böppúdi: táluk Narsaraópet. 1812.	16 4 21.91	80 10 22.92	...	252
Porumámilla s. <i>Poremaumla Fort</i>	Cuddapah	On the S.W. angle of the fort so called on the road from Badvel to Cumbum, about 2 miles E. of Kátérágandla: táluk Badvel. 1812.	15 0 37.58	79 1 54.36	...	384 385
Pötakamúr Fort <i>Pootkamoor</i>	Nellore	S.W. angle of the fort near the village so called on a tributary of the Gundlakamma river, and about 6 miles E.S.E. of the town of Darsi: division Darsi. 1812.	15 44 26.9	79 48 37.8	...	315
Pötánúr Choultry <i>Potenoor</i>	Nizam's Territory	At the village so called on the road to Devarakönda town. 1821.	16 41 59	79 12 39	...	136
Pötapalli s.	Kistna	On the open strip of land on which runs the cart road from the town of Masulipatam to Pëddapatnam, 80 yards from the hedge of a young mango tope, and about 1½ miles N.E. of the Sepoy Lines at Masulipatam city station: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top. 1885-86.	16 12 34.21	81 12 53.81	$\frac{15}{1.5}$	947
Pöthkönda, LIV	Godávári	<i>Vide page 13 —E.</i>	17 15 42.85	81 46 57.70	$\frac{1515}{2.5}$	66
Pötlaivid Pagoda <i>Putleedoo Pagoda</i>	Kistna	Close to the N.E. end of a large tank, and N.W. of the village so called: táluk Palnád. 1821.	16 23 21.4	79 29 8.7	...	228
Pöttúr Hill Platform <i>Pottoor Hill</i>	Cuddapah	About 2½ miles N.W. of Nandalúr Station of the Madras Railway, N.W. Line: táluk Siddhavattam. 1812.	14 17 40.8	79 7 25.3	...	476

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Pötuméraka Platform ...	Kistna	Close under a thick prickly-pear hedge, 160 feet S.E. of a small hamlet of Chamárs, about $\frac{1}{4}$ of a mile S.S.E. of Pötuméraka village, and 1 mile N.W. of Kaitépalli: táluk Repalle. The point is denoted by a masonry platform and protecting pillar. 1885-86.	0 1 " 15 55 35' 3	0 1 " 80 53 1' 9	feet...	...
Pötuméraka s. ...	"	In rice fields, about $\frac{1}{4}$ of a mile S. of the village so called: táluk Repalle. 1885-86.	15 55 32' 45	80 53 5' 16	...	1051
Puchalapalle s. ...	Nellore	On a high bund about 15 feet above the general ground level, 50 yards W. of a large bend of the Swarnamukhi river, about 250 yards S. by W. of Puchallapalle village, and 500 yards N.W. by W. of Kóttapálém: táluk Gúdúr. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1 $\frac{1}{4}$ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 2 25' 92	80 8 51' 80	$\frac{25}{2}$	618
Pulicat Church ... <i>Pulicate</i>	Chingleput	Táluk Pönneri. 1812.	13 24 59' 9	80 21 24' 4	...	656 657
Pulicat Light-house ...	"	On a spit of land running N. and S., about a mile N.E. of Pulicat village: táluk Pönneri. 1864-65.	13 25 12' 3	80 22 6' 9	...	655
Pulichérukupam Beacon ...	Nellore	On a firmly set mound of sand mixed with alluvium, about 250 yards from the sea coast, and 12 feet above the high-water mark. It is about $\frac{1}{4}$ a mile N. of Pulichérukupam village, 2 $\frac{1}{2}$ miles E.S.E. of Chinnagarapálém, and 1 $\frac{1}{4}$ miles E.S.E. of Nataripálém: táluk Gúdúr. The beacon consists of a 7-inch square post of teak, standing 22 feet 8 inches above the surface of the ground, and having two pairs of cross-arms inserted into it. The smaller pair is let in 6 inches, and the larger 5 feet from the top. The post is embedded in a block of masonry 5 feet deep, 5 feet square at foundation and 4 feet square at the surface of the ground. A sloping superstructure of masonry braces the post from the surface of the ground to a height of 4 feet. In the masonry and about 8 inches above the concrete foundation, a large block of teak 2 feet 10 inches long and 18 inches both in depth and width, is let in, having a squarely cut receptacle 7 x 7 x 7 inches which received one end of the post. The letters G.T.S. have been burnt into the post. The arms and 5 feet of the post from top have been painted white, the rest red. 1886-87.	13 37 11' 7	80 16 57' 7	...	...
Pulichintala h.s. ... <i>Pooychintak H.S.</i>	Kistna	On a range of hills running nearly N. and S., about $\frac{1}{4}$ a mile from the right bank of the Kistna river, and 2 miles N.E. by N. of Pulichintala village on the same bank of the Kistna: táluk Satténapalle. The station is marked by a circle engraved on the rock. 1812.	16 45 0' 31	80 6 14' 97	1115	140 141 160
Puligudda s. ...	"	About 100 feet W. of the village so called, 4 $\frac{1}{2}$ miles E. by N. of Repalle, and 1 $\frac{1}{4}$ miles N.N.W. of Ávanigudda: táluk Bandar. The station is denoted by a mark-stone embedded in a kacha pillar 12 feet high. 1865-66.	16 2 19' 67	80 56 54' 13	...	1010

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Pulikōnda h.s. ... <i>Poolycondah</i>	Cuddapah	On a hill, about 3½ miles W.S.W. of Timmasamudram village, and 4 miles S.S.E. of Dudyala: táluk Ráyachoti. 1812.	13 56 48.11	78 54 38.77	feet ...	518 519
Pulipád Fort ... <i>Poolipaud</i>	Kistna	High redoubt of the fort so called, about 4½ miles W. by N. of Nadikudi village on the road to Tumurukota: táluk Palnád. 1812.	16 36 24.9	79 41 37.8	...	207
Pullampet Hill Platform ... <i>Polumpett Hill</i>	Cuddapah	About 2½ miles E. by S. of the town of Pullampet: táluk Pullampet. 1812.	14 7 13.3	79 17 51.7	...	503
Pulsanikōnda Stone ... <i>Poolsanecondah</i>	"	On a hill, about 3 miles W.N.W. of Váyalpád town: táluk Váyalpád. 1812.	13 38 53	78 38 12	...	571 572
Pundi Pagoda ... <i>Boondy P.</i>	Chingleput	Immediately W. of the village so called, about a mile S.E. of Rangapuram village, and 1½ miles S.W. by S. of Ódapai on the main road from Sripërumbudúr to Satyaved: táluk Tiruvallúr. 1811-14.	13 12 40.3	79 55 8.6	...	660
Purimētta Hill Pagoda ... <i>Poormetlah H.P.</i>	Nellore	On a low hill, about a mile S. of the village so called: division Darai. 1812.	15 52 1.6	79 53 29.8	...	267
Puripád, XXI ...	"	<i>Vide page 8—E.</i>	15 14 19.84	80 1 3.47	$\frac{121}{9.0}$	26
Pushpagiri h.s. ... <i>Poospagherry</i>	Cuddapah	Nearly at the S. extremity of the hill so called, which is about 1½ miles in length, and runs N. and S. It is well-known owing to the temples on the west side. The Pénner river flows along its southern base. The station is about 1½ miles S.E. of Kotúr village on the left bank of the above named river, and 3½ miles N.W. of Chénnúr on the road from Cuddapah to Patúr: táluk Cuddapah. When visited in 1872 the station was found to consist of a platform of stones and earth, 3 feet high and 11 feet square, on the top of Colonel Lambton's station of the same name, which is in the form of a bastion about 12 feet high and 21 feet in diameter. The new mark (Colonel Lambton's could not be found) is on a stone embedded in the surface of the platform. 1812.	14 35 33.04	78 48 30.37	$\frac{756}{15}$	*
Rachúr No. 1 s. ...	Kistna	<i>See description of Rachúr No. 2 s.: táluk Repalle. The station was denoted by a circle and dot engraved on a large stone embedded in the bastion. 1865-66.</i>	16 2 57.79	80 50 16.57	...	1006
Rachúr No. 2 s. ...	"	The station Rachúr No. 1 s. of 1865-66 was within a few feet of this one. The portion of the kacha bastion of the village fort on which the former station was fixed had slipped down and the mark-stone, weighing about 100 lbs, was found lying exposed beyond the fort walls. This station is on the N.E. side of Pallékona village, about 2½ miles N.E. by E. of Dhúhpúdi, and 3½ miles N.W. of Repalle: táluk Repalle. The station is denoted by a 4-foot wooden peg driven into the bastion. 1885-86.	16 2 57.74	80 50 16.67	...	1048

* For triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Rághavapuram h.s. <i>Raugapooram H.S.</i>	Kistna	On a hill on the left bank of the Muniyer river, about $\frac{1}{2}$ of a mile N.N.W. of the village so called, 1 mile S.W. by W. of Pallagiri, and 3 miles S. of Magallu: táluk Nandigáma. The station is denoted by a mark-stone. 1812. It was revisited in 1861-62.	16 46 14' 39"	80 21 21' 74"	580 <i>feet</i>	159 704 705
Raghudevapuram s.	Godávari	On the E. corner of the bastion of a fort about $\frac{1}{4}$ a mile from the left bank of the Godávari river, and $1\frac{1}{4}$ miles S.E. by S. of Chinnakóndapúdi village: táluk Rajahmundry. The station is denoted by a circle and dot engraved on a large stone embedded in the bastion. 1860-61.	17 9 57' 44"	81 44 47' 85"	...	667
Ragulpád s.	"	Close to the hamlet so called, about a mile W.N.W. of Thovashéllike, $2\frac{1}{4}$ miles S. of Yéddavali, and 2 miles N. of Lopúdi: táluk Ellore. The station is denoted by a mark on a kacha pillar 9 feet high. 1862-63.	16 56 35' 71"	81 0 18' 29"	$\frac{269}{9}$	684
Ráipalle Hill Pagoda <i>Raepalla H.</i>	Nizam's Territory	Tower of the pagoda on a hill close N. of the village so called, and $4\frac{1}{4}$ miles N.N.W. of Munagál on the high road from Hyderabad to Masulipatam. 1819.	17 6 56' 4"	79 51 9' 9"	...	107
Rájagudda Hill Platform <i>Ruzzagudda</i>	Cuddapah	On a hill, about $\frac{1}{4}$ a mile W. of the village of Ravutukunta, and $3\frac{1}{4}$ miles N.N.W. of the Police station of Devapatla which is 1 mile E. of the high road from Chittoor to Ráyachoti: táluk Ráyachoti. 1812.	13 55 32' 0"	78 46 7' 6"	...	553 554
Rajahmundry s.	Godávari	On the Kachahri close to the left bank of the Godávari river: táluk Rajahmundry. 1860-61.	17 0 26' 11"	81 48 35' 59"	...	672
Rájalli, XXVIII	Nellore	<i>Vide</i> page 9—E.	14 42 31' 78"	79 39 15' 85"	$\frac{543}{2' 0}$	35
Rajénmalle h.s. <i>Rajenmalli S.</i>	Cuddapah	On the summit of a high hill, well-known from a pagoda on a neighbouring rock S. of the station, about 4 miles W.N.W. of the village and Police station of Chinnamandém, 2 miles N.E. of Kálibanda, and $3\frac{1}{4}$ miles S. of the high road from Kadiri to Ráyachoti: táluk Ráyachoti. The station is marked by a platform surmounted by a pile of stones. 1812.	13 57 58' 17"	78 39 45' 77"	3596	* 512
Rájina Tree	Vizagapatam	In the village of that name, about a mile W.N.W. of the Custom house at Pēntakota sea-port town. 1884-85.	17 18 3"	82 38 16"	...	852 853
Rájipet h.s.	"	On a sand height on the high-water mark, about a mile S.E. of the village of Rájipet. The station was denoted by a picket driven into the ground. Subsequently reported as having been destroyed. 1860-61.	17 21 10' 29"	82 46 0' 28"	...	†
Rámanappa Chattram <i>Ravanapah Chutrum</i>	Nellore	On the sea coast and immediately E. of the hamlet so called, and about $3\frac{1}{4}$ miles N.E. of Bheripet village near the E. margin of the Pulicat Lake: táluk Gúdúr. 1812.	13 42 16"	80 16 12"	...	646

* For another triangle fixing this station, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

† For triangle fixing this station, see the Synoptical Volume of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Rámapatnam Beacon s. ...	Nellore	On a dune 182 feet from the high-water mark, and 168 yards S. of a creek called Yélikéru. It is about 1½ miles N. by E. of Rámapatnam, 1 mile S. of Pátapálém hamlet, and ¼ of a mile S.E. by S. of the nearer one of the two canal godowns about 1½ miles N. of Rámapatnam: táluk Kandukúr. The beacon consists of a 7-inch square post of teak, standing 24 feet above the surface of the dune. It has two pairs of cross-arms attached to it, the smaller pair is let in 6 inches and the larger 4 feet from the top. The post is shod with a block of teak and this together with the lower portion of the post is built into a masonry pillar. The letters G.T.S. are engraved on the post. The arms and 4 feet of the post from the top have been painted white, the rest red. 1886-87.	15 3 51'30"	80 5 25'54"	feet * 19	765
Rámapatnam Bungalow ...	"	S.E. corner of the Buckingham Canal godown about 1½ miles N. of Rámapatnam Toll Office: táluk Kandukúr. 1886-87.	15 4 4'4"	80 5 14'9"	...	766
Rámapatnam Church ...	"	Spire of the Church about ¼ of a mile S.W. by S. of the Toll Office of Rámapatnam: táluk Kandukúr. 1886-87.	15 2 13'7"	80 4 53'9"	† 93	767 768
Rámesvaram No. 1 s. ...	Godávári	On a high sandy waste, about a mile N.E. by N. of Rámesvaram village, 2 miles N.W. of Fraserpet, and 1 mile W. of the Sámalkot Canal, alongside which runs the high road from Cocanada to Sámalkot: division Cocanada. The station consists of a masonry pillar 40 inches in diameter and 1 foot high. When visited in 1884-85 the usual rectangular protecting pillar was built over it. -1861-62.	16 58 46'04"	82 14 31'79"	...	821
Rámesvaram No. 2 s. ...	"	On a sand dune overgrown with thorny vegetation, about 15 feet above the high-water mark, and it is S.W. of the ruined temple of Rámesvaram. It is about 2 miles E. by N. of the easternmost block of hamlet of Kumáragiripatnam village, 1½ miles S. of Samantákurru, 40 yards from the sea, and 50 yards S.E. of the fishing village of the same name. The Buckingham Canal runs close W. of the village: táluk Amalápuram. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground, and is covered over by a layer of soft mud 1 foot thick. 1885-86.	16 27 0'02"	82 5 25'02"	* 22	897
Rámiréddipalli Village ...	Kistna	About 2 miles E.S.E. of Gummadidurru, and 1½ miles N.W. of Tarragudipád: táluk Nandigáma. 1861-62.	16 51 22	80 22 1	...	708
Rámpur Hill Tree ... Rámpoor H.	Nellore	Remarkable tree N. of the pass across the Eastern Gháts, about 2 miles N. of the main road through the Rápúr Pass to Rápúr, and 2½ miles W. by N. of the small village of Vadapálém: táluk Rápúr. 1812.	14 13 7	79 29 37	...	491 492
Rávipád Pagoda ... Royepaúd P.	Kurnool	About 3 miles E. of the town of Cumbum, 1½ miles S.E. by S. of Kandulapuram a little S.E. of the high road from Cumbum to Guntúr: táluk Cumbum. 1812.	15 34 25'1"	79 11 44'3"	...	870

* To ground level.

† To base of spire.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Ráyachoti Pagoda ... <i>Rachootee</i>	Cuddapah	Tower of the highest pagoda in the fort close to the Mandavia stream and to the high road from Chittoor to Ráyachoti: táluk Ráyachoti. 1812.	14 3 35.9	78 47 30.9	... <i>feet</i>	530 531
Ráyavaram Pagoda ... <i>Raiavaram Sungum Pagoda</i>	"	S.W. spire of the pagoda at the confluence of the Báhuda river and the Panchi nadi: táluk Ráyachoti. 1812.	13 58 58.8	79 2 10.2	...	542
Ráyavaram s. ... <i>Raiavaram</i>	"	On the S.W. angle of the fort, about 5 miles E. of the Sundupalle Police station and village on the high road from Ráyachoti to Sundupalle: táluk Ráyachoti. 1812.	13 59 13.04	79 2 9.51	...	540 541
Réddichérta h.s. ... <i>Reddicherla H.</i>	Kurnool	On the N. extremity of a hill, about 1½ miles S. of the village of this name, the same distance N.W. of Allinagaram on the high road from Cuddapah to Cumbum: táluk Cumbum. 1812.	15 12 39.29	79 1 58.05	...	365 366
Rekalkönda Hill Platform ... <i>Reckelcondah</i>	Cuddapah	About 2½ miles E. of Pëddamandém on the road to Váyalpád: táluk Madanapalle. 1812.	13 55 6.2	78 37 5.1	...	*
Rémidichérta Pagoda ... <i>Rametcherlah</i>	Kistna	About 2½ miles S.W. by S. of Gummadampád, and 6½ miles N.N.W. of Böllépalli: táluk Vinukönda. 1821.	16 16 45.4	79 41 36.5	...	240 241
Repalle s. ...	"	On the E. bastion of the fort, about 2 miles E. of Bëtapüdi on the high road from Nizámpatnam to Vëllatúr on the Kistna river: táluk Repalle. The station is denoted by a circle and dot engraved on a pillar of burnt brick, 11 feet high. When visited in 1885-86 the bastion that supports the station was found cut into deep gaps, these were filled up and the bastion strengthened on two sides by a thick mud wall. 1865-66.	16 1 25.80	80 53 6.90	...	1008
Rëttambedu, XLIV	Chingleput	<i>Vide page 11—E.</i> ... Note.—When visited by the Levelling Party in 1887-88, the station pillar was found standing, with a mound of earth enclosing the base.	13 26 5.04	80 12 39.30	† 54.77 28.4	56
Revúr s. ...	Godávári	On a piece of elevated ground, about ¼ a mile S.S.W. of Revúr village, 1½ miles S. by E. of Rámesvaram, 2½ miles W. of Cocanada, and close N.E. of a stream: division Cocanada. The station consists of a masonry pillar 40 inches in diameter and 1 foot high. When visited in 1884-85, a rectangular protecting pillar was built over the station, but no observations were taken. 1861-62.	16 56 51.48	82 13 58.24	...	869 870
Rösanúr h.s. ... <i>Rossanoor H.</i>	Nellore	On a small isolated hill locally called Inparatikönda, about 1½ miles W. of Rösanúr village, and 4½ miles S. of the large village of Náyudupet on the high road from Kálahasti to Gúdúr: division Polúr. 1812.	13 50 5.11	79 55 39.34	...	595
Sadasivapuramkönda h.s. ... <i>Sadashycondah</i>	North Arcot	On a hill, about 5 miles E.N.E. of the village so called near the main road from Nagari Railway station to Cuddapah: zamíndári Kárvëtnagar. 1812.	13 30 53.07	79 40 8.03	...	650

* For triangles fixing this point, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

† To top of tower.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Saidápuram Hill Mark ...	Nellore	On a small hill about a mile W. of the village so called on the main road from Rápúr to Gúdúr: táluk Rápúr. 1864-65.	14 11 11' 56"	79 46 19' 10"	feet ...	430
Sallapalli s. ...	Kistna	On the top terrace of the zamíndár's paka palace. It is on the road to Masulipatam: zamíndári Sallapalli. The station is denoted by a mark cut on the pavement. 1865-66.	16 6 52' 09"	80 58 18' 90"	...	1011 1012
Sámaldevi s. ...	Godávari	A few feet S. of the southern edge of a cocoa-nut garden belonging to Tirwáni Rungápa, a rich fisherman, whose house is 89 yards to N.W. It is at the extreme western limit of the village so called, about 1½ miles S.W. of Mutiyálpalli, and 2½ miles E. of Kálipatnam village at the terminus of the road passing through Mógaltúr to Narsápur: táluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground, and covered over with a circular mound of earth. 1885-86.	16 22 39' 32"	81 35 57' 76"	* 4	927
Sámalkot s. ...	"	On the S.E. angle of the Racket Court wall in the Sámal-kot Cantonment: division Cocanada. The station is denoted by a mark cut on the plaster. 1861-62.	17 3 36' 93"	82 12 29' 09"	...	822
Samalpallo Hill Mark <i>Samulpully H.</i>	Nizam's Territory	About a mile S.W. of the village so called, and 3½ miles E. by N. of Námapalle on the road to Devarakónda town. 1821.	16 53 41' 11"	79 3 30' 32"	...	123 124
Sandála s. ...	Kistna	On an island, about 2½ miles W.N.W. of the large village of Lakshmiapuram, and 1½ miles N.N.W. of the E. hamlet of Sandála: táluk Bandar. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2 feet square and 1½ feet above the surface of the ground, which contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1885-86.	16 24 12' 75"	81 27 20' 84"	$\frac{10}{1'5}$	934
Sandravaripalli Fort <i>Sorakoilpett</i>	Cuddapah	Close S. of the junction of the main roads from Medikurti, Kalakada and Garnimitta, and 2 miles S.W. by W. of Sórakayalpet village: táluk Váyalpád. 1812.	13 43 24' 2"	78 54 9' 9"	...	574
Sangam Temple ...	Nellore	Near the village so called, about a mile S. by W. of the junction of the main roads from Cuddapah, Udayagiri and Nellore: táluk Nellore. 1863-64.	14 34 54' 6"	79 47 15' 6"	...	417 418
Sangamkónda h.s. ...	"	On the highest peak of a compact mass of hills covering an area of about 3 square miles. The village of Sangam lies scattered towards the southern foot of the hills overhanging the Pennér river: táluk Atmakúr. The station is marked by a circle and dot engraved on a solid cube of rock the surface of which is about 6 feet square, the mark is covered over by a slab 10 inches square, cemented to the rock, the latter also bears a circle and dot corresponding in position with the protected one. The station mark is not on the highest part of the peak. The highest part is a projecting rock with a small surface on which a mark, circle and dot, was also engraved, which is 29'8 feet S. of the station mark. 1886-87.	14 36 18' 38"	79 47 24' 35"	8'8"	414

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Sangavaram Turret <i>Sangaram Turret</i>	Nizam's Territory	High circular turret in the village so called on the road to Devarakōnda, and 16½ miles E. of this town. 1821.	0 1 10 8	0 1 79 13 48 9	feet ...	185
Sanipáya h.s. <i>Sonnipoye S.</i>	Cuddapah	On a hill, about a mile N.E. of the village so called, and 1½ miles N. of Kotapet on the road from Ráyachoti to Pullampet. The station is denoted by a spacious well-built platform surmounted by a pyramid of stones. 1812.	14 8 5 76	78 59 52 86	2407	446 447
Sánjib, XLI*	Vizagapatam	<i>Vide page 12—E.</i>	17 31 18 68	82 43 51 48	$\frac{2142}{2 \cdot 0}$	†
Sankaraguptam No. 1 s.	Godávári	On a low sand mound about 3½ feet above the general level of the ground, 1½ miles S.E. of the village of the same name, and 350 yards from the sea coast: táluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground, and is covered over with a layer of mud 1 foot thick. 1885-86.	16 22 54 93	81 54 18 84	‡ 12	910
Sankaraguptam No. 2 s.	"	In the middle of a field surrounded by palm trees and scattered huts of the village of that name: táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top. A mound of earth has been raised over the station. 1885-86.	16 23 25 76	81 53 32 47	$\frac{12}{1 \cdot 5}$	911
Sárangapalle, IV	Kistna	<i>Vide page 6—E.</i>	16 41 18 81	79 48 2 58	$\frac{550}{5 \cdot 0}$	4
Sárangapalle h.s. <i>Sarangapully</i>	"	On a flat-topped hill, about 1½ miles N.W. of the village so called, 2½ miles S. by E. of Bhattupálēm close to the right bank of the Kistna river, and 6 miles N. by E. of Dáhepalle on the high road from Hyderabad to Nellore: táluk Palnád. The station is denoted by a mark-stone in the centre of a platform of loose stones. 1812.	16 40 39 65	79 47 48 96	538	139 161
Sarpávaram Temple	Godávári	About ¾ of a mile E. of the Sámalkot Canal alongside the main road from Cocanada to Sámalkot, and 2½ miles N. by W. of Cocanada: division Cocanada. 1884-85.	17 0 0 8	82 15 39 5	...	865
Sattevaripálēm h.s. <i>Suttawarpolliam S.</i>	Cuddapah	On the southern of two small isolated hills, about 2½ miles N.W. of Bhákarapet at the junction of the main roads from Piler and Yérravaripálēm, and 2 miles S. of the latter: táluk Váyalpád. The station is denoted by a mark-stone in the centre of a platform. 1812.	13 40 52 80	79 10 13 79	2524	§
Satyaved h.s. <i>Sattiwade H.</i>	Chingleput	On one of the eastern spurs of the Satyaved Hills, about 1½ miles W. by S. of the large postal village of Satyaved on the main road from Tiruvallúr to Madras: táluk Tiruvallúr. 1812.	13 25 50 83	79 58 17 50	...	651 652
Satyavol Pagoda <i>Sattiwale P.</i>	Kurnool	About a mile W.N.W. of Yédavali, and 2½ miles S.W. of Gudimitta: táluk Cumbum. 1812.	15 24 7 4	79 1 20 6	...	373

* This station appertains to the Bider Longitudinal Series.

† For triangle fixing this station, see the Synoptical Volume of the Bider Longitudinal Series.

§ For triangle fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

‡ To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Sétakod Peak ... <i>Sudkode Peak</i>	Kurnool	About 2½ miles N.W. by W. of the village so called, and 4½ miles N.E. by N. of Pullálachéru : táluk Márkápúr. 1821.	0 1 "	0 1 "	feet ...	234 235
Sháhkalkönda Hill Tree ... <i>Shauklecondah</i>	Cuddapah	About 2½ miles N. of Nandalúr Station of the Madras Railway, N.W. Line: táluk Pullampet. 1812.	14 18 14	79 9 4	...	475
Shakrámakönda Hill Mark ... <i>Shuckramahcondah</i>	Kurnool	About 4½ miles S.S.E. of Srígiripád, and 7½ miles N.W. of Pullálachéru : táluk Márkápúr. 1821.	16 14 19·73	79 23 38·37	...	233
Siddhanakönduru h.s. ... <i>Seedanagoondoor S.</i>	Nellore	On the northern summit of a small detached hill, about 30 feet N.W. of a pagoda, 1 mile W. by N. of the village so called, and 2 miles S.S.E. of Pëddapád: táluk Kávali. The station is denoted by a mark-stone in the centre of a platform. 1812.	14 47 37·47	79 48 56·17	362	399
Siddhapur h.s. ... <i>Siddapoor H.S.</i>	Nizam's Territory	On a hill about 7½ miles E.N.E. of the town of Atmakúr on the high road from Nandikottúr, and 3½ miles N.E. of Pinnapuram village. The station is denoted by a stone in the centre of a platform. 1812.	15 55 42·89	78 43 52·20	2058	307
Siddhavattam s. ... <i>Sidout</i>	Cuddapah	On the S.E. cavalier of the fort on the left bank of the Pénner river, about ¼ a mile W. of the junction of the high roads from Badvel and Vöntimitta to Cuddapah: táluk Siddhavattam. 1812.	14 27 48·34	79 0 40·49	...	467 468
Siddhavattam Temple ...	"	Also called Sidhout. Centre of the gopuram of the temple in the town: táluk Siddhavattam. 1871-72.	14 27 58·0	79 0 12·7	413	804
Singaráyakönda h.s. ... <i>Shingaroyeconda</i>	"	On a hill, about ¼ of a mile N. by E. of the village so called near the road from Giddalúr to Badvel, and 2½ miles N. by W. of Kalasapád on the same road: táluk Badvel. 1812.	15 8 43·47	78 58 20·91	...	359 860
Singaráyakönda Pagoda ... <i>Singaroyecondah P.</i>	Nellore	Eastern gopuram of the pagoda in the village so called, close to a tank and E. of the high road from Madras to Ongole: táluk Kandukúr. 1812.	15 13 53·6	80 4 12·7	...	342 343
Singaráyakönda Temple ...	"	Top of a high conspicuous temple in the village so called, close to a tank and E. of the high road from Madras to Ongole: táluk Kandukúr. 1887-88.	15 13 54·2	80 4 13·8	* 168	340 841
Singaráyan Hill Pagoda ... <i>Senjuroyn P.</i>	Kurnool	On a small isolated hill about a mile S. by W. of Böndalápád, and 2½ miles S. by W. of Bhutpatipalli on the road from Cumbum to Nellore: táluk Márkápúr. 1812.	15 36 51·2	79 13 45·1	...	297
Singupálém s. ...	Kistna	In an open plain surrounded by water during the monsoons, about a mile N.W. of Singupálém village, ¼ a mile E. of a large creek or backwater lined with mangrove, and 4 miles S.S.E. of Repalle: táluk Repalle. The station consists of a masonry platform having a mark over which a protecting pillar 1½ feet high has been built, the latter being covered over by a circular mound of earth 12 feet in diameter and 4 feet high. 1885-86.	15 57 53·77	80 54 20·06	...	1050

* To top of temple.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Sirkōnda Hill Building <i>Sirkōndah</i>	Nizam's Territory	On the highest part of the rock on a hill, about 2½ miles W. by N. of Husainabad, 1½ miles S.S.W. of Kōttapet, and 10½ miles E.N.E. of Sūrayapet town on the high road from Hyderabad to Masulipatam. 1819.	17 11 25	79 48 58	feet ...	106
Sirpuram Pagoda ... <i>Sirporam P.</i>	;	Close to a large tank, about 1½ miles N.W. of Rāmapuram, 4½ miles E.S.E. of Rāipalle, and 3½ miles N.E. of Munagāl on the high road from Hyderabad to Masulipatam. 1819.	17 5 7.9	79 55 3.1	...	108
Sítānagaram Hill Pagoda <i>Seetanuggarum H.</i>	Kistna	Platform of the pagoda on a hill at the western and northern foot of which runs the high road from Mangalagiri to Bēzvāda. It is on the right bank of the Kistna river, about 1½ miles N.E. of Vundavali, and the same distance N.W. by N. of Todēpalli: táluk Guntūr. 1812.	16 29 57.0	80 38 48.4	...	190
Sítārām Temple ...	Vizagapatam	About 3 miles N. by E. of the Custom house at Pēntakōta sea-port town. 1884-85.	17 20 10.4	82 39 56.9	...	844
Somavarapád h.s.	Nellore	On a rugged hill of quartz, called Kuchabod, about 200 feet above the general level of the surrounding country, ¼ of a mile S. of Somavarapád village, and 1 mile S.W. by S. of Krishnapád: táluk Kāvāli. The station consists of a masonry pillar 2 feet square and 1 foot high, having mark-stones at top and bottom. 1886-87.	14 47 9.42	79 53 55.12	$\frac{239}{1}$	733 734
Srikakulam Pagoda <i>Chickakolum P.</i>	Kistna	Temple of the village so called on the road to Masulipatam: zamindāri Sallapalli. 1812.	16 11 37.7	80 53 24.0	...	195 196
Sripuram s. ...	Nellore	On a swell of ground covered with brush-wood, about a mile W. by N. of the village so called, 1½ miles S.W. by W. of Nārāyanapuram, and 2 miles S. of Chalamchala: táluk Kāvāli. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	14 56 47.12	79 59 31.24	95	755
Sudaghatu h.s. ...	Godāvāri	On a small isolated hill about a mile N. of Mukkinád, 1½ miles S.E. of Tokāda, and 2 miles W.S.W. of Dōntamūr village: táluk Rajahmundry. The station is denoted by a mark-stone embedded in the ground. 1861-62.	17 0 11.91	81 59 42.67	...	827
Sudikōnda No. 1 <i>Soodecondah S.</i>	Kistna	On a remarkable peak about 1½ miles W. of the main road from Bōllēpalli to Karampūdi, and 3½ miles N. of the former: táluk Vinukōnda. The station is denoted by a mark-stone covered over by a pyramid of stones. 1812.	16 14 24.00	79 44 26.68	1860	152 158
Sudikōnda No. 2	Godāvāri	On a low hill about ¼ of a mile E. of the high road from Rajahmundry to Rampa, and 2½ miles N.E. by N. of the former town: táluk Rajahmundry. The station is denoted by a mark engraved on a large stone embedded in the ground. 1860-61.	17 2 4.48	81 50 16.64	...	668

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Sudikōnda No. 3	h.s. ... Vizagapatam	On a remarkably conspicuous peak about 3 miles N. of the Custom house at Pēntakota sea-port town, and 5 miles E. by S. of Tuni. The station is marked by a circle and dot found engraved on the rock <i>in situ</i> , over which a masonry pillar 40 inches in diameter and 1 foot high, with the usual rectangular protecting pillar, is built. 1884-85.	17 20 24·23	82 39 4·11	feet ...	834 835
Sudkōnda, LIX	... Godāvāri	<i>Vide page 14—E.</i> ...	16 57 17·99	81 14 46·66	$\frac{521}{1·5}$	75, 77
Sundupalle Pagoda <i>Soondapilly P.</i>	... Cuddāpah	N.E. pagoda on the left bank of the Bāhuda stream, about a mile N. of Timmasamudram, and 5 miles W. of the large village of Rāyavaram: tāluk Rāyachoti. 1812.	13 58 43·8	78 57 28·6	...	544
Surasaniyānam Beacon	s. ... Godāvāri	On slightly elevated ground 3½ feet above the general level of the swamps which surround it, and about the same height as the village so called which is about ¼ a mile N. by W. It is about 396 yards from the sea coast: tāluk Amalāpuram. The beacon consists of a 7-inch square post of teak, standing 22 feet 8 inches above the surface of the ground, and having two pairs of cross-arms attached to it. The smaller pair is let in 6 inches and the larger 5 feet from the top. The post is embedded in a block of masonry 5 feet deep, 5 feet square at foundation and 4 feet square at the surface of the ground. A sloping superstructure of masonry braces the post from the surface of the ground to a height of 4 feet. In the masonry and about 8 inches above the concrete foundation, a large block of teak 2 feet 10 inches long and 18 inches both in depth and width, is let in lengthwise, having a squarely cut receptacle 7 × 7 × 7 inches which received one end of the post. The letters G.T.S. have been burnt into the post. The arms and 5 feet of the post from top have been painted white, the rest red. 1885-86.	16 28 42·58	82 8 18·72	* 10	895
Súrāyapet Mosque <i>Sooriapett</i>	... Nizam's Territory	Minaret of the mosque in this town on the high road from Hyderabad to Masulipatam. 1819.	17 8 8·7	79 39 37·7	...	112
Swāmikōnda	h.s. ... Kistna	On the summit of a high hill and near the precipice on the W. side, about 2 miles S.E. of Vīrabhadrapuram, 5 miles S. by W. of Mutukūr, and 5½ miles S.E. of Vēldurti. It is most conveniently ascended from the village of Mutukūr: tāluk Palnād. The station is denoted by a mark-stone in the centre of a platform. 1821.	16 18 6·80	79 29 23·07	...	212 213 214
Tadikōnda Hill Pagoda <i>Toddycondah</i>	... "	On a small isolated hill at the S.E. foot of which lies the village of Tadikōnda, about 7½ miles W. by S. of Mangalagiri village on the high road from Guntūr to Bēzvāda, and 2½ miles S. of Pēddaparimi: tāluk Bēzvāda. 1812. It was refixed in 1861-62.	16 25 9·2	80 29 30·1	...	726 727
Tadivēnu	s. ... "	On high ground at the junction of four rice fields, about ¼ of a mile N. of Pēdda Gōllapālēm, 2½ miles N.E. of Tēppa Pulipālēm, 300 yards N.N.E. of Tadivēnu, and 1½ miles S.E. by E. of Sandāla: tāluk Bandar, zamindāri Kurtivēnu. The station is denoted by a thick sāl wood stake 6 feet long driven 4 feet into the ground. 1885-86.	16 22 0·14	81 28 23·39	* 6	938

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Tállakõnapada Platform <i>Tullakonapuddavoo</i>	Cuddapah	On the western edge of a mass of hills, about 4 miles N.N.E. of Chintakunta village, and 6 miles E. of Bodevëndlapalli: táluk Váyalpád. 1812.	13 47 40·3	79 14 24·4	feet ...	579
Tállapálém s. ...	Kistna	In the centre of a field, about 152 yards from the N.E. by E. corner of the southernmost house of the thána group of buildings, 233 yards N. of a paka Indigo vat which is 350 yards from the sea, and 300 yards E. of the village of Tállapálém: táluk Bandar. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground. 1885-86.	16 15 24·80	81 16 51·39	* 13	942
Tallarapet h.s. ... <i>Tellaralpatte S.</i>	Cuddapah	On the highest hill of the Pálkõnda Range, about 9 miles S.W. by W. of Ballipalle Railway Station, and 2½ miles S. by E. of Jondrazikuppa peak: táluk Váyalpád. The station is denoted by a platform. 1812.	13 43 22·82	79 20 53·17	3766	480
Tamarchëru s. ...	Godávári	On the bank of a large and well-known tank of that name, about a mile E. of Medapád village on the Sámalkot Canal, 1½ miles S.W. of Vëtlapálém, 2½ miles S.E. of Chinna Brahmadevam, and 2½ miles E. by N. of Pëdda Brahmadevam: táluk Rámachandrapuram. The station is denoted by a mark-stone embedded in a mud pillar 6 feet high. 1861-62.	17 0 17·92	82 9 52·53	...	823
Tangutúr Pagoda ... <i>Tungtoor P.</i>	Nellore	N.E. pagoda in the village so called, about ¼ a mile E. of the main road from Nellore to Ongole, and 11 miles S. of the latter: táluk Ongole. 1812.	15 20 23·3	80 5 0·3	...	337
Tanukõnda Hill Platform <i>Tonoo-condah</i>	Cuddapah	On the highest part of a small isolated hill about 2 miles W. by S. of Kodúr Railway Station on the line from Bombay to Madras, and 2½ miles S.E. of the large village and fort of Yërraguntlakota: táluk Pullampet. The point is denoted by a mark in the centre of the platform. 1812.	13 56 21·87	79 21 12·05	...	508
Taptëvarpalle Hill Platform <i>Tuptawarpilly</i>	"	About 3¼ miles N. of the postal town of Vöntimitta, and 5 miles E.S.E. of the town of Siddhavattam: táluk Siddhavattam. 1812.	14 26 24·4	79 4 23·7	...	469
Tarigõnda Fort <i>Thurricondah</i>	"	S.W. angle of the fort on the road from Váyalpád, about 4 miles N. of this town: táluk Váyalpád. 1812.	13 41 29·8	78 40 9·4	...	569
Tellanillamalai h.s. <i>Tellaneelmalli S.</i>	Nellore	On a range of hills, about ¼ of a mile W. of the village so called, and 2½ miles W.N.W. of Vënkatasayachëru: táluk Kanigiri. 1812.	15 13 43·13	79 9 19·73	2728	355 356
Tëppa Pulipálém s. ...	Kistna	On a high commanding sand mound about 100 yards from the sea, 300 yards S.S.E. of Tëppa Pulipálém, and 2 miles W.S.W. of Pëdda Göllapálém: táluk Bandar. The station is denoted by a 4-foot wooden peg protected by a firmly constructed tumulus of tank clods. 1885-86.	16 20 36·43	81 26 56·86	* 22	935

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Tëttu h.s.	Nellore	On a low isolated hill called Mallakönda, about 50 feet high, on the summit of which is a temple dedicated to Narsuswami. The station is 15, 30'8 and 23 feet respectively from the N.W., N.E. and S.W. corners of the temple. It is about $\frac{1}{2}$ a mile S.E. by S. of Tëttu on the high road to Nellore: taluk Kandukür. The station consists of a masonry pillar 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	15 2 43' 34	80 3 4' 92	feet 110	760
Tëttu Hill Temple ...	"	On the summit of a low isolated hill called Mallakönda, about $\frac{1}{2}$ a mile S.E. by S. of Tëttu on the high road to Nellore. This temple is dedicated to Narsuswami: taluk Kandukür. 1886-87.	15 2 43' 2	80 3 5' 1	* 133	769 770
Tëttupet s. ... <i>Poothapetta</i>	"	Near the sea coast, and about 7 miles E. of Irakam Island in the Pulicat Lake: taluk Gúdúr. 1812.	13 35 25' 19	80 17 43' 10	...	643
Thirthalmundi Beacon s. ...	Godávári	On a low sand dune said to be surrounded by water during the rains, at the S. edge of the fishing village of that name, and about 300 yards from the sea. It can only be approached by boat through the numerous creeks which branch off from the Godávári river: taluk Amalápuram. The beacon is built of solid masonry. 21 feet 6 inches high and 5 feet deep, having four mark-stones, one at the foundation, the second flush with the ground, the third 4 feet above the second, and the fourth 18 inches below the top or just under the cap. 1885-86.	16 40 58' 94	82 22 27' 49	† 11	880
Timmapuram s. ...	"	On a low plain subject to inundation, about 500 yards from the tank which is between the village so called and the station, $\frac{1}{2}$ of a mile N.W. of Timmapuram village, $1\frac{1}{2}$ miles E.S.E. of Indrápet, and $4\frac{1}{2}$ miles E.S.E. of the large village of Sámalkot on the high road to Vizagapatam: division Cocanada. The station is denoted by a pillar 16 feet high including foundation. When visited in 1884-85, a mark-stone was found in the foundation, over which a circular masonry pillar 4 feet in height has been built, surmounted by a rectangular protecting pillar $3\frac{1}{2}$ feet high, and the whole is covered over by a mound of earth. 1861-62.	17 2 3' 60	82 17 11' 33	...	819
Tirmallappanagutta h.s. <i>Tirmellapungutt S.</i>	Nizam's Territory	On the summit of a flat-topped hill, about a mile S.W. of Bonúta, and $4\frac{1}{2}$ miles N.W. by N. of Néllical on the road from Tumurukota to Devarakönda town. The station is denoted by a mark-stone in the centre of a platform. 1812.	16 40 51' 22	79 20 51' 53	1147	119 120
Tirthampád Choultry <i>Tirritumpardoo</i>	Nellore	In the village so called, about a mile W. of the main road from Vënkata giri to Rápúr, and $4\frac{1}{2}$ miles N.W. by N. of the former: zamindári Vënkata giri. 1812.	14 0 58	79 34 59	...	600
Tirumalagiri Hill Temple	Kistna	About $3\frac{1}{2}$ miles W. by S. of Makkapet, and 3 miles S. by W. of Pëdda Modugapalli: taluk Nandigána. 1861-62.	16 55 8' 9	80 10 51' 3	...	706

* To base of spire.

† To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Tirumaldevargudda Hill Pillar ... <i>Tirmeldavurgooda</i>	Kurnool	On one of a group of small hills, about 1½ miles N. of Rájampalli on the high road from Kurnool to Dupád: táluk Márkápur. The point is denoted by a mark on the pillar. 1812.	15 54 33·02	79 18 40·17	... <i>feet</i>	287
Tirumaldevargudda Pillar ... <i>Tirmeldavurgooda</i>	Kistna	About 4½ miles E. by N. of Bólláppalli, and 2½ miles S.W. of Ippúr: táluk Vinukónda. 1812.	16 11 55·7	79 47 40·4	...	242
Tirupati No. 1 Temple ...	North Arcot	Highest gopuram of the temple in Kit (or lower) Tirupati: táluk Chandragiri. 1864-65.	13 37 43·1	79 27 38·6	* 628	589
Tirupati No. 2 Temple ...	Godávári	Large temple about ¼ of a mile N.E. of Devaratirumala village, 2½ miles N. by E. of the large village of Pimmapuram, and 2 miles N.E. of Vēnkatakrišhnapuram: táluk Ellore. 1860-61.	16 57 13·6	81 17 57·1	...	681 682
Tirupati Pagoda ... <i>Ulooperrí P.</i>	North Arcot	N. pagoda at the foot of a hill in Kit (or lower) Tirupati. The place is also known as Allúrpēri: táluk Chandragiri. 1812.	13 38 47·9	79 26 49·0	...	587
Tirupati Railway Station ...	"	S.E. corner of the Engine or Goods' shed on the N.W. line of the Madras Railway: táluk Chandragiri. 1864-65.	13 38 4·2	79 32 56·4	...	588
Tiruvúr Temple ...	Kistna	Small temple in the village so called on the road to Repudi, close N. of Kóttavúr, and 2 miles W. of Munukulla: division Vissanapet. 1861-62.	17 6 28·3	80 38 52·6	...	695 696
Togaramúdi ... <i>Towaramoody</i>	Nellore	About a mile W. of the western shore of the Pulicat Lake, and 3 miles N.E. of Kóttapolúr village: táluk Polúr. 1812.	13 45 55	80 5 23	...	629
Tóndamanád Pagoda ... <i>Thondamanaúd P.</i>	North Arcot	Highest pagoda about 1½ miles S. of the high road from Tirupati to Kálahasti, and 4½ miles S.W. of the latter: zamindári Kálahasti. 1812.	13 42 11·7	79 41 49·8	...	636
Tumakónda h.s. ... <i>Tvomacondah</i>	Cuddapah	On a very high hill, about 4 miles N.W. of Váyalpád town, 2 miles N.N.E. of Chinna Tēppa Samudram village, and 5½ miles S.E. by E. of Mudivedu. It is on the boundary of Váyalpád and Mudanapalle táluks. The station is denoted by a spacious and well-built platform surmounted by a pyramid of stones. 1812.	13 40 17·35	78 37 9·29	3610	† 558
Tumurukota Flag-staff ... <i>Timmerykotah Hill</i>	Kistna	On the highest point of a mass of hills, about 1½ miles S.W. by W. of the place so called, and 3½ miles N.E. of Tállapalli village: táluk Palnád. 1812.	16 32 58·1	79 28 47·7	...	217
Tumurukota Mosque ... <i>Timmerykotah</i>	Nizam's Territory	S. minaret. About 6 miles W. by N. of Rēntachintala, and the same distance N. by E. of Machēria. 1812.	16 33 31·8	79 30 7·1	...	215 216

* To top of gopuram.

† For two other triangles fixing this station, see the Synoptical Volumes of the Madras Longitudinal Series and the Great Arc Meridional Series, Section 8° to 18°.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Turkápálém s. ...	Kistna	About 80 yards S. of the village so called, 1½ miles N. by E. of Ghantasala, and 1½ miles S.S.W. of Kosúr: zamindári Sallapalli. The station is marked by a circle and dot engraved on a flag-stone standing on a kacha pillar 12 feet high. 1865-66.	16 12 5'38"	80 59 21'57"	... feet	1013
Turlapád Pagoda ... <i>Turlapaud P.</i>	Nellore	Gateway of the pagoda of the large village so called, N. of a large tank: division Pödili. 1812.	15 39 24'9"	79 15 55'4"	...	296
Turputálu s. ...	Godávári	On the S. border of a cocoa-nut garden belonging to a Bania named Yadgari Narsimlu, about 1½ miles E.S.E. of the village so called, and 5½ miles S.S.W. of Narsápur town: taluk Narsápur. The station is denoted by a thick sál wood stake 6 feet long driven 4 feet into the ground, and covered over by a mound of earth 18 feet in diameter and 8 feet high. 1885-86.	16 21 17'95"	81 41 45'52"	* 4	923
Turukónða Hill Pagoda ... <i>Turrocondah P.</i>	Nellore	On and near the S.W. end of a hill, about 2½ miles S. of the village of Chandalúr, and 5 miles W. by S. of the town of Darsi: division Darsi. 1812.	15 45 21'7"	79 38 34'0"	...	316
Turukónða Hill Peak ... <i>Toroocondah</i>	Kurnool	One of the several peaks of a mass of hills, about 7½ miles N.W. by W. of Dupád, 2½ miles W. by N. of Bóyalapalli, and 4 miles S.S.W. of Yérrakóndapálém: taluk Márkápúr. 1812.	15 58 45"	79 19 7"	...	286
Udagat h.s. ... <i>Udagutti S.</i>	Nizam's Territory	On the summit of a low hill, about 3 miles N. of Náratkappalli from which a road leads to Nalgónða town, and 1 mile S. of Mandra. The station is marked by a circle and dot engraved in the centre of a platform adjoining a rock. 1812.	17 14 25'36"	79 13 39'61"	1412	†
Udayagiri Hill Mosque ...	Nellore	S.E. minaret of Abbás Ali Khán's mosque on a range of hills, about 2 miles S.W. by W. of Udayagiri town, and the same distance N.E. by E. of Bijjampalle village: taluk Udayagiri. 1863-64.	14 51 51'4"	79 19 3'3"	3027	381 382
Udayagiri h.s. ... <i>Oodagherry S.</i>	"	On a range of hills, about 130 yards S.S.E. of Udayagiri Hill Mosque: taluk Udayagiri. 1812.	14 51 47'73"	79 19 4'66"	2971	380
Ukkayapalli h.s. ...	Cuddapah	On a hill which is one of a low range almost connecting the Pallakónða and Lankamalai ranges, about 3 miles N.E. by E. of the station of Cuddapah, and ¼ a mile N.W. by N. of Khajepalle. The hill is rugged, and a foot-path from Cuddapah to Siddhavattam crosses it at a distance of 3 or 4 hundred yards to the S. of the station. It is on the boundary of Cuddapah and Siddhavattam taluks. The station is denoted by a mark-stone embedded in the surface of a platform 8 feet square and 5 feet high. 1871-72.	14 30 1'41"	78 54 26'76"	919 5	774 775
Undurgónða Hill Building ... <i>Oondragoondah</i>	Nizam's Territory	About 4½ miles S.E. of Súrayment town on the high road from Hyderabad to Masulipatam. 1819.	17 5 42"	79 43 16"	...	110 111

* To ground level.

† For triangle fixing this station, see the Synoptical Volumes of the Bider Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure feet	No. of Triangle
Uppalagutta h.s. ... <i>Oopulgutt S.</i>	Nizam's Territory	On a high detached hill well-known in the neighbourhood, about 1½ miles S. of the village so called, and 8½ miles S. by W. of Náráyanpur on the road from Nalgönda to Hyderabad. The station is marked by a circle on the rock around which a platform has been raised. A pyramid of stones has been raised over the station. 1812.	17 2 42.76	78 57 16.03	1962	116
Uppalapalli Temple	Cuddapah	Ball on the top of the temple known as Nagaya Deolam close to Uppalapalli village, about 4½ miles N.N.W. of Cuddapah city. The temple is about mid-way between Cuddapah and Pushpagiri h.s.: taluk Cuddapah. 1871-72.	14 32 38.8	78 49 59.9	445	776 777
Upputúr s. ...	Kistna	About 1½ miles E.S.E. of the village of this name, and 2½ miles S.E. of the large village of Paruchúr on the high road from Ongole to Guntúr: taluk Bápátla. The station is marked by a circle and dot engraved on the top of a pillar of masonry 14 feet high. 1865-66.	15 56 18.98	80 20 14.85	...	1037
Urakönda Hill	Godávári	A conical hill about 3 miles S.W. of Tuni town, and 2½ miles N.N.E. of Hamsavaram village: division Tuni. 1884-85.	17 19 29	82 33 11	...	854
Urakönda h.s. ...	"	On the E. end of a long hill. There is also a smaller hill to S.W. on which a survey station is situated. It is about a mile N.E. by N. of Hamsavaram village, and 5½ miles N. by E. of Krishnapuram near the sea coast: zamindári Pithápuram. The station is marked by a circle and dot cut on the rock <i>in situ</i> . When visited in 1884-85, a masonry pillar 40 inches in diameter and 1 foot high, with the usual rectangular protecting pillar, was built over the mark. 1860-61.	17 18 9.87	82 32 46.12	...	809
Urakönda Tree Flag	"	On a hill E. of Urakönda, about 1½ miles E. by N. of Hamsavaram village: division Tuni. 1884-85.	17 17 54	82 33 37	...	857 858
Urlabod Hill Platform <i>Oorlabode</i>	Cuddapah	On a range of hills running nearly N. and S., about 1½ miles S.W. of Gopavaram village, and 3½ miles S.E. of the town of Badvel: taluk Badvel. 1812.	14 42 14.8	79 7 56.9	...	398
Urulkönda Hill Building <i>Oortagoondah</i>	Nizam's Territory	Square building about ¼ a mile S.W. by S. of the village so called on the road to Khamam or Khamamet town. 1819.	17 14 22	79 53 42	...	104 105
Úttamanéllúr s. ...	Nellore	On a horse-shoe bund which encloses a marshy lake, 89 feet from the S.W. angle of the bund which is about 9 feet above the general level of the ground, about 250 yards W. by S. of the S. end of Úttamanéllúr, and 450 yards E.N.E. of Kökkupád: taluk Gúdúr. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 3 42.35	80 7 8.62	$\frac{22}{2}$	608

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Úttukúr Hill Platform <i>Ootkoor Hill</i>	Cuddapah	About a mile E. of the village so called, and 3¼ miles E. by S. of Rájampet Station of the Madras Railway, N.W. Line : táluk Pullampet. 1812.	14 10 53·3	79 14 23·9	... feet	498
Vadapálém s.	Nellore	On the right bank of the Chipalēru (Vupputēru) river, about 200 yards W. by S. of the hamlet so called, 1½ miles N.N.W. of Adepálém, and ¼ of a mile E.N.E. of Juvaldinne : táluk Káváli. The station consists of a pillar of masonry 2 feet below and 2 feet above the surface of the ground ; the lower portion is 3 feet square and the upper tapers from 2 to 1½ feet square ; the pillar contains three mark-stones, one at the foundation, the second at the ground level, and the third on the top, and is covered over by a mound of earth. 1886-87.	14 48 53·25	80 7 29·87	$\frac{14}{2}$	746
Vaikuntapuram Pagoda <i>Vygoondapooram P.</i>	Kistna	About 3¼ miles W. of Borupálém, and 2 miles W.S.W. of Harischandrapuram on the right bank of the Kistna river : táluk Guntúr. 1812.	16 34 1·8	80 27 4·3	...	171
Vákalapúdi Light-house s.	Godávári	On the W. side of the upper stone roof of the light-house having the letters G. T. S. engraved below it. It is a little to the right of the small door that opens out on the verandah, 2 feet 7 inches from the N.W. corner of the basement of the lantern, and 3 feet 4½ inches from the post that supports the bell. It is about ¼ a mile from the sea shore, 1 mile N.E. of Vákalapúdi village, and 1½ miles of Tammavaram, and carries a revolving light which is visible 14 miles out at sea. It is 69 feet 2 inches above the ground : division Cocanada. The station is marked by a circle and dot engraved on the roof. 1884-85.	17 0 49·84	82 19 30·76	...	863 864
Vákalapúdi s.	"	About 1½ miles S. of the village so called, 1½ miles S.E. of Rámanáyapet, and 3 miles N.N.E. of Cocanada Light-house : division Cocanada. Destroyed. 1861-62.	16 58 46·14	82 18 30·29	...	820
Vallúr s. <i>Popham's Farm</i>	Chingleput	In Popham's farm about ¼ a mile W. of Vallúr village from which a well-made road runs to Madras, and 1½ miles S.S.E. of Minjúr village : táluk Pönnéri. 1802-3.	13 15 37·24	80 18 33·91	...	*
Vallúr Temple	Kistna	Gáli gopuram of the large temple close S. of the town so called on the left bank of the Kistna river, and at the S. end of the zamindári : zamindári Vallúr. 1861-62.	16 20 48·7	80 49 24·7	...	731 732
Vamaldevi s.	Godávári	On low ground surrounded by swamps interspersed with rice fields, about 308 yards S. of Vamaldevi hamlet of Sámaldevi village, and ¼ a mile from the sea coast. Antravedi Obelisk Beacon lies about 2 miles S.E., at the mouth of the Godávári river, on the opposite side : táluk Narsápur. The station consists of a masonry pillar 3 feet square and 2 feet below, and 2½ feet square and 1½ feet above the surface of the ground, which contains mark-stones at foundation and top, and is covered over by a mound of earth. 1885-86.	16 19 59·45	81 44 15·58	$\frac{8}{1·5}$	921
Vandádi h.s. <i>Wundawdee H.</i>	Cuddapah	On the centre of a mass of low hills, about 1½ miles W. by N. of Vandádi village, the same distance S. of the road from Ráyachoti to Kadiri, and 6½ miles S.W. of the former : táluk Ráyachoti. The station is denoted by a mark in the centre of a platform. 1812.	14 0 24·39	78 42 42·02	...	536 537

* For triangles fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Vattalúr h.s. ... <i>Wuttaloor</i>	Cuddapah	On a small isolated hill about 2 miles S.E. of the village of this name, and 3 miles S.W. by S. of the town of Pullampet: táluk Pullampet. 1812.	0 1 "	0 1 "	<i>feet</i> ...	483 484 485
Vattúrpalépálém Beacon ...	Nellore	On a dune, the highest point on the coast in this vicinity, about 10 feet above the high-water mark, $\frac{1}{4}$ of a mile S. by E. of Vattúrpalépálém hamlet, $1\frac{1}{4}$ miles E. by S. of Anagaripálém, 2 miles N. of Vadapálém, and $1\frac{1}{4}$ miles E. by N. of Göllapálém. It is 150 feet from the high-water mark, and 103 yards E. of the Chipalèru river which terminates at Vattúrpalépálém hamlet: táluk Kávali. The beacon consists of a palm post rising 38 feet above the surface of the dune. The post has two pairs of cross-arms attached to it, the smaller pair 6 inches and the larger 5 feet from the top. The letters G. T. S. have been engraved on the post. The arms and 5 feet of the post from the top have been painted white, the rest red. 1886-87.	14 50 34' 9	80 7 44' 6	* 12	748 749
Váyalpád Pagoda ... <i>Wauilpaud</i>	Cuddapah	N. pagoda in the town of this name at the junction of the roads from Gurramkōnda and Madanapalle: táluk Váyalpád. 1812.	13 38 11' 2	78 40 21' 1	...	578
Váyalúr s. ... <i>Oornummode</i>	Chingleput	On the bank of a sheet of water, about $1\frac{1}{4}$ miles N.E. of Váyalúr village, and between two hamlets of this village which lie $\frac{1}{4}$ a mile N.N.W. and S.S.E. respectively of the station: táluk Pōnneri. 1802-3.	13 18 57' 29	80 20 35' 23	...	†
Vejēlla s. ... <i>Vainjerlah S.</i>	Kistna	About $\frac{1}{4}$ a mile N.E. by E. of the village so called, $\frac{1}{4}$ of a mile S. by W. of Suddapalli, $1\frac{1}{4}$ miles E.N.E. of Narakodúru on the road from Guntúr to Bapatla, and $6\frac{1}{4}$ miles S.E. by E. of Guntúr town: táluk Guntúr. The station is marked by a circle and dot engraved on a large stone. 1812.	16 14 6' 82	80 34 46' 11	91	174
Venád Tree ... <i>Vernaud</i>	Nellore	On the island so named in the Pulicat Lake: táluk Gúdúr. 1812.	13 38 27	80 10 13	...	644 645
Vēnkatagiri Building ...	"	Centre of the highest building on a hill, about $7\frac{1}{4}$ miles W. by N. of the town, and $3\frac{1}{4}$ miles W. of Pálémkōta village: zamindári Vēnkatagiri. 1864-65.	13 58 26' 0	79 30 34' 1	‡ 3072	442 443
Vēnkatagiri Temple ...	"	Great Gáli gopuram of the temple immediately S. of the town and near the main road to Madras: zamindári Vēnkatagiri. 1864-65.	13 57 4' 6	79 37 19' 0	§ 278	444 445
Vēnkatampet Hill Pagoda ... <i>Yenkatampett P.</i>	Nizam's Territory	White pointed pagoda on a low rock on a hill, about $\frac{1}{4}$ of a mile N.N.W. of Tídadúr on the road to Devarakōnda town, and $6\frac{1}{4}$ miles N. by W. of it. 1821.	16 48 9' 9	78 56 49' 3	...	147 148
Vēnkatapálém s. ...	Godávári	On rising ground, about 306 yards S. of the village, 259 yards S.E. of a temple, and $1\frac{1}{4}$ miles S.E. of Coringa town on the road from Yanam to Cocanada: division Coringa. The station consists of a masonry pillar 40 inches in diameter and 1 foot high, with the usual rectangular protecting pillar built over it. 1884-85.	16 48 0' 43	82 17 32' 07	8	876
Vēnkatarēddipálém Pagoda ... <i>Yeggoopolliam Pagoda</i>	Kurnool	Of the village so called: táluk Márkápúr. 1821. ...	16 3 0' 4	79 15 34' 0	...	248

* To ground level.
‡ To top of building.

† For triangle fixing this station, see the Synoptical Volume of the Madras Longitudinal Series.
§ To top of Gáli gopuram.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Vijayanagaram s. ...	Godávri	On open elevated plain surrounded by paddy fields, about $\frac{1}{4}$ of a mile S.W. of the village so called, $1\frac{1}{2}$ miles S.E. by S. of Durgada village, and 3 miles E. of Chebrolu on the high road from Pithápuram to Vizagapatam : zamíndári Pithápuram. The station is denoted by a pillar of masonry 2 feet below and 1 foot above the surface of the ground; the upper portion is 40 inches in diameter. When visited in 1884-85, a rectangular protecting pillar was built over it. 1861-62.	17 11 50.76	82 24 17.96	... feet	813
Vilvol s. ...	Kistna	On the E. bank of the Kistna river, about $2\frac{1}{2}$ miles W. of Chittúr village, and $4\frac{1}{2}$ miles W.N.W. of Sallapalli : zamíndári Sallapalli. The station is denoted by a paka pillar 4 feet high. 1865-66.	16 9 14.02	80 54 42.39	...	1009
Vinjamúrkōnda Platform <i>Injamoorcondah</i>	Nellore	On an isolated hill, about $3\frac{1}{2}$ miles S.S.W. of Vinjamúr on the main road from Udayagiri to Kaligiri, and 2 miles E. of Bájupálém village: táluk Udayagiri. 1812.	14 47 21.6	79 35 45.2	...	403 404
Vinukōnda Hill Pagoda <i>Innacondah</i>	Kistna	West pagoda on the E. summit of a hill immediately W. of the town of Vinukōnda on the high road from Nellore to Guntúr: táluk Vinukōnda. 1812.	16 3 5.5	79 46 17.8	...	259 260
Víramkōnda h.s. ... <i>Byramcondah S.</i>	Kurnool	On the top of the highest hill about 100 yards N. of a stone pillar, about $4\frac{1}{2}$ miles S.E. by S. of Ardavid, $5\frac{1}{2}$ miles N.E. of Akuvid, and $7\frac{1}{2}$ miles N.W. of the town of Cumbum: táluk Cumbum. The station is denoted by a platform and a pile of stones. 1812.	15 37 38.61	79 2 15.46	3083	299
Vírapalle Hill Pagoda <i>Vecrapilly H.P.</i>	Cuddapah	Highest and middle tower of the pagoda about $\frac{1}{2}$ of a mile S. of the Mandavia stream, $1\frac{1}{2}$ miles E. of Somavaram village, and $1\frac{1}{2}$ miles S. of Vangimalla: táluk Báyachoti. 1812.	14 9 28.9	78 54 2.1	...	523
Víravillipaya h.s. <i>Beeravillypoye S.</i>	Kistna	On the highest point of one of a group of round-topped hills, about a mile S.W. of Bájupálém on the high road from Hyderabad to Guntúr, and $2\frac{1}{2}$ miles S. of the large village of Bēllamkōnda: táluk Sattēnapalle. The station is marked by a circle and dot engraved on a large stone embedded in the centre of a platform, and is covered over by a pile of stones. 1812. It was re-visited in 1863-64.	16 27 15.21	80 2 33.57	1301	155 156 157
Vírurkōnda Hill Platform <i>Veroorcondah</i>	Cuddapah	About $1\frac{1}{2}$ miles E. by N. of the village of this name, and $9\frac{1}{2}$ miles E.N.E. of Siddhavattam town: táluk Siddhavattam. 1812.	14 31 36.3	79 8 25.9	...	459
Vishvanáthapalli s. ...	Kistna	On the same bank of a branch of the Kistna river as the village of the same name and about $\frac{1}{2}$ a mile E. of it, and $3\frac{1}{2}$ miles S.S.E. of the large village of Pēddakallēpalli: táluk Bandar. The station is denoted by a brick pillar 8 feet high. 1865-66.	16 3 7.76	81 2 45.46	...	1014
Vojili Bungalow ...	Nellore	S.W. corner of the bungalow close N.E. of the village so called, immediately W. of the eastern of the two main roads leading northwards from the same village: táluk Gúdur. 1864-65.	14 0 13.7	79 56 59.8	...	441

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Vöntimamudi Beacon s. ...	Godávári	On a high sand mound on the coast, about 1½ miles E. of the village of the same name, and 137 yards from the high-water mark. A strip of jungle about 50 feet from the station runs parallel to the coast line for a considerable distance: zamíndári Pithápuram. The station consists of a solid masonry 15 feet high, having two mark-stones, one at the surface of the ground and the other 6 feet below. 1884-85.	17 12 29·43	82 31 37·58	<i>feet</i> ...	855 856
Vöntimamudi Temple No. 1 ...	„	About a mile N.E. by N. of the village so called: zamíndári Pithápuram. 1860-61.	17 13 46·0	82 31 11·1	...	860
Vöntimamudi Temple No. 2 ...	„	About ¼ a mile N.E. of the village so called: zamíndári Pithápuram. 1861-62.	17 13 33·6	82 31 29·3	...	861
Vöntimitta Pagoda <i>Wuntimitta P.</i>	Cuddapah	At the southern extremity of the town of this name, about 6 miles S.E. of the town of Siddhavattam, and ¼ a mile E. of the Railway line from Cuddapah to Madras: táluk Siddhavattam. 1812.	14 23 33·2	79 4 8·5	...	472
Voruvakallu, VI ...	Kistna	<i>Vide page 6—E.</i> ...	16 35 33·29	80 12 24·38	$\frac{269}{1·0}$	10
Vuppada Beacon s. ...	Godávári	On the ruins of Mr. Gibson's house about ¼ of a mile S. of Vuppada village, and 1½ miles S.E. of Kóttapalli. In constructing the station the step leading to the terrace of the house was taken up with a portion of the old wall. The sea is encroaching so fast that the beacon, which is only 35 feet from the water's edge, will very shortly be washed away: zamíndári Pithápuram. The beacon is of solid masonry 25 feet high. 1884-85.	17 4 20·88	82 23 0·98	...	862
Vuppada s. ...	„	This station was on Mr. Gibson's house on the ruins of which a beacon was built in 1884-85: zamíndári Pithápuram. 1861-62.	17 4 20·81	82 23 0·77	...	816
Vustikayalapēnta Pagoda <i>Wurramutty H.P.</i>	Cuddapah	On a hill, about 2 miles N.E. of the village so called, and 4½ miles S.E. of Jillelamanda on the right bank of the Pincha river: táluk Váyalpád. 1812.	13 50 43·1	79 5 30·2	...	538 539
Vutukúr, XXXIII	Nellore	<i>Vide page 10—E.</i> ...	14 14 23·59	79 44 55·99	$\frac{517}{3·0}$	41
Wádapalle Mosque <i>Wodapilly Mosque</i>	Nizam's Territory	South minaret of the mosque with two striped minarets, on the left bank of the Kistna and on the high road from Hyderabad to Guntúr, about ¼ of a mile W. of the junction of the Múshi with the Kistna, and 1½ miles N.N.W. of Pöndugala village on the right bank of the Kistna. 1812.	16 41 23·2	79 42 10·4	...	205

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Wárreo Beacon s. ...	Godávári	On the left bank and at a distance of 55 yards from the mouth of the central discharge of the Godávári river, about $\frac{1}{2}$ of a mile S.S.W. of Wárreo village, and 242 yards W. of the sea. Between the village and the station lies the Government forest of Casuarina (or Jháu) trees which extends $\frac{1}{2}$ a mile from the river bank in a N.E. direction: táluk Amalápuram. The beacon consists of a 7-inch square post of teak, standing to a height of 22 feet 8 inches above the surface of the ground. The post is shod with a block of teak and this together with the lower portion of the post is built into a masonry pillar. The post has two pairs of cross-arms attached to it, the smaller pair 6 inches and the larger 5 feet from the top. The letters G. T. S. have been burnt into the post. The arms and 5 feet of the post from top have been painted white, the rest red. 1885-86.	16 24 41' 40"	81 59 53' 67"	feet * 19	902
Yanagakõnda h.s. <i>Yanagaconda</i> ...	Kurnool	On a small isolated hill about $1\frac{1}{2}$ miles N. by W. of Rávipád, $\frac{1}{2}$ a mile N.E. of Kandulapuram a little S.E. of the high road from Cumbum to Guntúr, and $2\frac{1}{2}$ miles N.E. of Cumbum town: táluk Cumbum. 1812.	15 36 4' 79"	79 11 11' 75"	...	292 293
Yanam Church ...	French Settlement	Belfry of the church in the town of Yanam (Yanáon). 1885-86.	16 43 41' 6"	82 15 24' 6"	...	974
Yëddamura Hill Platform <i>Yeddamoora H.</i> ...	Cuddapah	On a peak on an extensive range of hills, about 4 miles nearly N. of the Doranala Kanama Pass on the road from Cuddapah to Nellore, $6\frac{1}{2}$ miles E. of Badvel town on the above named road, and $3\frac{1}{2}$ miles W. of the village of Chabol: táluk Badvel. 1812.	14 45 1' 6"	79 12 40' 2"	...	397
Yëdlagattu, LVII ...	Godávári	<i>Vide page 14—E.</i> ...	17 1 12' 49"	81 22 44' 51"	$\frac{567}{3' 0}$	73
Yëdúr Lanka Tree Flag ...	"	On a big tree on the island, about 2 miles S.E. of Yanam a town in the French Settlement. 1884-85.	16 42 22"	82 16 52"	...	977 978
Yëlagalakõnda Platform <i>Nullagoortippa</i> ...	Cuddapah	On one of a group of small hills, about $3\frac{1}{2}$ miles W. of Rájampet Railway Station on the line from Bombay to Madras, and 1 mile S.E. of the village of Srirangarazupuram: táluk Pullampet. 1812.	14 10 58' 8"	79 8 52' 1"	...	499 500
Yelchúr Hill Pagoda <i>Yailchoor H.P.</i> ...	Kistna	On the brow of a small isolated hill immediately S. of the village of this name, and about $\frac{1}{2}$ of a mile N.W. of the junction of the roads from Vinukõnda, Madras and Rájápet: táluk Narsaraõpet. 1812.	16 4 29' 9"	79 58 10' 7"	...	258
Yelesvaram Hill Pagoda <i>Yalaisarum P.</i> ...	Nizam's Territory	About $\frac{1}{2}$ a mile N.W. by N. of the village so called on the road to Machërla. 1821.	16 29 15' 1"	79 14 54' 3"	...	222 223
Yëllammagúdëm Fort <i>Yellamgoodium</i> ...	"	Single, high and square turret of the fort so called. 1821.	16 46 41' 7"	79 13 49' 3"	...	128
Yëllápur Hill Mark <i>Yellapooram</i> ...	"	About a mile E. of the village so called, and $1\frac{1}{2}$ miles W. of Lambapur. The place is also known as Viraswámi. 1821.	16 37 38' 37"	79 14 15' 09"	...	137 138

* To ground level.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Yëllikönda h.s. ... <i>Yellicondah</i>	Kurnool	On a flat hill of a range running nearly N. and S., about 5½ miles S.E. of Rávipád, 8 miles S.E. by E. of the town of Cumbum, 5½ miles N.W. by N. of Nandanavanam village, and 6½ miles W. of Lingam-gunta: táluk Cumbum. The station is denoted by a mark in the centre of a platform. 1812.	15 32 2'08	79 16 4'44	... <i>feet</i>	363 364
Yëllutladurga Tree <i>Yellootlah Dr.</i>	Cuddapah	Remarkable tree on the S. point of a large mass of hills, about 3½ miles E. of Siddhavaram village on the main road from Gurrunkönda to Pëddamandëm, and 5 miles N. of the former: táluk Váyalpád. 1812.	13 51 2	78 38 10	...	*
Yëlrúpád s. ...	Nellore	In a field about 120 yards S.W. of the village so called through which the high road to Nellore passes, ¼ of a mile S. by W. of the first bridge on the road N. of the village, 1½ miles N.W. of Chévúr, and 3½ miles S.W. of the large village of Rámapatnam on the sea coast: táluk Kandukúr. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	15 0 55'07	80 2 25'10	74	758
Yëndlúr Fort ... <i>Yendloor</i>	"	S.E. angle of the fort in the village so called, about 2 miles E.N.E. of Santanutalapád village on the high road from Cumbum to Ongole, and 7½ miles N.W. by W. of the latter: táluk Ongole. 1812.	15 33 19'1	80 0 35'9	...	329
Yënnugöndapálëm Platform <i>Yennacondapolliam</i>	Cuddapah	White platform on a small isolated hill at the N. foot of which lies the village so called, about 6 miles E.S.E. of Gurrankönda close to the junction of the roads from Váyalpád and Madanapalle to Cuddapah: táluk Váyalpád. 1812.	13 44 46'1	78 42 53'1	...	563 564
Yerpet, XLIII ...	North Arcot	<i>Vide page 11—E.</i> ...	13 42 56'96	79 36 27'39	$\frac{2229}{1'5}$	52
Yerpet h.s. ... <i>Yarepett H.</i>	"	Near the S.E. extremity of the Eastern Gháts, about 4½ miles N.W. of the village of Yerpet on the main road from Tirupati Railway Station to Vënkata giri, and 10½ miles W. of the town of Kálahasti: samíndári Kálahasti. 1812.	13 44 35'92	79 35 11'42	...	596
Yërragattu, LXVI ...	Kistna	<i>Vide page 15—E.</i> ...	16 40 27'02	80 42 19'42	$\frac{1267}{1'5}$	81
Yërraguntlakota s. <i>Yerragoontlah</i>	Cuddapah	On the N.W. angle of the old ruined fort in the western side of the village so called, about 4½ miles W. by N. of Kodúr Railway Station on the line from Bombay to Madras; a new and larger fort lies to E. of the village: táluk Pullampet. 1812.	13 57 40'77	79 19 1'06	...	506 507
Yërrakönda, XI ...	Kistna	<i>Vide page 7—E.</i> ...	16 5 48'57	79 44 47'31	$\frac{1142}{1'0}$	13
Yërrakönda, XXX ...	Nellore	<i>Vide page 9—E.</i> ...	14 42 39'56	79 17 53'66	$\frac{1819}{2'0}$	39

* For triangles fixing this point, see the Synoptical Volume of the Great Arc Meridional Series, Section 8° to 18°.

CO-ORDINATES AND DESCRIPTIONS OF ALL STATIONS AND POINTS.

185—E.

Name of Station or Point	District	Description	Latitude North	Longitude East of Greenwich	Height of Station — Height of Structure	No. of Triangle
Yërrakönda Hill Platform <i>Yerracondah</i> ...	Cuddapah	About 3½ miles N.E. by N. of the Police station and village of Voblam on the road to Cuddapah: taluk Sid-dhavattam. 1812.	0 1 " 14 33 45'3	0 1 " 79 16 7'7	<i>feet</i> ...	452 458
Yërrakönda h.s. ... <i>Moodumpaud Yerracondah</i>	"	On a conspicuous peak of a short range of hills running E. and W., about 1½ miles W. by N. of Muddampäd village, and 3½ miles S. by W. of the large village of Ráyavaram at the confluence of Báhuda and Pincha rivers: taluk Ráyachoti. 1812.	13 55 51'58	79 1 46'72	...	543
Yërraköndapälém h.s. ... <i>Diggoopolliam Hill Pagoda</i>	Kurnool	On a pagoda on the summit of a hill, about a mile S. of the village so called: taluk Márkápúr. 1821.	16 1 31'68	79 20 24'37	...	247
Zaladanki s. ...	Nellore	On open ground among fields thickly studded with palm trees, about 1½ miles S.E. by E. of Zaladanki village on the road from Udayagiri to Kávali, and 1½ miles S.W. by W. of Búdammagunta. A creek passes 100 yards to S.W. of the station: taluk Kávali. The station consists of a masonry pillar, 3 feet square and 3 feet in height, having its upper surface level with the ground; the pillar contains mark-stones at top and bottom, and is covered over by a mound of earth. 1886-87.	14 52 22'42	79 58 19'35	41	751

August, 1892.

J. ECCLES,

In charge of Computing Office.

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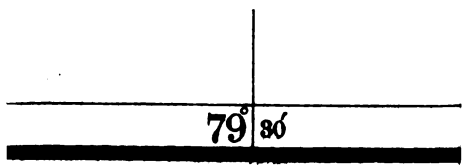
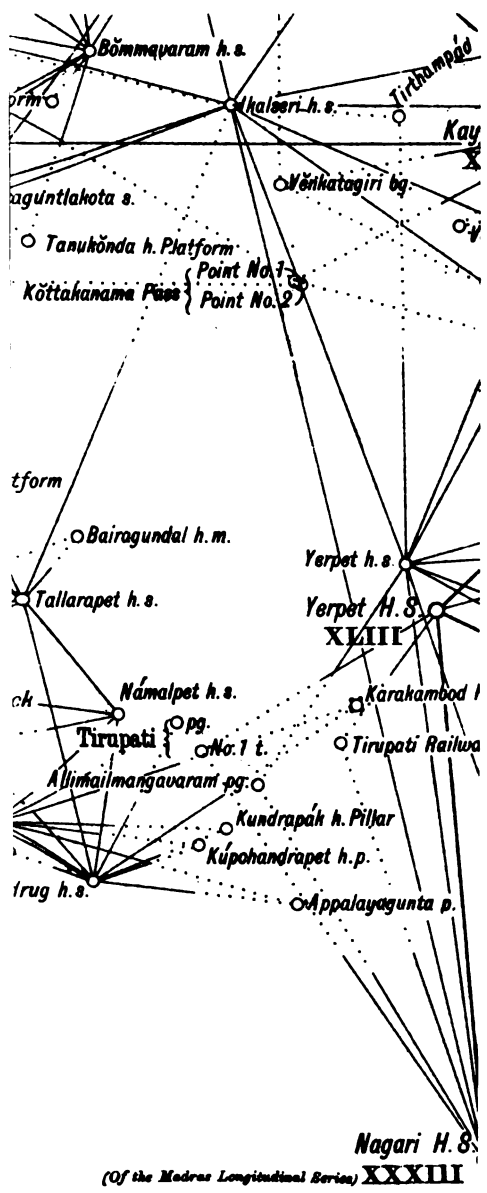
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