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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. W. DEPARTMENT

G.O. No.	3 711 (W)	Press.
B.P. No.		Mis.
Dated	19. 9. 1878	197.

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Not to be folded or roughly handled.

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GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

19th September 1878, No. 3,711 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 228. Docket from the Government of India, Department of Revenue, Agriculture and Commerce, dated Simla, 9th September 1878, No. 334 S.
From Colonel J. T. WALKER, C.B., R.E., Surveyor-General of India, to the Secretary to the Government of India, Department of Revenue, Agriculture and Commerce, Simla, dated Mussooree, 5th September 1878, No. 342 F.

With reference to your endorsement, No. 355, dated the 24th ultimo, giving cover to letter No. 3,051 W, dated the 29th July last, from the Secretary to Government of Madras, Public Works Department, I have the honor to forward a list of bench marks executed by spirit levelling in the South Canara District by the Great Trigonometrical Survey.

GREAT TRIGONOMETRICAL SURVEY OF INDIA.

No. 3, SOUTHERN INDIA.

SPIRIT Levelled Heights in Feet above Preliminary Mean Sea Level* at Mangalore (South Canara, Madras Presidency) of Points in Mangalore.

Number in Section.	Station.	Height in Feet above Preliminary Mean Sea Level.	Position of Levelling Staff.
1	Mangalore, G.T.S. bench mark No. I, on the 4th September from top and 9th from bottom of the Sea Custom-house landing place; 67 feet S.W. by W. of the entrance, and 63 feet N. by W. of the Look-out house on the Mangalore quay or bandar.	3.02	Over the arrow-head between the letters G.T.S. and B.M. engraved on the step. It is nearly 3 feet below the roadway.
2	Mangalore, G.T.S. bench mark No. II, on the W. end of stone door step of the Look-out house (also called Rest-house) on the Mangalore quay or bandar; 63 feet S.S.E. from G.T.S. bench mark No. I, and 87 feet S.W. from the Sea Custom-house entrance.	7.21	Over the arrow-head between the letters G.T.S. and B.M. engraved on the step. It is at about the level of the floor, and is nearly a foot above the roadway or quay level.
3	Mangalore, Municipal Office (1871-72) ...	7.98	Upper step of S. entrance.

* Determined in 1869 by Captain J. P. Basevi, R.E., Deputy Superintendent, 1st Grade, Great Trigonometrical Survey of India, from the mean of high and low water readings extending over a complete lunation.

SPIRIT Levelled Heights in Feet above Preliminary Mean Sea Level* at Mangalore (South Canara, Madras Presidency) of Points in Mangalore—continued.

Number in Section.	Station.	Height in Feet above Preliminary Mean Sea Level.	Position of Levelling Staff.
4	Mangalore, Municipal Office (1871-72) ...	7.38	Lower or first step of S. entrance.
5	Mangalore, Messrs. Alston and Company's Office (1871-72) wall 31 feet S. of West gate-way.	7.11	On plinth of wall.
6	Mangalore, G.T.S. bench mark No. III; a block of hard stone (3'x2'x7.5) imbedded at ground level by S. side of road leading from Municipal Office on the quay towards English Protestant church at S.W. corner of Cantonment Parade ground and nearly half-way between the office and church. Note.—A covering pillar of laterite and mortar has been built over this B.M. for its protection.	40.45	Over the arrow-head between the letters G.T.S. and B.M. engraved on the stone. It is 103 feet W. by N. from nearest point of basement of Port Signal Flagstaff tower (in old Fort) and nearly 20 feet below it; also 130 feet S.W. of nearest corner of building occupied by Government Telegraph Office (1871-72).
7	Mangalore, laterite pillar covering G.T.S. B.M. No. III; marked on northern face by the letters B.M. and an arrow-head.	43.13	On top of pillar.
8	Mangalore, Collector's Office in old Fort...	62.73	On floor of W. verandah, opposite door of Money Order Office (1869).
9	Mangalore, Port Signal Flagstaff tower (in old Fort).	64.62	On floor or base of S.W. arch.
10	Do. do. do. ...	80.01	On top of tower above S.W. arch.
11	Mangalore S. (Station); 200 feet W. of the Idgah, and 45 feet N.E. by E. of the Light-house centre.	175.19	On O engraved in floor of hollow masonry pillar, at 0.56 foot above lowest or ground level mark.
12	Do. do. do. ...	185.95	On O engraved on top of pillar.
13	Mangalore, level of ground near Light-house pillar, around the G.T. Station and Idgah.	174.62	On ground.

* Determined in 1869 by Captain J. P. Basevi, R.E., Deputy Superintendent, 1st Grade, Great Trigonometrical Survey of India, from the mean of high and low water readings extending over a complete innation.

† Note.—The value of this height as brought up by the triangulation from Madras, in terms of Department Public Works value of a bench mark in the ditch at N. gate of Fort St. George, is 198 feet.

MUSCOOREE,
4th September 1878.(Signed) D. H. E. HENNESSEY,
Dy. Supt., 1st Grade, Survey of India,
In charge Head-quarter's Office.

Copy forwarded to the Government of Madras, with reference to their letter, No. 3,051 W, dated the 29th July last.

(By Order.)

(Signed) C. J. LYALL,
Under Secy. to the Govt. of India.

No. 229. ORDER THEREON, 19th September 1878, No. 3,711 W.

COMMUNICATED to the District Engineer, South Canara.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Govt., P.W.D.

(True Copy.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the District Engineer, South Canara.

Exd. E. C. Shunker.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1878) Madras.
PUBLIC WORKS.

THE DISTRICT ENGINEER
SOUTH CANARA.

Drawn by J. P. Basani.

Scale.

Color.

G. L. 2nd September 1878, No. 551 W.

RECEIVED

No. 551-220.

List of Bench Marks - South Canara.
Landing on the South Canara Coast.
Taken from Government of India with the
permission of the District Engineer.

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Great Trigonometrical Survey of India
No. 3. Southern India.
Spirit Levelled Heights in feet, above Preliminary
Mean Sea level * at Mangalore (South Canara,
Madras Presidency), of points in Mangalore.

Number in Section.	Station	Height in feet above Preliminary Mean Sea level	Position of Leveling Staff
1	Mangalore, G. T. S. Bench on Mark P. I. on the 4 th step from top and 9 th from bottom of the sea Custom house landing place, 67 ft S.W. by 6 ft of the entrance, and 63 feet N. by W. of the Look-out house on the Mangalore Quay or Bander.	3.02	Over the arrow-head between the letters G. T. S. and P. I. en- graved on the step. It is nearly 3 feet below the Roadway
2	Mangalore, G. T. S. Bench Mark No. II, on the W. end of stone door step of the Look-out house (also called Rest house) on the Mangalore Quay or Bander, 63 feet S.W. by from G. T. S. B. M. No. I and 87 feet S.W. from the sea Custom house entrance.	7.21	Over the arrow-head between the letters G. T. S. and P. I. en- graved on the step. It is at about the level of the floor, and is nearly a foot above the road- way and Quay level.

* Determined in 1869 by Captain J. P. Basani, R. C. deputy Super-
intendent, Great Trig. Survey of India, from the mean of high and low
water readings extending over a complete lunation.

- | | | | |
|----|---|-------|--|
| 3. | Mangalore, Municipal Office (1871-72). | 7.98 | Upper step of S. entrance. |
| 4. | Do ————— | 7.38 | Lower or first step of S. entrance. |
| 5. | Mangalore, Mep's Station & Co's Office (1871-72) wall 31 feet S. of West gateway. | 7.16 | On plinth of wall. |
| 6. | Mangalore, G. S. Bench-Mark No. III, a block of hard stone (3' x 2' x 1.5') imbedded at ground level by S. side of road leading from Municipal Office on the Quay towards English Protestant Church at S.W. corner of cantonment Parade ground and nearly halfway between the office and church. Note: a covering pillar of laterite and mortar has been built over this B.M. for its protection. | 40.45 | Cover the arrow-head between the letters G. S. and B. M. engraved on the stone. It is 103 feet W. by N. from nearest point of basement of Port-Signal & Flagstaff tower (in old Fort) and nearly 20 feet below it; also 130 feet S.W. of nearest corner of building occupied by Govt. Telegraph-Office. (1871-72)... |
| 7. | Mangalore, Laterite pillar covering G. S. B. M. No. III, marked on northern face by the G. S. B. M. and an arrow-head. | 43.13 | On top of pillar. |
| 8. | Mangalore, Collector's Office in old Fort. | 62.73 | On floor of W. verandah of private door of money order office, (1869). |

- | | | | |
|-----|--|--------|--|
| 9. | Mangalore, Port-Signal Flagstaff tower (in old Fort). | 64.62 | On floor or base of S.W. arch. |
| 10. | Do ————— | 80.01 | On top of tower above S.W. arch. |
| 11. | Mangalore S. (Station), 200 feet W. of the Idgah, and 45 feet N. E. by E. of the light house centre. | 175.19 | On engraved in floor of hollow masonry pillar, at 0.56 feet above lowest or ground level mark. |
| 12. | Do ————— | 185.95 | On engraved on top of pillar. |
| 13. | Mangalore, level of ground near light-house pillar, around the G. S. station and Idgah. | 174.62 | On ground. |

*Note.— The value of this height as brought up by the triangulation from Madras, in terms of department Public Works Value of a Bench-Mark in the ditch at N. gate of Fort St. George, is 196 feet.

S. D. H. & Hennessy

Mysore. }
4th Sept. 1878

By Super. 1st grade, Survey of India
Exchange Road Quarters Office.

No.

N^o 384. (Surveys)

Department of Revenue, Agriculture and Commerce,
Simla, the 9th September 1878.

Copy forwarded to the Government
of Madras with reference to their letter
N^o 3051 W. dated the 29th July last.

By Order,

Chas. W. L. L.

Under Secretary to the Gov^t of India.

W. 10532/22

N^o 342

Surveyor General's Field Office
Mysore, dated 5th September 1878.

From,

Colonel J. I. Walker, C. B., R. E.,
Surveyor General of India

To
The Secretary to the Government of India,
Dept^t of Revenue, Agriculture and Commerce
Simla

Sir,

With reference to your endorsement
N^o 355 dated the 24th ultimo, giving cover to letter
N^o 3051 W. dated the 29th July last, from the
Secretary to Government of Madras, Public
Works Department, I have the honour to
forward a list of Bench Marks executed
by spirit levelling in the South Canara
district by the Great Trigonometrical Survey.
I have &c

Yours faithfully,
Col. J. I. Walker C. B., R. E.,
Surveyor General of India

3050 W- 29-7-78
3051

J.B. 1898 22/10

Vⁿ 10592

Recd - 21st Sept

E.I.

No 3711 W 719 Sept 78

Communicated to
the District Engineer
South Canara.

Oct 19/9

O.L. Shree 62 Sept.

L.E. S. Canara

Recd - 1-10-78
3-10-78

10592

Govt. of (1878) Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O. 19th Sept. 1878. No. 3711r

No. 228 0229.

List of Bench Marks created
by spirit levelling, in the South
Canara District.

Letter from Govt. of India
with the — Communicated to
the D.S. S. Canara.

Intd. W. B. S.

P. H. Shree 07 Sept.

Re. abt. 10-11