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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public DEPARTMENT

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Not to be folded or roughly handled

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1186
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No. 277F., dated Mysore, 29th July 1881.

From—LIEUTENANT-GENERAL J. T. WILSON, G.B., R.E., Surveyor General of India,
To—The Secretary to the Government of India, Revenue and Agricultural Dept.

I HAVE the honour to submit the following programme of the field operations of the Survey Department during the ensuing field season, arranged for convenience of reference as nearly as possible in the order adopted in the programme for last field season, given in my No. 292F., dated 30th July 1880.

TRIGONOMETRICAL BRANCH.

(1) *The Madras Party.*

A portion of the funds available for the native establishment of this party, which is now broken up, will be placed at the disposal of the officer in charge of the Tidal and Leveling Party to enable his present native establishment to be increased with a view to the accomplishment of certain lines of level and vertical triangulations which are required for the completion of the principal triangulation in the Bombay Presidency.

(2) *The Bombay Party.*

This party, having completed the principal triangulation of the Eastern Sind Series, will be employed in measuring a base line of verification at the present southern extremity of the Eastern Frontier Series in Tenasserim.

(3) *The Eastern Frontier Party.*

(4) *The Burma Party.*

These parties will be employed with the Bombay Party in the measurement of the base line at Tenasserim, the operation of which will be under the general supervision of Colonel Branfill. The base line will be measured with the Colby apparatus of Compensation Bars and Microscopes, which is described in Volume I of the Account of the Operations of the Great Trigonometrical Survey. Astronomical observations of azimuth and latitude will be taken at both extremities of the line. The principal triangulation of the Eastern Frontier Series will be extended as far to the south as may be possible before the base line is commenced, when all that will be required for the measurement. It is proposed to make a reconnaissance of the coast line from Mergui down to St. Mathew's Island, with a view to the future extension of the triangulation, provided the loan of a steamer can be obtained, as applied for in my No. 263F., dated 22nd instant.

(5) *The Darjeeling Survey Party.*

It has generally been understood that as much of this party as is employed in survey operations in the Darjeeling district would be broken up at the end of the present recess season, the surveyors being either discharged or distributed among the other parties, and that the remainder of the party would be employed in completing the survey of Sikkim. I have, however, been recently informed that at the instance of Major Hutchinson, who has been officiating in charge of the Darjeeling survey during Lieutenant Harman's absence on leave, the Bengal Government have applied to the Government of India for the whole of the Darjeeling hill tracts west of the Teesta to be resurveyed. This application coming at the present time when I had been making arrangements for breaking up the party, is somewhat inconvenient; but I shall be able to arrange for the resurvey provided sufficient time is allowed for its completion by the agency at my disposal.

(6) *The Kattywar and Dutch Survey Party.*

(7) *The Guzerat Survey Party.*

To operate in continuation of the work of last field season.

(8) *The two Economical Parties.*

These parties resumed last season the electrotopographic operations for determinations of differential longitudes. Excellent progress was made, completing the longitudinal arcs connecting Bombay, Hyderabad (Nizam's), Kurrachee, Deesa, Jubbulpore and so on. Next season these operations should be extended eastwards to Calcutta, and the year after to Rangoon.

(9) *The Tidal Leveling Operations.*

To be conducted as hitherto, in continuation of previous procedure. A line of spirit levels will probably be carried from the tidal station at Falmouth Point up to Calcutta, connecting all the tidal stations en route, and furnishing valuable assistance to the Military Surveyors, in the proposed survey of the River Hooghly.

TOPOGRAPHICAL BRANCH.

- (1) *The Gwalior and Central India Survey.*
- (2) *The Khondesh Survey.*
- (3) *The Bhopal and Malwa Survey.*
- (4) *The Mysore Survey.*

To operate in continuation of the work of last field season.

(5) *The Rajputana Survey.*

The party employed on this survey has completed the whole of the large scale surveys of hill cantonments which were required for the Military Department. Colonel Depree reports that the portions of Rajputana which come next for survey are so waste and sterile that it is not desirable to employ more than half the party at one time. I propose therefore to reduce the party to half strength, distributing the surveyors who are not required for Rajputana among the Kohat and other survey parties which require to be strengthened.

(6) *The Garo, Khasi and Jaintia Hills Survey.*

The party employed in these operations, which are mostly geographical rather than topographical, being conducted on the small scales of $\frac{1}{2}$ and $\frac{1}{4}$ of an inch to the mile, has been reduced during the last three years to execute special surveys of waste lands in the district of Sylhet on the scale of 2 inches to the mile. Owing to the excessive difficult nature of the country operated in, these surveys are excessively costly. It appears impossible to reduce the rate below Rs. 250 per square mile. I have therefore recently drawn the attention of the Chief Commissioner to this subject,* with a view to his deciding whether it is desirable that these special surveys should be gone on with. If not, the party should return to its ordinary operations at the commencement of next field season.

* In my No. 242F, dated 12th July, of which a copy is herewith forwarded.

(7) *The Kandahar Survey.*

This survey was commenced last field season, and as much progress was made as was possible, considering the small number of officers and surveyors employed on it had been serving in Afghanistan, and that they were each given special privilege leave of absence for three months on returning to India. Moreover, Major Holdich, the officer in charge, did not long rejoin when his services were placed at the disposal of the Military Department for employment in the expedition against the Malsut. However, a good beginning has been made, and with a little increase in the strength of the party, it is hoped that the survey will be completed in the next field season.

(8) *Southern Afghanistan and Beluchistan.*

The small party which has been employed under Major Beavan in operating wherever opportunities are afforded by the movements of the troops or under escorts furnished by the British officers, should continue to operate as at present.

THE REVENUE BRANCH.

(1) *The Punjab Revenue Survey Party.*

This party should work in continuation of the operations of last field season. In my No. 245F, dated 13th June, I drew attention to the circumstance that most of the work which has been allotted to this party will probably be completed in the next field season, and suggested that the Punjab Government be moved to transfer any revenue survey work, either mauzawar, cadastral or riverain, which may be required in the Punjab, that arrangements may be made for continuing the preliminary operations of triangulation and traversing during the next field season.

(2) *The Revenue-Topographical Survey of the North-Western Provinces.*

This party should complete an area of about 300 square miles in the Meerut District, and commence operations in the Bulandshahr and Aligarh Districts. I think the opportunity should be made use of to survey all riverain areas on the 4-inch scale that may be required in the progress of the survey, as has already been done for the River Gomti. I enclose a copy of a letter No. 172F, dated 20th June, which I wrote to the Secretary to the Government of the North-Western Provinces and Oudh on the subject of the said riverain surveys, but to which I have not yet received an answer.

(3) *Ghazipur Cadastral Survey.*

(4) *Mirzapur Cadastral and Topographical Survey.*

To operate in continuation of the work of last field season. The operations of the Ghazipur survey are approaching completion; I have therefore asked the Government of the North-Western Provinces and Oudh for information as to the next district of which a cadastral survey will be required, in order that the preliminary traversing of boundaries may be commenced, if possible, during the next field season.

(5) *Jaunpur Cadastral Survey.*

To be employed in the proposed survey of the banks of the Hooghly River, as already recommended in my No. 246F, dated 17th June 1881, to your office.

(6) *Hanthawaddy Cadastral Survey.*

(7) *Bassein Cadastral Survey.*

(8) *Tharawaddy Cadastral Survey.*

To operate in continuation of the work of last field season.

(9) & (10) *Deccan Topographical Surveys.*

To operate in continuation.

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1881
GOVERNMENT OF INDIA
REVENUE AND AGRICULTURAL
DEPARTMENT.

SURVEYS.

FROM

THE SURVEYOR GENERAL OF INDIA.

Dated 29th July } 1881.
Recd. 1st August }

No. 277F.
Enclosures
Spare copies

No. 220.
No. 320.

Prags {
D.
N.

SUBJECT.

Programme of the operations of the Survey Department
during the field season of 1881-82.

Govt. Central Branch Press, Simla.—No. 70 H. & A. D.—1881.

*Received 5354-
Public 1881/82*

No. 277F.

FROM

E. C. BUCK, Esq.,

Offg. Secretary to the Government of India,

TO

THE SURVEYOR GENERAL OF INDIA.

Rev. & Agri. Dept.
Surveys.

Simla, the 17th August 1881.

SIR,

In reply to your letter No. 277F., dated the 29th ultimo, I am directed to say that, subject to further orders as to (i) the continuance of the 2-inch survey of waste lands in the Sylhet district in Assam, (ii) the survey of riverain areas in the North-Western Provinces, (iii) the immediate destination of the Jaunpur party, and (iv) the ultimate employment of the Punjab Revenue Survey Party, the Governor General in Council approves of the programme of work for the Survey of India during the season 1881-82.

I have the honour to be,

SIR,

Your most obedient Servant,

E. C. BUCK,

Offg. Secretary to the Govt. of India.

Nos. 277F.

Copy, with copy of the letter to which it is a reply, forwarded to the Local Governments and Administrations entered in the margin for information and guidance, and to the Foreign Department for communication to the Resident, Mysore.

Madras.
Bombay.
Bengal.
North-Western Provinces and
Oudh.

Punjab.
British Burma.
Assam.

Offg. Under Secretary to the Government of India.

The Secretary to the Govt. of Madras.

No.

1881

GOVERNMENT OF INDIA

REVENUE AND AGRICULTURAL
DEPARTMENT.

SURVEYS

1 SEP 81

To

THE SURVEYOR GENERAL OF INDIA.

Nos. 5/1881

Dated Simla, the 17th August 1881.

SUBJECT.

Programme of work for the Survey of India
during the season 1881-82.

G. C. D. Press, Simla, No. 78 R. S. A. D., 1881-82.