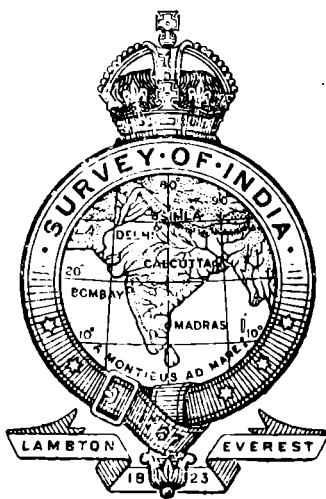


INDEX TO ANNUAL REPORTS
OF THE
SURVEY OF INDIA

1904-5 TO 1926-7



COMPILED BY LT.-COLONEL A. H. GWYN, I.A.

PUBLISHED BY ORDER OF
BRIGADIER H. J. COUCHMAN, D.S.O., M.C.
SURVEYOR GENERAL OF INDIA.

Printed at the Photo.-Litho. Office
Survey of India,
CALCUTTA,
1935.

INDEX TO ANNUAL REPORTS OF THE SURVEY OF INDIA

1904-5 TO 1926-7



COMPILED BY LT.-COLONEL A. H. GWYN, I.A.

PUBLISHED BY ORDER OF
BRIGADIER H. J. COUCHMAN, D.S.O., M.C.
SURVEYOR GENERAL OF INDIA.

Printed at the Photo.-Litho. Office
Survey of India,
CALCUTTA,
1935.

INDEX TO ANNUAL REPORTS

OF THE

SURVEY OF INDIA

From 1904-05 to 1926-27

—:o:—

ABBREVIATIONS:—

- C. G. R. ... Confidential Supplement to the General Report.
T. S. ... Technical Supplement to the General Report.
(including Annual Record Volumes of the
Topographical Survey Circles and Geodetic
Branch, 1922-26).
Rec. ... Records of the Survey of India.
G. R. ... General Report of the Survey of India.
Narr. ... Extracts from Narrative Reports.
Geod. R. ... Geodetic Report.

NOTES.

Information which is common knowledge has been excluded.

Part I, arranged by locality names, contains special information as to local conditions (climate, communications, transport, supplies, labour) and particular surveys.

Part II, information of universal interest.

Record Volumes. In order to save space, published Record Volumes are referred to by number only, but other reports by their dates.

The respective survey years of Record Volumes are as follows:—

Vol. I ...	1909-10	Vol. XIII ...	1917-18
II ...	1910-11	XIV ...	1918-19
III ...	1911-12	XV ...	1919-20
IV ...	1911-13	XVI ...	1920-21
V ...	1912-13	XVII ...	1923
VI ...	1912-13		(Sir A. Stein's maps).
VII ...	1913-14	XVIII ...	1921-22
VIII ...	1865-92	XIX ...	1901-20
VIII(A) ...	1914		(Magnetic Sur- vey).
IX ...	1914-15	XX ...	1914-20
X ...	1915-16		(The War Record).
XI ...	1916-17	XXI ...	1922-24
XII ...	1919	XXII ...	1926
	(Survey of India Maps).		

PART I.**(Arranged by locality names).**

- Abor Country
Rec. IV.
- Aleppo-Euphrates triangulation 1919
Rec. XX, p. 44.
- Allahābād City Traverse
Rec. XVIII, (special reports).
- Amherst District
Rec. 1924-25, No. 21 Party.
- Arakan Coast, General conditions
Rec. XXI, No. 10 Party.
T.S. 1925-26, No. 10 Party.
- Arakan Yoma
T.S. 1924-25, No. 10 Party.
- Assam (Goālpāra and Kāmṛūp)
G.R. 1926-27, p. 74.
- Assam Valley
Rec. III, p. 29—31.
- Attock District—air-photo. cadastral survey
T.S. 1925-26, No. 18 Party.
- Attock District—triangulation for cadastral survey
T.S. 1924-25, Settlement Survey Detachment.
- Attock—Miānwāli tract, labour
T.S. 1924-25, No. 22 Party.
- Bassein District—supplies
Rec. XVIII, No. 21 Party.
- Benares Town Survey
T.S. 1926-27, No. 1 Party.
- Bengal—use of settlement survey traverse
T.S. 1926-27, No. 12 Party.
- Bhutān
Rec. VIII, p. 372—375.
Rec. XXI, p. 31.
- Bhutān frontier country
G.R. 1926-27, p. 74.
T.S. 1926-27, No. 12 Party.
- Burma—Arakan Coast
Rec. XXI, No. 10 Party.
T.S. 1925-26, No. 10 Party.
- Burma—Arakan Yoma
Rec. 1924-25, No. 10 Party.
- Burma—Amherst District
T.S. 1924-25, No. 21 Party.

- Burma—Amherst District, Dawna Hills
Rec. 1925-26, No. 11 Party.
- Burma—Convict labour
Rec. XIII, No. 11 Party.
- Burma—Hkamti Long country
Rec. IV, p. 7.
- Burma—Irrawaddy headwaters
Rec. IV, p. 7.
- Burma—Kachin Khalāsis
T.S. 1925-26, No. 11 Party.
- Burma—Karenni
Narr. 1906-07, p. 138.
Rec. II, p. 17.
- Burma—modern forest survey methods
T.S. 1926-27, No. 21 Party.
- Burma, North (Mission, 1911-12)
Rec. IV.
- Burma—Shan States
Narr. 1905-06, p. 114.
Narr. 1906-07, p. 142.
G.R. 1905-06, p. 21.
G.R. 1906-07, p. 44.
Rec. II, p. 17.
- Burma—Tenasserim River country
Rec. XI, No. 11 Party.
- Chitrāl
T.S. 1926-27, "A" Coy.
- Chittagong 4-inch Forest Survey from air photos
T.S. 1926-27, No. 18 Party.
- Coalfields, Bengal (Jharia)
T.S. 1925-26, No. 4 Party.
- Damascus, Euphrates to—route sketch, 1919
Rec. XX, p. 49.
- Dera Ismail Khān, Air Survey of the Indus at—
Rec. 1925-26, No. 18 Party.
- Dihāng Valley
Rec. IV.
- Dir—Notes on conditions affecting surveys in
T.S. 1926-27, "A" Coy.
- East Africa
Rec. XX, p. 107.
- Euphrates-Aleppo triangulation, 1919
Rec. XX, p. 44.
- Garhwāl
Rec. XVIII, No. 3 Party.
- Garo Hills
T.S. and G.R. 1926-27, No. 12 Party.

- Goālpāra
T.S. and G.R. 1926-27, No. 12 Party.
- Hkamti Long country
Rec. IV, p. 7.
- Hukawng Valley
Rec. XVIII, No. 10 Party.
- Hunza
Rec. III, p. 59.
Rec. VI.
- Hunza—Visser Expedition
G.R. 1925-26.
- Hunza—The Montagnier expedition (Sheets 42 L and P)
T.S. 1926-27 'A' Coy.
- Hyderābād State
T.S. 1925-26, No. 6 Party.
T.S. 1926-27 „ 6 „
- Indus at Dera Ismail Khān—air-photo. survey
T.S. 1925-26, No. 18 Party.
- 'Irāq
C.G.R. 1925-26, paras. 6 to 14.
- 'Irāq and Persia—wireless longitudes in war
Rec. XX, p. 28, 73.
- 'Irāq—Settlement surveys
Rec. XX, p. 54.
- 'Irāq—Spelling of names
Rec. XX, p. 13.
- 'Irāq—Surveys during the war
Rec. XX.
- Irrawaddy Delta, air survey
Rec. XXI.
- Irrawaddy Delta—Supplementary plane-tabling over air survey
T.S. 1926-27, Burma Circle and No. 10 Party.
- Jharia Coalfields, Bengal
Rec. 1925-26, No. 4 Party.
- Kāgān Valley, N. W. F.
T.S. 1925-26, "A" Coy.
- Karenni
Narr. 1906-07, p. 138.
Rec. II, p. 17.
- Khāsi and Jaintia Hills
Rec. XIV, No. 12 Party.
- Khewra Salt Mine Survey
G.R. 1917-18, No. 15 Party.
- Kumaun Hills
Rec. XVIII, No. 3 Party.
- Lebong Cantonment Survey
Rec. III, p. 32.

- Madras**—Revenue Survey maps, use of and errors in
 Rec. XXI, No. 7 Party.
 T.S. 1926-27, Nos. 7 & 8 Parties.
- Manipur State**
 G.R. 1921-24, No. 12 Party.
- Mergui Archipelago**
 Rec. XI, No. 11 Party
- Mergui District**
 Rec. X, XIII & XV, No. 11 Party.
- Mesopotamia**—see 'Irāq.
- Miānwālī tract**—labour in
 T.S. 1924-25, No. 22 Party.
- Miri country**
 Rec. IV, p. 81.
- Mishmi surveys, 1911—13**
 Rec. IV.
- Muzaffargarh District**—supplies in
 Rec. XV, Sind Sāgar Party.
- Naga Hills**
 G.R. 1921—24, No. 12 Party.
- Nasik (Point)**—Forest Survey
 T.S. 1925-26, S. Circle.
- Nepāl**
 Rec. 1924-25, Nepāl Detachment.
- Nepālese Khalāsia, for N. E. Frontier**
 Rec. IV, p. 78.
- North-East Frontier**
 Rec. IV.
- North-East Frontier (Sadiya Frontier Tract)**
 T.S. 1924-25 } Sadiya Frontier Detachment.
 „ 1925-26 }
- North-Western Trans-frontier** — special difficulties as regards air
 photos and air surveys.
 C.G.B. 1926-27, para. 13.
- Orissa Feudatory States**—transport
 T.S. 1923—25, No. 9 Party.
- Pāmīre (Indo-Russian triangulation)**
 Rec. III, p. 59
 „ V, p. 47
 „ VI.
- Pāmīre**—supplies
 Rec. VI, p. 25.
- Persia (Kermānshāh)**—wireless longitude in war
 Rec. XX, p. 28—73.
- Persia, North East**—surveys in winter
 C.G.B. 1918-19 para. 5.
- Persia, South-West (1/M 10 & 17)**
 C.G.B. 1919-20 paras. 2, 11.

- Madras—Revenue Survey maps, use of and errors in
 Rec. XXI, No. 7 Party.
 T.S. 1926-27, Nos. 7 & 8 Parties.
- Manipur State
 G.R. 1921-24, No. 12 Party.
- Mergui Archipelago
 Rec. XI, No. 11 Party
- Mergui District
 Rec. X, XIII & XV, No. 11 Party.
- Mesopotamia—see 'Irāq.
- Miānwāli tract—labour in
 T.S. 1924-25, No. 22 Party.
- Miri country
 Rec. IV, p. 81.
- Mishmi surveys, 1911—13
 Rec. IV.
- Muzaffargarh District—supplies in
 Rec. XV, Sind Sāgar Party.
- Naga Hills
 G.R. 1921—24, No. 12 Party.
- Nasik (Point)—Forest Survey
 T.S. 1925-26, S. Circle.
- Nepāl
 Rec. 1924-25, Nepāl Detachment.
- Nepālese Khalāsis, for N. E. Frontier
 Rec. IV, p. 78.
- North-East Frontier
 Rec. IV.
- North-East Frontier (Sadiya Frontier Tract)
 T.S. 1924-25 } Sadiya Frontier Detachment.
 „ 1925-26 }
- North-Western Trans-frontier — special difficulties as regards air
 photos and air surveys.
 C.G.R. 1926-27, para. 13.
- Orissa Feudatory States—transport
 T.S. 1923—25, No. 9 Party.
- Pāmirs (Indo-Russian triangulation)
 Rec. III, p. 59
 „ V, p. 47
 „ VI.
- Pāmirs—supplies
 Rec. VI, p. 25.
- Persia (Kerimānshāh)—wireless longitude in war
 Rec. XX, p. 28—73.
- Persia, North East—surveys in winter
 C.G.R. 1918-19 para. 5.
- Persia, South-West (1/M 10 & 17)
 C.G.R. 1919-20 paras. 2, 11.

- Persia, South-West—road survey in war
Rec. XX, p. 61.
- Peshāwar and Attock Districts—cadastral survey by air photos
T.S. 1925-26 No. 18 Party.
- Peshāwar District—Settlement survey
T.S. 1926-27, Settlement Survey Detachment.
- Punjab—Cadastral Surveys, modern methods
T.S. 1926-27, No. 22 Party.
- Punjab—modern riverain survey methods
T.S. 1926-27, No. 22 Party.
- Punjab—Inaccuracy of old settlement maps
T.S. 1926-27, No. 22 Party.
- Sadiya Frontier tracts
T.S. 1924-25, } Sadiya Frontier Detachment.
„ 1925-26, }
- Salonika front—surveys
Rec. XX, p. 92.
- Sundarbans
Rec. XVI, No. 9 Party.
- Shaksgam
Rec. XXII.
- Shan States
Narr. 1905-06, p. 114.
„ 1906-07, p. 142.
G.R. 1905-06, p. 21.
„ 1906-07, p. 44.
- Siam frontier (Amherst District)
T.S. 1924-25, No. 21 Party.
- Sinai Peninsula—War surveys
Rec. XX, p. 99.
- Sind (lower)—general conditions affecting surveys in
T.S. 1926-27, No. 24 Party.
- Sind (lower)—transport
G.R. 1925-26, "E" Co.
- Southern India—large-scale surveys of rubber, etc., estates
T.S. 1924-25, No. 7 Party.
„ 1926-27, No. 8 Party.
- Southern Shan States
Rec. II, p. 17.
- South Persia—road survey in war
Rec. XX, p. 61.
- South Tibet
Rec. VIII, pp. 343—345, 354—356, 372—375.
Rec. XXI.
- Sutlej Valley Project—contour charts
G.R. 1924-25, No. 20 Party.
- Sutlej Valley Project—4" topo. Survey
G.R. 1924-25, No. 23 Party.
„ 1925-26, No. 20 Party.

- Sutlej Valley Project—traversing for rectangulation
T.S. 1926-27, No. 23 Party.
- Tenasserim River country
Rec. XI, No. 11 Party.
- Thaton District
T.S. 1925-26, No. 11 Party.
- Tibet (Mt. Everest)
Rec. XVI, p. 107.
- Tibet (southern)
Rec. VIII, pp. 343—345, 354—356, 372—375.
„ XXI, p. 31.
-

PART II.**(Information of universal interest)**

- Accuracy of air-photo. cadastral survey
T.S. 1925-26, No. 18 Party.
- Accuracy of air surveys (Irrawaddy Delta)
Rec. XXI, p. 15.
- Accuracy of forest maps
T.S. 1925-26, No. 21 Party.
- Accuracy of ordinary stand camera survey
Rec. XXI, p. 46.
- Aeroplanes, types of, for photography
T.S. 1925-26, No. 18 Party.
- Air-photo. compilation—Arundel resection method of plotting strips
T.S. 1926-27, No. 18 Party.
- Air-photo. compilation—correcting for tilt
Rec. XXI, p. 14.
- Air-photo. compilation—fair mapping
Rec. XXI, p. 19.
- Air-photo. compilation—from badly-scaled prints, by pentagraph
T.S. 1926-27, No. 18 Party.
- Air-photo. compilation—hills (Chittagong Hill tracts)
T.S. 1926-27, No. 18 Party.
- Air-photo. compilation—indexes and registers
Rec. XXI, p. 16.
- Air-photo. compilation—interpretation of detail on prints
Rec. XXI, p. 15.
- Air-photo. compilation—materials required
Rec. XXI, p. 18.
- Air-photo. compilation—mosaics not used for accurate mapping
T.S. 1926-27, No. 18 Party.
- Air-photo. compilation—Penrose rectifying lantern
T.S. 1926-27, No. 18 Party.
- Air-photo. compilation—plant
Rec. XXI, p. 11.
- Air-photo. compilation—plotting boards
Rec. XXI, p. 14.
- Air-photo. compilation—plotting by Melville-Jones' elastic method
inaccurate.
T.S. 1926-27, No. 18 Party.
- Air-photo. compilation—plotting methods (Chittagong)
T.S. 1926-27, No. 18 Party.
- Air-photo. compilation—scale
Rec. XXI, p. 12.
- Air-photo. compilation—scaling the strips
Rec. XXI, p. 14.

- Air-photo. compilation section, organization
Rec. XXI, p. 16.
- Air-photo. compilation—time required
Rec. XXI, p. 17.
- Air-photo. compilation—verification on the ground
Rec. XXI, p. 20.
- Air photography—camera stabilizer (War, 'Irāq)
Rec. XX, p. 34.
- Air photography—contract for flights
Rec. XXI, p. 23.
- Air photography—flying for
T.S. 1926-27, No. 18 Party.
- Air photography in forest—midday shadows favourable
Rec. XXI, p. 11.
- Air photography—maintenance of correct scale
Rec. XXI, p. 10.
- Air photography—one—direction flying not economical
T.S. 1925-26, No. 18 Party.
- Air photography—Survey stones as control
G.R. 1926-27, p. 42.
- Air photography, trans-frontier, special difficulties
C.G.R. 1926-27, para. 13.
- Air sketching (Beazeley's method)
Rec. XX, pp 30, 32.
- Air survey—accuracy (Irrawaddy Delta)
Rec. XXI, p. 15.
- Air survey, cadastral, Bengal (experimental)
T.S. 1926-27, No. 18 Party.
- Air survey, cadastral (Peshāwar and Attock)
Rec. 1925-26, No. 18 Party.
- Air survey— Chittagong 4-inch forest survey
T.S. 1926-27, No. 18 Party.
- Air survey—control by astronomical observations
Rec. XXI, p. 4.
- Air survey—control by survey stones
G.R. 1926-27, p. 42.
- Air survey—cost of
Rec. XXI, p. 21.
- Air survey—fair mapping
Rec. XXI, p. 19.
- Air survey ('Irāq)—War
Rec. XX, p. 19.
- Air survey of dense forest—control
Rec. XXI, pp. 4, 8, 16.
- Air survey supplemented by plane-tabling
T.S. 1926-27, Burma Circle and No. 10 Party.
Rec. XXI, p. 20.

- Air survey, trans-frontier, special difficulties
C.G.R. 1926-27, para. 13.
- Air survey—triangulation by gunfire ('Irāq)
Rec. XX, p. 19.
- Air survey—typical country for
Rec. XXI, p. 21.
- Air survey—verification on the ground
Rec. XXI, p. 20.
- Artillery—calculations using the "minute mesh"
T.S. 1925-26, "A" Coy.
- Artillery, co-operation with—(Conferences)
T.S. 1925-26, "A" Coy.
- Artillery, triangulation for—(Salonika)
Rec. XX, p. 94.
- Artillery, triangulation for—staff exercise, 1926
G.R. 1926-27, p. 38.
- Arundel resection method of plotting strips, in air surveys
T.S. 1926-27, No. 18 Party.
- Astronomical observations for control of air surveys
Rec. XXI, p. 4.
- Beazeley's method of sketching from aeroplanes
Rec. XX, pp. 30, 32.
- Bench Marks and G. T. Stations, discordances in heights
Rec. 1925-26, No. 24 Party.
- Boat traverses
Rec. XI, No. 11 Party.
" XVI, " 9 "
- Boundary demarcation, from traverse plots
T.S. 1926-27, No. 22 Party.
- Boundary survey—Nepal and Pilibhit
Rec. IX, p. 173.
Nepal and Naini Tal
Rec. V, p. 93.
Turco-Persian
Rec. IX, p. 164.
Imperial Delhi Area
Rec. X, p. 93.
Mysore and South Canara
Rec. XVI, p. 123.
" XVIII, p. 110.
- Cadastral survey (Attock)—triangulation for
T.S. 1924-25, Settlement Survey Detachment.
- Cadastral survey by air photography (Bengal)
T.S. 1926-27, No. 18 Party.
- Cadastral survey by air photography (Peshāwar & Attock)
T.S. 1925-26, No. 18 Party.
- Cadastral surveys (Punjab)—modern methods
T.S. 1926-27, No. 22 Party.

- Camel transport—permanent
T.S. 1926-27, "E" Coy.
- Camera stabilizer, air photography (War, 'Irāq)
Rec. XX, p. 34.
- City surveys—traverse marks and signals
Rec. XVI, (special report).
- City traverse (Benares)—errors in G.T. points
T.S. 1926-27, No. 1 Party.
- Coffee estate, large-scale survey
T.S. 1924-25, No. 7 Party.
- Compilation from ordinary stand-camera photographs
Rec. XXI, p. 43.
- Compilation of air photographs—*see* Air-photo. compilation.
- Compilation of maps in War ('Irāq)
Rec. XX, pp. 10, 18.
- Contour charts for Punjab Irrigation authorities
T.S. 1924-25, No. 20 Party.
- Contouring at 10-foot intervals
T.S. 1925-26, No. 4 Party.
- Contract for air photography
Rec. XXI, p. 23.
- Control, air-photo. cadastral survey (N. W. F. P.)
T.S. 1925-26, No. 18 Party.
- Control for air survey by astronomical observations
Rec. XXI, p. 4.
- Control for air survey, Dera Ismail Khān
Rec. 1925-26, No. 18 Party.
- Control for air survey of dense forest
Rec. XXI, pp. 4, 8, 16.
T.S. 1926-27, No. 18 Party.
- Control for air survey—survey stones
G.R. 1926-27, p. 42.
- Control points for survey by stand camera
Rec. XXI, p. 42.
- Convict labour (Burma)
Rec. XIII, No. 11 Party.
- Co-operation with R.A. (Conference)
T.S. 1925-26, "A" Coy.
- Correcting for tilt, air-photo compilation
Rec. XXI, p. 14.
- Costs of air surveys
Rec. XXI, p. 21.
- Cost of air survey (cadastral)
T.S. 1925-26, No. 18 Party.
- Cost rates, over-all
Rec. XXI, p. 21, 48.
- Country suitable for air surveys
Rec. XXI, p. 21.

- Criticism of Survey of India maps by Burma Forest Deptt.
 T.S. 1925-26, No. 21 Party.
 T.S. 1926-27, Burma Circle.
- Cyclostyle reproduction of maps
 C.G.R. 1907-08, para. 26.
- Demarcating a boundary from traverse plots
 T.S. 1926-27, No. 22 Party.
- Desert—Plane-tabling in Sinai.....
 Rec. XX, p. 99.
- Desert route sketch by motor car ('Irāq)
 Rec. XX, p. 49.
- Detail in air photographs, interpretation of
 Rec. XXI, p. 15.
- Detail in Madras Revenue maps
 Rec. XXI, No. 7 Party.
- Drilling surveyors' squads, rectangulation
 T.S. 1926-27, No. 24 Party.
- Elastic method of plotting air surveys (Melville Jones')
 T.S. 1926-27, No. 18 Party.
- Equipment for rectangulation surveys
 T.S. 1926-27, No. 24 Party.
- Equipment for surveys in high altitudes
 Rec. VI, p. 5.
 Rec. XXII, p. 166.
- Equipment for surveys on N.E. Frontier
 Rec. IV, pp. 49, 72.
- Errors in G.T. points, affecting city surveys
 T.S. 1926-27, No. 1 Party.
- Errors in Madras revenue survey maps
 T.S. 1922-23, No. 7 Party.
- Errors of ordinary stand-camera survey
 Rec. XXI, p. 46.
- Experimental air-photo cadastral survey, Bengal
 T.S. 1926-27, No. 18 Party.
- Fair mapping of air surveys
 Rec. XXI, p. 19.
- Fair mapping on 1" and $\frac{1}{2}$ " scales simultaneously, difficulties
 T.S. 1926-27, No. 12 Party.
 T.S. 1926-27, Southern Circle.
- Fair Sheets—Use of P.T. sections as
 T.S. 1925-26, No. 7 Party.
- Flying for air surveys
 T.S. 1926-27, No. 18 Party.
- Flying for air surveys—gaps
 T.S. 1925-26, No. 18 Party.
- Flying for air surveys—one-direction photography not economical
 G.R. 1925-26, No. 18 Party.

- Flying for air surveys—types of aeroplanes
T.S. 1925-26, No. 18 Party.
- Focal length, (surveying by ordinary stand camera)
Rec. XXI, p. 44.
- Forest air surveys—midday shadows best
Rec. XXI, p. 11.
- Forest maps in Burma—criticized as inaccurate
T.S. 1925-26, No. 21 Party.
T.S. 1926-27, Burma Circle.
- Forest survey from air photographs (Chittagong)
T.S. 1926-27, No. 18 Party.
- Forest surveys and maps (Memorandum)
G.R. 1926-27, Appendix.
- Forest surveys—modern methods in Burma
T.S. 1926-27, No. 21 Party.
- Gaps in air-photo strips
T.S. 1925-26, No. 18 Party.
- Grid (minute mesh) in artillery calculations
T.S. 1925-26, "A" Coy.
- Ground photo surveys (Canadian Method)
Rec. XVI, p. 117.
- Heights by levelling and triangulation, discordances
T.S. 1925-26, No. 4 Party.
- Hilly ground, in air-photo cadastral survey
T.S. 1925-26, No. 18 Party.
- Indexes and registers for air-photo compilation
Rec. XXI, p. 16.
- Instruments for rectangulation surveys
T.S. 1926-27, No. 24 Party.
- Interpretation of detail in air photographs
Rec. XXI, p. 15.
- Khalāsis, for surveys in Eastern Himalayas
Rec. XXI, p. 35.
- Khalāsis from Nepal
Rec. IV, p. 78.
- Labour provided by Tea Gardens, etc., not reliable
T.S. 1926-27, No. 8 Party.
- Large-scale survey in the hills (Lebong)
Rec. III, p. 32.
- Large-scale surveys of rubber, etc., estates
T.S. 1924-25, No. 7 Party.
T.S. 1926-27, No. 8 Party.
- Latitude—Observation of, with astrolabe
Geod. R. I, p. 189.
- Levelling—Results of, for 1858—1908 published as G. T. Vol. XIX
Rec. II, p. 65.

- Levelling—"Forward and Back" double, as recommended by International Conference adopted by Survey of India.
Rec. X, p. 52.
- Levelling—in Mesopotamia
Rec. XIV, p. 62.
- Levelling—Sarda Canal project of
Rec. XVI, p. 59.
- Levelling—Nadia rivers scheme of
Rec. XVI, p. 60.
- Levelling—Sukkur Barrage (Lloyd Barrage) project of
Rec. XVI, p. 60.
Rec. XVIII, p. 64.
Geod. R. III, p. 78.
- Levelling—New net of, to replace the old net (1858—1908)
Rec. XVI, p. 60.
- Levelling—for Sutlej Valley
Geod. R. I, Ch. V.
Geod. R. II, p. 38.
- Levelling—Use of tree bench-marks in
Geod. R. II, p. 67.
- Levelled and triangulated heights, discordance
T.S. 1925-26, No. 4 Party.
- Levelling by topo. party, for 10-foot contours
T.S. 1925-26, No. 4 Party.
- Longitude—Wireless observations by de Filippi Expedition in the Western Kara Koram
Rec. VII, p. 153.
- Longitudes by wireless, 'Irāq & Persia (War)
Rec. XX, pp. 28, 73.
- Magnetic ores, effects on compass
Rec. XIX, p. 21.
- Map compilation in war ('Irāq)
Rec. XX, pp. 10, 18.
- Map reproduction in war ('Irāq)
Rec. XX, p. 18.
- Map reproduction in war (cyclostyle)
C.G.R. 1907-08, para. 26.
- Map supply war, ('Irāq)
Rec. XX, p. 21.
- Marks for city traverse
Rec. XVI, (special report).
- Marshy country—survey in
Rec. XX, pp. 14, 16.
- Mechanical transport in the field
T.S. 1926-27, No. 24 Party.
- Memorandum on Forest surveys and maps
G.R. 1906-07, Appendix.

- Minute mesh, in artillery calculations
T.S. 1925-26, "A" Coy.
- Mosaic boards, air-photo. compilation
Rec. XXI, p. 13.
- Mosaics, in air-photo. compilation
Rec. XXI, p. 12.
- Mosaics not used for accurate air-photo. compilation
T.S. 1926-27, No. 18 Party.
- Motor car route sketch in desert
Rec. XX, p. 49.
- Motor transport in the field
T.S. 1926-27, No. 24 Party.
- Mounting plane-table sections
Rec. III, pp. 15, 18, 23, 26.
- One-direction photography not economical (air surveys)
Rec. 1925-26, No. 18 Party.
- Overlap, in stand-camera surveying
Rec. XXI, p. 42.
- Plane-table sections, methods of mounting
Rec. III, pp. 15, 18, 23, 26.
- Plane-table sections used as fair sheets for photography
T.S. 1925-26, No. 7 Party.
- Plane-tabling in desert—(Sinai)
Rec. XX, p. 99.
- Plane-tabling on $\frac{1}{4}$ -inch scale—outturn (Mishmi 1912-13)
Rec. IV, p. 32.
- Plane-tabling, to supplement air survey
Rec. XXI, p. 20.
- Plotting boards, air-photo. compilation
Rec. XXI, p. 14.
- Plotting by Arundel resection method, air mapping
T.S. 1926-27, No. 18 Party.
- Postpointing, air-photo. cadastral survey
T.S. 1925-26, No. 18 Party.
- Principal point, in stand-camera survey
Rec. XXI, p. 41.
- Quarter-inch survey—outturn (Mishmi 1912-13)
Rec. IV, p. 32.
- Rail transport—special trains
Rec. III, p. 21.
- Range-finder traversing
Rec. IV, pp. 24, 28, 35.
- Rapid 4-inch topo. survey, Sutlej Valley Project
T.S. 1924-25, No. 23 Party.
,, 1925-26, ,, 20 ,,
- Rapid reproduction, by using P.T. sections as fair sheets
T.S. 1925-26, No. 7 Party.

- Rations—Scales for Muhammadans, Gurkhas, etc., in high altitudes
Rec. XXII, p. 165.
- Rectangulation and its traverse—factors affecting out-turn
T.S. 1926-27, No. 24 Party.
- Rectangulation by triangulation
Rec. XIII, Sind Sagār Party.
- Rectangulation—detail of a traverser's work
T.S. 1926-27, No. 24 Party.
- Rectangulation stones should be of good quality
T.S. 1926-27, No. 24 Party.
- Rectangulation survey, instruments and equipment for
T.S. 1926-27, No. 24 Party.
- Rectangulation—traverse should be done well in advance
T.S. 1926-27, No. 24 Party.
- Rectangulation, traversing for—, in the Punjab
T.S. 1926-27, No. 23 Party.
- Rectified mosaics
Rec. XXI, p. 12.
- Rectifying Camera in cadastral survey
T.S. 1925-26, No. 18 Party.
- Rectifying for tilt, cadastral survey
T.S. 1925-26, No. 18 Party.
- Rectifying individual points, air-photo. cadastral survey (Attock)
T.S. 1925-26, No. 18 Party.
- Rectifying lantern, Penrose's, for air photographs
T.S. 1926-27, No. 18 Party.
- Reproduction by using P.T. sections as fair sheets
T.S. 1925-26, No. 7 Party.
- Reproduction of maps in war (cyclostyle)
C.G.R. 1907-08, para. 26.
- Reproduction of maps in war ('Irāq)
Rec. XX, p.18.
- Revenue Survey ('Irāq)
Rec. XX, p. 54.
- Revenue Survey maps, Madras—
T.S. 1922-23, No. 7 Party.
T.S. 1926-27, Nos. 7 and 8 Parties.
- Revision surveys, notes on
Rec. XVIII, (special reports).
- Riverain settlement surveys, methods (Punjab)
T.S. 1926-27, No. 22 Party.
- Road Survey in war (S.W. Persia)
Rec. XX, p. 61.
- Route sketching in E. Africa (War)
Rec. XX, p. 107.
- Rubber, etc., estates—large-scale surveys
T.S. 1926-27, No. 8 Party.

- Salt-mine survey
G.R. 1917-18, No. 15 Party.
- Scale of air photographs, maintenance of correct—
Rec. XXI, p. 10.
- Scale of compilation, air surveys
Rec. XXI, p. 12.
- Scale of surveys in war ('Irāq)
Rec. XX, pp. 7, 18.
- Scaling the strips, in air-photo. compilation
Rec. XXI, p. 14.
- Seasons, most suitable for Himalayan survey
Rec. XXI, p. 36.
- Settlement maps, Punjab, inaccuracies
T.S. 1926-27, No. 22 Party.
- Settlement survey by air photography (Peshāwar and Attock)
T.S. 1925-26, No. 18 Party.
- Settlement survey, 'Irāq
Rec. XX, p. 54.
- Settlement survey maps, Madras—utility of
T.S. 1922-23, No. 7 Party.
- Settlement survey, Peshāwar Dist.
T.S. 1926-27, Settlement Survey Detachment.
- Settlement surveys (riverain), Punjab, modern methods
T.S. 1926-27, No. 22 Party.
- Settlement Survey traverse in Bengal
T.S. 1925-26, No. 4 Party.
T.S. 1926-27, No. 12 Party.
- Signals for traverse in towns
Rec. XVI, (special report).
- Simultaneous mapping on 1" and $\frac{1}{2}$ " scales, difficulties
T.S. 1926-27, Southern Circle and No. 12 Party.
- Sketching from aeroplanes
Rec. XX, pp. 30, 32.
- Special trains for survey parties.
Rec. III, p. 21.
- Specimen contract for aeroplane photography
Rec. XXI, p. 23.
- Spelling of names ('Irāq)
Rec. XX, p. 13.
- Spelling of names (unexplored country)
Rec. XXII, p. 170.
- Stabilizer for aeroplane camera (War, 'Irāq)
Rec. XX, p. 34.
- Stand camera, ordinary, on transfrontier route survey
Rec. XXI, p. 35.
- Stereographic Survey
Rec. XXII, p. 79.

- Stones for Rectangulation surveys, to be of good quality
T.S. 1926-27, No. 24 Party.
- Strip method of compiling air photographs
Rec. XXI, p. 12.
- Strip scaling, in air photo. compilation
Rec. XXI, p. 14.
- Supplementary plane-tabling for air surveys
T.S. 1926-27, Burma Circle and No. 10 Party.
Rec. XXI, p. 20.
- Supply of maps (War, 'Irâq)
Rec. XX, p. 21.
- Surveying by ordinary stand camera (See "Stand Camera")
Rec. XXI, p. 35.
- Surveys in War—Scales
Rec. XX, pp. 7, 18.
- Tilt in air photography,—incidence of
Rec. XXI, p. 10.
- Tilt rectification, air survey
Rec. XXI, p. 14.
T.S. 1925-26, No. 18 Party.
- Topo. survey, 4-inch for Sutlej Valley Project
T.S. 1924-25, No. 23 Party.
T.S. 1925-26, No. 20 Party.
- Town survey (Benares)—difficulties due to errors in G. T. points
T.S. 1926-27, No. 1 Party.
- Town Survey in the hills (Lebong)
Rec. III, p. 32.
- Town Survey—traverse marks and signals
Rec. XVI, (Special report).
- Transport—mechanical, discussion of
T.S. 1926-27, No. 24 Party.
- Transport—Mounting of squads in Tibet
Rec. XXI, p. 32.
- Transport—permanent camel
T.S. 1926-27, "E" Coy.
- Traverse by Bengal Survey Department—utility of
T.S. 1925-26, No. 4 Party.
T.S. 1926-27, No. 12 Party.
- Traversing by boat
Rec. XI, No. 11 Party.
Rec. XVI, No. 9 Party.
- Traverse by range-finder
Rec. IV, pp. 24, 28, 35.
- Traverse—Jaderin, in the Punjab
Narr. 1908-09, p. 116.
- Traverse for settlement surveys in Bengal
T.S. 1925-26, No. 4 Party.
T.S. 1926-27, No. 12 Party.

- Traversing for rectangulation—detail of work
T.S. 1926-27, No. 24 Party.
- Traversing for rectangulation—out-turn
T.S. 1926-27, No. 24 Party.
- Traversing for rectangulation—to be done well in advance
T.S. 1926-27, No. 24 Party.
- Traversing for rectangulation—Sutlej Valley
T.S. 1926-27, No. 23 Party.
- Trestle and Mast—Hunter's, used in triangulation
Rec. XI, p. 41.
- Trestles—for triangulating in deep water
Rec. XXI, p. 5.
- Triangulated and levelled heights—discordance between
T.S. 1925-26, No. 4 Party.
- Triangulation—Adjustment of Burma Quadrilateral
Rec. XI, p. 86; of Burma Heights,
Rec. XIV, p. 96.
- Triangulation along streams in dense forest
Rec. XXI, p. 5.
- Triangulation by gunfire, for air survey ('Irāq)
Rec. XX, p. 19.
- Triangulation for air surveys (Chittagong 4" forest surveys)
T.S. 1926-27, No. 18 Party.
- Triangulation for artillery (Salonika)
Rec. XX, p. 94.
- Triangulation for artillery—staff exercise, 1926
G.R. 1926-27, p. 38.
- Triangulation for cadastral survey (Attock)
T.S. 1924-25, Settlement Survey Detachment
- Triangulation for rectangulation
Rec. XIII, Sind Sāgar Party.
- Triangulation—in Everest Expedition
Rec. XVI, p. 107.
- Triangulation—in the Mayo Salt Mine, Khewra, Jhelum District,
Punjab
Rec. XIII, p. 44; to fix Teramkangri
Rec. II, p. 43.
- Triangulation in war, in absence of topo. surveys
Rec. XX, pp. 9, 30.
- Triangulation—Principal Series,—Kalat long
Narr. 1904-05, p. 113.
Narr. 1906-07, p. 126.
Narr. 1908-09, p. 112.
—North Baluchistan
Narr. 1908-09, p. 113.
Rec. I, p. 24.

Triangulation—Kashmir

Rec. I, p. 25.

Rec. II, p. 41.

—Upper Irrawaddy

Rec. I, p. 29.

Rec. II, p. 40.

—Great Salween

Narr. 1908-09, p. 114.

Rec. II, p. 40.

—Sambalpur

Rec. III, p. 58.

Rec. V, p. 44.

Rec. VII, p. 56.

—Chittagong

Rec. IX, p. 41.

—Madura

Rec. XI, p. 41.

—Manipur Merid.

Rec. X, p. 39.

—Bagalkot

Rec. XI, p. 44.

—Rangoon

Geod. R. II, p. 35.

Geod. R. III, p. 84.

Triangulation, rapid, in 'Irāq (War)

Rec. XX, pp. 7, 14, 44.

Triangulation—Secondary Series-Mawkmai

Rec. I, p. 30.

Rec. II, p. 42.

—Garo hills

Rec. II, p. 43.

—Jaintia

Rec. I, p. 31.

Rec. II, p. 43.

—Khasi hills

Rec. I, p. 31.

—Khāndua

Rec. V, p. 46.

—Indo-Russian

Rec. III, p. 61.

Rec. V, p. 47.

Rec. VI (whole).

—Buldana

Rec. VII, p. 57.

—Naldrug

Rec. VII, p. 57.

—Ashta

Rec. VII, p. 57.

Rec. IX, p. 41.

- Triangulation—Naga hills
 Rec. VII, p. 57.
- Cachar
 Rec. IX, p. 42.
- Kohima
 Rec. IX, p. 42.
- Sind Sagar Doab
 Rec. XI, p. 45.
 Rec. XIII, p. 43.
- Ranchi
 Rec. III, p. 63.
- Bhir
 Rec. III, p. 63.
- Villupuram
 Rec. III, p. 64.
- Bombay Island
 Rec. III, p. 65.
 Rec. V, p. 46.
- Triangulation stations on trestles in deep water
 Rec. XXI, p. 5.
- War, scale of surveys in
 Rec. XX, pp. 7, 18.
- Wild-photo. theodolite—exploration surveys
 Rec. XXII, p. 79.
- Wild theodolite, experience with
 T.S. 1926-27, "A" Coy.
- Wireless longitudes, 'Irāq and Persia (War)
 Rec. XX, pp. 28, 73.
-