
LISTS OF OFFICERS
IN THE
SURVEY DEPARTMENTS
ON THE
1st APRIL 1877.

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Classified List of Officers of the Topographical and Revenue Survey Departments as it stood on the 1st April 1877.

No. sanctioned. No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.
	ADMINISTRATIVE STAFF.			Rs. A. P.	
1	1 Col. H. L. Thuillier, C. S. I., F. B. S.	Surv. Genl. of India and Supdt. of Topographical Surveys ...	...	3,000 0 0	
1	1 Col. D. C. Vaurenen, B. A., P. H.	Dy. Surv. Genl. and Supdt. of Revenue Surveys ...	...	2,265 10 0	Personal allowance Rs. 65-10.
	Capt. R. V. Riddell, B. E., P. H. ...	Asst. Surv. Genl. ...	...	1,440 0 0	Offg. Supdt., Mathl. Inett. Dept., and in charge Lithographic Branch.
2	1 J. O. N. James, Esq. ...	Asst. Surv. Genl. ...	...	1,000 0 0	
2	Capt. J. Waterhouse, S. C. ...	Ditto ...	...	750 0 0	
	TOPOGRAPHICAL SURVEY DEPARTMENT.				
	SENIOR BRANCH.				
	DY. SUPERINTENDENTS.				
	<i>1st grade.</i>				
1	... <i>Salary Rs. 1,600, plus pay proper to Engr. Officers.</i>				
1	1 Lt.-Col. G. C. Depree, S. C., P. H.	Dy. Supdt., 1st grade	In charge No. 4, or N.-E. Division, C. P. Survey ...	1,600 0 0	
	<i>2nd grade.</i>				
2	... <i>Salary Rs. 1,300, plus pay proper to Engr. Officers.</i>				
	Capt. Geo. Strahan, B. E., P. H.	Dy. Supdt., 2nd grade	In charge No. 8, or Nundydroog Division, Mysore Survey ...	1,440 0 0	Temporarily employed in the Imperial Museum.
	Major H. H. Godwin-Austen, S. C., P. H.	Ditto ...	...	...
	<i>3rd grade.</i>				
2	... <i>Salary Rs. 1,000, plus pay proper to Engr. Officers.</i>				
1	1 Capt. R. V. Riddell, B. E., P. H. ...	Dy. Supdt., 3rd grade	On duty at Head Quarters ...	1,440 0 0	Offg. Dy. Supdt., 2nd Grade. See Administrative Staff.
2	Capt. Charles Strahan, B. E. ...	Ditto ...	In charge No. 1, or Gwalior and C. I. Survey ...	1,140 0 0	
	J. O. N. James, Esq. ...	Ditto ...	...	...	See Administrative Staff.
	F. B. Girdlestone, Esq. ...	Ditto ...	...	...	On furlough for 2 years, from 19th October 1874, vide R. A. & C. Dept. Notification No. 9, dated 8th January 1876. Extension for 6 months, in B. A. and C. Dept. No. 574, dated 3rd July 1876. Extended again for 6 months by R. A. & C. Dept. letter No. 113, dated 24th February 1877.
	REVENUE SURVEY DEPARTMENT.				
	SENIOR BRANCH.				
	DY. SUPERINTENDENTS.				
	<i>1st grade.</i>				
3	... <i>Salary Rs. 1,600, plus pay proper to Engr. Officers.</i>				
1	1 Col. H. C. Johnstone, C. B., S. O., P. H.	Dy. Supdt., 1st grade	1st or Dera Ismail Khan District Survey, Punjab ...	1,627 14 0	Rs. 27-14 as personal allowance.
2	2 Lt.-Col. F. C. Anderson, S. C., P. H.	Ditto ...	5th or Banda District Survey, N. W. P. ...	1,627 14 0	Ditto ditto.
3	3 Lt.-Col. A. D. Vaurenen, S. C., P. H.	Ditto ...	2nd or Rohtak and Sirsa Districts Survey, Punjab ...	1,600 0 0	

Classified List of Officers of the Topographical and Revenue Survey

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REVENUE SURVEY DEPARTMENT.					
SENIOR BRANCH—contd.					
DEPUTY SUPERINTENDENTS.					
<i>2nd grade.</i>					
3	... <i>Salary Rs. 1,300, plus pay proper to Engr. Officers.</i>			Rs. A. P.	
	Lt.-Col. R. E. Oakes, s. c., P. H.	Dy. Supdt., 2nd grade	... ..	.....	On furlough, p. a., 2 mos, 24th March 1878.
1	Lt.-Col. J. Macdonald, s. c., P. H.	Ditto	12th or Midnapore Dist. Survey, Bengal	1,327 14 0	Rs. 27-14 personal allowance.
2	R. B. Smart, Esq.	Ditto	7th or Khurda Estate Survey, Orissa	1,200 0 0	
3	Major J. Sconce, s. c., P. H.	Ditto	8th or Western Soane Irrigation Survey, District Sahabad, Behar	1,300 0 0	
<i>3rd grade.</i>					
4	... <i>Salary Rs. 1,000, plus pay proper to Engr. Officers.</i>				
1	Maj. Donald Macdonald, s. c., P. H.	Dy. Supdt., 3rd grade	10th or 1st Deccan Topographical Survey, Bombay	1,166 14 0	Rs. 166-14 Personal allowance.
2	Capt. F. Coddington, s. c., P. H.	Ditto	Doing duty, Head Quarters	1,000 0 0	
3	„ W. Barron, s. c., P. H.	Ditto	4th or Moradabad Dist. Survey, N. W. P.	1,000 0 0	
	Major H. C. B. Tanner, Bombay s. c., P. H.	Ditto	...	.....	On furlough, p. a., for 6 months, from 26th August 1878. Extended for a period of 2 months, 7 days.
4	E. T. S. Johnson, Esq.	Ditto	6th or Eastern Soane Irrigation District Survey, Gya, Behar	1,000 0 0	
TOPOGL. AND REVENUE SURVEY DEPTS.					
SENIOR BRANCH.					
ASSISTANT SUPERINTENDENTS.					
<i>1st grade.</i>					
6	... <i>Salary Rs. 750, plus pay proper to Engr. Officers.</i>				
1	Capt. D. C. Andrew, s. c., P. H.	Asst. Supdt., 1st grade	Cadastral Revision Survey, N. W. P.	1,000 0 0	Offg. 3rd grade Depy. Supdt.
2	„ W. H. Wilkins, s. c., P. H.	Ditto	12th or Midnapore District Survey, Bengal	750 0 0	
3	J. Campbell, Esq.	Ditto	14th or Ganges Dearah Survey, Bengal	750 0 0	
4	Capt. E. W. Samuells, s. c., P. H.	Ditto	12th or Midnapore District Survey, Bengal	750 0 0	
5	„ W. F. Badgley, s. c., P. H.	Ditto	No. 6, or Khasi and Garo Hills Survey	1,000 0 0	Offg. 3rd grade Depy. Supdt.
6	„ J. E. Sandeman, s. c., P. H.	Ditto	On special duty, Darwar and Chota Nagpore Estate Survey	750 0 0	
7	„ T. H. Holdich, B. E., L. S.	Ditto	In charge No. 3, or Central Provinces and Vizagapatam Agency Survey	890 0 0	See Administrative Staff.
	Capt. J. Waterhouse, s. c., P. H.	.....	.....	.....	.....
<i>2nd grade.</i>					
6	... <i>Salary Rs. 600, plus pay proper to Engr. Officers.</i>				
1	H. Horst, Esq.	Asst. Supdt., 2nd grade	In charge No. 2 or Khandesh and Bombay Native States Survey	750 0 0	Offg. in 1st grade. On furlough p. a., 2 mos 24th April 1878. Offg. in 1st grade.
	Capt. H. Lees Smith, s. c., P. H.	Ditto	...	.....
2	H. B. Talbot, Esq., L. S.	Asst. Supdt., 2nd grade	Eastern Soane Irrigation Survey, District Gya, Behar	600 0 0	
3	Capt. J. R. Wilmer, s. c., H. S.	Ditto	In charge No. 5 Topographical Party, Bhopal and Malwa Survey	749 1 6	Rs. 140-1-6 Personal allowance.
4	Captain H. S. Cowan, s. c., P. H.	Ditto	8th or Western Soane Irrigation Survey, District Gya, Behar	749 1 6	Ditto ditto.

Departments, as it stood on the 1st April 1877—continued.

No. sanctioned. No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.
	SENIOR BRANCH—contd.				
	ASSISTANT SUPERINTENDENTS.				
	<i>2nd grade.</i>				
	<i>Salary Rs. 600, plus pay proper to Engr. Officers.</i>				
	<i>Civil Officers—Rs. 400.</i>				
5	Capt. H. S. Hutchinson, s. c., P. H.	Asst. Supdt., 2nd grade	11th or 2nd Deccan Topogl. Survey, Bombay	749 1 6	Rs. 140-1-6 Personal allowance.
6	E. C. Barrett, Esq., H. S.	Ditto	7th or Khurda Estate Survey, Orissa	600 0 0	
7	E. J. Jackson, Esq., L. S.	Ditto	14th or Ganges Dearah Survey, Bengal	600 0 0	
8	Capt. E. H. Steel, s. c., H. S.	Ditto	2nd or Rohtak and Sirsa District Survey, Punjab	624 1 6	Rs. 24-1-6 Personal allowance.
9	„ R. Beavan, s. c., P. H.	Ditto	1st or Dera Ismail Khan Dist. Survey, Punjab	624 1 6	ditto ditto.
10	Lieut. R. G. Woodthorpe, R.E., L.S.	Ditto	No. 6, or Khasi and Garo Hills Survey	670 0 0	
11	„ E. P. Leach, R. E., L. S.	Ditto	In charge No. 7, Topographical Survey, or Rajpootana Survey	670 0 0	
	H. E. Gastrell, Esq., L. S.	Ditto	„ „ „	670 0 0	On sick leave for 1 year from 26th Jan'y 1877.
12	G. H. Cooke, Esq., L. S.	Ditto	10th or 1st Deccan Topogl. Survey, Bombay	600 0 0	Supernumerary.
	<i>3rd grade.</i>				
	<i>Salary Rs. 500, plus pay proper to Engr. Officers.</i>				
	<i>Civil Officers—Rs. 400.</i>				
	Lieut. G. W. Martin, s. c., H. S.	Asst. Supdt., 3rd grade	„ „ „	.....	On furlough, p. a., 2 years from 16th Nov. 1876.
1	Lieut. A. J. C. Scott, s. c., H. S.	Ditto	4th or Moradabad and Budaon Dist. Survey, N. W. P.	500 0 0	
2	„ J. R. Hobday, s. c., H. S.	Ditto	No. 1 Topogl. or Gwalior and Central India, Topogl. Survey	500 0 0	
3 to 6	} Vacant.				
	TOPOGRAPHICAL SURVEY DEPARTMENT.				
	JUNIOR BRANCH.				
	SURVEYORS.				
	<i>1st grade—Salary Rs. 500.</i>				
1	Mr. N. A. Bolletty, L. S.	Surveyor, 1st grade	On duty at Head-Quarters	500 0 0	
8	„ J. F. Baness	Ditto	Chief Draftsman, Head-Quarters Office	600 0 0	Supernumerary.
2	„ A. Chamarett	Ditto	On duty at Head-Quarters Office	500 0 0	(a) Exclusive of Rs. 45 as Presidency house-rent.
3	„ H. J. Bolst	Ditto	No. 1 or Gwalior & C. I. Surv.	500 0 0	
	<i>2nd grade—Salary Rs. 400.</i>				
1	Mr. G. A. McGill, L. S.	Surveyor, 2nd grade	No. 4, or N. E. Divn., C. P. Surv.	400 0 0	
2	„ D. Atkinson	Ditto	No. 5, or Bhopal & Malwa Surv.	400 0 0	
3	„ J. A. Vanderputt	Ditto	No. 4, or N. E. Divn., C. P. Surv.	400 0 0	
4	„ R. W. Chew	Ditto	No. 8, or Nandydroog Division, Mysore Survey	400 0 0	
	<i>3rd grade—Salary Rs. 350.</i>				
1	Mr. A. J. Wilson, L. S.	Surveyor, 3rd grade	No. 2 Topogl. Party, Khandesh and Bombay Native States Survey	350 0 0	
2	„ J. A. May	Ditto	No. 3, or C. P. and Vizagapatam Agency Survey	350 0 0	
3	} Vacant.				

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TOPOGRAPHICAL SURVEY DEPARTMENT.					Rs. A. P.
JUNIOR BRANCH.					
ASSISTANT SURVEYORS—contd.					
<i>4th grade—Salary Rs. 300.</i>					
4	1 Mr. F. Adams	Surveyor, 4th grade...	No. 3, or C. P. and Vizagapatam Agency Survey	300 0 0	
	2 " R. D. Farrell	Ditto	No. 8, or Nundydroog Division, Mysore Survey	300 0 0	
	8 " E. S. P. Atkinson	Ditto	...	...
	3 " M. J. Ogle	Ditto	No. 6, or Khasi and Garo Hills Survey	300 0 0	Subsidiary leave for 1 month from 26th June, and for 1 year to Europe for 1 year from 20th July 1878.
	4 " A. G. Wyatt	Ditto	No. 2, or Khandesh & Bombay Native States Survey	300 0 0	
ASSISTANT SURVEYORS.					
<i>1st grade—Salary Rs. 250.</i>					
9	1 Mr. C. F. Hamer	Asst. Survr., 1st grade	No. 5, or Bhopal & Malwa Surv.	250 0 0	
	2 " C. A. R. Scanlan	Ditto	No. 1, or Gwalior & C. I. Surv.	250 0 0	
	3 " R. Todd	Ditto	No. 7, or Rajpootana and Simla Survey	250 0 0	
	4 " A. Chennell	Ditto	No. 6, or Khasi and Garo Hills Survey	250 0 0	
	5 " C. Tapsell	Ditto	No. 7, or Rajpootana and Simla Survey	250 0 0	
	6 " A. James	Ditto	No. 8, or Nundydroog Division, Mysore Survey	250 0 0	
	7 " T. E. M. Claudius	Ditto	No. 3, or C. P. and Vizagapatam Agency Survey	250 0 0	
	8 " F. Kitchen	Ditto	No. 8, or Nundydroog Division, Mysore Survey	250 0 0	
	9 " W. Stotesbury	Ditto	Ditto ditto	250 0 0	
<i>2nd grade—Salary Rs. 200.</i>					
9	1 Mr. J. A. Barker	Asst. Survr., 2nd grade	No. 8, or Nundydroog Division, Mysore Survey	200 0 0	
	2 " E. A. Wainright	Ditto	No. 5, or Bhopal & Malwa Surv.	200 0 0	
	3 " W. J. Cornelius, L. S.	Ditto	No. 1, or Gwalior & C. I. Surv.	200 0 0	
	4 " W. W. McNair	Ditto	No. 8, or Nundydroog Division, Mysore Survey	200 0 0	
	5 " W. F. Pettigrew	Ditto	No. 3, or C. P. and Vizagapatam Agency Survey	200 0 0	
	6 " P. J. W. Doran, L. S.	Ditto	No. 1, or Gwalior & C. I. Surv.	200 0 0	
	7 " H. T. Kitchen	Ditto	No. 5, or Bhopal & Malwa Surv.	200 0 0	
	8 " A. Cooper	Ditto	No. 3, or C. P. and Vizagapatam Agency Survey	200 0 0	
	9 " J. H. Wilson, L. S.	Ditto	No. 4, or N. E. Divn., C.P. Surv.	200 0 0	Served previously in the Pegu Survey from 21st Jan. 1863.
<i>3rd grade—Salary Rs. 160.</i>					
9	1 Mr. W. H. Lilley	Asst. Survr., 3rd grade	No. 5, or Bhopal & Malwa Surv.	160 0 0	
	2 " W. Robert	Ditto	No. 6, or Khasi & Garo Hills Survey	160 0 0	
	3 " F. E. Warde	Ditto	No. 2, or Khandesh and Bombay Native States Survey	160 0 0	
	4 " C. T. Templeton	Ditto	No. 1, or Gwalior & C. I. Surv.	160 0 0	
	5 " J. McCay	Ditto	No. 3, or C. P. and Vizagapatam Agency Survey	160 0 0	
	6 " W. C. G. Barckley	Ditto	...	...	Special sick leave to Eur. from 6th Apl. 1878 for 8 months; granted extension for 5 months, vide R. A. and C. Dept. No. 720, dated 10th September 1878. Extended again for 6 months, vide R. A. and C. Dept. letter No. 184, dated 21st March 1877.
	9 } Vacant.				
<i>4th grade—Salary Rs. 120.</i>					
8	1 Mr. Geo. Vander Beek	Asst. Survr., 4th grade	No. 3, or C. P. and Vizagapatam Agency Survey	120 0 0	
	2 " W. M. Kelly	Ditto	No. 7 Rajpootana and Simla Survey	120 0 0	
	3 " J. Murray	Ditto	No. 5, or Bhopal & Malwa Survey	120 0 0	
	4 " A. Kitchen	Ditto	Ditto ditto	120 0 0	

Departments as it stood on the 1st April 1877—continued.

No. mentioned, No. existing in each grade.	NAMES.	Substantive Appoint- ment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.
TOPOGRAPHICAL SURVEY DEPARTMENT.					
JUNIOR BRANCH.					
ASSISTANT SURVEYORS—contd.					
4th grade—Salary Rs. 120.					
6	Mr. P. White ...	Asst. Survr., 4th grade	No. 8, or Nundydroog Division, Mysore Survey ...	120 0 0	
6	„ E. Graham, L. s. ...	Proby. Asst. Survr., 4th grade ...	No. 2, or Khandesh and Bombay Native States Survey ...	120 0 0	
7	„ G. L. Fleming ...	Ditto ...	No. 8, or Nundydroog Division, Mysore Survey ...	120 0 0	
8	„ G. R. Copping ...	Ditto ...	No. 5, or Bhopal & Malwa Surv. ...	120 0 0	
9	„ G. A. Knight ...	Ditto ...	No. 8, or Nundydroog Division, Mysore Survey ...	120 0 0	
10	„ Duncan Campbell ...	Ditto ...	No. 3, or Central Provinces and Vizagapatam Agency Survey	120 0 0	
REVENUE SURVEY DEPT. JUNIOR BRANCH.					
SURVEYORS.					
1st grade—Salary Rs. 500.					
2	1 Mr. George Housden ...	Rev. Surveyor, 1st grade ...	1st or Dera Ismail Khan District Survey, Punjab ...	500 0 0	
2	„ William Henry Patterson, L. s. ...	Ditto ...	... ..	500 0 0	On deputation to Kamrup Lakhiraj Holdings Survey. Exclusive of Assam and de- putation allowance Rs. 100
2nd grade—Salary Rs. 400.					
8	Mr. Frederick William Kelly, H. s. ...	Surveyor, 2nd grade... ..	... ..	400 0 0	Exclusive of personal allow- ance Rs. 100. Superanu- merary.—Doing duty in Head-Quarters Office.
1	„ Charles William Campbell ...	Ditto ...	5th or Banda District Sur- vey, N. W. P. ...	400 0 0	
2	„ Edward Loftie ...	Ditto ...	2nd or Rohtak and Sirsa Distrs. Survey, Punjab ...	400 0 0	
3	„ George Henry Blythe ...	Ditto ...	Ditto ditto ...	400 0 0	
4	„ Frederick Grant ...	Ditto ...	8th or Western Soane Irrigation Surv., District Shahabad, Behar	400 0 0	
3rd grade—Salary Rs. 350.					
8	1 Mr. William Sinclair ...	Surveyor, 3rd grade... ..	4th or Moradabad and Budaun Districts Survey, N. W. P. ...	350 0 0	
2	„ Constantine Brownfield, L. s. ...	Ditto ...	... ..	350 0 0	On special duty, Khurda de- markation Survey.
8	„ Arthur David Smart ...	Ditto ...	... ..	350 0 0	
8	„ Robert Barclay ...	Ditto ...	... ..	.....	Superannumerary.—Doing duty in Head-Quarters Office.
3	„ James Todd ...	Ditto ...	12th or Midnapore District Sur- vey, Bengal ...	350 0 0	S. leave for 21 months, from 4th March 1876.
4	„ Patrick Augustus George Cowley, L. s. ...	Ditto ...	6th or Eastern Soane Irrigation Surv., District Gya, Behar ...	350 0 0	
5	„ Charles David ...	Ditto ...	12th or Midnapore District Sur- vey, Bengal ...	350 0 0	
6	„ George Rae ...	Ditto ...	8th or Western Soane Irrigation Surv., Dist. Shahabad, Behar	350 0 0	
7	„ Samuel Mack Smylic, L. s. ...	Ditto ...	11th or 2nd Deccan Topogra- phical Survey, Bombay ...	350 0 0	
8	Vacant.				
4th grade—Salary Rs. 300.					
14	1 Mr. Jas. Stewart Pemberton, L. s. ...	Surveyor, 4th grade... ..	2nd or Rohtak and Sirsa Dis- tricts Survey. Punjab ...	300 0 0	
2	„ William Robert Vyall ...	Ditto ...	7th or Khurdah Estate Survey, Orissa ...	300 0 0	
3	„ Henry Rose Littlewood ...	Ditto ...	Cadastral Revision Surv., N. W. P. ...	300 0 0	
4	„ Wm. Alexander Wilson, L. s. ...	Ditto ...	14th or Ganges Dearah Survey, Bengal ...	300 0 0	
5	„ William Samuel Buttress ...	Ditto ...	1st or Dera Ismail Khan District Survey, Punjab ...	300 0 0	

Classified List of Officers of the Topographical and Revenue Survey

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	REVENUE SURVEY DEPARTMENT.			Rs. A. P.	
	JUNIOR BRANCH.				
	SURVEYORS.				
	<i>4th grade—contd.</i>				
6	Mr. Thomas Wilfred Reily, L. S.	Surveyor, 4th grade ...	11th or 2nd Deccan Topographical Survey, Bombay ...	300 0 0	
7	„ Alexander Macdonald Lawson, L. S. ...	Ditto ...	10th or 1st Deccan Topogl. Survey, Bombay ...	300 0 0	
8	„ Andrew John Gibson ...	Ditto ...	1st or Dera Ismail Khan District Survey, Punjab ...	300 0 0	
9	„ Henry Dowman ...	Ditto ...	7th or Khurda Estate Survey, Orissa ...	300 0 0	
10	„ Edwin Little ...	Ditto ...	5th or Banda District Survey, N. W. P. ...	300 0 0	
11	„ Henry Townsend Hanby, L. S.	Ditto ...	4th or Moradabad and Budaun Dists. Surv., N. W. P. ...	300 0 0	
12	„ George Batley Scott, L. S. ...	Ditto ...	1st or Dera Ismail Dist. Survey, Punjab ...	300 0 0	
13	} Vacant.				
14					
	ASSISTANT SURVEYORS.				
	<i>1st grade—Salary Rs. 250.</i>				
1	Mr. James Hoppner O'Donel ...	Asst. Survr., 1st grade	6th or Eastern Soane Irrigation Survey, District Gya, Behar...	250 0 0	
2	„ Phillip Ford, L. S. ...	Ditto ...	2nd or Rohtak and Sirsa Dists. Surv., Punjab ...	250 0 0	
3	„ Daniel Arthur King ...	Ditto ...	7th or Khurda Estate Surv., Orissa ...	250 0 0	
4	„ Robert Boddington Smart, L. S. ...	Ditto ...	... ..	.....	Temporarily transferred to Chumba Settlement Survey.
5	„ James Connor ...	Ditto ...	... ..	250 0 0	} Supernumerary—Doing duty in Head-Quarters Office.
5	„ Thomas Henry Dunne, L. S.	Ditto ...	... ..	250 0 0	
5	„ William James Lane ...	Ditto ...	Cadastral Revision Survey, N.-W. P. ...	250 0 0	
6	Vacant.				
	<i>2nd grade—Salary Rs. 200.</i>				
1	Mr. John Thomas Uniacke Coxen	Asst. Survr., 2nd grade	11th or 2nd Deccan Topogl. Survey, Bombay ...	200 0 0	
2	„ John Newland, L. S. ...	Ditto ...	10th or 1st Deccan Topogl. Surv., Bombay ...	200 0 0	
3	„ Richard Cunningham Dundee Ewing, H. S. ...	Ditto ...	14th or Ganges Dearah Surv., Bengal ...	200 0 0	
4	„ George William Jarbo, L. S.	Ditto ...	5th or Banda Dist. Surv., N.-W. P. ...	200 0 0	
5	„ James Reid Scott, L. S. ...	Ditto ...	Ditto ditto ...	200 0 0	
5	„ John McHatton, L. S. ...	Ditto ...	... ..	200 0 0	Supernumerary doing duty in Head-Quarters Office.
6	„ William James Smith ...	Ditto ...	1st or Dera Ismail Khan Dist. Surv., Punjab ...	200 0 0	
7	„ Septimus Oswald Madras ...	Ditto ...	4th or Moradabad and Budaun Dists. Surv., N.-W. P. ...	200 0 0	
8	„ Thomas Frederick Freeman, L. S. ...	Ditto ...	5th or Banda Dist. Survey, N.-W. P. ...	200 0 0	
9	„ George Carleton Swiney ...	Ditto ...	10th or 1st Deccan Topographical Survey, Bombay ...	200 0 0	
10	} Vacant.				
11					
	<i>3rd grade—Salary Rs. 160.</i>				
1	Mr. Charles Walker Wilson, L. S.	Asst. Survr., 3rd grade	14th or Ganges Dearah Surv., Bengal ...	160 0 0	
2	„ Charles Walter Franklin Seyers ...	Ditto ...	Ditto ditto ...	160 0 0	
3	„ Alfred Collimore Wilson Lemarchand, L. S. ...	Ditto ...	10th or 1st Deccan Topogl. Survey, Bombay ...	160 0 0	
4	„ John Sidney Swiney ...	Ditto ...	6th or Eastern Soane Irrigation Surv., Gya, Behar ...	160 0 0	

(a) Includes 1 Leveler.

(b) Includes 2 Levelers.

Departments as it stood on the 1st April 1877 — concluded.

No. sanctioned. No. existing in each grade.	NAMES.	Substantive Appoint- ment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.	
REVENUE SURVEY DEPART- MENT.				Rs. A. P.		
JUNIOR BRANCH. ASSISTANT SURVEYORS. 3rd grade—continued.						
5	Mr. George Latter Rodway Scott, L. s. ...	Asst. Surveyor, 3rd grade ...	Eastern Soane Irrigation Survey District, Gya, Behar ...	160 0 0	On sick leave for 15 months from 7th May 1876.	
8	" James O'Toole ...	Ditto ...	... ..	.....
6	" William Joseph Lincoln, L. s. ...	Ditto ...	4th or Moradabad and Budaun Distrs. Surv., N. W. P. ...	160 0 0		
7	" Benjamin Anderson, L. s. ...	Ditto ...	2nd or Rohtak Distrs. Survey, Punjab ...	160 0 0		
8	" Thomas Shaw, L. s. ...	Ditto ...	8th or Western Soane Irri. Surv., Dist. Shahabad, Behar ...	160 0 0		
9	" William Henry Penrose, L. s. ...	Ditto ...	11th or 2nd Deccan Topogl. Survey, Bombay ...	160 0 0		
10	" Edmund James Martin ...	Ditto ...	6th or Eastern Soane Irri. Surv., District Gya, Behar ...	160 0 0		
11	" William Dease Corbett ...	Ditto ...	On special duty, Dhanwar and Chota Nagpore Estate Sur- veys, Bengal ...	160 0 0		
12	" George Edwin Parker ...	Ditto ...	12th or Midnapore Dist. Surv., Bengal ...	160 0 0		
13	" George Campbell ...	Ditto ...	7th or Khurda Estate Survey, Orissa ...	160 0 0		
14	} Vacant.					
15						
PROBATIONARY ASST. SURVEYORS.						
20	} ... 4th grade—Salary Rs. 120.					
1	Mr. John Murphy ...	Proby. Asst. Surveyor, 4th grade ...	5th or Banda District Survey, N. W. P. ...	120 0 0		
2	" Charles Wyatt Joseph Ford, L. s. ...	Ditto ...	4th or Moradabad and Budaun Distrs. Survey, N. W. P. ...	120 0 0		
3	" Arthur William Smart ...	Ditto ...	6th or Eastern Soane Irri. Surv., District Gya, Behar ...	120 0 0		
4	" George Hugh O'Donel ...	Ditto ...	8th or Western Soane Irri. Surv., Dist. Shahabad, Behar ...	120 0 0		
5	" Henry George Young, H. s. ...	Ditto ...	5th or Banda District Survey, N.-W. P. ...	120 0 0		
6	" Percival Edwin Heberlet ...	Ditto ...	7th or Khurda Estate Survey, Orissa ...	120 0 0		
7	" Bruce Macdonald Wilson ...	Ditto ...	12th or Midnapore District Survey, Bengal ...	120 0 0		
8	" Elliot Playfair Smyth Hill	Ditto ...	4th or Moradabad and Budaun Districts Survey, N. W. P....	120 0 0		
9	" Edmund Hume Stephen Gasper ...	Ditto ...	12th or Midnapore District Survey, Bengal ...	120 0 0		
10	" Richard Randall Dickinson, L. s. ...	Ditto ...	10th or 1st Deccan Topogl. Survey, Bombay ...	120 0 0		
11	" Edward Bolderodi Monta- bello Drew ...	Ditto ...	5th or Banda District Survey, N. W. P. ...	120 0 0		
12	" Paul Agabeg Peters, L. s. ...	Ditto ...	1st or Dera Ismail Khan District Survey, Punjab ...	120 0 0		
13	" Henry Reed Adels ...	Ditto ...	14th or Ganges Dearah Survey, Bengal ...	120 0 0		
14	" Charles Samuel Kraal ...	Ditto ...	2nd or Rohtak and Sirsa Distrs. Survey, Punjab ...	120 0 0		
15	" Conly Thomas James Dease	Ditto ...	11th or 2nd Deccan Topl. Survey, Survey, Bombay ...	120 0 0		
16	" Thos. Campbell ...	Ditto ...	6th or Eastern Soane Irri. Surv., District Gya, Behar ...	120 0 0		
17	" Lionel Fitzhardinge Berkeley	Ditto ...	4th or Moradabad and Budaun Distrs. Survey, N. W. P. ...	120 0 0		
18 to 20	} Vacant.					

(a) Includes 1 Leveler and 4 additional Assistants sanctioned to strengthen $\frac{1}{2}$ parties.

General List of the Officers of the Topographical and Revenue Survey Departments on the 1st April 1877.

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			Rs. A. P.
1	James Campbell, Esq. ...	...	49 1 27	Asst. Supdt., Revenue Survey ...	1st grade ...	750 0 0
2	J. O. N. James, Esq. ...	...	47 7 24	Depy. Supdt., Topogl. Survey ...	3rd grade ...	1,000 0 0
3	R. B. Smart, Esq. ...	...	50 0 28	Depy. Supdt., Revenue Survey ...	2nd grade ...	1,300 0 0
4	Colonel D. C. Vanrenen, B. A. ...	P. H.	54 10 0	Supdt. of Revenue Surveys ...	...	2,265 10 0
5	Mr. G. H. Blythe ...	...	47 5 24	Revenue Surveyor ...	2nd grade ...	400 0 0
6	" E. Loftie ...	...	49 5 10	Ditto ...	Ditto ...	400 0 0
7	" G. Housden ...	...	46 2 15	Ditto ...	1st grade ...	500 0 0
8	" N. A. Belletty ...	L. S.	48 6 26	Topographical Surveyor ...	Ditto ...	500 0 0
9	" C. David ...	...	49 3 0	Revenue Surveyor ...	3rd grade ...	350 0 0
10	" E. T. S. Johnson ...	...	48 11 2	Depy. Supdt., Revenue Survey ...	Ditto ...	1,000 0 0
11	" H. B. Talbot ...	L. S.	48 5 5	Asst. Supdt., Revenue Survey ...	2nd grade ...	600 0 0
12	" W. H. Patterson ...	L. S.	38 0 29	Revenue Surveyor ...	1st grade ...	500 0 0
13	" A. Chamarett ...	...	44 4 1	Topographical Surveyor ...	Ditto ...	500 0 0
14	" H. J. Bolst ...	...	40 1 0	Ditto ...	Ditto ...	500 0 0
15	Lieut.-Col. J. Macdonald, s. c. ...	P. H.	46 10 20	Depy. Supdt., Revenue Survey ...	2nd grade ...	1,327 14 0
16	Colonel F. C. Anderson, s. c. ...	P. H.	49 9 8	Ditto ...	1st grade ...	1,627 14 0
17	Colonel H. C. Johnstone, c. B., s. c. ...	P. H.	53 9 4	Ditto ...	Ditto ...	1,627 14 0
18	Mr. C. W. Campbell ...	...	45 10 24	Revenue Surveyor ...	2nd grade ...	400 0 0
19	" H. Horst ...	...	42 10 24	Asst. Supdt., Topogl. Survey ...	Ditto ...	750 0 0
20	Lieut.-Col. G. C. Depree, s. c. ...	P. H.	44 7 28	Depy. Supdt., Topogl. Survey ...	1st grade ...	1,600 0 0
21	Mr. G. A. McGill ...	L. S.	38 11 7	Topographical Surveyor ...	2nd grade ...	400 0 0
22	" W. Sinclair ...	...	38 6 8	Revenue Surveyor ...	3rd grade ...	360 0 0
23	" W. R. Vyall ...	...	38 3 2	Ditto ...	Ditto ...	300 0 0
24	Lieut.-Col. A. D. Vanrenen, s. c. ...	P. H.	46 0 15	Depy. Supdt., Revenue Survey ...	1st grade ...	1,600 0 0
25	Mr. F. Grant ...	...	41 0 6	Revenue Surveyor ...	2nd grade ...	400 0 0
26	" D. Atkinson ...	...	38 10 23	Topographical Surveyor ...	Ditto ...	400 0 0
27	" J. A. Vanderputt ...	...	38 5 15	Ditto ...	Ditto ...	400 0 0
28	" J. F. Baness ...	...	46 9 1	Ditto ...	1st grade ...	600 0 0
29	" R. W. Chew ...	...	37 8 8	Ditto ...	2nd grade ...	400 0 0
30	" C. Brownfield ...	L. S.	36 7 24	Revenue Surveyor ...	3rd grade ...	350 0 0
31	" R. Barclay ...	...	36 8 21	Ditto ...	Ditto ...	350 0 0
32	Major H. H. Godwin-Austen, s. c. ...	P. H.	42 8 27	Depy. Supdt., Topogl. Survey ...	2nd grade ...	.....

8	9	10	11	12
Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st Apl. 1877.	Present Post.	REMARKS.
		Y. M. D.		
1 Oct. 8, 1844	April 1, 1874	32 5 24	14th or Ganges Dearah Reve. Survey, Bengal.	
2 July 29, 1845	Ditto ...	31 8 3	Asst. Survr. Genl. in charge Cartographic and Engraving Branches, Head-Quarters, Calcutta.	Rs. 200 local allowance.
3 Sept. 21, 1846	Ditto ...	29 7 9	7th or Khoordah Estate Survey, Orissa.	Sick leave from 2nd May to 30th June 1846. Ditto from 20th October 1849 to 20th January 1850. Ditto from 8th July 1857 to 13th January 1858. Note.—Absence without leave for three days in October 1853 was erroneously entered in list on the 1st October 1872 against Mr. R. B. Smart's name.
4 Oct. 3, 1846	Mar. 11, 1867	...	Calcutta—Supdt. of Revenue Surveys and Deputy Surveyor General.	Including Rs. 65-10 personal allowance.
5 Dec. 1, 1846	Jan. 1, 1872	29 11 0	2nd or Rohtak and Sirsa Districts Rev. Survey, Punjab.	Sick leave from 21st November 1870 to 20th April 1871.
6 Jan. 1, 1847	Jan. 1, 1871	30 3 0	Ditto ditto.	
7 Feb. 18, 1847	July 1, 1867	30 1 11	1st or Dera Ismail Khan District Reve. Survey, Punjab.	
8 July 16, 1847	April 1, 1866	29 8 16	On duty at Head-Quarters.	
9 Sept. 1, 1847	Jan. 1, 1872	29 7 0	12th or Midnapore Dist. Reve. Survey, Bengal	Office Asst. from 1st Sept. 1847 to 31st Dec. 1861.
10 Oct. 13, 1847	April 1, 1874	29 5 19	6th or Eastern Soane Irrign. Survey, Dist. Gya, Behar.	
11 Dec. 1, 1848	Ditto	28 4 0	Ditto ditto.	
12 Dec. 1, 1851	Jan. 1, 1871	24 6 0	On deputation to Kamrup Lakhiraj Survey, Assam.	Private affairs' leave from 1st May to 31st Aug. 1862.—Eur. leave on private affairs, from 20th July 1872 to 19th Jan. 1873.
13 June 2, 1852	Mar. 1, 1871	24 9 29	Geographical Examiner, Head-Quarters	Exclusive of Rs. 45 as Presidency house-rent.
14 July 26, 1852	Oct. 1, 1872	24 0 8	No. 1 Topogl. Party, Gwalior and C. I. Survey	On furlough from 3rd November 1873 to 30th April 1875. Returned to duty 1st May 1875.
15 Sept. 10, 1852	Oct. 23, 1876	...	In charge 12th or Midnapore District Revenue Survey.	Including Rs. 27-14 personal allowance.
16 Ditto ...	April 1, 1874	...	5th or Banda District Revenue Survey, N. W. P.	Ditto Ditto.
17 May 27, 1853	Ditto ...	...	1st or Dehra Ismail Khan District Revenue Survey, Punjab.	Ditto Ditto.
18 Nov. 1, 1853	July 1, 1870	23 5 0	5th or Banda Dist. Reve. Surv., N. W. P.	
19 Sept. 1, 1854	April 1, 1874	*22 7 0	In charge No. 2 or Khandesh and Bombay Native States Topographical Survey.	Officiating in 1st grade. * Exclusive of 20 months' service in Roorkee College.
20 Oct. 20, 1854	Ditto ...	...	No. 4 or North-Eastern Divn., Central Provinces Topographical Survey.	
21 April 8, 1855	Jan. 1, 1871	21 11 23	Ditto ditto.	
22 Oct. 1, 1855	April 1, 1869	21 6 0	4th or Moradabad and Budaun Districts Revenue Survey, N. W. P.	
23 June 13, 1856	Ditto ...	20 9 18	7th or Khoordah Estate Survey, Orissa.	
24 July 8, 1856	Oct. 23, 1876	...	2nd or Rohtak and Sirsa Districts Survey, Punjab.	
25 July 11, 1856	April 1, 1872	20 8 21	8th or Western Soane Irrign. Survey, District Shahabad, Behar.	
26 Aug. 4, 1856	Jan. 1, 1871	20 7 28	No. 5 or Bhopal and Mulwa Topogl. Survey.	
27 Sept. 1, 1856	Oct. 1, 1874	20 7 0	No. 4 or N. E. Divn., C. P. Topogl. Surv.	
28 Sept. 5, 1856	May 1, 1870	20 6 26	Chief Draftsman, Head-Quarters ...	Service reckoned under new rules.
29 Sept. 15, 1856	Oct. 1, 1874	20 6 16	No. 8 or Nundydroog Division, Mysore Topogl. Survey.	
30 Sept. 20, 1856	April 1, 1869	20 6 11	On special duty, Khoordah Demarcation Survey, Orissa.	
31 Ditto ...	Jan. 1, 1871	18 0 5	...	Private affairs, furlough to Europe, from 11th Dec. 1867 to 8th Dec. 1868. Sick leave from 9th Nov. 1869 to 18th April 1870. Ditto for 21 months, from 4th March 1870.
32 May 8, 1857	April 1, 1874	...	...	Temporarily employed at the Imperial Museum.

General List of the Officers of the Topographical and Revenue Survey Departments on the 1st April 1877—continued.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st Apl. 1877.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
33	Lieut.-Col. R. E. Oakes, s. c.	P. H.	48 1 23	Depy. Supdt., Revenue Survey	2nd grade	...	April 7, 1858	April 1, 1874	...	...	On furlough, private affairs, 2 years, from 23rd Mar. 1876.
34	Mr. F. W. Kelly	H. S.	43 7 5	Revenue Surveyor	Ditto	400 0 0	Aug. 17, 1858	July 1, 1869	18 7 15	Supdt. of Revenue Surveys Office, Calcutta.	{(a) Exclusive of personal allowance of Rs. 100. {(b) Commencement of second service.
35	" P. A. G. Cowley	L. S.	35 2 15	Ditto	3rd grade	350 0 0	Sept. 1, 1859	Oct. 1, 1873	17 7 0	6th or Eastern Soane Irrign. Survey, Dist. Gya, Behar.	
36	" G. Rae	...	35 3 9	Ditto	Ditto	350 0 0	Ditto	April 1, 1872	17 7 0	8th or Western Soane Irrign. Survey, District Shahabad, Behar.	
37	" T. W. Reilly	L. S.	34 9 27	Ditto	4th grade	300 0 0	Oct. 18, 1859	Nov. 1, 1872	17 4 2	11th or 2nd Deccan Topogl. Survey, Bombay Presidency.	Absent without leave from 20th Jan. to 28th Feb. 1861.
38	Major J. Sconce, s. c.	P. H.	40 11 29	Depy. Supdt., Revenue Survey	2nd grade	1,300 0 0	Oct. 21, 1859	April 1, 1874	...	8th or Western Soane Irrigation Survey, Dist. Shahabad, Behar.	
39	Mr. E. Little	...	31 5 19	Revenue Surveyor	4th grade	300 0 0	Jan. 1, 1860	Nov. 5, 1871	17 3 0	5th or Banda District Survey, N. W. P.	Apprentice from 1st Jan. 1860 to 4th Nov. 1862.
40	" S. M. Smylie	L. S.	35 4 5	Ditto	3rd grade	350 0 0	July 24, 1860	April 1, 1872	16 8 8	11th or 2nd Deccan Topogl. Survey, Bombay Presidency.	
41	" W. S. Buttress	...	33 1 12	Ditto	4th grade	300 0 0	Sept. 1, 1860	Oct. 1, 1872	16 7 0	1st or Dera Ismail Khan District Revenue Survey, Punjab.	Copyist from 1st to 30th September 1860.
42	" A. J. Wilson	L. S.	34 7 0	Topographical Surveyor	3rd grade	350 0 0	Oct. 1, 1860	April 1, 1874	16 6 0	No. 2 or Khandesh and Bombay Native States Topogl. Survey.	
43	" J. A. May	...	34 6 14	Ditto	Ditto	350 0 0	Ditto	Oct. 1, 1871	16 6 0	No. 3 or Central Provinces and Vizagapatam Agency Topogl. Survey.	
44	" F. Adams	...	40 11 6	Ditto	4th grade	300 0 0	Ditto	Ditto	20 4 20	Ditto ditto	Including service as Sub-Surveyor, from 3rd November 1859 to 30th September 1860.
45	" R. D. Farrell	...	33 2 1	Ditto	Ditto	300 0 0	Ditto	April 1, 1872	16 6 0	No. 8 or Nundydroog Divn., Mysore Survey.	Overstayed privilege leave by five days in June 1869.
46	" J. S. Pemberton	L. S.	33 8 23	Revenue Surveyor	Ditto	300 0 0	Oct. 6, 1860	Ditto	16 5 21	2nd or Rohtak and Sirsa Dists. Reve. Surv., Punjab.	
47	" H. R. Littlewood	...	33 4 25	Ditto	Ditto	300 0 0	Ditto	Ditto	16 5 26	Cadastral Revision Survey, N. W. P.	
48	Major D. Macdonald, s. c.	P. H.	41 3 21	Depy. Supdt., Revenue Survey	3rd grade	1,166 14 0	Dec. 19, 1860	April 1, 1874	...	10th or 1st Deccan Topogl. Surv., Bombay Presidency.	Including Rs. 166-14 personal allowance.
49	Mr. W. A. Wilson	L. S.	33 10 2	Revenue Surveyor	4th grade	300 0 0	Jan. 1, 1861	April 1, 1872	16 3 0	14th or Ganges Dearah Reve. Survey, Bengal.	
50	" A. J. Gibson	...	35 0 0	Ditto	Ditto	300 0 0	May 1, 1861	Oct. 1, 1873	15 10 27	1st or Dehra Ismail Khan Dist. Reve. Survey, Punjab.	Absent without leave three days in January 1866.
51	" E. S. P. Atkinson	...	31 8 5	Topographical Surveyor	Ditto	300 0 0	Aug. 13, 1861	April 1, 1872	15 1 19	...	Furlough for 1 year, from 26th July 1876.
52	" A. G. Wyatt	...	32 1 5	Ditto	Ditto	300 0 0	Nov. 1, 1861	April 1, 1874	15 5 0	No. 2 or Khandesh and Bombay Native States Topographical Survey.	
53	Captain F. Coddington, s. c.	P. H.	38 10 28	Depy. Supdt., Revenue Survey	3rd grade	1,000 0 0	Jan. 17, 1862	April 1, 1874	...	Doing duty at Head Quarters' Office.	
54	" W. Barron, s. c.	P. H.	39 2 15	Ditto	Ditto	1,000 0 0	June 27, 1862	April 1, 1874	...	4th or Moradabad and Budaun Dists. Reve. Surv., N. W. P.	
55	" Geo. Strahan, s. c.	P. H.	38 1 25	Depy. Supdt., Topogl. Survey	2nd grade	1,440 0 0	July 2, 1862	Ditto	...	No. 8 or Nundydroog Division, Mysore Topogl. Survey.	
56	" R. V. Riddell, s. c.	P. H.	37 0 18	Ditto	3rd grade	1,440 0 0	Aug. 28, 1862	Ditto	...	Officiating Supdt., Mathl. Instt. Dept., in charge Litho. Branch, Head-Quarters.	Officiating Deputy Supdt., 2nd grade, Rs. 200 local allowance. Assistant Surveyor General.
57	Major H. C. B. Tanner, s. c.	P. H.	41 8 15	Depy. Supdt., Revenue Survey	Ditto	...	Oct. 10, 1862	Ditto	...	...	On furlough, private affairs, for 6 months, from 25th August 1870, extended for 2 months and 7 days.
58	Mr. H. Dowman	...	30 9 20	Revenue Surveyor	4th grade	300 0 0	Oct. 16, 1862	Oct. 16, 1874	14 5 1	7th or Khoordah Estate Surv., Orissa	Absent without leave three days, and on sick leave for two days, in October 1865. Sick leave for four days in December 1865. Ditto from 11th to 16th December 1865.
59	" H. T. Hanby	L. S.	30 5 12	Ditto	Ditto	300 0 0	Nov. 13, 1862	Nov. 13, 1874	14 4 18	4th or Moradabad and Budaun Dists. Reve. Surv., N. W. P.	
60	" E. C. Barrett	H. S.	33 11 16	Asst. Supdt., Revenue Survey	2nd grade	600 0 0	Nov. 18, 1862	April 1, 1874	14 3 13	7th or Khoordah Estate Survey, Orissa	Sick leave for one month from 20th June 1869.
61	" A. M. Lawson	L. S.	38 2 29	Revenue Surveyor	4th grade	300 0 0	Ditto	May 1, 1873	14 4 13	10th or 1st Deccan Topogl. Survey, Bombay Presidency.	
62	Captain D. C. Andrew, s. c.	P. H.	36 0 13	Asst. Supdt., Revenue Survey	1st grade	1,000 0 0	Dec. 30, 1862	April 1, 1874	...	Cadastral Revision Survey, N. W. P.	Officiating Deputy Supdt., 3rd grade.
63	" W. H. Wilkins, s. c.	P. H.	35 5 25	Ditto	Ditto	750 0 0	April 27, 1863	Ditto	...	12th or Midnapore Dist. Reve. Surv., Bengal.	
64	Mr. G. B. Scott	L. S.	32 8 0	Revenue Surveyor	4th grade	300 0 0	May 1, 1863	Dec. 15, 1874	13 11 0	1st or Dehra Ismail Khan Dist. Survey, Punjab.	
65	" J. T. U. Coxen	...	36 6 22	Asst. Revenue Surveyor	2nd grade	200 0 0	May 16, 1863	Jan. 1, 1874	13 9 22	11th or 2nd Deccan Topogl. Survey, Bombay Presidency.	Sick leave from 8th to 31st October 1873.
66	" M. J. Ogle	...	35 0 27	Topographical Surveyor	4th grade	300 0 0	July 1, 1863	April 1, 1873	13 0 27	No. 6 or Khasi and Garo Hills Topogl. Survey.	{(a) Exclusive of 15 months' leave on medical certificate to Europe, from 23rd Sept. 1867 to 23rd December 1869. On furlough for 2 years, from 10th Oct. 1874. Extension for 6 months in R. A. and C. Dept. No. 574, dated 3rd July 1876. Further extension for 6 months in R. A. and C. Dept. letter No. 113, dated 24th February 1877.
67	" F. B. Girdlestone	...	34 0 0	Depy. Supdt., Topogl. Survey	3rd grade	...	Aug. 1, 1863	April 1, 1874	10 3 0	...	
68	" C. F. Hamer	...	31 4 24	Asst. Topographical Surveyor	1st grade	250 0 0	Aug. 3, 1863	Oct. 1, 1871	9 4 24	No. 5 or Bhopal and Malwa Topogl. Survey.	Service reckoned under new rules.
69	" T. E. M. Claudius	...	30 10 0	Ditto	Ditto	250 0 0	Aug. 10, 1863	April 1, 1874	8 10 0	No. 3 or Central Provinces and Vizagapatam Agency Topogl. Survey.	
70	" C. A. R. Scanlan	...	29 6 18	Ditto	Ditto	250 0 0	Sept. 9, 1863	Oct. 1, 1871	7 6 18	No. 1 Topogl. Party, Gwalior and C. I. Survey.	Leave on medical certificate for 4 months from 1st Jan. 1876.

NOTE.—Service qualifying for pension calculated under old rules, *vide*

Section 61 (b), new Pension Code, for all appointments prior to 8th June 1863.

General List of the Officers of the Topographical and Revenue Survey Departments on the 1st April 1877—continued.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st Apl. 1877.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
71	Captain Charles Strahan, B. E.	...	33 10 25	Depty. Supdt., Topographical Survey	3rd grade ...	1,140 0 0	Sept. 26, 1863	April 1, 1874	...	No. 1 or Gwalior and C. I. Topogl. Survey.	
72	Mr. J. H. O'Donel	...	31 8 15	Asst. Revenue Surveyor	1st grade ...	250 0 0	Oct. 1, 1863	Oct. 1, 1872	9 8 15	6th or Eastern Soane Irrigation Survey, Dist. Gya, Behar.	
73	" J. Newland	...	L. S.	Ditto	2nd grade...	200 0 0	Oct. 22, 1863	June 29, 1871	13 5 10	10th or 1st Deccan Topogl. Survey, Bombay Presidency.	
74	" R. Todd	...	31 8 19	Asst. Topographical Surveyor	1st grade ...	250 0 0	Nov. 1, 1863	Oct. 1, 1871	9 8 19	No. 7, or Rajpootana and Simla Topogl. Survey.	
75	" P. Ford	...	L. S.	Asst. Revenue Surveyor	Ditto	250 0 0	Dec. 15, 1863	June 4, 1873	9 3 19	2nd or Rohtak and Sirsa Districts Reve. Surv., Punjab.	Absent without leave one day, and on sick leave four days, in October 1866.
76	Captain E. W. Samuells, s. c.	...	P. H.	Asst. Supdt., Revenue Survey	Ditto	750 0 0	Dec. 17, 1863	April 1, 1874	...	12th or Midnapore Dist. Reve. Surv., Bengal.	Overstayed privilege leave by one day in August 1874.
77	Mr. J. Todd	...	42 10 19	Revenue Surveyor	3rd grade...	350 0 0	Dec. 27, 1863	Jan. 1, 1872	13 3 4	12th or Midnapore Dist. Reve. Surv., Bengal.	Office Asst. from 1st Jan. 1864 to 28th Feb. 1871.
78	" G. Campbell	...	27 8 19	Asst. Revenue Surveyor	Ditto	180 0 0	Jan. 1, 1864	Dec. 1, 1874	5 8 19	7th or Khoordah Estate Survey, Orissa...	Apprentice from 1st January to 31st December 1864. Temporarily transferred to Chumba Settlement Survey.
79	" R. B. Smart	...	L. S.	Ditto	1st grade ...	250 0 0	Ditto	May 27, 1874	7 9 2	...	Apprentice from 12th April to 30th June 1864.
80	" D. A. King	...	30 4 26	Ditto	Ditto	250 0 0	April 12, 1864	Jan. 1, 1874	8 4 25	7th or Khoordah Estate Surv., Orissa ...	
81	" A. W. Chennell	...	30 4 16	Asst. Topographical Surveyor	Ditto	250 0 0	May 1, 1864	Oct. 1, 1872	8 4 1	No. 6, or Khasi and Garo Hills Topogl. Survey.	
82	" A. James	...	30 4 12	Ditto	Ditto	250 0 0	June 15, 1864	Sept. 1, 1873	8 4 12	No. 8 or Nundydroog Divn., Mysore Topogl. Survey.	
83	" C. Tapsell	...	32 4 17	Ditto	Ditto	250 0 0	Aug. 2, 1864	Oct. 1, 1872	10 4 17	No. 7 or Rajpootana and Simla Topogl. Survey.	
84	" E. J. Jackson	...	L. S.	Asst. Supdt., Revenue Survey	2nd grade...	600 0 0	Sept. 26, 1864	April 1, 1874	9 6 28	14th or Ganges Dearah Revenue Survey, Bengal.	Sick leave from 4th July to 3rd August 1867. Ditto from 19th August to 30th November 1867. Europe, medical certificate, from 23rd July 1871 to 10th November 1872.
85	" W. Stotesbury	...	29 8 6	Asst. Topographical Surveyor	1st grade ...	250 0 0	Oct. 1, 1864	April 1, 1874	7 8 6	No. 8 or Nundydroog Division, Mysore Topogl. Survey.	
86	" F. Kitchen	...	31 0 7	Ditto	Ditto	250 0 0	Oct. 4, 1864	Ditto	9 0 7	Ditto ditto.	
87	Captain J. E. Sandeman, s. c.	...	P. H.	Asst. Supdt., Revenue Survey	Ditto	750 0 0	Oct. 6, 1864	Ditto	...	...	On special duty, Dhanwar and Chota Nagpore Estates Survey, Bengal.
88	Mr. C. W. F. Seyers	...	33 7 15	Asst. Revenue Surveyor	3rd grade...	160 0 0	Dec. 1, 1864	Oct. 1, 1871	11 7 15	14th or Ganges Dearah Revenue Survey, Bengal.	
89	" J. Connor	...	29 6 24	Asst. Revenue Surveyor	1st grade ...	250 0 0	Feb. 15, 1865	Dec. 1, 1874	7 6 24	Supdt. of Revenue Surveys' Office, Calcutta.	
90	" T. H. Dunne	...	L. S.	Ditto	Ditto	250 0 0	Ditto	Feb. 15, 1871	7 2 24	Supdt. of Revenue Surveys' Office Calcutta.	Absent without leave one day, and on sick leave for ten days, in October 1865.
91	" W. J. Lane	...	29 10 5	Ditto	Ditto	250 0 0	Mar. 1, 1865	April 24, 1871	7 5 26	Cadastral Revision Survey, N. W. P. ...	Sick leave from 19th May to 8th July 1865. Ditto, 7th August to 23rd October 1866.
92	" E. A. Wainright	...	28 9 13	Asst. Topographical Surveyor	2nd grade...	200 0 0	May 1, 1866	Oct. 1, 1871	6 9 13	No. 5 or Bhopal and Malwa Topogl. Survey.	
93	Captain W. F. Badgley, s. c.	...	P. H.	Asst. Supdt., Topogl. Survey	1st grade ...	1,000 0 0	May 3, 1865	April 1, 1874	...	No. 6 or Khasi and Garo Hills Topographical Survey.	Offg. Depty. Supdt., 3rd Grade.
94	Mr. J. A. Barker	...	30 11 18	Asst. Topographical Surveyor	2nd grade...	200 0 0	Sept. 18, 1865	Oct. 1, 1871	8 11 18	No. 8 or Nundydroog Divn., Mysore Topogl. Survey.	
95	Captain H. Lees Smith, s. c.	...	P. H.	Asst. Supdt., Revenue Survey	Ditto	...	Mar. 26, 1866	April 1, 1874	...	...	On furlough, p. a., 2 years, from 24th Apl. 1876. Officiating in 1st grade.
96	Mr. R. C. D. Ewing	...	H. S.	Asst. Revenue Surveyor	Ditto	200 0 0	June 9, 1866	Sept. 9, 1872	6 9 20	14th or Ganges Dearah Revenue Survey, Bengal.	
97	Captain T. H. Holdich, B. E.	...	L. S.	Asst. Supdt., Topogl. Survey	1st grade ...	390 0 0	July 23, 1866	April 1, 1874	...	In charge No. 3 or C. P. and Vizagapatam Agency Topogl. Survey.	
98	" J. Waterhouse, s. c.	...	P. H.	Ditto	Ditto	750 0 0	Ditto	Ditto	...	In charge Photographic Branch, Headquarters.	Asst. Survr. Genl. Rs. 200 local allowance.
99	Mr. W. J. Cornelius	...	L. S.	Asst. Topographical Surveyor	2nd grade...	200 0 0	Aug. 15, 1866	Oct. 1, 1872	6 0 1	No. 1 or Gwalior and C. I. Topogl. Survey.	
100	" W. J. Smith	...	28 8 19	Asst. Revenue Surveyor	Ditto	200 0 0	Sept. 1, 1866	May 27, 1874	6 8 19	1st or Dehra Ismail Khan District Revenue Survey, Punjab.	Office Asst. from 1st Sept. 1866 to 31st Mar. 1874.
101	" W. F. Pettigrew	...	32 7 18	Asst. Topographical Surveyor	Ditto	200 0 0	Sept. 12, 1866	Oct. 1, 1872	10 6 19	No. 3 or C. P. and Vizagapatam Agency, Topogl. Survey.	Including leave on medical certificate from 7th Nov. 1874 to 17th Apl. 1876.
102	" G. W. Jarbo	...	L. S.	Asst. Revenue Surveyor	Ditto	200 0 0	Nov. 1, 1866	Nov. 1, 1872	7 6 0	5th or Banda District Revenue Survey, N. W. P.	Sick leave for 15 days from 28th May to 9th June 1862.
103	" G. H. Cooke	...	L. S.	Asst. Supdt., Revenue Survey	Ditto	600 0 0	Dec. 6, 1866	April 1, 1874	10 3 26	10th or 1st Deccan Topogl. Survey, Bombay Presidency.	
104	Captain H. S. Cowan, s. c.	...	P. H.	Ditto	Ditto	749 1 6	Jan. 19, 1867	Ditto	...	8th or Western Soane Irri. Survey, Dist. Shahabad, Behar.	Including Rs. 149-1-0 personal allowance.
105	Mr. J. R. Scott	...	L. S.	Asst. Revenue Surveyor	Ditto	200 0 0	Ditto	May 1, 1870	6 0 27	5th or Banda District Revenue Survey, N. W. P.	
106	" P. J. W. Doran	...	L. S.	Asst. Topographical Surveyor	Ditto	200 0 0	Feb. 1, 1867	April 1, 1873	5 10 26	No. 1 or Gwalior and C. I. Topogl. Survey.	
107	" C. W. Wilson	...	L. S.	Asst. Revenue Surveyor	3rd grade ...	160 0 0	*June 21, 1867	Oct. 1, 1870	8 11 22	14th or Ganges Dearah Reve. Surv., Bengal.	* Commencement of second service. Sick leave for 3 months from 1st March 1869. Ditto for 2 months from 1st August 1869.
108	" J. McHatton	...	L. S.	Ditto	2nd grade ...	200 0 0	July 1, 1867	July 1, 1870	4 8 14	Supdt. of Reve. Surveys' Office, Calcutta.	
109	Captain H. S. Hutchinson, s. c.	...	P. H.	Asst. Supdt., Revenue Survey	Ditto	749 1 6	Aug. 13, 1867	April 1, 1874	...	11th or 2nd Deccan Topogl. Survey, Bombay Presidency.	Including Rs. 149-1-0 personal allowance.

General List of the Officers of the Topographical and Revenue Survey Departments on the 1st April 1877—continued.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st Apl. 1877.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
110	Mr. W. W. McNair	...	26 7 18	Asst. Topographical Surveyor	2nd grade...	200 0 0	Sept. 1, 1867	Oct. 1, 1872	4 6 18	No. 8 or Nundydroog Division, Mysore Survey.	
111	" E. J. Martin	...	26 1 15	Asst. Revenue Surveyor	3rd grade ...	160 0 0	Sept. 16, 1867	May 27, 1874	4 1 15	6th or Eastern Soane Irrig. Surv., Dist. Gya, Behar.	Office Asst. from 16th Sept. 1867 to 31st July 1870.
112	" H. T. Kitchen	...	28 9 23	Asst. Topographical Surveyor	2nd grade ...	200 0 0	Nov. 1, 1867	Nov. 1, 1873	6 9 23	No. 5 or Bhopal and Malwa Topogl. Survey.	
113	" A. Cooper	...	36 5 4	Ditto	Ditto	200 0 0	Dec. 1, 1867	April 1, 1874	14 2 10	No. 3 or C. P. and Vizagapatam Agency Topographical Survey.	Service reckoned under old rules. Includes previous service in Pegu Survey from 2nd Jan. 1863 to 30th Nov. 1867.
114	" J. H. Wilson	L. S.	30 8 23	Ditto	Ditto	200 0 0	April 1, 1868	Ditto	8 8 23	No. 4 or N. E. Divn., C. P. Topogl. Survey.	
115	" W. H. Lilley	...	28 3 28	Ditto	3rd grade ...	160 0 0	May 1, 1868	May 1, 1871	6 3 28	No. 5 or Bhopal and Malwa Topogl. Survey.	
116	" S. O. Madras	...	26 7 16	Asst. Revenue Surveyor	2nd grade ...	200 0 0	July 6, 1868	July 6, 1874	4 7 16	4th or Moradabad and Budaun Districts Reve. Surv., N. W. P.	
117	Captain R. Beavan, s. c.	P. H.	32 6 11	Asst. Supdt., Revenue Survey	Ditto	624 1 6	July 17, 1868	April 1, 1874	...	1st or Dehra Ismail Khan District Revenue Survey, Punjab.	Rs. 24-1-6 personal allowance.
118	Mr. T. F. Freeman	L. S.	26 0 27	Asst. Revenue Surveyor	Ditto	200 0 0	Sept. 9, 1868	Sept. 9, 1874	4 0 27	5th or Banda Dist. Reve. Surv., N. W. P.	
119	" J. O'Toole	...	26 1 22	Ditto	3rd grade ...	...	Sept. 10, 1868	Mar. 10, 1872	2 2 28	8th or Western Soane Irrign. Survey, District Shahabad, Behar.	Sick leave for 9 months from 7th May 1876, extended for a further period of 6 months.
120	" G. C. Swiney	...	27 9 4	Ditto	2nd grade ...	200 0 0	Sept. 17, 1868	Dec. 1, 1874	5 9 4	10th or 1st Deccan Topogl. Survey, Bombay Presidency.	
121	" A. C. W. LeMarchand	L. S.	26 4 15	Ditto	3rd grade ...	160 0 0	Nov. 2, 1868	Nov. 2, 1871	4 4 15	Ditto	
122	" J. Murphy	...	24 8 19	Proby. Asst. Revenue Surveyor	4th grade ...	120 0 0	Nov. 22, 1868	Nov. 1, 1871	2 8 19	5th or Banda District Revenue Survey, N. W. P.	Office Asst. from 22nd Nov. 1868 to 31st Oct. 1871.
123	" W. D. Corbett	...	26 10 0	Asst. Revenue Surveyor	3rd grade ...	160 0 0	Dec. 1, 1868	May 30, 1874	4 10 0	On special duty Dhanwar and Chota Nagpore Estates Survey, Bengal.	Office Asst. from 1st Dec. 1868 to 31st July 1870.
124	" J. S. Swiney	...	26 3 12	Ditto	Ditto	160 0 0	Jan. 5, 1869	Jan. 5, 1872	4 3 12	6th or Eastern Soane Irrign. Surv., Dist. Gya, Behar.	
125	Captain E. H. Steel, s. c.	H. S.	35 10 26	Asst. Supdt., Revenue Survey	2nd grade ...	624 1 6	*Jan. 26, 1869	April 1, 1874	...	2nd or Rohtak and Sirsa Districts Revenue Survey, Panjab.	* Commencement of second service, including Rs. 24-1-6 personal allowance.
126	Mr. G. L. R. Scott	L. S.	25 10 15	Asst. Revenue Surveyor	3rd grade ...	160 0 0	Mar. 1, 1869	Mar. 1, 1872	3 10 15	6th or Eastern Soane Irrign. Surv., Dist. Gya, Behar.	
127	" W. J. Lincoln	L. S.	25 6 22	Ditto	Ditto	160 0 0	April 1, 1869	April 1, 1872	3 6 22	4th or Moradabad and Budaun Dists. Reve. Surv., N. W. P.	
128	" B. Anderson	L. S.	25 10 15	Ditto	Ditto	160 0 0	April 20, 1869	June 29, 1872	3 10 15	2nd or Rohtak and Sirsa Dists. Reve. Surv., Punjab.	
129	" T. Shaw	L. S.	24 4 15	Ditto	Ditto	160 0 0	April 21, 1869	May 1, 1873	2 4 15	8th or Western Soane Irrign. Surv., Dist. Shahabad, Behar.	
130	" H. E. Gastrell	L. S.	28 1 8	Asst. Supdt., Revenue Survey	2nd grade ...	600 0 0	April 26, 1869	April 1, 1874	4 11 1	5th or Banda Dist. Rev. Surv., N. W. P.	Leave on medical certificate from 23rd Sept. 1875 to 23rd Sep. 1876; again for one year from 25th Jan. 1877.
131	" W. Robert	...	26 1 3	Asst. Topographical Surveyor	3rd grade ...	160 0 0	Aug. 21, 1869	Oct. 1, 1872	4 1 3	No. 6 or Khasi & Garo Hills Topogl. Surv.	
132	" W. H. Penrose	L. S.	25 5 24	Asst. Revenue Surveyor	Ditto	160 0 0	Aug. 11, 1869	June 4, 1873	3 5 24	11th or 2nd Deccan Topogl. Survey, Bombay Presidency.	
133	Captain J. R. Wilmer, s. c.	H. S.	36 2 12	Asst. Supdt., Topogl. Survey	1st grade ...	748 1 6	Aug. 24, 1869	April 1, 1874	...	In charge No. 5 or Malwa and Bhopal Topogl. Survey.	Rs. 149-1-6 personal allowance.
134	Mr. F. E. Warde	...	25 6 24	Asst. Topographical Surveyor	3rd grade ...	160 0 0	Sept. 1, 1870	Sept. 1, 1873	3 6 24	No. 2 or Khandesh and Bombay Native States Topogl. Survey.	
135	" C. T. Templeton	...	24 6 27	Ditto	Ditto	160 0 0	Ditto	Ditto	2 6 27	No. 1 or Gwalior and C. I. Topogl. Surv.	
136	" A. D. Smart	...	46 5 17	Revenue Surveyor	Ditto	350 0 0	†Oct. 1, 1870	Oct. 1, 1870	6 6 0	Supdt. of Reve. Surveys' Office, Calcutta	† Commencement of second service.
137	" G. E. Parker	...	27 1 18	Asst. Revenue Surveyor	Ditto	160 0 0	Nov. 18, 1870	July 8, 1874	5 1 18	12th or Midnapore Dist. Reve. Surv., Bengal.	
138	" J. McCay	...	23 5 23	Asst. Topographical Surveyor	Ditto	160 0 0	Dec. 1, 1870	Dec. 1, 1873	1 5 23	No. 3 or Central Provinces and Vizagapatam Agency Topogl. Survey.	
139	Lieut. G. W. Martin, s. c.	H. S.	29 10 2	Asst. Supdt., Revenue Survey	Ditto	...	Mar. 24, 1871	April 1, 1874	...	...	On furlough, p. a., 2 years, from 15th November 1875.
140	Lieut. R. G. Woodthorpe, n. e.	L. S.	32 6 8	Asst. Supdt., Topogl. Survey	Ditto	670 0 0	July 14, 1871	April 1, 1874	...	No. 6 or Khasi and Garo Hills Topogl. Survey.	
141	Mr. P. E. Heberlet	...	22 8 1	Proby. Asst. Revenue Surveyor	4th grade ...	120 0 0	Aug. 9, 1871	Sept. 12, 1872	0 8 1	7th or Khoordah Estate Survey, Orissa	Apprentice from 3rd Aug. 1871 to 11th Sept. 1872.
142	Lieut. E. P. Leach, n. e.	L. S.	29 11 29	Asst. Supdt., Topogl. Survey	3rd grade ...	670 0 0	Oct. 6, 1871	April 1, 1874	...	No. 7 or Rajpootana and Simla Topogl. Survey.	
143	Mr. C. W. J. Ford	...	24 0 6	Proby. Asst. Revenue Surveyor	4th grade ...	120 0 0	Nov. 1, 1871	...	2 0 6	4th or Moradabad and Budaun Dists. Reve. Surv., N. W. P.	
144	" W. C. G. Barckley	...	25 5 10	Asst. Topographical Surveyor	3rd grade ...	...	Dec. 1, 1871	Feb. 1, 1874	2 11 10	...	On special sick leave to Europe for 6 months, from 6th April 1876, granted extension for 8 months.—Further extension of special leave for 8 months. Apprentice from 1st to 31st December 1871.
145	" A. W. Smart	...	26 1 1	Proby. Asst. Revenue Surveyor	4th grade ...	120 0 0	Jan. 1, 1872	...	4 1 1	6th or Eastern Soane Irrig. Surv., Dist. Gya, Behar.	
146	Lieut. A. J. C. Scott, s. c.	H. S.	28 7 8	Asst. Supdt., Revenue Survey	3rd grade ...	500 0 0	Jan. 17, 1872	April 1, 1874	...	4th or Moradabad and Budaun Dists. Reve. Surv., N. W. P.	
147	Mr. B. M. Wilson	...	29 11 17	Proby. Asst. Revenue Surveyor	4th grade ...	120 0 0	Nov. 15, 1872	...	5 2 0	12th or Midnapore Dist. Reve. Surv., Bengal.	Apprentice from 1st February to 14th November 1872.
148	" H. G. Young	H. S.	25 11 19	Ditto	Ditto	120 0 0	Sept. 1, 1872	...	3 11 19	5th or Banda District Revenue Survey, N. W. P.	

General List of the Officers of the Topographical and Revenue

Survey Departments on the 1st April 1877 —concluded.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st Apl. 1877.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
149	Mr. R. R. Dickinson ...	L. S.	25 8 6	Proby. Asst. Revenue Surveyor ...	4th grade ...	120 0 0	April 16, 1873	.....	3 8 6	10th or 1st Deccan Topogl. Survey, Bombay Presidency.	Apprentice from 1st April 1872 to 16th April 1873.
150	" G. Vander Beek ...	...	27 6 15	Asst. Topographical Surveyor ...	Ditto ...	120 0 0	July 1, 1872	.....	4 9 0	No. 3 or Central Provinces and Vizagapatam Agency Topographical Survey.	
151	" G. H. O'Donel ...	...	29 7 18	Proby. Asst. Revenue Surveyor ...	Ditto ...	120 0 0	July 23, 1872	.....	4 5 9	8th or Western Soane Irrign. Surv., Dist. Gya, Behar.	Commencement of second service. Sick leave from 1st April to 30th December 1874.
152	" W. M. Kelly ...	...	22 7 25	Asst. Topographical Surveyor ...	Ditto ...	120 0 0	Oct. 1, 1872	.....	0 7 25	No. 7 or Rajpootana and Simla Topogl. Survey.	
153	" J. C. Murray ...	...	24 7 16	Ditto ...	Ditto ...	120 0 0	Ditto ...	.....	2 7 16	No. 5 or Bhopal and Malwa Topogl. Survey.	
154	" A. Kitchen ...	...	24 2 5	Ditto ...	Ditto ...	120 0 0	Ditto ...	.....	2 2 5	Ditto ditto.	
155	" P. White ...	...	26 5 8	Ditto ...	Ditto ...	120 0 0	Ditto ...	.....	4 5 8	No. 8 or Nundydroog Division, Mysore Topogl. Survey.	
156	" E. P. S. Hill ...	...	22 9 17	Proby. Asst. Revenue Surveyor ...	Ditto ...	120 0 0	Nov. 16, 1872	.....	0 9 17	4th or Moradabad and Budaun Dists. Revenue Survey, N. W. P.	
157	" E. H. S. Gaspar ...	...	23 4 16	Ditto ...	Ditto ...	120 0 0	Ditto ...	.....	1 0 16	12th or Midnapore Dist. Reve. Surv., Bengal.	Sick leave for 4 months from 1st September to 31st December 1876.
158	" E. B. M. Drew ...	...	22 11 10	Ditto ...	Ditto ...	120 0 0	May 5, 1873	.....	0 11 10	5th or Banda Dist. Revenue Survey, N. W. P.	
159	" C. T. J. Dease ...	...	21 9 4	Ditto ...	Ditto ...	120 0 0	Dec. 1, 1873	.....	Nil ...	11th or 2nd Deccan Topogl. Survey, Bombay Presidency.	Office Asst. from 1st June 1873 to 30th November 1874.
160	" E. Graham ...	L. S.	23 5 0	Proby. Asst. Topogl. Surveyor ...	Ditto ...	120 0 0	Aug. 11, 1873	.....	1 5 0	No. 2 or Khandesh and Bombay Native States Topographical Survey.	Previous service as Sub-Surveyor, from 1st Nov. 1872.
161	" G. L. Fleming ...	...	23 0 0	Ditto ...	Ditto ...	120 0 0	Ditto ...	.....	1 0 0	No. 8 or Nundydroog Div., Mysore Topogl. Survey.	Previous service as apprentice from 1st October 1872.
162	" G. R. Copping ...	...	23 9 6	Ditto ...	Ditto ...	120 0 0	Ditto ...	.....	1 9 6	No. 5 or Bhopal and Malwa Topogl. Survey.	
163	" G. A. Knight ...	...	22 5 9	Ditto ...	Ditto ...	120 0 0	Ditto ...	.....	0 5 9	No. 8 or Nundydroog Div., Mysore Topogl. Survey.	
164	" P. A. Peters ...	L. S.	22 3 23	Proby. Asst. Revenue Surveyor ...	Ditto ...	120 0 0	Nov. 1, 1873	.....	0 3 23	1st or Dehra Ismail Khan District Revenue Survey, Punjab.	
165	" H. R. Adels ...	...	27 0 25	Ditto ...	Ditto ...	120 0 0	Feb. 19, 1874	.....	3 1 4	14th or Ganges Dearah Reve. Surv., Bengal.	Absent without leave 6 days in June 1874.
166	" C. S. Kraal ...	...	23 6 6	Ditto ...	Ditto ...	120 0 0	July 24, 1874	.....	1 6 6	2nd or Rohtak and Sirsa Districts Reve. Survey, Punjab.	
167	Lieut. J. R. Hobday, s. c. ...	H. S.	26 8 16	Asst. Supdt., Topogl. Survey ...	3rd grade ...	500 0 0	Sept. 11, 1874	.....	...	No. 1 or Gwalior and Central India Topogl. Survey.	Joined as a Sub-Surveyor on 3rd July 1872.
168	Mr. Duncan Campbell ...	...	24 4 13	Asst. Topogl. Surveyor ...	4th grade ...	120 0 0	Nov. 1, 1874	.....	2 4 13	No. 3 or Central Provinces and Vizagapatam Agency, Topogl. Survey.	
169	" Thos. Campbell ...	...	20 2 16	Proby. Asst. Revenue Surveyor ...	Ditto ...	120 0 0	May 1, 1875	.....	...	6th or Eastern Soane Irrigation Survey, District Gya, Behar.	
170	" L. F. Berkeley ...	...	22 7 3	Ditto ...	Ditto ...	120 0 0	Aug. 16, 1875	.....	0 7 3	4th or Moradabad and Budaun Dists. Revenue Survey.	

Disposition List of Officers of the Surveyor General's Office, Head-Quarters, Calcutta, and of the Topographical Survey Department, on the 1st April 1877.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual cost of Party.	Officer in charge, Surveyors and Assistant Surveyors.	Number in Graded List.	Rank and Grade.	Date of assuming charge.	REMARKS.
		Sub-Surveyors.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Burkundazes.	Apothecary.						
		No.	No.	No.	No.	No.	No.	Rs.					
	Calcutta—Head-Quarters ... ..	...	...	...	...	...	...	.....
1	Native States, Central India and Rajpootana Agencies, viz., Gwalior, Tonk, Pertabgarh, Udepur.	6	...	92	1	10	...	60,301	Captain Charles Strahan, B. E. (in charge) ... 71 Lieut. J. R. Hobday, s. c. ... 167 Mr. H. J. Bolst ... 14 " C. A. R. Scanlan ... 70 " W. J. Cornelius ... 99 " P. J. W. Doran ... 106 " C. T. Templeton ... 135	Deputy Superintendent, 3rd grade ... Assistant Superintendent, 3rd grade. Surveyor, 1st grade. Assistant Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 2nd grade. Ditto, 3rd grade.	June 1867		
2	Khandesh and Bombay Native States	9	1	110	1	13	...	56,803	H. Horst, Esq., (in charge) ... 19 Mr. A. J. Wilson ... 42 " A. G. Wyatt ... 52 " F. E. Warde ... 134 " E. Graham ... 160	Asst. Supdt., 1st grade, Officiating ... Surveyor, 3rd grade. Ditto, 4th grade. Asst. Surveyor, 3rd grade. Proby. Asst. Surveyor, 4th grade.	Oct. 1874		
3	Bastar State	1	...	31	...	7	1	53,454	Capt. T. H. Holdich, B. E. (in charge) ... 97 Mr. J. A. May ... 43 " F. Adams ... 44 " T. E. M. Claudius ... 69 " W. F. Pettigrew ... 101 " A. Cooper ... 113 " J. McCay ... 138 " G. VanderBeek ... 150 " Duncan Campbell ... 168	Asst. Supdt., 1st grade ... Surveyor, 3rd grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 4th grade. Ditto, 4th grade.	Dec. 15, 1873	Will be absorbed during the recess season.	
4	Districts of Bilaspur, Mandla and Balaghât, in the Central Provinces.	3	1	75	1	10	...	49,600	Lieut.-Colonel G. C. Depree, s. c. (in charge) ... 20 Mr. G. A. McGill ... 21 " J. A. Vanderputt ... 27 " J. H. Wilson ... 114	Depy. Supdt., 1st grade ... Surveyor, 2nd grade. Ditto, 2nd grade. Assistant Surveyor, 2nd grade.	March 1856 ...	Will be absorbed during the recess season.	

Disposition List of Officers of the Topographical Survey

Department of India on the 1st October 1877 —concluded.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual cost of Party.
		Sub-Surveyors.	Writers.	Flaxmen and Carriers.	Hospital Assis-tant.	Barkundazes.	Apothecary.	
		No.	No.	No.	No.	No.	No.	Rs.
5	Sehore, Augar, Indore, Bhopawar, Agencies of Central India Agency.	4	...	171	1	8	...	61,430
6	Naga Hills on the Eastern Frontier, Assam	1	2	93	1	11	...	56,540
7	Meywar, Marwar, Godwar, Shahpura, Mhairwara and Ajmere in the Rajpootana Agency, and at Simla.	7	2	102	1	7	...	44,863
8	Mysore,—Nundydroog Division	6	1	111	1	14	...	42,913*
9	Mysore,—Nagar Division	6	1	106	1	29	...	38,448*

* Cost of preliminary triangulation only; no final survey completed.

Officer in charge, Surveyors and Assistant Surveyors.	Number in Graded List.	Rank and Grade.	Date of assum-ing charge.	REMARKS.
Captain J. R. Wilmer, s. c. (in charge) ...	133	Assistant Supdt., 2nd grade	Sept. 1874	Temporarily transferred from G. T. Survey.
Lieut. St. G. C. Gore, R. E. ...	...	Ditto, 3rd grade	...
Mr. D. Atkinson ...	26	Surveyor, 2nd grade.	...	
" C. F. Hamer ...	68	Asst. Surveyor, 1st grade.	...	
" E. A. Wainright ...	92	Ditto, 2nd grade.	...	
" H. T. Kitchen ...	112	Ditto, 2nd grade.	...	
" W. H. Lilley ...	115	Ditto, 3rd grade.	...	
" J. C. Murray ...	153	Ditto, 4th grade.	...	
" A. Kitchen ...	154	Ditto, 4th grade.	...	
" G. R. Copping ...	162	Proby. Surveyor, 4th grade.	...	
Captain W. F. Badgley, s. c. (in charge) ...	93	Offg. Depy. Supdt., 3rd grade	Aug. 11, 1873	
Lieut. R. G. Woodthorpe, R. E. ...	140	Asst. Supdt., 2nd grade.	...	
Mr. M. J. Ogle ...	66	Surveyor, 4th grade.	...	
" A. W. Chennell ...	81	Asst. Surveyor, 1st grade.	...	
" W. Robert ...	131	Ditto, 3rd grade.	...	
Lieutenant E. P. Leach, R. E. (in charge) ...	142	Asst. Supdt., 2nd grade.	Oct. 1875	On furlough to Europe for 1 year, from 28th July 1876.
Mr. E. S. P. Atkinson ...	51	Surveyor, 4th grade.	...	
" R. Todd ...	74	Asst. Surveyor, 1st grade.	...	
" C. Tapsell ...	83	Ditto, 1st grade.	...	
" W. M. Kelly ...	152	Ditto, 4th grade.	...	
Capt. Geo. Strahan, R. E. (in charge) ...	55	Depy. Supdt., 2nd grade	Oct. 1875	Party formed 1st October 1875.
Mr. R. W. Chew ...	29	Surveyor, 2nd grade.	...	
" R. D. Farrell ...	45	Ditto 4th grade.	...	
" A. James ...	82	Asst. Surveyor, 1st grade.	...	
" F. Kitchen ...	86	Ditto, 1st grade.	...	
" W. Stotesbury ...	85	Ditto, 1st grade.	...	
" J. A. Barker ...	94	Ditto, 2nd grade.	...	
" W. W. McNair ...	110	Ditto, 2nd grade.	...	
" P. White ...	155	Ditto, 4th grade.	...	
" G. L. Fleming ...	161	Ditto, 4th grade.	...	
" G. A. Knight ...	163	Ditto, 4th grade.	...	
Major H. R. Thullier, R. E. (in charge)*	Depy. Supdt., 1st grade.	Oct. 1875	Party formed 1st October 1875. Members of the G. T. Survey. † G. T. Survey.
Captain J. R. McCullagh, R. E. ...	...†	Asst. Supdt., 2nd grade	
Mr. H. E. T. Keelan ...	...	Surveyor, 3rd grade	
" L. J. Pocock ...	...	Ditto, 4th grade	
" J. W. Macdougall ...	...	Asst. Surveyor, 1st grade ...	
" Hugh Todd ...	...	Ditto, 1st grade.	
" T. Kenney ...	...	Ditto, 1st grade.	
" W. Oldham ...	...	Ditto, 3rd grade.	
" J. M. Kennedy ...	...	Ditto, 4th grade.	

* For numbers in General List of No. 9 Party, please refer to G. T. Survey List.

Disposition List of Officers of the Revenue Survey Department on the 1st April 1877.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE DEPARTMENT IN ALL GRADES.							Annual cost of Party.
		Surveyors.	Asst. Surveyors.	Sub-Surveyors, &c.	Levelers.	Chainmen or Measurers.	Hospital Assistants.	Barkundazes.	
		No.	No.	No.	No.	No.	No.	No.	Rs.
	Calcutta Head-Quarters ...	2	2	...	...	...	...	...	...
1st or Dera Ismail Khan District Survey, Punjab.	Dera Ismail Khan District ...	4	3	30	...	200	1	15	Profnl. 80,928
2nd or Rohtak and Sirsa Districts Survey, Punjab.	Rohtak and Sirsa Districts ...	3	3	30	...	200	1	15	74,630
4th or Moradabad and Budaun Districts Survey, N. W. Provinces.	Moradabad and Budaun Districts ...	2	4	31	1	140	1	13	Profnl. 62,706; Leveling 3,104.
5th or Banda District Survey, N. W. Provinces.	Banda District ...	2	5	25	1	188	1	17	Profnl. 68,810; Leveling 3,083.
6th or Eastern Soane Irrigation Survey, District Gya, Behar.	District Gya, Behar ...	1	6	30	...	200	1	14	Profnl. 64,938
7th or Khoordah Estate Survey, Orissa	Khoordah Estate, Orissa ...	2	3	31	...	181	1	16	Profnl. 72,306

Officers in charge, Surveyors and Assistant Surveyors.	Number in Graded List.	Rank and Grade.	Date of assuming charge.	REMARKS.
Col. D. C. Vanrenen, B. A. Capt. F. Coddington, s. c.	4 53	Supdt. of Revenue Surveys Deputy Supdt. of Reve. Surv., 3rd grade	Mar. 11, 1867 Mar. 19, 1877	
Col. H. C. Johnstone, c. B., s. c. (in charge.) Captain R. Beavan, s. c. Mr. G. Housden ... " W. S. Buttress ... " A. J. Gibson ... " G. B. Scott ... " W. J. Smith ... " P. A. Peters ...	17 117 7 41 50 64 100 164	Depty. Supdt. of Reve. Survey, 1st grade Asst. Supdt. of Reve. Survey, 2nd grade Surveyor, 1st grade. Ditto, 4th grade. Ditto, ditto. Ditto, ditto. Assistant Surveyor, 2nd grade. Proby. Assistant Surveyor, 4th grade.	Oct. 15, 1873 Oct. 1, 1874	
Lieut.-Col. A. D. Vanrenen, s. c. (in charge.) Capt. E. H. Steel, s. c. Mr. E. Loftie ... " G. H. Blyth ... " J. S. Pemberton ... " P. Ford ... " B. Anderson ... " C. S. Kraal ...	24 125 6 5 46 75 128 166	Depty. Supdt., 1st grade ... Assistant Supdt., 2nd grade Surveyor, 2nd grade. Ditto, ditto. Surveyor, 4th grade. Assistant Surveyor, 1st grade. Ditto, 3rd grade. Proby. Asst. Surv., 4th grade.	Nov. 2, 1876	
Captain W. Barron, s. c. (in charge.) Captain H. Lees Smith, s. c. ... Lieut. A. J. C. Scott, s. c. ... Mr. W. Sinclair ... " H. T. Hanby ... " S. O. Madras ... " W. J. Lincoln ... " C. W. J. Ford ... " E. P. S. Hill ... " L. F. Berkeley ...	54 95 146 22 59 116 127 143 156 170	Depty. Supdt. of Reve. Survey, 3rd grade Asst. Supdt., 1st grade (Offg.) Asst. Supdt. of Reve. Surv., 3rd grade... Surveyor, 3rd grade. Ditto, 4th grade. Asst. Surv., 2nd grade. Ditto, 3rd grade. Proby. Asst. Surv., 4th grade. Ditto, ditto. Ditto, ditto.	Nov. 12, 1873 April 24, 1876	On furlough, private affairs, 2 years, from 24th April 1878.
Col. F. C. Anderson, s. c. (in charge.) " H. E. Gastrell Esq. Mr. C. W. Campbell ... " E. Little ... " G. W. Jarbo ... " J. R. Scott ... " T. F. Freeman ... " J. Murphy ... " H. G. Young ... " E. P. M. Drew ...	16 130 18 39 102 105 118 122 148 158	Depty. Supdt. of Reve. Survey, 1st grade Offg. Asst. Supdt., 2nd grade Surveyor, 2nd grade. Ditto, 4th grade. Assistant Surveyor, 2nd grade. Ditto, 2nd grade. Ditto, 2nd grade. Proby. Asst. Surv., 4th grade. Ditto, ditto. Ditto, ditto.	Nov. 1, 1871	On leave on medical certificate for one year from 25th January 1877.
E. T. S. Johnson, Esq. (in charge) H. B. Talbot, Esq. Mr. P. A. Cowley ... " J. H. O'Donnell ... " J. S. Swiney ... " G. L. R. Scott ... " E. J. Martin ... " A. W. Smart ... " T. Campbell ...	10 11 35 72 124 126 111 145 169	Depty. Supdt. of Reve. Surv., 3rd grade Asst. Supdt. of Reve. Survey, 2nd grade Surveyor, 3rd grade. Asst. Surv., 1st grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 3rd grade. Proby. Asst. Surv., 4th grade. Ditto, ditto.	Oct. 1, 1872 Jan. 1, 1873	
R. B. Smart, Esq. (in charge) E. C. Barrett, Esq. Mr. W. R. Vynll ... " H. Dowman ... " D. A. King ... " G. Campbell ... " P. E. Heberlet ...	3 60 23 58 80 78 141	Depty. Supdt., 2nd grade ... Asst. Supdt., 2nd grade ... Surveyor, 4th grade. Ditto, ditto. Asst. Surv., 1st grade. Ditto, 3rd grade. Proby. Asst. Surv., 4th grade.	Sept. 19, 1872 Oct. 1, 1872	

Disposition List of Officers of the Revenue Survey Department on the 1st April 1877—concluded.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE DEPARTMENT IN ALL GRADES.							Annual cost of Party.	Officers in charge, Surveyors and Assistant Surveyors.	Number in Graded List.	Rank and Grade.	Date of assuming charge.	REMARKS.
		Surveyors.	Asst. Surveyors.	Sub-Surveyors, &c.	Levelers.	Chainmen or Measurers.	Hospital Assistant.	Barkoundases.						
8th or Western Soane Irrigation Survey, District Shahabad, Behar.	Shahabad District, Behar	2	2	19	...	130	1	12	65,144	Lieut.-Col. R. E. Oakes, s. c. (in charge) ... 33 Major J. Sconce, s. c. ... 38 Captain S. H. Cowan ... 104 Mr. F. Grant ... 25 " G. Rae ... 36 " T. Shaw ... 129 " G. H. O'Donnell... 151	On furlough, private affairs, 2 years, from 23rd March 1876.
10th or 1st Deccan Topographical Survey, Bombay.	Nasik Collectorate	1	4	22	...	165	1	16	60,838	Major D. Macdonald, s. c. (in charge) ... 48 G. H. Cooke, Esq. ... 139 Lieut. G. W. Martin, s. c. ... 103 Mr. A. M. Lawson ... 61 " J. Newland ... 73 " G. C. Swiney ... 120 " A. C. W. Lemarchand ... 121 " R. B. Dickenson ... 149	Depty. Supdt. of Reve. Survey, 3rd grade ... Asst. Supdt., 3rd grade ... Asst. Supdt., 2nd do. ... Surveyor, 4th do. ... Asst. Surv., 2nd do. ... Ditto 2nd do. ... Ditto 3rd do. ... Proby. Asst. Surv., 4th grade.	Dec. 23, 1875 Nov. 10, 1876	On furlough, private affairs, for 2 years, from 15th Nov. 1876.	
11th or 2nd Deccan Topographical Survey, Bombay.	Ahmadnagar Collectorate	2	3	17	...	165	1	12	61,744	Major H. C. B. Tanner, Bom. s. c. ... 57 Captain H. S. Hutchinson, s. c. (in charge) ... 109 Mr. S. M. Smylie ... 40 " T. W. Reilly ... 37 " J. T. O. Coxen ... 65 " W. H. Penrose... 132 " C. T. J. Druse ... 159	Oct. 1, 1872	On furlough, private affairs, for six months, from 25th August 1876; extended for two months and seven days.
12th or Midnapore District Survey, Bengal.	Midnapore District	2	3	38	...	200	1	15	68,030	Lieut.-Col. J. Macdonald, s. c. (in charge) ... 15 Capt. W. H. Wilkins, s. c. ... 63 " E. W. Samuells, s. c. ... 76 Mr. James Todd ... 77 " C. David ... 9 " G. E. Parker ... 137 " B. M. Wilson ... 147 " E. H. S. Gasper ... 157	Depty. Supdt. of Reve. Survey, 2nd grade Asst. Supdt. of Reve. Surv., 1st do. Ditto ditto 1st do. Surveyor, 3rd grade. Ditto. Asst. Surveyor, 3rd grade. Proby. Asst. Surveyor, 4th grade. Ditto ditto.	Jan. 29, 1877 Dec. 1, 1876 Nov. 1, 1876		
14th or Ganges Dearah Survey, Bengal.	Ganges Dearah in Districts Furrcepore, Dacca and Backergunge.	1	4	30	...	200	1	17	68,889	J. Campbell, Esq. (in charge) ... 1 E. J. Jackson, Esq. ... 84 Mr. W. A. Wilson ... 49 " R. C. D. Ewing ... 96 " C. W. Wilson ... 107 " C. W. F. Seyers ... 88 " H. R. Adels ... 165	Asst. Supdt. of Reve. Survey, 1st grade Ditto ditto, 2nd do. Surveyor, 4th grade. Asst. Surveyor, 2nd grade. Ditto 3rd do. Ditto 3rd do. Proby. Asst. Surveyor, 4th grade.	Nov. 1, 1874 Dec. 1, 1872		
Cadastral Revision Survey, N. W. P.	Azamgarh, Agra and Hamirpur Districts.	1	1	3	...	15	...	13	26,564	Capt. D. C. Andrew, s. c. (in charge) ... 62 Mr. H. R. Littlewood ... 47 " W. T. Lane ... 91	Asst. Supdt. 1st grade, Offg. Dy. Supdt., 3rd grade (in charge). Surveyor, 4th grade. Asst. Surveyor, 1st grade.	Nov. 1, 1876		
Special Survey. Dahnvar and Chota Nagpore Estates	...	...	...	...	...	...	...	...	...	Captain J. E. Sandeman (in charge) ... 87 Mr. W. D. Corbett ... 123	Asst. Supdt., Reve. Survey, 1st grade ... Asst. Surveyor, 3rd grade.	Oct. 1, 1874	

Classified List of Officers of the Great Trigonometrical Survey Department as it stood on the 1st April 1877.

No. sanctioned. No. of Officers in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	SALARIES, INCLUDING ALLOWANCES.			REMARKS.
				Net Military Pay of Royal Engineer Officers.	Consolidated Salary.	TOTAL.	
				Rs. A. P.	Rs. A. P.	Rs. A. P.	
SUPERINTENDENT.							
<i>Consolidated salary Rs. 2,500.</i>							
1	Colonel J. T. Walker, Royal Engineers	Superintendent	...	.....	.....	2,565 5 0	
SENIOR BRANCH.							
DEPUTY SUPERINTENDENTS.							
<i>1st Grade—Consolidated salary Rs. 1,600.</i>							
1	Mr. J. B. N. Hennessey, M. A.	Deputy Superintendent, 1st grade	Computing Office	.....	.....	1,600 0 0	
2	Vacant	Ditto	.....	.....	.....	.....
<i>2nd Grade—Consolidated salary Rs. 1,300.</i>							
1	Major H. R. Thuillier, Royal Engineers	Deputy Superintendent, 2nd grade	.....	.....	.....	1,782 10 0	Officiating Deputy Superintendent, 1st grade. Transferred to Mysore Topographical Survey.
2	Lt. Col. C. T. Haig, Royal Engineers	Ditto	.....	.....	.....	.....	On furlough.
3	Major J. Herschel, Royal Engineers	Ditto	Computing Office	.....	.....	1,482 10 0	
4	Lt. Col. B. R. Branfill, Bengal Cavalry	Ditto	.....	.....	.....	.....	On furlough.
<i>3rd Grade—Consolidated salary Rs. 1,000.</i>							
1	Captain T. T. Carter, Royal Engineers	Deputy Superintendent, 3rd grade	Madras Party	.....	.....	1,140 0 0	
2	" W. M. Campbell, Royal Engineers	Ditto	No. 2 Extra Party	.....	.....	1,383 10 0	
3	" Henry Trotter, Royal Engineers	Ditto	.....	.....	.....	.....
4	Captain W. J. Heaviside, Royal Engineers	Ditto	No. 1 Extra Party	140 0 0	1,000 0 0	1,140 0 0	
5	Vacant	.....	.....	.....	.....	.....
ASSISTANT SUPERINTENDENTS.							
<i>1st Grade—Consolidated salary Rs. 750.</i>							
1	Major A. Pullan (Staff Corps)	Asst. Superintendent, 1st grade	Kattywar Survey	.....	.....	1,000 0 0	Officiating Deputy Superintendent, 3rd grade.
2	Captain M. W. Rogers, Royal Engineers	Ditto	Jodhpore Series	140 0 0	1,000 0 0	1,140 0 0	Ditto ditto.
3	" J. Hill, Royal Engineers	Ditto	Eastern Frontier Series	.....	.....	890 0 0	
4	Mr. W. H. Cole, M. A.	Ditto	Computing Office	.....	.....	750 0 0	
<i>2nd Grade—Consolidated salary Rs. 600.</i>							
1	Captain A. Baird, Royal Engineers	Asst. Superintendent, 2nd grade	Bombay Tidal and Leveling Party	140 0 0	750 0 0	890 0 0	Officiating Assistant Superintendent, 1st grade. On special duty in England.
2	" J. R. McCullagh, Royal Engineers	Ditto	.....	140 0 0	750 0 0	890 0 0	Ditto ditto. Transferred to Mysore Topographical Survey.
3	Mr. J. McGill	Ditto	Kattywar Survey	.....	.....	750 0 0	Officiating Assistant Superintendent, 1st grade.
4	" W. G. Beverley	Ditto	Burma Party	.....	.....	750 0 0	Ditto ditto.
<i>3rd Grade—Consolidated salary Rs. 500; for Civil Officers, Rs. 400.</i>							
1	Lieutenant H. J. Harman, Royal Engineers	Asst. Superintendent, 3rd grade	Assam Survey	70 0 0	600 0 0	670 0 0	Officiating Assistant Superintendent, 2nd grade.
2	Mr. E. C. Ryall	Ditto	Kumaun and Garhwál Survey	.....	.....	600 0 0	Ditto ditto.
3	Lieutenant St. G. C. Gore, B. E.	Ditto	.....	70 0 0	600 0 0	670 0 0	Ditto ditto. Transferred to the Topographical Branch under the Surveyor General.
4	" J. E. Gibbs, B. E.	Ditto	Guzerat Survey	70 0 0	600 0 0	670 0 0	Ditto ditto.
JUNIOR BRANCH.							
SURVEYORS.							
<i>1st Grade—Salary Rs. 500.</i>							
1	Mr. Harry Duhan	Surveyor, 1st grade	Correspondence Office	.....	.....	500 0 0	Personal Assistant to Superintendent.
2	" H. Beverley	Ditto	Eastern Frontier Series	.....	.....	500 0 0	
3	" J. Peyton	Ditto	Kumaun and Garhwál Survey	.....	.....	500 0 0	
4	" A. D'Souza	Ditto	Guzerat Survey	.....	.....	500 0 0	
<i>2nd Grade—Salary Rs. 400.</i>							
1	Mr. C. J. Neuville	Surveyor, 2nd grade	No. 1 Extra Party	.....	.....	400 0 0	
2	" L. H. Clarke	Ditto	Head-Quarters	.....	.....	400 0 0	
3	" W. Todd	Ditto	Kumaun and Garhwál Survey	.....	.....	400 0 0	
4	" J. Low	Ditto	Burma Party	.....	.....	400 0 0	

No. sanctioned. No. of Officers in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	SALARIES, INCLUDING ALLOWANCES.			REMARKS.
				Net Military Pay of Royal Engineer Officers.	Consolidated Salary.	TOTAL.	
				Rs. A. P.	Rs. A. P.	Rs. A. P.	
SURVEYORS—contd.							
<i>3rd Grade—Salary Rs. 350.</i>							
5	...						
1	Mr. C. Wood	Surveyor, 3rd grade	Computing Office				
2	" H. E. T. Keelan	Ditto				350 0 0	
3	" F. Bell	Ditto	Kattywar Party			350 0 0	Transferred to Mysore Topographical Survey.
4	" G. Atkinson	Ditto	Drawing Office			350 0 0	
5	Vacant					350 0 0	
<i>4th Grade—Salary Rs. 300.</i>							
8	...						
1	Mr. H. Peychers	Surveyor, 4th grade	Computing Office				
2	" G. Belcham	Ditto	Madras Party			300 0 0	
3	" J. W. Mitchell	Ditto	Eastern Frontier Series			300 0 0	
4	" L. J. Pocock	Ditto				300 0 0	
5	" A. Christie	Ditto	Guzerat Survey			300 0 0	Transferred to Mysore Topographical Survey.
6	" W. O'Sullivan	Ditto	Assam Survey			300 0 0	
7	" N. C. Gwynne	Ditto	Kattywar Survey			300 0 0	
8	" W. C. Price	Ditto	Jodhpore Series			300 0 0	
9	" C. H. McA'Fee	Ditto	Guzerat Survey			300 0 0	
ASSISTANT SURVEYORS.							
<i>1st Grade—Salary Rs. 250.</i>							
9	...						
1	Mr. T. H. Rendell	Asst. Surveyor, 1st grade	Tidal and Leveling Party				
2	" J. W. Macdougall	Ditto				250 0 0	
3	" Hugh Todd	Ditto				250 0 0	Transferred to Mysore Topographical Survey.
4	" E. J. Connor	Ditto	No. 1 Extra Ditto			250 0 0	Ditto ditto.
5	" J. Bond	Ditto	No. 2 Ditto			250 0 0	Leave on private affairs for 6 months, from 1st November 1876.
6	" C. D. Potter	Ditto	Madras Party			250 0 0	
7	" T. Kinney	Ditto				250 0 0	Transferred to Mysore Topographical Survey.
<i>2nd Grade—Salary Rs. 200.</i>							
6	...						
1	Mr. J. Hickie	Asst. Surveyor, 2nd grade	Guzerat Survey				
2	" W. Fielding	Ditto	Kattywar Survey			200 0 0	
3	" G. D. Cusson	Ditto	Guzerat Survey			200 0 0	
4	" E. W. Laseron	Ditto				200 0 0	Transferred to Mysore Revenue Survey, vide Department of Revenue, Agriculture and Commerce Notification No. 64, dated 30th January 1877.
5	" E. F. Litchfield	Ditto				200 0 0	Appointed to the Forest Department as Sub-Assistant Conservator—Department of Revenue, Agriculture and Commerce Notification No. 893, dated the 8th September 1876.
<i>3rd Grade—Salary Rs. 160.</i>							
8	...						
1	Mr. C. P. Torrens	Asst. Surveyor, 3rd grade	Jodhpore Series				
2	" A. Bryson	Ditto	Madras Party			160 0 0	
3	" W. Oldham	Ditto				160 0 0	Transferred to Mysore Topographical Survey.
4	" J. C. Clancey	Ditto	Eastern Frontier Series			160 0 0	
5	" J. O. Hughes	Ditto	Ditto			160 0 0	
6	" I. Pocock	Ditto	Kumaun and Garhwal Survey			160 0 0	
7	" G. T. Hall	Ditto	Kattywar Survey			160 0 0	
<i>4th Grade—Salary Rs. 120.</i>							
6	...						
1	Mr. J. F. McCarthy	Asst. Surveyor, 4th grade	Assam Party				
2	" D. J. Collins	Ditto	Burma Party			120 0 0	
3	" H. Corkery	Ditto	Kattywar Survey			120 0 0	
4	" P. F. Prunty	Ditto	Jodhpore Series			120 0 0	
5	" J. Keating	Ditto	Kattywar Survey			120 0 0	
6	" S. F. Norman	Ditto	Guzerat Survey			120 0 0	
7	" C. Norman	Ditto	Ditto			120 0 0	
8	" R. F. Warwick	Ditto	Kumaun and Garhwal Survey			120 0 0	
9	" J. M. Kennedy	Ditto				120 0 0	Transferred to Mysore Topographical Survey.

General List of Officers of the Great Trigonometrical Survey Department on the 1st April 1877.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to the Department.	Date of appointment to present grade.	*Period of service counting for pension.	Present post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
1	Mr. J. B. N. Hennessey, M. A. (Senior Branch).	Not passed ...	47 8 0	Deputy Superintendent	{ 1st gradet 1st grade	1,600 0 0	April 14, 1844	April 1, 1866 } April 1, 1877 }	29 9 16	In charge, Computing Office ...	3 years 10 months and 16 days' leave on medical certificate, of which 2 years count as service under the old rules.
2	" Harry Duhan ...	Ditto ...	50 2 22	Surveyor	1st grade ...	500 0 0	April 22, 1845	April 1, 1866	26 10 9	Personal Asst. to Supdt. (16 months and 4 days' furlough to Europe excluded).	Services reckoned under new rules.
3	" J. McGill (Senior Branch)	Ditto ...	46 5 9	Assistant Superintendent	{ 1st gradet 2nd grade	700 0 0	Oct. 1, 1851	April 1, 1873 } April 1, 1874 }	25 6 0	Kattywar Survey	Offg. Assistant Superintendent, 1st grade. Services reckoned under old rules.
4	Colonel J. T. Walker, R. E....	Passed ...	50 4 0	Superintendent	...	2,585 5 0	Dec. 1, 1853	Mar. 12, 1861	...	Superintendent.	
5	Mr. W. G. Beverley (Senior Branch)	Not passed ...	41 5 15	Assistant Superintendent	{ 2nd gradet 2nd grade	700 0 0	July 1, 1854	April 1, 1871 } April 1, 1874 }	22 9 0	In charge, Burma Party	Offg. Asst. Supdt., 1st grade; leave to Europe on medical certificate for 1 year, and 355 days included under old rules.
6	" E. C. Ryall (ditto)	Ditto ...	39 2 15	Ditto	{ 2nd gradet 3rd grade	600 0 0	April 25, 1855	April 1, 1873 } April 1, 1874 }	21 11 6	Kumaun and Garhwál Survey	225 days' sick leave included under old rules. Offg. Asst. Supdt., 2nd grade.
7	" H. Beverley	Ditto ...	38 5 3	Surveyor	1st grade...	500 0 0	June 14, 1855	April 1, 1871	21 9 17	Eastern Frontier Series	30 days' leave included under old rules.
8	" L. H. Clarke	Ditto ...	42 9 26	Ditto	2nd grade...	400 0 0	Nov. 26, 1855	Dec. 1, 1872	21 4 5	Head-Quarters.	
9	" C. J. Neuville	Ditto ...	42 9 12	Ditto	Ditto	400 0 0	Dec. 1, 1855	Oct. 1, 1871	21 4 0	No. 1 Extra Party ...	6 months' sick leave included under old rules.
10	" W. Todd	Ditto ...	38 4 21	Ditto	Ditto	400 0 0	Jan. 11, 1856	June 1, 1874	19 1 22	Kumaun and Garhwál Survey	4 years and 28 days' leave on medical certificate, of which 2 years count as service under old rules.
11	" A. D'Souza	Ditto ...	39 7 17	Ditto	1st grade ...	500 0 0	Feb. 19, 1856	Sept. 1, 1875	16 5 17	Guzerat Survey	340 days' furlough, and 77 days' medical leave excluded under new rules.
12	" J. Low	Ditto ...	37 1 0	Ditto	2nd grade...	400 0 0	Oct. 1, 1857	Aug. 1, 1875	19 6 0	Burma Party	392 days' sick leave, and 4 months' leave on private affairs included under old rules.
13	" C. Wood	Ditto ...	34 8 10	Ditto	3rd grade...	350 0 0	May 6, 1858	April 1, 1871	18 8 10	Computing Office	Services reckoned under old rules.
14	" H. E. T. Keelan	Ditto ...	34 0 1	Ditto	Ditto	350 0 0	Aug. 17, 1858	April 1, 1872	11 0 0	No. 1 Extra Party	11 months and 19 days' furlough excluded under the new rules, and 18 days' sick leave.
15	" F. Bell	Lower Standard	34 11 6	Ditto	Ditto	350 0 0	Ditto	June 1, 1873	10 9 19	Kattywar Survey	Furlough for 1 year and 17 days' subsidiary leave, and 13 months' medical leave excluded under new rules.
16	Lieut.-Col. B. R. Branfill, B. C.	Passed ...	43 4 8	Deputy Superintendent	{ 2nd gradet 2nd grade	...	Oct. 4, 1858	Oct. 1, 1871 } April 1, 1874 }	...	...	On furlough.
17	Major H. R. Thuillier, R. E....	Ditto ...	39 0 5	Ditto	{ 1st gradet 2nd grade	1,782 10 0	May 21, 1859	July 18, 1871 } April 1, 1874 }	...	Mysore Topographical Survey.	
18	Mr. G. Atkinson	Not passed ...	33 5 20	Surveyor	3rd grade...	350 0 0	Aug. 1, 1859	Jan. 1, 1874	17 5 20	Drawing Office	Services reckoned under old rules.
19	Lieut.-Col. C. T. Haig, R. E.	Ditto ...	42 8 15	Deputy Superintendent	{ 2nd gradet 2nd grade	...	Sept. 22, 1859	Oct. 1, 1867 } April 1, 1874 }	...	...	On furlough.
20	Major J. Herschel, R. E. ...	Passed ...	39 5 1	Ditto	{ 2nd gradet 2nd grade	1,482 10 0	Nov. 12, 1859	Oct. 1, 1867 } April 1, 1874 }	...	Computing Office.	
21	Mr. J. Peyton	Not passed ...	49 2 2	Surveyor	1st grade...	500 0 0	Feb. 3, 1860	April 1, 1874	17 1 26	Kumaun and Garhwál Survey	Services reckoned under old rules.
22	" J. W. Mitchell	Ditto ...	33 7 29	Ditto	4th grade...	300 0 0	Sept. 1, 1861	July 1, 1874	15 7 0	Burma Party	Ditto ditto
23	Captain T. T. Carter, R. E. ...	Passed ...	39 1 22	Deputy Superintendent	{ 2nd gradet 3rd grade	1,140 0 0	Mar. 1, 1862	Oct. 1, 1871 } April 1, 1874 }	...	Madras Party.	
24	Mr. H. Peychers	Not passed ...	34 3 18	Surveyor	4th grade...	300 0 0	April 8, 1862	June 1, 1874	14 11 23	Computing Office	Services reckoned under old rules.
25	" G. Belcham	Ditto ...	32 1 15	Ditto	Ditto	300 0 0	Nov. 1, 1862	Ditto	14 5 0	Madras Party	Ditto ditto.
26	Major A. Pullan, s. c. ...	Passed ...	41 0 0	Assistant Superintendent	{ 1st gradet 1st grade	1,000 0 0	Jan. 18, 1863	Oct. 1, 1866 } April 1, 1874 }	...	Offg. Depy. Supdt., 3rd grade	In charge, Kattywar Party.
27	Captain W. M. Campbell, R. E.	Ditto ...	37 8 12	Deputy Superintendent	{ 3rd gradet 3rd grade	1,383 10 0	Jan. 30, 1863	Feb. 1, 1867 } April 1, 1874 }	...	Ditto, 2nd do.	In charge, No. 2 Extra Party.
28	Mr. L. J. Pooock	Not passed ...	33 11 5	Surveyor	4th grade...	300 0 0	July 10, 1863	July 1, 1874	11 8 5	Mysore Topographical Survey	88 days' sick leave excluded.
29	" A. Christie	Higher Standard	31 6 1	Ditto	Ditto	300 0 0	Aug. 7, 1863	Oct. 1, 1874	9 6 1	Guzerat Survey.	
30	Captain H. Trotter, R. E. ...	Not passed ...	35 7 1	Deputy Superintendent	{ 3rd gradet 3rd grade	...	Sept. 5, 1863	Jan. 26, 1869 } April 1, 1874 }	...	Offg. Depy. Supdt., 2nd grade	On furlough.
31	Mr. W. O'Sullivan	Ditto ...	33 1 17	Surveyor	4th grade...	300 0 0	Oct. 1, 1863	Oct. 1, 1874	11 1 18	Assam Survey.	
32	" N. C. Gwynne	Ditto ...	34 0 25	Ditto	Ditto	300 0 0	Oct. 19, 1863	Ditto	12 0 25	Kattywar Survey.	
33	" W. C. Price	Ditto ...	30 9 7	Ditto	Ditto	300 0 0	Nov. 1, 1863	Ditto	8 9 7	Jodhpore Series.	
34	" C. H. McA'Fee	Lower Standard	27 4 15	Ditto	Ditto	300 0 0	Sept. 6, 1864	Aug. 1, 1875	5 4 16	Guzerat Survey.	
35	" T. H. Rendell	Not passed ...	32 8 9	Assistant Surveyor	1st grade...	250 0 0	Oct. 11, 1864	June 1, 1873	10 8 9	Tidal and Leveling Party.	

* Applies only to Officers who are under organization and the second is under the re-organization of 1st April 1874.
† Of the two grades here given, the first was under the longest in the Department standing first on the list. Their dates of first appointment to Department (column 8), and period of service counting for pension (column 10)

NOTE.—In this list the Officers have been arranged according to their length of service in the Department, the Officer who has been longest in the Department standing first on the list. Their dates of first appointment to Department (column 8), and period of service counting for pension (column 10)

General List of Officers of the Great Trigonometrical Survey Department on the 1st April 1877 — concluded.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to the Department.	Date of appointment to present grade.	* Period of service counting for pension.	Present post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
36	Mr. J. W. Macdougall ...	Not passed ...	32 1 16	Assistant Surveyor	1st grade ...	250 0 0	March 1, 1865	June 1, 1874	10 1 17	Mysore Topographical Survey.	
37	„ E. J. Connor ...	Lower Standard	28 7 15	Ditto ...	Ditto ...	250 0 0	Ditto ...	July 1, 1874	5 6 15	...	1 month's leave on private affairs taken in 1870 excluded under new rules. Leave on private affairs for 6 months.
38	„ Hugh Todd ...	Not passed ...	29 7 16	Ditto ...	Ditto ...	250 0 0	July 15, 1865	June 1, 1874	7 6 16	Mysore Topographical Survey ...	30 days' sick leave excluded.
39	Captain W. J. Heaviside, R. E. ...	Passed ...	36 9 27	Deputy Superintendent	{ 3rd grade†	1,133 10 0	March 1, 1866	April 5, 1872 } April 1, 1874 }	...	Depy. Supdt., 3rd grade ...	In charge, No. 1 Extra Party.
40	„ M. W. Rogers, R. E. ...	Ditto ...	35 1 12	Assistant Superintendent	{ 3rd grade†	1,133 10 0	July 30, 1866	Dec. 15, 1868 } April 1, 1874 }	...	In charge, Jodhpore Series ...	Offg. Depy. Supdt., 3rd grade.
41	Mr. J. Bond ...	Not passed ...	27 2 24	Assistant Surveyor	1st grade ...	250 0 0	Oct. 18, 1866	Oct. 1, 1874	5 2 4	No. 2 Extra Party ...	20 days' sick leave excluded.
42	„ C. D. Potter ...	Tamil, Civil Engineering College, Madras.	31 6 27	Ditto ...	Ditto ...	250 0 0	Oct. 29, 1866	Ditto ...	9 5 23	Madras Party ...	33 days' leave excluded.
43	Captain J. Hill, R. E. ...	Not passed ...	36 3 7	Assistant Superintendent	{ 1st grade†	890 0 0	Dec. 18, 1866	Oct. 30, 1870 } April 1, 1874 }	...	In charge, Eastern Frontier Series.	
44	Mr. W. H. Cole, M. A. (Senior Branch) ...	Higher Standard	39 3 16	Ditto ...	{ 1st grade†	750 0 0	Jan. 3, 1867	Dec. 4, 1870 } April 1, 1874 }	9 2 29	Computing Office ...	Excludes service as Professor of Mathematics, Government College, Agra, from 14th April 1862 to end of February 1864.
45	„ J. Hickie ...	Lower Standard	28 2 17	Assistant Surveyor	2nd grade ...	200 0 0	April 29, 1868	June 1, 1874	5 8 17	Guzerat Survey ...	6 months' medical leave excluded.
46	„ W. Fielding ...	Ditto ...	28 10 13	Ditto ...	Ditto ...	200 0 0	May 3, 1868	July 1, 1874	6 10 13	Kattywar Survey.	
47	„ G. D. Cusson ...	Ditto ...	30 6 7	Ditto ...	Ditto ...	200 0 0	May 8, 1868	Oct. 1, 1874	8 6 7	Guzerat Survey.	
48	„ T. Kinney ...	Ditto ...	29 10 27	Ditto ...	1st grade ...	250 0 0	June 17, 1868	Ditto ...	7 4 27	Mysore Topographical Survey ...	6 months' leave on private affairs excluded.
49	„ E. F. Litchfield ...	Ditto ...	25 2 7	Ditto ...	2nd grade ...	200 0 0	Nov. 26, 1868	April 1, 1875	3 2 27	Forest Survey, Dehra Dún.	
50	Captain A. Baird, R. E. ...	Passed ...	34 10 26	Assistant Superintendent	{ 1st grade†	890 0 0	Dec. 4, 1868	Oct. 1, 1871 } April 1, 1874 }	...	Offg. Asst. Supdt., 1st grade ...	On special duty in England.
51	Mr. C. P. Torrens ...	Not passed ...	26 9 11	Assistant Surveyor	3rd grade ...	180 0 0	Dec. 12, 1868	April 1, 1873	4 9 11	Jodhpore Series.	
52	Captain J. R. McCullagh, R. E. ...	Passed ...	35 0 5	Assistant Superintendent	{ 1st grade†	890 0 0	Feb. 12, 1869	Jan. 1, 1872 } April 1, 1874 }	...	Mysore Topographical Survey ...	Offg. Asst. Supdt., 1st grade.
53	Mr. E. W. Laceron ...	Not passed ...	32 11 7	Assistant Surveyor	2nd grade ...	200 0 0	May 1, 1869	Oct. 1, 1874	7 11 0	Madras Party.	
54	„ A. Bryson ...	Ditto ...	27 7 1	Ditto ...	3rd grade ...	160 0 0	Sept. 20, 1869	Oct. 1, 1873	5 7 1	Ditto.	
55	„ W. Oldham ...	Ditto ...	24 3 15	Ditto ...	Ditto ...	160 0 0	Oct. 15, 1871	June 1, 1874	2 3 15	Kattywar Survey.	
56	Lieut. H. J. Harman, R. E. ...	Ditto ...	26 10 17	Assistant Superintendent	{ 2nd grade†	670 0 0	June 3, 1872	June 3, 1872 } April 1, 1874 }	...	Offg. Asst. Supdt., 2nd grade ...	In charge, Assam Survey.
57	Mr. J. C. Clancey ...	...	22 6 13	Assistant Surveyor	3rd grade ...	160 0 0	Sept. 30, 1872	Oct. 1, 1874	0 6 13	Eastern Frontier Series.	
58	„ J. O. Hughes ...	...	21 7 8	Ditto ...	Ditto ...	160 0 0	Oct. 14, 1872	April 1, 1875	...	Ditto ...	2 months and 22 days' sick leave excluded.
59	„ Irvin Pocock ...	...	27 10 9	Ditto ...	Ditto ...	160 0 0	Oct. 23, 1872	Ditto ...	4 5 4	Kumaun and Garhwál Survey ...	Previous service in the Stud Department, from 1st March 1869 to 23rd October 1872.
60	„ G. T. Hall ...	Lower Standard	24 11 24	Ditto ...	Ditto ...	160 0 0	Nov. 22, 1872	Aug. 1, 1875	2 11 24	Kattywar Survey.	
61	Lieut. St. G. C. Gore, R. E. ...	...	28 1 8	Assistant Superintendent	{ 2nd grade†	670 0 0	April 11, 1873	April 11, 1873 } April 1, 1874 }	...	Transferred to the Topographical Branch under the Surveyor General ...	Officiating Assistant Superintendent, 2nd grade.
62	„ J. E. Gibbs, R. E. ...	Lower Standard	27 0 30	Ditto ...	{ 2nd grade†	670 0 0	Aug. 15, 1873	Aug. 15, 1873 } April 1, 1874 }	...	Guzerat Survey ...	Ditto ditto.
63	Mr. J. F. McCarthy ...	...	23 11 2	Assistant Surveyor	4th grade ...	120 0 0	Aug. 1, 1873	Aug. 1, 1873	1 11 2	Assam Party.	
64	„ D. J. Collins ...	...	22 10 27	Ditto ...	Ditto ...	120 0 0	Oct. 6, 1873	Oct. 6, 1873	0 10 27	Burma Party.	
65	„ H. Corkery ...	Lower Standard	25 7 10	Ditto ...	Ditto ...	120 0 0	Nov. 20, 1873	Nov. 20, 1873	3 4 11	Kattywar Survey.	
66	„ P. F. Prunty ...	...	22 3 6	Ditto ...	Ditto ...	120 0 0	May 9, 1874	May 9, 1874	0 3 6	Jodhpore Series.	
67	„ J. Keating ...	...	22 10 27	Ditto ...	Ditto ...	120 0 0	June 1, 1874	June 1, 1874	0 10 27	Kattywar Survey.	
68	„ S. F. Norman ...	...	22 7 23	Ditto ...	Ditto ...	120 0 0	Sept. 1, 1874	Sept. 1, 1874	0 7 23	Guzerat Survey.	
69	„ C. Norman ...	Lower Standard	20 10 12	Ditto ...	Ditto ...	120 0 0	Oct. 12, 1874	Oct. 12, 1874	...	Ditto.	
70	„ R. F. Warwick ...	Ditto ...	22 0 2	Ditto ...	Ditto ...	120 0 0	July 2, 1875	July 2, 1875	0 0 2	Kumaun and Garhwál Survey.	
71	„ J. M. Kennedy ...	...	20 4 28	Ditto ...	Ditto ...	120 0 0	Aug. 19, 1875	Aug. 19, 1875	...	Mysore Topographical Survey.	

* Applies only to Officers who are under the Unrenewed Civil Service Rules.
† Of the two grades here given, the first was under the old organization and the second is under the re-organization of 1st April 1874. longest in the Department standing first on the list. Their dates of first appointment to Department (column 8), and period of service counting for pension (column 10) have been arranged in consecutive order.

NOTE.—In this list the Officers have been arranged according to their length of service in the Department, the Officer who has been longest in the Department standing first on the list. Their dates of first appointment to Department (column 8), and period of service counting for pension (column 10) have been arranged in consecutive order.

Disposition List of Officers of the Great Trigonometrical Survey of India on the 1st April 1877.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party, from 1st Oct. 1876 to 30th Sept. 1877.
		Sub-Surveyors.	Writers.	Chainmen and Flagmen.	Native Doctors.	Barkandazes.	Jemadars.	
		No.	No.	No.	No.	No.	No.	Rs.
	<i>Madras Party.</i> On the Ramnad Longitudinal Series, parallel 94°, recess quarters at Bangalore	...	...	56	1	17	...	38,134
	<i>Eastern Frontier Series.</i> British Burma, recess quarters at Moulmein	...	1	78	2	27	...	55,900
	<i>Burma Party.</i> British Burma, recess quarters at Moulmein	...	1	61	1	7	...	38,728
	<i>Kumaun and Garhwál Party.</i> This party has been largely reduced and will be employed in the Snowy Ranges of Kumaun and Garhwál	6	...	55	1	8	...	60,384
	<i>Assam Valley Triangulation.</i> Assam, recess quarters at Dibrugarh	...	1	54	1	12	...	49,124
	<i>Jodhpore Series.</i> In the Jodhpore, Jesulmeer and Bikaner States, recess quarters at Mount Aboo	...	...	50	1	14	...	35,689
	<i>Kattywar Party.</i> The Province of Kattywar, Bombay Presidency, recess quarters at Poona	11	1	145	1	27	...	71,089

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
Captain T. T. Carter, R. E. ... Mr. G. Belcham ... " C. D. Potter ... " A. Bryson ...	23 25 42 54	Depy. Supdt., 3rd grade Surveyor, 4th grade. Assistant Surveyor, 2nd grade. Ditto 3rd do.	Nov. 20, 1876.	
Captain J. Hill, R. E. ... Mr. H. Beverley ... " J. C. Clancey ... " J. O. Hughes ...	43 7 57 58	Assistant Superintendent, 1st grade ... Surveyor, 1st grade. Assistant Surveyor, 3rd grade. Ditto 3rd do.	Mar. , 1877.	
W. G. Beverley, Esq. ... Mr. J. Low ... " J. W. Mitchell ... " D. J. Collins ...	5 12 22 64	Offg. Asst. Supdt., 1st grade Surveyor, 2nd grade. Ditto 4th do. Assistant Surveyor, 4th grade.	Oct. 1, 1874.	
Mr. E. C. Ryall ... " J. Peyton ... " W. Todd ... " I. Pocock ... " R. F. Warwick ...	6 21 10 59 70	Offg. Asst. Supdt., 2nd grade Surveyor, 1st do. Ditto 2nd do. Assistant Surveyor, 3rd do. Ditto 4th do.	Apl. 4, 1876.	Officiating in charge.
Lieut. H. J. Harman, R. E. ... Mr. W. O'Sullivan ... " J. F. McCarthy ...	56 31 63	Offg. Asst. Supdt., 2nd grade Assistant Surveyor, 1st do. Ditto 4th do.	Oct. 6, 1874.	
Captain M. W. Rogers, R. E. ... Mr. W. C. Price ... " C. P. Torrens ... " P. F. Prunty ...	40 33 51 66	Offg. Depy. Supdt., 3rd grade Surveyor, 4th do. Assistant Surveyor, 3rd do. Ditto 4th do.	Nov. 20, 1874.	
Major A. Pullan, s. c. ... Mr. F. Bell ... " N. C. Gwynne ... " W. A. Fielding ... " G. T. Hall ... " H. Corkery ...	26 15 32 46 60 65	Offg. Depy. Supdt., 3rd grade Surveyor, 3rd do. Ditto 4th do. Assistant Surveyor, 2nd do. Ditto 3rd do. Ditto 4th do.	Apl. 6, 1873.	

Disposition List of Officers of the Great Trigonometrical Survey of India on the 1st April 1877 —concluded.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party from 1st Oct. 1876 to 30th Sep. 1877.
		Sub-Surveyors.	Writers.	Chainmen and Flagmen.	Native Doctors.	Barkandazes.	Jemadars.	
	<i>Guzerat Party.</i>	No.	No.	No.	No.	No.	No.	Rs.
	Guzerat, recess quarters at Poona	22	1	200	1	33	...	81,686
	<i>No. 1 Extra Party.</i>							
	Carrying on Electric Determinations of Longitude ... ..	...	...	24	...	3	...	21,508
	<i>No. 2 Extra Party.</i>							
	Carrying on Electric Determinations of Longitude ... ..	...	1	10	...	3	...	24,397
	<i>Bombay Tidal and Leveling Party.</i>							
	Gulf of Cutch and Kattywar, recess quarters at Poona...	5	1	36	1	12	...	22,804

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
Lieut. J. E. Gibbs, R. E. ...	62	Offg. Asst. Supdt., 2nd grade	... March 1877 ...	Officiating in charge.
Mr. A. D'Souza ...	11	Surveyor, 1st grade		
" A. Christie ...	29	Ditto 4th do.		
" C. H. McA'Fee ...	34	Ditto 4th do.		
" J. Hickie ...	45	Asst. Surveyor, 2nd grade.		
" G. D. Cusson ...	42	Ditto 2nd do.		
" S. F. Norman ...	68	Ditto 4th do.		
" C. Norman ...	69	Ditto 4th do.		
Captain W. J. Heaviside, R. E. ...	39	Depy. Supdt., 3rd grade	... Dec. 20, 1875.	
Mr. C. J. Neuville ...	9	Surveyor, 2nd do.		
" E. J. Connor ...	37	Asst. Surveyor, 1st do.		
Captain W. M. Campbell, R. E. ...	27	Offg. Depy. Supdt., 2nd grade	... Aug. 1, 1875.	
Mr. J. Bond ...	41	Asst. Surveyor, 1st do.		
Mr. J. McGill ...	3	Offg. Asst. Supdt., 1st grade	... March 1877 ...	Officiating in charge.
Mr. T. H. Rendell ...	35	Assistant Surveyor, 1st do.		

Classified List of Officers of the Mysore Revenue Survey Department as it stood on the 1st April 1877.

1 No. of Officers in each grade.	2 NAMES.	3 Substantive Appointment.	4 Duty on which at present employed.	5 SALARIES, INCLUDING ALLOWANCES.				9 REMARKS.
				6 TO MILITARY OFFICERS.		7 TO CIVILIANS.		
				5 Military Pay and Allowances.	6 Staff Pay.	7 Aggregate Pay and Allowances.	8 Civil Consolidated Salary.	
						Rs. A. P.	Rs. A. P.	
1	The Hon'ble Colonel W. C. Anderson ...	Survey and Settlement Commissioner	Survey and Settlement Commissioner	.....	.....	1,247 3 6	.....
1	Major J. P. Grant ...	Superintendent	Superintendent	.....	.....	1,565 14 0	.....
1	" J. W. M. Anderson ...	Deputy Superintendent	Deputy Superintendent	.....	.....	995 0 0	.....
	<i>1st Grade.</i>							
1	Captain J. Rutherford ...	Assistant Superintendent	Assistant Superintendent	.....	.....	795 0 0	.....
2	" G. Mackenzie ...	Ditto	Ditto	.....	.....	795 0 0	.....
3	" F. W. Major ...	Ditto	Ditto	.....	.....	795 0 0	.....
4	" J. B. Lawrence ...	Ditto	Ditto	.....	.....	795 0 0	.....
5	Mr. E. H. Butcher ...	Ditto	Ditto	.....	.....	795 0 0	795 0 0	
	<i>2nd Grade.</i>							
1	Captain M. F. Coussmaker ...	Assistant Superintendent	Assistant Superintendent	.....	.....	695 0 0	.....	On leave on medical certificate to Europe for 2 years, from 18th June 1876.
2	" R. L. Price ...	Ditto	Ditto	.....	.....	695 0 0	.....
3	Mr. J. P. Barker ...	Ditto	Ditto	.....	.....	695 0 0	695 0 0	
4	Lieutenant A. H. Macintire ...	Ditto	Ditto	.....	.....	695 0 0	.....	On special duty connected with famine relief.
5	Mr. G. F. Meiklejohn ...	Ditto	Ditto	.....	.....	695 0 0	695 0 0	On special duty from 26th December 1876.
6	Captain D. Cowie ...	Ditto	Ditto	.....	.....	695 0 0	.....
7	Mr. W. E. A. James ...	Ditto	Ditto	.....	.....	695 0 0	.....
8	Mr. F. B. Clerk ...	Ditto	Ditto	.....	.....	695 0 0	695 0 0	
	<i>3rd Grade.</i>							
1	Captain A. McCally ...	Assistant Superintendent	Assistant Superintendent	.....	.....	560 0 0	.....
2	Mr. G. K. Betham ...	Ditto	Ditto	.....	.....	560 0 0	560 0 0	On special duty connected with famine relief.
	<i>Probationary.</i>							
1	Mr. A. G. Hudson ...	Probationary Assistant Supdt.	Probationary Asst. Superintendent	.....	.....	.....	175 0 0	Vide Government of India Notification No. 12, dated 11th January 1877.
2	" E. W. Laseron ...	Ditto	Ditto	.....	.....	.....	Not yet joined his appointment.	Vide Government of India Notification No. 60, dated 13th January 1877.

General List of Officers of the Mysore Revenue Survey Department on the 1st April 1877.

1 Genl. Seniority Number.	2 NAMES.	3 Passed in the Vernacular.	4 Age.	5 Rank.	6 Grade.	7 Salary.*	8 Date of first appointment to the Department.	9 Date of appointment to present grade.	10 Period of service counting for pension.	11 Present post.	12 REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
1	The Hon'ble Col. W. C. Anderson ...	All have passed in the Vernacular.	54 8 5	Survey and Settlement Commissioner	...	1,100 0 0	Sept. 28, 1863	Sept. 28, 1863	...	Survey and Settlement Commissioner	
2	Major J. P. Grant ...		39 0 0	Superintendent	...	1,074 0 0	Nov. 1, 1863	Jan. 15, 1868	...	Superintendent	
3	" J. W. M. Anderson ...		39 5 20	Deputy Superintendent	...	860 0 0	Nov. 27, 1863	Nov. 27, 1873	...	Deputy Superintendent	
4	Captain J. Rutherford ...		35 2 22	Assistant Superintendent	...	660 0 0	Feb. 1, 1865	July 1, 1873	...	Assistant Superintendent	Returned from furlough on 11th December 1876.
5	" F. W. Major ...		36 8 3	Ditto	...	660 0 0	April 23, 1865	Jan. 5, 1875	...	Ditto	
6	Mr. E. H. Butcher ...		40 9 2	Ditto	...	660 0 0	Oct. 2, 1865	Mar. 26, 1876	11 6 29	Ditto	
7	Captain M. F. Coussmaker ...		33 10 20	Ditto	...	560 0 0	Dec. 24, 1865	Jan. 26, 1870	...	Ditto	On leave on medical certificate to Europe for 2 years, from 18th June 1876.
8	Mr. J. P. Barker ...		29 6 16	Ditto	...	560 0 0	Dec. 22, 1866	Dec. 1, 1873	7 6 2	Ditto	
9	" G. F. Meiklejohn ...		28 3 8	Ditto	...	560 0 0	Nov. 30, 1867	June 1, 1874	6 2 23	Ditto	On special duty from 26th December 1876.
10	" W. E. A. James ...		34 9 25	Ditto	...	560 0 0	Dec. 1, 1867	June 8, 1876	7 10 9	Ditto	
11	" F. B. Clerk ...		32 7 13	Ditto	...	560 0 0	Jan. 16, 1868	Nov. 26, 1875	9 2 15	Ditto	
12	Captain J. B. Lawrence ...		35 5 3	Ditto	...	660 0 0	Jan. 15, 1869	Mar. 10, 1876	...	Ditto	
13	Lieutenant A. H. Macintire ...		29 1 11	Ditto	...	560 0 0	Dec. 6, 1869	Jan. 8, 1874	...	Ditto	On special duty connected with famine relief.
14	Captain D. Cowie ...		36 3 15	Ditto	...	560 0 0	Dec. 3, 1870	Dec. 2, 1874	...	Ditto	
15	" A. McCally ...		33 4 24	Ditto	...	455 0 0	Jan. 18, 1872	May 1, 1876	...	Ditto	
16	" R. L. Price ...		34 3 20	Ditto	...	560 0 0	Nov. 1, 1872	Oct. 23, 1872	...	Ditto	
17	" G. Mackenzie ...		35 8 28	Ditto	...	660 0 0	Oct. 24, 1873	Dec. 24, 1871	...	Ditto	
18	Mr. G. K. Betham ...		26 6 0	Ditto	...	455 0 0	Nov. 1, 1873	May 27, 1876	4 6 17	Ditto	On special duty connected with famine relief.
19	" A. G. Hudson ...		18 10 18	Prob. Ditto	...	100 0 0	Nov. 23, 1876	Nov. 23, 1876	...	Prob. Ditto	Vide Govt. of India Notifn. No. 12, dated 11th Jan. 1877, published in the Mysore Gazette of the 27th Feb. 1877.
20	" E. W. Laseron ...								Not yet joined his appointment	Vide Govt. of India Notifn. No. 60, dated 13th Jan. 1877, published in the Mysore Gazette of the 17th Feb. 1877.	

* Half the travelling allowances drawn by Assistant Superintendents have been converted in pay in accordance with the sanction conveyed in letter No. 666 of 10th August 1876 of the Government of India. longest in the Department standing first on the list. Their dates of first appointment to the Department (column 8), and period of service counting for pension (column 10), have been arranged in consecutive order.

Disposition List of Officers of the Mysore Revenue Survey Department on the 1st April 1877.

Number of Party.	Where employed.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party from 1st April 1876 to 31st Mar. 1877.	Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
		Sub-Surveyors.	English Clerks.	Karkoons, &c.	Learners.	Mappers.	Peons.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
		No.	No.	No.	No.	No.	No.	Rs.					
1	Mysore Province ... ..	...	2	2	...	...	4	18,098	The Hon'ble Col. W. C. Anderson	1	Survey and Settlement Commissioner	Sept. 28, 1863.	
2	Ditto ... ..	...	2	44	33	23	9	34,708	Major J. P. Grant	2	Superintendent	Jan. 15, 1868.	
3	Ditto ... ..	...	2	7	...	...	4	21,989	" J. W. M. Anderson	3	Deputy Superintendent	Nov. 1, 1869.	
<i>Measuring Establishment.</i>													
4	Kadur District	24	...	3	4	...	2	16,239	Captain D. Cowie	14	Assistant Supdt., 2nd grade	Dec. 2, 1871.	
5	Hassan District	25	...	3	4	...	2	17,512	" J. B. Lawrence	12	Ditto 1st do.	Oct. 29, 1870.	
6	Mysore District	24	...	2	4	...	2	16,137	Mr. F. B. Clerk	11	Ditto 2nd do.	Nov. 26, 1869.	
7	Hassan District	28	...	2	3	...	2	14,284	" G. K. Betham	18	Ditto 3rd do.	April 15, 1875.	
8	Kadur District	25	...	2	4	...	2	16,889	Captain R. L. Price	16	Ditto 2nd do.	Sept. 10, 1875.	
9	Hassan District	24	...	2	4	...	2	16,690	Lieut. A. H. Macintire	13	Ditto 2nd do.	Dec. 8, 1870.	
10	Mysore District	23	...	2	4	...	2	13,428	Captain A. McCally	15	Ditto 3rd do.	Nov. 8, 1874.	
11	Hassan District	26	...	3	3	...	2	18,656	" G. Mackenzie	17	Ditto 1st do.	Nov. 5, 1873.	
12	Kadur District	26	...	2	3	...	2	15,933	Mr. J. P. Barker	8	Ditto 2nd do.	Dec. 1, 1867.	
13	Hassan District	24	...	2	4	...	2	16,609	" W. E. A. James	10	Ditto 2nd do.	April 19, 1873.	
14	Ditto ... ..	...	...	...	...	...	...	8,608	" G. F. Meiklejohn	9	Ditto 2nd do.	...	On special duty from 28th December 1876.
15	Ditto ... ..	...	...	...	...	...	...	762	" A. G. Hudson	19	Probationary Asst. Supdt.	Joined on the 23rd Nov. 76.	Vide Govt. of India Notification No. 12, dated 11th January 1877.
16	Ditto ... ..	...	...	...	...	...	...	...	" E. W. Laserson	20	Ditto ditto	Not yet joined.	Vide Govt. of India Notification No. 56, dated 30th January 1877.
	TOTAL	249	6	76	70	23	37	2,46,349					
<i>Classing Establishments.</i>													
17	Bangalore and Kadur Districts	14	...	1	3	...	2	12,198	Captain J. Rutherford	4	Assistant Supdt., 1st grade	Dec. 22, 1876.	Returned from furlough on 11th Dec. 1876.
18	Kadur District	15	...	1	2	...	2	15,418	Mr. E. H. Butcher	6	Ditto 1st do.	Jan. 26, 1867.	
19	Tumkur and Kadur Districts	15	...	1	2	...	2	16,180	Captain F. W. Major	5	Ditto 1st do.	April 15, 1875.	
	Ditto ditto ... ..	...	...	...	...	...	...	1,661	Mr. G. F. Meiklejohn	9	Ditto 2nd do.	...	Vide remark to No. 14 in column 1.
	TOTAL	44	...	3	7	...	6	45,447					
	GRAND TOTAL	293	6	79	77	23	43	2,91,796					

Classified List of Officers of the Berar Revenue Survey Department on the 1st April 1877.

No. of Officers in each grade.	NAMES.	Substantive Appointment.	Duty on which at present employed.
1	Mr. R. R. Beynon ... <i>1st Grade.</i>	Superintendent	Superintendent
1	Captain C. C. Pemberton ...	Assistant Superintendent	Assistant Superintendent

N. B.—The salaries of the Military Assistant Superintendents are now consolidated

SALARIES, INCLUDING ALLOWANCES.				REMARKS.
TO MILITARY OFFICERS.			TO CIVILIANS.	
Military Pay and Allowances.	Staff Pay.	Aggregate Pay and Allowances.	Civil Consolidated Salary.	
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
.....	1,175 0 0	
.....	795 0 0	.....	On furlough to Europe for 2 years, from the 14th February 1877.

vide Government of India, Financial Department, No. 2956, dated 21st October 1865.

General List of Officers of the Berar Revenue Survey Department on the 1st April 1877.

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in the Vernacular.	Age on 15th April.	Rank.	Grade.	Salary.
1	Mr. R. R. Beynon ...	Passed ...	Y. M. D. 37 5 3	Superintendent	...	Rs. A. P. 1,175 0 0
2	Captain C. C. Pemberton ...	Ditto ...	37 3 6	Assistant Superintendent	1st grade	795 0 0

N. B.—The dates given under the head of "First appointment" (column 9), are those

8	9	10	11	12	13
Date of appointment to present grade.	Date of first appointment to the Department.	Period of service in present grade.	*Period of service counting for pension.	Present post.	REMARKS.
May 4, 1874	Oct. 30, 1859	Omitted in accordance with instructions contained in letter No. 431, dated the 14th July 1874, from the Govt. of India in the Dept. of Reve., Agriculture, and Commerce.	Y. M. D. 14 0 9	Superintendent	Service under 22 years of age and period on leave to Europe have been deducted.
Feb. 2, 1873	Sept. 14, 1864		...	Assistant Superintendent	On furlough to Europe for 2 years, from the 14th February 1877.

Unconvenanted Civil Service Rules.
appointment to Probationary Assistant in the Survey Department.

Disposition List of Officers of the Berar Revenue Survey Department on the 1st April 1877.

Number of Party.	Where employed.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Average number of square miles surveyed during the last three years, or other work done by Party.	Work of last twelve months.	Annual cost of Party from 1st April 1876 to 31st March 1877.
		Sub-Surveyors.	English Clerks.	Cartkeepers.	Mappers.	Peons.	TOTAL.			
1	Hyderabad Assigned Districts.	No. 14	No. 1	No. 14	No. 17	No. 13	No. 59	Omitted in accordance with instructions contained in letter No. 431, dated the 14th July 1874, from the Government of India in the Department of Revenue, Agriculture, and Commerce.	Rs. 30,184	
									14,597	
									44,781	
	TOTAL ...	14	1	14	17	13	59			

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
Mr. R. R. Beynon ...	1	Superintendent	Oct. 30, 1872.	
Captain C. C. Pemberton ...	2	Assistant Superintendent, 1st grade	Oct. 30, 1871	On furlough to Europe for 2 years, from the 14th February 1877.

Classified List of Officers of the Marine Survey Department as it stood on the 1st April 1877.

No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Present Pay.	REMARKS.
SCIENTIFIC OFFICERS.					
				Rs. A. P.	
1	Commander A. D. Taylor, late I.N., F. R. G. S.	Supdt. of Marine Surveys ... ..	... ..	1,800 0 0	
1	Staff Commander J. H. Ellis, R. N.	Deputy Supdt. of Marine Surveys, 1st grade ... ..	... ..	950 0 0	
1	Navg. Lieut. F. W. Jarrad, R. N., F. R. G. S.	Ditto, 2nd grade	Commanding the I. G. S. S. <i>Clyde</i>	690 0 0	Exclusive of Rs. 50 per month as draftsman.
3	<i>Assistant Superintendents, 1st Grade.</i>				
1	Navg. Lieut. G. C. Hammond, R. N., F. R. G. S.	Asst. Supdt., 1st grade	Survey of Madras Roadstead...	600 0 0	
2	Mr. M. Chapman, late I. N.	Ditto, 1st grade	Attached to the I. G. S. S. <i>Clyde</i>	550 0 0	
3	Vacant	Ditto, 1st grade	... ..	
4	<i>Assistant Superintendents, 2nd Grade.</i>				
1	Navg. Sub-Lieut. E. W. Petley, R. N.	Asst. Supdt., 2nd grade	... ..	400 0 0	On leave for 8 months, from the 14th March 1877, under Section 14, Civil Leave Code—vide Revenue, Agriculture and Commerce Department Notification No. 128, Surveys, dated the 28th February 1877.
2	Navg. Lieut. T. C. Pascoe, R. N.	Ditto, 2nd grade	Survey of Madras Roadstead...	350 0 0	
3	Lieut. W. H. Coombs, R. N.	Ditto, 2nd grade	Attached to the I. G. S. S. <i>Clyde</i>	350 0 0	
4	Mr. P. J. Falle	Ditto, 2nd grade	Ditto	300 0 0	
2	<i>Assistant Superintendents, 3rd Grade.</i>				
1	Vacant	Asst. Supdt., 3rd grade.			
2	Ditto	Ditto, 3rd grade.			
CIVIL OFFICERS.					
1	<i>Supdt., Drawing Branch.</i>				
1	Mr. R. C. Carrington	Superintendent, Drawing Branch ... ..	... ..	750 0 0	
1	<i>Medical Officer and Naturalist.</i>				
1	Surgeon J. Armstrong, B. A.	Medical Officer and Naturalist	Attached to the I. G. S. S. <i>Clyde</i>	400 0 0	

General List of the Officers of the Marine Survey Department on the 1st April 1877.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
SCIENTIFIC OFFICERS.											
1	Commander A. D. Taylor, late I. N., F. R. G. S.	...	51 7 1	Superintendent of Marine Surveys	...	1,800 0 0	July 27, 1874	July 27, 1874	2 8 3*	Superintendent of Marine Surveys	* Exclusive of Indian Navy service.
2	Staff Commander J. H. Ellis, R. N.	...	41 3 8	Depy. Supdt. of Marine Surveys	1st grade	950 0 0	Nov. 19, 1874	Nov. 19, 1874	19 5 2	Depy. Supdt. of Marine Surveys, 1st grade.	
3	Navg. Lieut. F. W. Jarrad, R. N., F. R. G. S.	Hindustani	33 0 18	Ditto	2nd grade	690 0 0	Nov. 19, 1874	Dec. 1, 1875	10 6 15	Depy. Supdt. of Marine Surveys, 2nd grade.	
4	Navg. Lieut. G. C. Hammond, R. N., F. R. G. S.	L. S.	30 6 0	Assistant Superintendent	1st grade	600 0 0	Nov. 19, 1874	Nov. 19, 1874	4 9 0	Asstt. Superintendent, 1st grade	
5	Mr. M. Chapman, late I. N.	...	34 4 0	Ditto	...	550 0 0	Jan. 21, 1875	Nov. 3, 1876	6 4 0†	Ditto	† Exclusive of Indian Navy service.
6	Vacant	...	...	Ditto	...	...	...	...	...	Ditto	
7	Navg. Sub-Lieut. E. W. Petley, R. N.*	...	26 10 7	Ditto	2nd grade	400 0 0	Nov. 19, 1874	Nov. 19, 1874	†	Asstt. Superintendent, 2nd grade	† Counts no service at present according to Navy rules.
8	Navg. Lieut. T. C. Pascoe, R. N.	...	29 9 5	Ditto	...	350 0 0	Oct. 6, 1876	Oct. 6, 1876	2 6 0	Ditto	
9	Lieut. W. H. Coombs, R. N.	...	26 0 3	Ditto	...	350 0 0	Oct. 6, 1876	Oct. 6, 1876	2 2 0	Ditto	
10	Mr. P. J. Falle	...	29 3 19	Ditto	...	300 0 0	Nov. 1, 1874	April 2, 1876	8 3 18	Ditto	
CIVIL OFFICERS.											
1	Mr. R. C. Carrington	Hindustani	38 9 0	Supdt., Drawing Branch	...	750 0 0	Dec. 26, 1874	Dec. 26, 1874	18 0 0	Superintendent, Drawing Branch.	
2	Surgeon J. Armstrong, B. A.	L. S. Ditto	30 5 2	Medical Officer and Naturalist	...	400 0 0	Jan. 24, 1875	Jan. 24, 1875	3 0 0	Medical Officer and Naturalist.	

* On leave for 8 months from the 14th March 1877, under Section 14, Civil Leave Code, vide Revenue and Agriculture and Commerce Department Notification, No. 128, Surveys, dated the 28th February 1877.

Disposition List of Officers of the Marine Survey Department on the 1st April 1877.

Name of Surveying Vessels.	Where employed.	STRENGTH OF CREW.				Cost of the Clyde from 1st April 1877 to 31st Mar. 1877.	Officer in Charge, and Assistant Superintendents.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
		Surveying Amanuensis.	Warrant Officers.	Engineer Officers.	Ship's Company.						
I. G. S. S. Clyde	Calcutta—Head Quarters	...	...	...	...	Rs. A. P.	Commander A. D. Taylor, late I. N., F. R. G. S.,	1	Superintendent of Marine Surveys	July 27, 1874.	
		...	...	...	...	...	Staff Commander J. H. Ellis, R. N.	2	Deputy Supdt. of Marine Surveys	Nov. 19, 1874.	
	Madras Roadstead	...	...	...	...	...	Mr. R. C. Carrington	1	Superintendent, Drawing Branch	Dec. 26, 1874.	
		...	...	...	...	...	Navg. Lieut. G. C. Hammond, R. N., F. R. G. S.	4	Asst. Superintendent, 1st grade	Feb. 11, 1877.	
		...	...	...	...	...	Navg. Lieut. T. C. Pascoe, R. N.	8	Asst. Superintendent, 2nd grade		
		...	...	...	...	...	Navg. Lieutenant F. W. Jarrad, R. N., F. R. G. S.	3	Depy. Supdt. of Marine Surveys, 2nd grade	Nov. 1, 1875.	
		...	...	...	...	...	Mr. Morris Chapman, late I. N.	5	Asst. Superintendent, 1st grade		
		...	...	...	...	...	Lieutenant W. H. Coombs, R. N.	9	Asst. Superintendent, 2nd grade		
		...	...	...	...	...	Mr. P. J. Falle	10	Ditto		
		...	...	...	...	...	Surgeon J. Armstrong, B. A.	2	Medical Officer and Naturalist		
...	...	...	...	...	Navg. Sub-Lieut. E. W. Petley, R. N.†	7	Asst. Superintendent, 2nd grade				
										On leave for eight months from the 14th March 1877, under Section 14, Civil Leave Code, vide R. A. and C. Department Notification No. 128, Surveys, dated 28th February 1877.	

* Exclusive of cost of repairs, provisions and stores, &c., from 1st January to 31st March 1877.

which has not yet been furnished by the Examiner of Dockyard Accounts.

Classified List of the Officers of the Geological Survey of India on the 1st April 1877.

No. of Officers in each grade.	NAMES.	Substantive Appointment.	Duty on which at present engaged.	SALARY INCLUDING ALLOWANCES.				REMARKS.
				Pay.	Travelling and Horse Allowance.	Additional Pay as Deputy Superintendent.	Total Pay and Allowance.	
				Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
1	H. B. Medlicott, A. M., F. G. S. ... 1st Grade, Rs. 700, rising to Rs. 1,000.	Superintendent, Geological Survey ...	Office ...	1,800 0 0	200 0 0	.....	2,000 0 0	
1	W. T. Blanford, A. B. S. M., F. B. S., F. G. S. ...	Senior Depy. Supdt. for Bombay ...	Office ...	1,400 0 0	140 0 0	.....	1,540 0 0	
2	W. Theobald ...	Deputy Superintendent for Bengal ...	Sub-Himalaya ...	1,000 0 0	130 0 0	100 0 0	1,230 0 0	
2	W. King, Jr., A. B., F. G. S. ...	Ditto for Madras ...	Godaveri District ...	1,000 0 0	130 0 0	100 0 0	1,230 0 0	
4	R. B. Foote, F. G. S. ... 2nd Grade, Rs. 500, rising to Rs. 700.	Assistant, Geological Survey ...	Kistna and Godaveri District ...	1,000 0 0	130 0 0	.....	1,130 0 0	
1	A. B. Wynne, F. G. S. ...	Assistant, Geological Survey ...	Upper Punjab ...	700 0 0	130 0 0	.....	830 0 0	
2	F. R. Mallet, F. G. S. ...	Ditto ...	Office ...	700 0 0	130 & 150 0 0	.....	980 0 0	Acting Curator.
3	T. W. H. Hughes, A. B. S. M., F. G. S. ...	Ditto ...	Pranhita Valley ...	700 0 0	130 0 0	.....	830 0 0	
4	W. L. Willson ...	Ditto ...	Bundelkund ...	700 0 0	130 0 0	.....	830 0 0	
5	V. Ball, A. M., F. G. S. ... 3rd Grade, Rs. 300, rising to Rs. 500.	Ditto ...	Bastar and Jaypur ...	700 0 0	130 0 0	.....	830 0 0	
1	F. Fedden, A. B. S. M., F. G. S. ...	Assistant, Geological Survey ...	Sindh ...	500 0 0	130 0 0	.....	630 0 0	
2	C. A. Hackett ...	Ditto ...	Rajputana ...	500 0 0	130 0 0	.....	630 0 0	
3	R. Lydekker, A. B. ...	Ditto ...	Himalaya ...	400 0 0	130 0 0	.....	530 0 0	
3	3 Vacancies ...	Ditto ...	... ..	400 0 0	130 0 0	.....	530 0 0	
	<i>Separately Graded.</i>							
	O. Feistmantel, M. D. ...	Palæontologist ...	Office ...	500 0 0	130 0 0	.....	630 0 0	
	<i>Ungraded Officers.</i>							
	Vacant ...	Mining Geologist ...	... ..	.....	.....	.....	.....	Vacancy caused by the death of Mr. Mark Fryar.
	T. H. Turner ...	Assistant Curator ...	Office ...	300 0 0	.....	.....	300 0 0	
	J. Schaumburg ...	Artist ...	Ditto ...	325 0 0	.....	.....	325 0 0	
	W. R. Bion ...	Chief Clerk and Librarian ...	Ditto ...	200 0 0	.....	.....	200 0 0	
	Kissen Singh ...	Apprentice ...	With Mr. Theobald ...	100 0 0	.....	.....	100 0 0	
	Hera Lal ...	Ditto ...	Office ...	75 0 0	.....	.....	75 0 0	
	Ram Singh ...	Ditto ...	With Mr. Fedden ...	50 0 0	.....	.....	50 0 0	

General List of the Officers of the Geological Survey of India on the 1st April 1877.

Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.	Date of first appointment to the Department.	Date of appointment to present grade.	Period of service counting for pension.	Present Post.	REMARKS.
1	W. Theobald ...	...	47 11 14	Depy. Supdt. for Bengal ...	1st grade ...	1,000	Nov. —, 1848	Apl. 1, 1876	23 9 27	Sub-Himalaya.	
2	H. B. Medlicott, A. M., F. G. S. ...	...	47 7 29	Supdt., Geological Survey ...	No grade ...	1,800	Mar. 24, 1854	Ditto ...	22 0 19	Office.	
3	W. T. Blanford, A. B. S. M., F. B. S., F. G. S. ...	...	44 5 25	Senior Depy. Supdt. for Bombay ...	1st grade ...	1,400	Oct. 1, 1855	Ditto ...	19 0 9	Ditto.	
4	William King, Jr., A. B., F. G. S. ...	...	43 8 16	Depy. Supdt. for Madras ...	Ditto ...	1,000	Mar. 4, 1857	Apl. 21, 1875	18 9 28	Godaveri District.	
5	W. L. Willson ...	...	53 10 1	Asst., Geological Survey ...	2nd grade ...	700	Ditto ...	Ditto ...	18 9 23	Bundelkund.	
6	R. B. Foote, F. G. S. ...	...	42 6 9	Ditto ...	Ditto ...	1,000	Sopt. 28, 1858	Apl. 1, 1876	17 1 8	Kistna and Godaveri District.	
7	F. R. Mallet, F. G. S. ...	Oct. 5, 1868	36 1 19	Ditto ...	Ditto ...	700	Feb. 12, 1859	May 1, 1872	13 1 19	Office.	
8	F. Fedden, A. B. S. M., F. G. S. ...	Oct. 26, 1869	38 0 10	Ditto ...	3rd grade ...	600	Oct. 1, 1860	May 1, 1866	13 10 12	Sind.	
9	C. A. Hackett ...	Oct. 5, 1868	43 8 20	Ditto ...	Ditto ...	600	Nov. 11, 1861	Ditto ...	14 1 29	Rajputana.	
10	T. W. H. Hughes, A. B. S. M., F. G. S. ...	Aug. 3, 1868	33 7 30	Ditto ...	2nd grade ...	700	Nov. 11, 1862	Apl. 21, 1875	10 3 22	Pranhita Valley.	
11	A. B. Wynne, F. G. S. ...	Nov. 9, 1868	41 5 17	Ditto ...	Ditto ...	700	Nov. 13, 1862	Mar. 31, 1869	11 8 25	Upper Punjab.	
12	V. Ball, A. M., F. G. S. ...	Oct. 1, 1867	33 8 18	Ditto ...	Ditto ...	400	Oct. 29, 1864	Apl. 1, 1876	11 8 18	Bastar and Jaypur.	
13	R. Lydekker, A. B. ...	Apl. 5, 1875	27 8 7	Ditto ...	3rd grade ...	400	Nov. 26, 1874	Nov. 26, 1874	2 4 5	Himalaya.	
14	O. Feistmantel, M. D. ...	Oct. 4, 1875	28 4 10	Palæontologist ...	...	600	Mar. 25, 1875	Mar. 10, 1877	2 0 6	Office.	
	<i>Non-graded Officers.</i>										
	Vacant ...	...	...	Mining Geologist ...	No grade ...	300	Apl. 1, 1869	Apl. 1, 1869	8 0 0	Office.	
	T. H. Turner ...	...	36 9 6	Asst. Curator ...	Ditto ...	325	Apl. 12, 1869	Apl. 12, 1869	7 11 19	Ditto.	
	J. Schaumburg ...	...	37 8 30	Artist ...	Ditto ...	200	Dec. 12, 1870	Dec. 12, 1870	2 0 0	Ditto.	
	W. R. Bion ...	...	24 9 15	Head Clerk & Librarian ...	Ditto ...	100	Jan. 7, 1874	Jan. 7, 1874	...	With Mr. Theobald.	
	Kissen Singh ...	...	Not known	Apprentice ...	Ditto ...	75	Ditto ...	Ditto ...	...	Office.	
	Hera Lal ...	...	Do. ...	Ditto ...	Ditto ...	50	Ditto ...	Ditto ...	...	With Mr. Fedden.	
	Ram Singh ...	...	Do. ...	Ditto ...	Ditto ...	50	Ditto ...	Ditto ...	...	

Disposition List of the Officers of the Geological Survey of India on the 1st April 1877.

NAMES OF OFFICERS.	Where employed.	No. in General List.	Rank and Grade.	Date of assuming charge.	STRENGTH OF SUBORDINATE ESTABLISHMENT OF ALL GRADES.						Office Establish- ment.	Where employed during last three years.	Annual cost (salary, and travelling allowance of officers and their subordinates, if any).*	REMARKS.		
					1st Grade.		2nd Grade.		3rd Grade.						Non-graded Officers.	Clerks & Draughtsmen, present and proposed.
					No.	No.	No.	No.	No.	No.						
H. B. Medlicott, A. M., F. G. S. <i>1st Grade.</i>	Head-Quarters	2	Supdt., Geological Survey.	Mar. 24, 1854	4	5	3	6	10	10	1874-75. Office and Narbada 1875-76. Sub-Himalaya 1876-77. Office and Satpura	Salary and allowance Extra travelling allowance	Rs. 23,255 0 0 A. P. 368 10 0	23,623 10 0		
W. T. Blanford, A. B. S. M., F. R. S., F. G. S.	Head-Quarters	3	Senior Depy. Supdt., Bombay.	Oct. 1, 1855							1874-75. Sick leave and Sindh 1875-76. Sindh 1876-77. Office and Sindh	Salary and allowance Extra travelling do. Hospital Assistant's pay, &c.	Rs. 18,470 0 0 A. P. 1,305 6 6 358 11 3	20,134 1 9		
William Theobald	Sub-Himalaya	1	Dy. Supdt., Bengal	Nov. — 1848							1874-75. Sivalik Hills 1875-76. Sub-Himalaya 1876-77. Ditto	Salary and allowance Extra travelling allowance	Rs. 5,997 1 8 A. P. 629 10 6	6,626 12 2		
William King, Jr., A. B., F. G. S.	Godaveri District	4	Dy. Supdt., Madras	Mar. 4, 1857							1874-75. Godaveri District 1875-76. Ditto 1876-77. Ditto	Salary and allowance Extra travelling do. Hospital Assistant's pay, &c.	Rs. 15,060 0 0 A. P. 920 14 6 296 0 3	16,276 14 9		
R. B. Foote, F. G. S. <i>2nd Grade.</i>	Kistna and Godaveri District.	6	Asst., Geological Survey.	Sept. 28, 1858							1874-75. Nellore District 1875-76. Ditto 1876-77. Kistna and Godaveri	Salary and allowance Extra travelling allowance	Rs. 13,485 0 0 A. P. 623 4 9	14,108 4 9		
A. B. Wynne, F. G. S.	Upper Punjab	11	Asst., Geological Survey.	Nov. 13, 1862							1874-75. Rawul Pindi and furlough 1875-76. Furlough 1876-77. Rawul Pindi	Salary and allowance Extra travelling do. Hospital Assistant's pay, &c.	Rs. 9,678 0 7 A. P. 885 9 6 198 0 0	10,761 10 1	Acting as Curator.	
F. R. Mallet, F. G. S.	Head-Quarters	7	Ditto	Feb. 12, 1859							1874-75. Assam 1875-76. Ditto 1876-77. Office	Salary and allowance Hospital Assistant's pay, &c. Extra travelling allowance	Rs. 11,004 5 7 A. P. 24 9 0 219 3 3			
T. W. H. Hughes, A. B. S. M., F. G. S.	Pranhita Valley	10	Ditto	Nov. 11, 1862							1874-75. Wardha Coal-field 1875-76. Godaveri Valley 1876-77. Ditto and Pranhita Valley	Salary and allowance Extra travelling do. Hospital Assistant's pay, &c.	Rs. 10,192 8 0 A. P. 1,188 6 6 676 8 0	12,057 6 6		
W. L. Willson	Bundelkund	5	Ditto	Mar. 4, 1857							1874-75. Bundelkund 1875-76. Ditto 1876-77. Ditto	Salary and allowance Extra travelling do.	Rs. 10,170 0 0 A. P. 548 0 0	10,718 0 0		
V. Ball, A. M., F. G. S. <i>3rd Grade.</i>	Bastar and Jaypur	12	Ditto	Oct. 29, 1864							1874-75. Sambalpur 1875-76. Talchir Coal-field 1876-77. Bastar and Jaypur	Salary and allowance Extra travelling do. Hospital Assistant's pay, &c.	Rs. 9,985 0 0 A. P. 850 13 6 454 1 0	11,289 14 6		
F. Fedden, A. R. S. M., F. G. S.	Sindh	8	Ditto	Oct. 1, 1860							1874-75. Sindh 1875-76. Ditto 1876-77. Ditto	Salary and allowance Extra travelling allowance	Rs. 9,354 13 5 A. P. 1,241 14 6	10,596 11 11		
C. A. Hackett	Rajputana	9	Ditto	Nov. 11, 1861							1874-75. Furlough 1875-76. Rajputana 1876-77. Ditto	Salary and allowance Extra travelling allowance	Rs. 8,047 10 1 A. P. 988 5 0	9,035 15 1		
R. Lydekker, A. B. 3 Vacancies <i>Separately Graded.</i>	Himalaya	13	Ditto	Nov. 26, 1874							1874-75. Office 1875-76. Sub-Himalaya 1876-77. Himalaya	Salary and allowance Extra travelling allowance	Rs. 6,468 5 4 A. P. 529 5 0	6,997 10 4		
O. Feistmantel, M. D. <i>Non-graded Officers.</i>	Head-Quarters	14	Palaontologist	Mar. 25, 1875							1874-75. Office 1875-76. Rajmehal Hills and ditto 1876-77. Kurhurbali and ditto	Salary and allowance Extra travelling allowance	Rs. 6,133 13 8 A. P. 328 8 0	6,462 5 8	Vacancy caused by death of Mr. Mark Fryar.	
Vacant	.....	.....	Mining Geologist	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
T. H. Turner	Head-Quarters	.....	Asst. Curator	April 1, 1869							1874-75. Office 1875-76. Ditto 1876-77. Ditto	Salary House allowance	Rs. 3,736 14 0 A. P. 923 1 0	4,659 15 0	As acting Curator.
J. Schaumburg	Ditto	.....	Artist	April 12, 1869							1874-75. Ditto 1875-76. Ditto 1876-77. Ditto	Salary	Rs. 3,575 0 0		
W. R. Bion	Ditto	.....	Chief Clerk and Librarian	Dec. 12, 1870							1874-75. Ditto 1875-76. Ditto 1876-77. Ditto	Salary	Rs. 2,161 4 7		
Kissen Singh	With Mr. Theobald	.....	Apprentice	Jan. 7, 1874							1874-75. Ditto 1875-76. Ditto 1876-77. Sub-Himalaya	Salary Travelling allowance	Rs. 950 0 0 A. P. 217 10 10	1,167 10 10	
Hera Lall	Head-Quarters	.....	Ditto	Ditto							1874-75. Office 1875-76. Ditto 1876-77. Sindh	Salary Travelling allowance	Rs. 650 0 0 A. P. 191 14 9	841 14 9	
Ram Singh	With Mr. Fedden	.....	Ditto	Ditto							1874-75. Office 1875-76. Ditto 1876-77. Sindh	Salary Travelling allowance	Rs. 591 10 8 A. P. 118 5 10	710 0	

* The "Annual Cost," as given above, is the cost for twelve months, from 1st April 1876 to 31st March 1877. It is to be taken as a constant item depending on cost of travelling, this depending on district engaged in, &c., &c.

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