

(1) Number of pages 18

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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.
B.P. No.

424

Press
Mis.

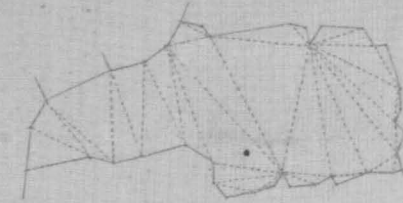
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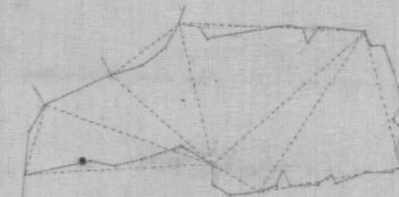
107

Not to be folded or roughly handled

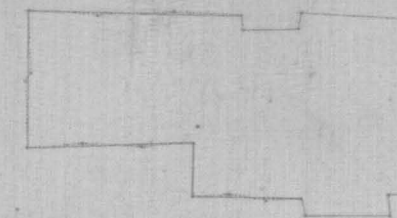
424
6
Showing present system of measurement of Fields



Showing proposed system of measurement for very irregular wet fields limiting Offsets to 50 links



424 074 424
Shewing result of equalising bends less than 10 links



	Taks Stones	
Result of Demarcating every bend however small...	25	27
Proposed System of equalising 10 link bends...	13	15
Saving on the above..	12	12
	Acres Decs.	
Area According to actual Boundary..	4	20
Do. by equalising bends...	4	20
Difference...	0	00

Shewing result of equalising bends less than 20 links



	Taks Stones	
Result of Demarcating every bend however small...	25	27
Proposed System of equalising 20 link bends...	14	16
Saving on the above..	11	11
	Acres Decs.	
Area According to actual Boundary..	9	78
Do. by equalising bends...	9	78
Difference...	0	00

N. B.—Bends that have been equalised are shown by a fine dotted line

06065/76
1830-1-77/1834

424
3

No. 1,386.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 26th May 1876.

Read the following letter from Colonel F. J. B. PRIESTLEY, Superintendent of Revenue Survey, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Chepauk, 3rd May 1876, No. 1,282-51:—

I HAVE the honor to report, for the information of the Board of Revenue, that experiment on a small scale has been so successful that I purpose trying on a more extended one a modification of our present field measurement and demarcation lately suggested by District Officers.

2. The main features of the change are confining stone demarcation chiefly to the four corners of each field and fixing by offsets the minor irregularities of field boundaries.

3. The saving in material to ryots and labor in the field will be considerable. In the villages experimented on the saving has been between 20 and 30 Rupees per square mile without any sacrifice of accuracy.

REFERRED to the Director of Revenue Settlement for any remarks he may wish to offer.

(A true Copy and Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

To the Director of Revenue Settlement.

Copy to the Superintendent of Revenue Survey.

Exd. J. Tulloch.

2
28065/76

424
4

424
7

No. 2,004.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 7th August 1876.

Read the following letter from C. RUNDALL, Esq., Acting Director of Revenue Settlement, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Madras, 15th July 1876, No. 2,797-75:—

With reference to Board's Proceedings, No. 1,386, of 26th May, referring for my remarks Colonel Priestley's proposition of trying on a more extended scale a modification of the present system of demarcation and field measurement, I have the honor to state I find from particulars of the proposed alterations furnished by the Superintendent, Revenue Survey, that it is only proposed to omit the marking of bends between the corners of fields with stones, where there may be visible boundaries, either natural or artificial. Under these circumstances, the limits of each survey field will, I consider, be identified as readily in most cases as at present, for stones will only be dispensed with on bends between fields. Where no recognizable boundaries exist, stones will be placed as at present, and the limits of roads, streams, channels, and poremboke numbers generally will be marked with stones as formerly.

2. The saving will mainly effect the demarcation of wet land when at present intricate; and I would suggest that the experiment be fully tried, as it promises to materially facilitate survey operations without sacrificing accuracy.

3. The change will leave much to the discretion of survey demarcators as to what may be regarded as visible boundaries, and it will be necessary to insist that only field banks or other boundaries of a permanent and lasting character are to be so treated. Ridges that easily disappear, as are ploughed up and constantly reconstructed should not be so viewed.

4. I would propose that, in the case of clubbed fields, the point at which the limits of the interior holdings may intersect the outer boundary of the field should always be marked by a stone, whether a bend or not. This change is necessary as a guide to the settlement subordinates hereafter when the measurements of the minor holdings may have to be undertaken. Again, I consider that, if the occupants of land wish their holdings to be marked as formerly, and have stones prepared to fix at each bend, the demarcation should be so performed. The foregoing provisions had the concurrence of Colonel Priestley, and are approved by Colonel Hessey also.

5. I have consulted the Deputy Directors of Coimbatore, Chingleput, and Cuddapah, and the two former advocate the change, whilst Mr. Cox apprehends that the identification of survey fields hereafter will be a matter of difficulty. The letters received are enclosed in original (to be returned) and with care on the part of survey. I do not share the doubt that Mr. Cox entertains as to the result of the proposed change.

6. The system of measuring the bends between corners as offsets will render the renewal of the outer boundaries of numbers somewhat less complicated than at present. It will be practicable to fix the points without measuring the whole number.

1876.	
BOARD OF REVENUE, MADRAS.	
PROCEEDINGS, 26th MAY 1876, No. 1,386.	Encl.
Received	
O 6065/76	
MAY. No. 1,386.	
Field Measurement and Demarcation.— Referring to Director of Revenue Settlement for remarks certain modification proposed by Super- intendent of Revenue Survey in present system of —.	

ENCLOSURE No. 1.

From H. F. CLOGSTOUN, Esq., Acting Deputy Director of Revenue Settlement, Coimbatore, to C. RUNDALL, Esq., Acting Director of Revenue Settlement, dated Caroor, 9th June 1876, No. 195-77.

In reply to your endorsement on Proceedings of the Board of Revenue, No. 1,386, of the 26th May, I have the honor to state that I cordially welcome in the interests of the ryots the modification in the present system of demarcation proposed by the Superintendent of Revenue Survey.

2. The plan of demarcating with stone the corners only of fields, as opposed to mere bends in the boundary lines, has already been introduced into Salem, and the corners only of fields will be demarcated in the taluqs of Namcal, Salem, and Ahtoor. This modification was introduced at Mr. Puckle's suggestion as a means of cheapening to the ryots the redemarcation work ordered in the Talaghaut Taluqs of that district. It will enable a demarcation, quite sufficiently perfect for all revenue requirements, to be completed in these three taluqs with an expenditure of 152,913 stones less than would have been necessary under the regular system, the saving to the ryots in mere material, exclusive of labor, being not less than Rupees 20,000. The ryots, who are the parties interested in having a correct demarcation of the bends of their holdings, will, I know by experience, gladly forego the little additional security that a stone demarcation would give them in these portions of their fields in consideration of the saving in expense which will thereby be obtained.

ENCLOSURE No. 2.

From J. H. M. COX, Esq., Deputy Director of Revenue Settlement, Kistna, Kurnool, and Cuddapah Districts, to C. RUNDALL, Esq., Acting Director of Revenue Settlement, dated Cuddapah, 15th June 1876, No. 500-205.

I HAVE the honor to offer the following remarks called for in your endorsement of the 7th instant, No. 2,300-214, on the modifications proposed by Colonel Priestley to be made in the present system of field demarcation.

2. I observe from the detailed instructions received with your subsequent Proceedings of the 10th instant, No. 2,352-226, that, as a rule, stones should only be placed at the four corners of a field except where a bend in the side exceeds a distance of one Gunter's chain (66 feet) from the line drawn direct from one field stone to another, and this only where the field has no visible boundaries (natural or artificial). By artificial boundary I presume is meant an ordinary ridge, which is, as you are aware, any thing but a reliable boundary changing every year with the caprice of the cultivator.

3. While it has all along been one of the things which the officers of this department, or at any rate, of the party in which I have always worked, have aimed at to be careful to define clearly the limits of the ryots' holdings in order to prevent any future disputes which the provisions of the Boundary Act seemed to require, the introduction of the survey rule to ignore all bends within 5 feet has opened the way to numerous complaints of the bends belonging to one ryot being included in the holding of another, and the extension of this rule as now proposed will only tend to make matters worse.

4. It appears to me that the change is made entirely with a view to lessen the cost of demarcation and survey, the object of demarcation as far as the Revenue authorities and the ryots are concerned being entirely ignored, and, if the course now proposed is adopted, I anticipate a great complication in the accounts, and I do not at all see where the work of sub-dividing survey fields and measuring interstitial holdings, which has fallen on us between the time of survey and introduction of settlement, will end. Already it has acquired more formidable dimensions than was anticipated, and a further laxity in defining the proper limits of fields will only tend to make matters worse in this respect. How is a man to know that any particular bend has been included in the area of his field when it has not been so demarcated?

5. I venture to suggest that this is a subject in which the opinion of the Revenue authorities should also be consulted as it will materially affect them when complaints come up about boundaries after we have retired from the field.

ENCLOSURE No. 3.

From Major C. J. STUART, Acting Deputy Director of Revenue Settlement, Chingleput Party, to C. RUNDALL, Esq., Acting Director of Revenue Settlement, dated Poonamallee, 23rd June 1876, No. 293-155.

With reference to your endorsement of the 7th instant, No. 2,300-187, on Board's Proceedings of the 26th ultimo, No. 1,386, calling for any remarks I may have to make on the modification proposed by the Superintendent, Revenue Survey, on their present mode of measurement and demarcation, I have the honor to state that I understand by the rules forwarded with your Proceedings, No. 2,352-196, that the survey officers propose confining stone demarcation chiefly to the four corners of each field and to bends on such exceeding a distance of one Gunter's chain from a line drawn direct from one field stone to another when no artificial or natural boundaries exist on the ground. Bends in boundaries with ridges or bunds are to be treated as hitherto, except such as come within 5 feet of the chain line which will be ignored as usual. The only difference therefore in the contemplated change seems to be the marking by stones of bends only when they exceed a Gunter's chain in fields that have no natural or artificial boundaries, and these will occur mostly in dry cultivation, so that there is no reason to suppose that from a revenue point of view the course proposed is objectionable, as by reference to the survey places any disputes that may arise hereafter can be adjusted without any difficulty. As the survey carry on now the demarcation and survey combined by the modification proposed commends itself as being more expeditious and economical meeting the technical requirements of the department without sacrificing accuracy.

BEFORE submitting the question of the proposed modification of the existing method of field measurement and demarcation for the orders of Government, the Board desire to have more definite information as to the exact nature of the change proposed and as to the results of the experiments which have been made.

(True Copies and Extract.)

(Signed) C. A. GALTON,
Acting Secretary.

To the Director of Revenue Settlement, with three original enclosures returned.

Copy to the Superintendent of Revenue Survey.

Exd. A. Grubert.

1876.

Board of Revenue,
MADRAS.

PROCEEDINGS, 7TH AUGUST 1876, No. 2,004.

Encl.

AUGUST.
No. 2,004.

Received

26085/78

Field Measurement and Demarcation.—Desiring to have further information as to exact nature of change proposed in existing method of — and as to results of experiments which have been

No. 3,146.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 12th December 1876.

Read the following letter from Colonel W. H. HESSEY, Superintendent of Revenue Survey, to H. E. STOKES, Esq., Acting Secretary to the Board of Revenue, dated Chepauk, 1st November 1876, No. 3,351-101.

In letter No. 1,282-51, of 3rd May 1874, Colonel Priestley made mention of a

Reference—Proceedings of the Board of Revenue, No. 1,386, of 26th May 1876, referring to Director of Revenue Settlement for remarks certain modifications proposed by Superintendent, Revenue Survey, in present system of field measurement and demarcation.

Reference—Proceedings of the Board of Revenue, No. 2,004, of 7th August 1876, desiring that more definite information as to the exact nature of the change, &c., should be submitted.

modification of the system of demarcation and survey of fields which had been already given a partial trial, and which he intended trying on an extended scale. The Board in Proceedings, No. 1,386, of 26th May, referred the letter to the Director of Revenue Settlement for any remarks he might wish to offer. In Proceedings, No. 2,004, of 7th August 1876, the Board

desired that more definite information as to the exact nature of the change and as to the results of the experiment which had been made should be submitted.

2. I have the honor to give below in brief the changes contemplated by Colonel Priestley.

I. That offsets from chain lines should be increased from 2 chains (132 feet) to 3 chains (198 feet).

II. That villages should be divided into long and narrow strips by theodolite survey, and those again sub-divided by simple chain lines into sub-divisions of the size ordered by Government.

III. That the tri-junctions and corners of fields only should, in the first instance, be marked with stones; that if however a bend in the side of a field should fall at a greater distance than one Gunter's chain from a line drawn direct from one field stone to another, an additional stone should be placed to mark that bend.

IV. That the field Surveyor should measure from one field stone to the next round the sides of the field, and that he should take offsets to all minor bends not marked with stone; that he should divide the field into two or more triangles as might be necessary, commencing the chain line from, and closing it on, a demarcation stone.

V. That the field Surveyor should, after measuring a field, sketch on the reverse of the page in the field book all the topographical details to be inserted in that field in the map.

3. With regard to the first proposition that the length of offsets from boundary lines should be increased from 2 to 3 Gunter's chains, I have the honor to submit that I am satisfied that the change is perfectly safe under the conditions exacted from the Surveyor.

4. Change No. II, regarding the manner of laying out sub-divisions of villages, is purely a professional detail; it will greatly increase outturn of work.

5. Change III, omitting to mark the minor bends of fields with stone up to 100 links, has been given a fair trial. I do not advocate its continuance.

6. Under the old system, such bends as are within 5 feet from a line between the marks on either side are not marked with stones. When demarcation was begun by this department *every bend*, however small, was marked with a stone. In 1869 Colonel Priestley modified the order as above; I would extend the modification to 10 links (6.6 feet) in wet or garden land and to 20 links (13.2 feet) in dry land. There is a proviso that when small bends between two corners are not marked, care should be taken that the corner stones are so placed that an equal quantity of land is given and taken on both sides of the line. If the Board will be so good as to glance at the accompanying sketch, they will be satisfied that there can be no danger in extending the limit within which bends may be equalised as proposed above; bends of 10 or even 20 links are almost imperceptible on the scale in use.

7. With regard to Change IV, I would adopt the new method of measuring fields only in cases where, in consequence of the very irregular nature of the boundaries of the fields, there is evident gain in labor and time by so doing; I would limit the distance of offsets to 50 links instead of 100 links as proposed by Colonel Priestley. I give a sketch showing the mode of measurement proposed in very irregular fields. In dry land generally the ordinary system of measuring fields in triangles should be adhered to.

8. The Vth change, that field Surveyors should sketch the topographical details of each field on the reverse of the page instead of leaving the details to be entered in the map by a detail Surveyor after the map had been plotted, has been given a trial and has not proved successful. I do not recommend its continuance.

9. In a letter printed with Proceedings of Revenue Board, No. 2,004, of 7th August, Mr. Cox, the Deputy Director of Revenue Settlement, stated that the introduction of the survey rule to ignore all bends within 5 feet had opened the way to numerous complaints. With regard to the above statement, I have the honor to submit that during the last seven years not a single complaint has come to my notice in either the Coimbatore or Madura District where demarcation as Deputy Superintendent. I have made inquiry in Ganjam where the rule has been most largely taken advantage of, and have ascertained that not a single objection has ever reached the Office of No. 6 Party. No complaint has ever been submitted to the Central Survey Office.

10. As the Board are aware, boundary disputes are most common in Ganjam, and in no part of the country are ryots more tenacious of their rights. Had they thought themselves aggrieved, the demarcation officer would have been overwhelmed with petitions.

11. I do not at all agree with Mr. Clogstoun that the ryots in general will Letter, dated 9th June 1876, No. 195-77, gladly forego the detailed demarcation of printed with Proceedings of the Board of their fields. It may be so in Salem Revenue, No. 2,004, of 7th August 1876. where the original demarcation was not strictly in accordance with field boundaries. It certainly is not the case in Coimbatore or even in Ganjam where the fields are very small and irregular and where the cost of demarcation is therefore large. In Coimbatore the feeling in favor of detailed demarcation is so strong that at the request of those concerned, I have been induced to order that all the bends which had been marked with earthen mounds only in the villages taken up to test the new system should be marked with stone.

ENCLOSURES Nos. 1 and 2.—Two sets of Maps.

ENCLOSURE No. 3.—Receipt.

In this letter, the Superintendent, Revenue Survey, gives the further information called for by the Board regarding the changes that he proposes making in the mode of measurement, and these as now modified after experience gained in the field are:— (1) the substitution of a maximum distance of 3 chains for 2 in laying off offsets from chain lines, (2) an improved method of laying out sub-division of villages, and (3) the omission to mark bends in fields up to 10 links in wet and 20 in dry land. The two first changes proposed are merely departmental arrangements to which the Board can take no exception, and the third may be safely adopted if due care be taken in placing the corner stones, since a bend of 10 links cannot be shown in the map, and one of 20 links is but just apparent.

(A true Copy and Extract.)

H. Sturges
Acting Secretary.

To the Secretary to Government, Revenue Department, with two Maps,
and copies of Board's Proceedings, dated 26th May 1876, No. 1,386,
and 7th August 1876, No. 2,004,
the Superintendent of Revenue Survey, with Receipt signed and returned.

Copy to the Director of Revenue Settlement.

Exd. W. J. Lewis.

Proceedings of the Madras Government, Revenue Department,
30th January 1877.

No. 924. Read the following Proceedings of the Board of Revenue, dated 12th December 1876, No. 3,146:—

Read the following letter from Colonel W. H. HESSEY, Superintendent of Revenue Survey, to H. E. STOKES, Esq., Acting Secretary to the Board of Revenue, dated Chepauk, 1st November 1876, No. 3,351-101.

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modification of the system of demarcation and survey of fields which had been already given a partial trial, and which he intended trying on an extended scale. The Board in Proceedings, No. 1,386, of 26th May, referred the letter to the Director of Revenue Settlement for any remarks he might wish to offer. In Proceedings, No. 2,004, of 7th August 1876,

the Board desired that more definite information as to the exact nature of the change and as to the results of the experiment which had been made should be submitted.

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IV. That the field Surveyor should measure from one field stone to the next round the sides of the field, and that he should take offsets to all minor bends not marked with stone; that he should divide the field into two or more triangles as might be necessary, commencing the chain line from, and closing it on, a demarcation stone.

V. That the field Surveyor should, after measuring a field, sketch on the reverse of the page in the field-book all the topographical details to be inserted in that field in the map.

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6. Under the old system, such bends as are within 5 feet from a line between the marks on either side are not marked with stones. When demarcation was

Amended 2-10-77
1/10/77
1/10/77
1/10/77

Dec 1876. Degrass
BOARD OF REVENUE,
MADRAS.

PROCEEDINGS, 12TH DECEMBER 1876, No. 3,146.

Dec 26 1876

Encl.

I would strongly recommend that the proposed modifications be sanctioned. Collectors can be no judges. Can be made as accurate as a chain. It is a nothing and surveying commission of which surveyors are the best judges and guide officers. It is reasonable as the lower number of links cannot be shown on the map.

Perhaps the following order:—

The Govt. accept the modification of the Board of Revenue in the Board of Revenue.

DECEMBER.
No. 3,146.

Field Measurement and Demarcation.—Stating Board's views with reference to letter from Superintendent of Revenue Survey and furnishing further information regarding proposed modification in present system of —

28th January 1877

Amended by the Hon. Secy to Govt. 1-10-77

[Begin concerning the change, proposed regarding which full explanation with some detailed information regarding the system is necessary, the Government desire that the effects of the proposed change on the system of demarcation be ascertained. It will be well to have the Registrar General in charge of the new procedure of the survey department and whether the business be improved, what economical labor, time and money, do not involve a sacrifice of accuracy to some material in the field.]

Amended by the Hon. Secy to Govt. 1-10-77

begun by this department *every bend*, however small, was marked with a stone. In 1869, Colonel Priestley modified the order as above; I would extend the modification to 10 links (6.6 feet) in wet or garden land and to 20 links (13.2 feet) in dry land. There is a proviso that when small bends between two corners are not marked, care should be taken that the corner stones are so placed that an equal quantity of land is given and taken on both sides of the line. If the Board will be so good as to glance at the accompanying sketch, they will be satisfied that there can be no danger in extending the limit within which bends may be equalised as proposed above; bends of 10 or even 20 links are almost imperceptible on the scale in use.

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8. The 5th change, that field Surveyors should sketch the topographical details of each field on the reverse of the page instead of leaving the details to be entered in the map by a detail Surveyor after the map had been plotted, has been given a trial, and has not proved successful. I do not recommend its continuance.

9. In a letter printed with Proceedings of Revenue Board, No. 2,004, of 7th August, Mr. Cox, the Deputy Director of Revenue Settlements stated that the introduction of the survey rule to ignore all bends within 5 feet had opened the way to numerous complaints. With regard to the above statement, I have the honor to submit that during the last seven years not a single complaint has come to my notice in either the Coimbatore or Madura District where I have been in charge of demarcation as Deputy Superintendent. I have made inquiry in Ganjam where the rule has been most largely taken advantage of, and have ascertained that not a single objection has ever reached the Office of No. 6 Party. No complaint has ever been submitted to the Central Survey Office.

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In this letter the Superintendent, Revenue Survey, gives the further information called for by the Board regarding the changes that he proposes making in the mode of measurement, and these as now modified after experience gained in the field are:—(1) the substitution of a maximum distance of 3 chains for 2 in laying off offsets from chain lines, (2) an improved method of laying out sub-division of villages, and (3) the omission to mark bends in fields up to 10 links in wet and 20 in dry land. The two first changes proposed are merely departmental arrangements to which the Board can take no exception, and the third may be safely adopted if due care be taken in placing the corner stones, since a bend of 10 links cannot be shown in the map, and one of 20 links is but just apparent.

(A true Copy and Extract.)

(Signed) H. E. STOKES,
• Acting Secretary.

No. 929.

ORDER THEREON, 30th January 1877, No. 424.

Miscellaneous.

THE Government accept the modifications set out in the Board's Proceedings.

(True Extract.)
(Signed) D. F. CARMICHAEL,
Secretary to Government.

To the Board of Revenue.
„ the Superintendent of Revenue Survey.
„ the Director of Revenue Settlement.

Exd. F. R. Bantleman.

Cash of 1877 300000

To REVENUE.

THE BOARD OF REVENUE,
&c., &c., &c.

Dated January, 30th.

Recd.

Enc.

G. O., 30th January 1877, No. 424.

JANUARY.

Nos. 924-925.

Field Measurement and Demarcation.—Accepting the modifications set out in the Proceedings of the Board of Revenue in the present system of