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

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

No. sanctioned.	No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.
					Rs. A. P.	
<b>ADMINISTRATIVE STAFF.</b>						
1	1	Col. H. L. Thuillier, C. S. I., F. R. S.	Survr. Genl. of India and Supdt. of Topogl. Surveys	...	3,000 0 0	
1	1	Col. D. C. Vanrenen, B. A., P. H.	Depy. Survr. Genl. and Supdt. of Revenue Surveys	...	2,265 10 0	Personal allowance Rs. 65-10.
2	1	Capt. R. V. Riddell, B. E., P. H.	Asst. Surveyor General	...	1,440 0 0	Officiating Superintendent, Mathematical Instrument Department.
	2	J. O. N. James, Esq.	Ditto	...	1,000 0 0	
	2	Capt. J. Waterhouse, s. c.	Ditto	...	750 0 0	
<b>TOPOGRAPHICAL SURVEY DEPARTMENT.</b>						
<b>SENIOR BRANCH.</b>						
<b>DEPUTY SUPERINTENDENTS.</b>						
1	...	<i>1st grade—Salary Rs. 1,600, plus pay proper to Engr. Officers.</i>				
1	1	Lt.-Col. G. C. Depree, s. c., P. H.	Depy. Supdt., 1st grade	In charge No. 7, Topogl. Party, Rajputana and Simla Survey	1,600 0 0	
2	...	<i>2nd grade—Salary Rs. 1,300, plus pay proper to Engr. Officers.</i>				
S	1	Capt. Geo. Strahan, B. E., P. H.	Ditto 2nd grade	...	...	On furlough, p. a., for 2 years, from 1st May 1877.
	2	Vacant.				
2	...	<i>3rd grade—Salary Rs. 1,000, plus pay proper to Engr. Officers.</i>				
1	1	Capt. R. V. Riddell, B. E., P. H.	Ditto 3rd grade	Head-Quarters	1,440 0 0	Officiating Deputy Superintendent, 2nd grade. See Administrative Staff.
2	1	Capt. Charles Strahan, B. E.	Ditto	In charge No. 1 Topogl. Party, Gwalior and Central India 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 5th January 1875. Extension for 6 months, in R., 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.
<b>REVENUE SURVEY DEPARTMENT.</b>						
<b>SENIOR BRANCH.</b>						
<b>DEPUTY SUPERINTENDENTS.</b>						
3	...	<i>1st grade—Salary Rs. 1,600, plus pay proper to Engr. Officers.</i>				
1	1	Col. H. C. Johnstone, C. B., s. c., P. H.	Ditto 1st grade	1st, Dera Ismail Khan District Survey, Panjab	1,627 14 0	Rs. 27-14 as personal allowance.
2	1	Lt.-Col. F. C. Anderson, s. c., P. H.	Ditto	5th, Banda District Survey, N.-W. Provinces	1,627 14 0	Ditto ditto.
	3	Vacant.				
3	...	<i>2nd grade—Salary Rs. 1,300, plus pay proper to Engr. Officers.</i>				
S	1	Lt.-Col. J. Macdonald, s. c., P. H.	Ditto 2nd grade	...	1,300 0 0	On furlough, p. a., for 2 years, from 6th May 1877.
	1	R. B. Smart, Esq.	Ditto	7th, Khurda Estate Survey, Orissa	...	
	2	Major J. Sconce, s. c., P. H.	Ditto	8th, Western Soane Irrigation Surv., District Shahabad, Behar	1,300 0 0	
	3	Vacant.				
4	...	<i>3rd grade—Salary Rs. 1,000, plus pay proper to Engr. Officers.</i>				
1	1	Major Donald Macdonald, s. c., P. H.	Ditto 3rd grade	10th, 1st Deccan Topogl. Survey, Bombay	1,166 14 0	Rs. 166-14 personal allowance.
2	1	Major F. Coddington, s. c., P. H.	Ditto	Doing duty, Head-Quarters	1,000 0 0	
3	1	Captain W. Barron, s. c., P. H.	Ditto	4th, Moradabad and Budaun Districts Survey, N. W. P.	1,000 0 0	
4	1	Major H. C. B. Tanner, Bombay, s. c., P. H.	Ditto	11th, 2nd Deccan Topogl. Survey, Bombay	1,000 0 0	
5	1	E. T. S. Johnson, Esq.	Ditto	6th, Eastern Soane Irrigation Dist. Survey, Behar	1,000 0 0	

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

No. sanctioned.	No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Consolidated Salary.		REMARKS.
					Rs.	A. P.	
<b>TOPOGRAPHICAL AND REVENUE SURVEY DEPARTMENTS.</b>							
<b>SENIOR BRANCH.</b>							
<b>ASSISTANT SUPERINTENDENTS.</b>							
6	...	<i>1st grade—Salary Rs. 750, plus pay proper to Engr. Officers.</i>					
1	...	Captain D. C. Andrew, s. c., P. H.	Asst. Supdt., 1st grade	Cadastral Revision Survey, N. W. P.	1,000	0 0	Offg. 3rd grade Deputy Superintendent.
2	...	W. H. Wilkins, s. c., P. H.	Ditto	12th, Midnapore District Survey, Bengal	750	0 0	On furlough, p. a., for 8 months, from 8th May 1877.
3	...	J. Campbell, Esq.	Ditto	...	...	...	...
3	...	Captain E. W. Samuells, s. c., P. H.	Ditto	14th, Ganges Denrah Survey, Bengal	750	0 0	Offg. 3rd grade Deputy Superintendent.
4	...	Major W. F. Badgley, s. c., P. H.	Ditto	No. 6, Khasi and Garo Hills Survey	1,000	0 0	Offg. 3rd grade Deputy Superintendent.
5	...	Captain J. E. Sandeman, s. c., P. H.	Ditto	On special duty, Chota Nagpore Estate Survey	750	0 0	On furlough, p. a., for 2 years, from 14th May 1877.
5	...	Captain T. H. Holdich, R. E., L. S.	Ditto	...	...	...	See Administrative Staff.
...	...	J. Waterhouse, s. c., P. H.	...	...	...	...	...
6	...	Vacant.					
6	...	<i>2nd grade—Salary Rs. 600, plus pay proper to Engr. Officers.</i>					
1	...	H. Horst, Esq.	Asst. Supdt., 2nd grade	In charge, No. 2 Khandesh and Bombay Native States Survey	750	0 0	Offg. in 1st grade. On furlough, p. a., for 2 years, from 24th April 1876. Offg. in 1st grade.
2	...	Capt. H. Lees Smith, s. c., P. H.	Ditto	...	...	...	...
2	...	H. B. Talbot, Esq., L. S.	Ditto	6th, 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, Bhopd and Malwa Survey	749	1 6	Rs. 149-1-6 personal allowance.
4	...	Captain H. S. Cowan, s. c., P. H.	Ditto	8th, Western Soane Irrigation Survey, District Gya, Behar	749	1 6	Ditto ditto.
5	...	Capt. H. S. Hutchinson, s. c., P. H.	Ditto	11th, 2nd Deccan Topogl. Survey, Bombay	749	1 6	Ditto ditto.
6	...	E. C. Barrett, Esq., H. S.	Ditto	7th, Khurda Estate Survey, Orissa	600	0 0	...
7	...	E. J. Jackson, Esq., L. S.	Ditto	5th, Banda Dist. Survey, N. W. P.	600	0 0	...
8	...	Capt. E. H. Steel, s. c., H. S.	Ditto	2nd, Rohtak and Sirsa Districts Survey, Punjab	624	1 6	Rs. 24-1-6 personal allowance.
9	...	R. Beavan, s. c., P. H.	Ditto	1st, Dera Ismail Khan Dist. Survey, Punjab	624	1 6	Ditto ditto.
10	...	Lieut. R. G. Woodthorpe, R. E., L. S.	Ditto	No. 6, Khasi and Garo Hills Topographical Survey	670	0 0	...
11	...	E. P. Leach, R. E., L. S.	Ditto	No. 7, Topographical Party, Rajputana and Simla Survey	670	0 0	On sick leave for 1 year, from 25th January 1877.
8	...	H. E. Gastrell, Esq., L. S.	Ditto	...	...	...	...
12	...	G. H. Cooke, Esq., L. S.	Ditto	10th, 1st Deccan Topogl. Survey, Bombay	600	0 0	...
6	...	6 in excess.					
6	...	<i>3rd grade—Salary Rs. 500, plus pay proper to Engr. Officers.</i>					
<i>Civil Officers—Rs. 400.</i>							
1	...	Lieut. G. W. Martin, s. c., H. S.	Asst. Supdt., 3rd grade	4th, Moradabad and Budaun Dist. Survey, N. W. P.	500	0 0	On furlough, p. a., for 2 years, from 15th Nov. 1875.
2	...	Lieut. A. J. C. Scott, s. c., H. S.	Ditto	No. 1, Topogl., Gwalior and Central India, Topogl. Survey	500	0 0	...
2	...	J. R. Hobday, s. c., H. S.	Ditto	...	...	...	...
3 to 6	...	Vacant.					
<b>TOPOGRAPHICAL SURVEY DEPARTMENT.</b>							
<b>JUNIOR BRANCH.</b>							
<b>SURVEYORS.</b>							
3	...	<i>1st grade—Salary Rs. 500.</i>					
1	...	Mr. N. A. Belletty, L. S.	Surveyor, 1st grade	On duty at Head-Quarters	500	0 0	...
2	...	J. F. Baness	Ditto	Chief Draftsman, Head-Quarters Office	600	0 0	...
2	...	A. Channarett	Ditto	On duty at Head-Quarters Office	(a) 500	0 0	(a) Exclusive of Rs. 45 Presidency house-rent.
3	...	H. J. Bolst	Ditto	No. 1, Gwalior & Central India Survey	500	0 0	...

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					Rs. A. P.	
<b>TOPOGRAPHICAL SURVEY DEPARTMENT—contd.</b>						
<b>JUNIOR BRANCH—contd.</b>						
<b>SURVEYORS— contd.</b>						
<b>2nd grade—Salary Rs. 400.</b>						
4	1	Mr. G. A. McGill, L. s.	Surveyor, 2nd grade	No. 7, Rajputana and Simla Survey	400 0 0	
	2	" D. Atkinson	Ditto	No. 5, Bhopal and Malwa Survey	400 0 0	
	3	" J. A. Vanderputt	Ditto	No. 1, Gwalior and Central India Survey	400 0 0	
	4	" R. W. Chew	Ditto	No. 8, Mysore Survey	400 0 0	
<b>3rd grade—Salary Rs. 350.</b>						
3	1	Mr. A. J. Wilson, L. s.	Surveyor, 3rd grade	No. 2, Khandesh and Bombay Native States Survey	350 0 0	
	2	" J. A. May	Ditto	On duty at Head-Quarters	(a) 350 0 0	(a) Exclusive of Rs. 30, Presidency House-rent.
	3	Vacant.				
<b>4th grade—Salary Rs. 300.</b>						
4	1	Mr. F. Adams	Surveyor, 4th grade	On duty at Head-Quarters	(a) 300 0 0	(a) Exclusive of Rs. 30, Presidency House-rent.
	2	" R. D. Farrell	Ditto	No. 8, Mysore Survey	300 0 0	
	3	" E. S. P. Atkinson	Ditto			Subsidiary leave for 1 month, from 26th June, and furlough to Europe for 1 year, from 26th July 1876: extended (for 3 months up to 26th October 1877).
	3	" M. J. Ogle	Ditto	No. 6, Khasi and Garo Hills Survey	300 0 0	
	4	" A. G. Wyatt	Ditto	No. 2, Khandesh and Bombay Native States Survey	300 0 0	
<b>ASSISTANT SURVEYORS.</b>						
<b>1st grade—Salary Rs. 250.</b>						
9	1	Mr. C. F. Hamer	Asst. Surveyor, 1st grade	No. 5, Bhopal and Malwa Survey	250 0 0	
	2	" C. A. R. Scanlan	Ditto	On duty at Head-Quarters	250 0 0	
	3	" R. Todd	Ditto	No. 7, Rajputana and Simla Survey	250 0 0	
	4	" A. Chennell	Ditto	No. 6, Khasi and Garo Hills Survey	250 0 0	
	5	" C. Tapsell, L. s.	Ditto	No. 1, Gwalior and Central India Survey	250 0 0	
	6	" A. James	Ditto	No. 8, Mysore Survey	250 0 0	
	7	" T. E. M. Claudius	Ditto	No. 1, Gwalior and Central India Survey	250 0 0	
	8	" F. Kitchen	Ditto	No. 8, Mysore Survey	250 0 0	
	9	" W. Stotesbury, L. s.	Ditto	Ditto ditto	250 0 0	
<b>2nd grade—Salary Rs. 200.</b>						
9	1	Mr. J. A. Barker	Asst. Surveyor, 2nd grade	No. 8, Mysore Survey	200 0 0	
	2	" E. A. Wainright	Ditto	No. 5, Bhopal and Malwa Survey	200 0 0	
	3	" W. J. Cornelius, L. s.	Ditto	No. 1, Gwalior and Central India Survey	200 0 0	
	4	" W. W. McNair, L. s.	Ditto	No. 8, Mysore Survey	200 0 0	
	5	" W. F. Pettigrew	Ditto	No. 2, Khandesh and Bombay Native States Survey	200 0 0	
	6	" P. J. W. Doran, L. s.	Ditto	No. 1, or Gwalior and Central India Survey	200 0 0	
	7	" H. T. Kitchen	Ditto	No. 5, or Bhopal and Malwa Survey	200 0 0	
	8	" A. Cooper	Ditto	No. 2, Khandesh and Bombay Native States Survey	200 0 0	Served previously in the Pegu Survey from 22nd January 1863.
	9	" J. H. Wilson, L. s.	Ditto	No. 7, Rajputana and Simla Survey	200 0 0	
<b>3rd grade—Salary Rs. 160.</b>						
9	1	Mr. W. H. Liley	Asst. Surveyor, 3rd grade	No. 5, Bhopal and Malwa Survey	160 0 0	
	2	" W. Robert	Ditto	No. 6, Khasi and Garo Hills Survey	160 0 0	
	3	" F. E. Warde	Ditto	No. 2, Khandesh and Bombay Native States Survey	160 0 0	
	4	" C. T. Templeton	Ditto	No. 1, Gwalior and Central India Survey	160 0 0	
	5	" J. McCay	Ditto	No. 6, Khasia and Garo Hills Survey	160 0 0	
	6	" W. C. G. Barchley	Ditto			Special sick leave to Europe, from 6th April 1876, for 8 months: granted extension for 6 months.—vide R., A. and C. Department No. 726, dated 4th September 1876. Extended again for 6 months. vide—R., A. and C. Department letter No. 194, dated 21st March 1877. Further extension for 3 months on full pay.
	6 to 9	} Vacant.				

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<p><b>TOPOGRAPHICAL SURVEY DEPARTMENT—contd.</b></p> <p><b>JUNIOR BRANCH—contd.</b></p> <p><b>ASSISTANT SURVEYORS—contd.</b></p> <p><i>4th grade—Salary Rs. 120.</i></p>						
8	...	1 Mr. Geo. Vander Beek, L. s. ...	Asst. Surveyor, 4th grade ...	No. 2, Khandesh & Bombay Native States Survey	120 0 0	
		2 " J. Murray, L. s. ...	Ditto ...	No. 5, Bhopal & Malwa Survey	120 0 0	
		3 " A. Kitchen ...	Ditto ...	ditto	120 0 0	
		4 " P. White ...	Ditto ...	No. 8, Mysore Survey	120 0 0	
		5 " E. Graham, L. s. ...	Ditto ...	No. 2, Khandesh and Bombay Native States Survey	120 0 0	
		6 " G. L. Fleming ...	Ditto ...	No. 8, Mysore Survey	120 0 0	
		7 " G. R. Copping, L. s. ...	Ditto ...	No. 5, Bhopal & Malwa Survey	120 0 0	
		8 " G. A. Knight ...	Ditto ...	No. 8, Mysore Survey	120 0 0	
		9 " Duncan Campbell ...	Proby. Ditto ...	No. 6, Khasi and Garo Hills Survey	120 0 0	
<p><b>REVENUE SURVEY DEPARTMENT.</b></p> <p><b>JUNIOR BRANCH.</b></p> <p><b>SURVEYORS.</b></p> <p><i>1st grade—Salary Rs. 500.</i></p>						
2	...	1 Mr. George Housden ...	Surveyor, 1st grade ...	1st, 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 deputation allowance Rs. 100.
4	...	<i>2nd grade—Salary Rs. 400.</i>				
		S Mr. Frederick William Kelly, H. s. ...	Surveyor, 2nd grade ...	Head Draftsman, Supdt. of Revenue Surveys Office, Calcutta	450 0 0	Salary as Head Draftsman. Exclusive of personal allowance Rs. 100, and of Rs. 30 Presidency house-rent.
		1 " Charles William Campbell ...	Ditto ...	5th, Banda District Survey, N.-W. P.	400 0 0	
		2 " Edward Loftie ...	Ditto ...	2nd, Rohtak and Sirsa Districts Survey, Punjab	400 0 0	
		3 " George Henry Blythe ...	Ditto ...	Ditto ditto	400 0 0	
		4 " Frederick Grant ...	Ditto ...	8th, Western Soane Irrigation Survey, District Shahabad, Behar	400 0 0	
8	...	<i>3rd grade—Salary Rs. 350.</i>				
		S Mr. William Sinclair ...	Surveyor, 3rd grade ...	...	...	On furlough, p. a., for 1 year, from 19th April 1877.
		1 " Constantine Brownfield, L. s. ...	Ditto ...	Doing duty at Supdt. of Revenue Surveys' Office, Calcutta	350 0 0	
		S " Arthur David Smart ...	Ditto ...	Additional Drawing Estb't. Supdt. of Revenue Surveys' Office, Calcutta	400 0 0	Salary as Draftsman: exclusive of Rs. 30 Presidency house-rent.
		2 " James Todd ...	Ditto ...	12th, Midnapore District Survey, Bengal	350 0 0	
		3 " Patrick Augustus George Cowley, L. s. ...	Ditto ...	6th, Eastern Soane Irrigation Survey, District Gya, Behar	350 0 0	
		4 " Charles David ...	Ditto ...	12th, Midnapore District Survey, Bengal	350 0 0	
		5 " George Rae ...	Ditto ...	8th, Western Soane Irrigation Survey, Dist. Shahabad, Behar	350 0 0	
		6 " Samuel Mack Smylie, L. s. ...	Ditto ...	11th, 2nd Deccan Topographical Survey, Bombay	350 0 0	
		7 & 8 } Vacant.				
14	...	<i>4th grade—Salary Rs. 300.</i>				
		1 Mr. Jas. Stewart Pemberton, L. s. ...	Surveyor, 4th grade ...	2nd, Rohtak and Sirsa Districts Survey, Punjab	300 0 0	
		2 " William Robert Vyall ...	Ditto ...	7th, Khurda Estate Survey, Orissa	300 0 0	
		3 " Henry Ross Littlewood ...	Ditto ...	Cadastral Revision Survey, N.-W. P.	300 0 0	
		4 " Wm. Alexander Wilson, L. s. ...	Ditto ...	14th, Ganges Dearah Survey, Bengal	300 0 0	
		5 " William Samuel Buttress ...	Ditto ...	1st, Dera Ismail Khan District Survey, Punjab	300 0 0	
		6 " Thomas Wilfred Reilly, L. s. ...	Surveyor, 4th grade ...	11th, 2nd Deccan Topographical Survey, Bombay	300 0 0	
		7 " Alexander Macdonald Lawson, L. s. ...	Ditto ...	10th, 1st Deccan Topog'l. Survey, Bombay	300 0 0	
		8 " Andrew John Gibson ...	Ditto ...	1st, Dera Ismail Khan District Survey, Punjab	300 0 0	
		9 " Henry Dowman ...	Ditto ...	7th, Khurda Estate Survey, Orissa	300 0 0	
		10 " Edwin Little ...	Ditto ...	5th, Banda Dist. Survey, N.-W. P.	300 0 0	
		11 " Henry Townsend Hanby, L. s. ...	Ditto ...	4th, Moradabad and Budaun Dist. Survey, N.-W. P.	300 0 0	
		12 " George Batley Scott, L. s. ...	Ditto ...	1st, Dera Ismail Khan Dist. Survey, Punjab	300 0 0	
		13 & 14 } Vacant.				

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

No. sanctioned.	No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.
		REVENUE SURV. DEPT.— <i>contd.</i>			Rs. A. P.	
		JUNIOR BRANCH— <i>contd.</i>				
		ASSISTANT SURVEYORS.				
		1st grade—Salary Rs. 250.				
6	1	Mr. James Hoppner O'Donel	Asst. Surveyor, 1st grade	6th, Eastern Soane Irrigation Survey, District Gya, Behar	250 0 0	
	2	„ Phillip Ford, L. s.	Ditto	2nd, Rohtak and Sirsa Districts Survey, Punjab	250 0 0	
	3	„ Daniel Arthur King	Ditto	On special duty, Chota Nagpore Estate Survey, Bengal	250 0 0	
	4	„ Robert Boddington Smart, L. s.	Ditto	5th, Banda District Survey, N.-W. P.	250 0 0	
	5	„ James Connor	Ditto	Draftsman, Supdt. of Revenue Surveys Office, Calcutta	325 0 0	Salary as Draftsman: exclusive of Rs. 20 Presidency house-rent.
	6	„ Thomas Henry Dunne, L. s.	Ditto	7th, Khurda Estate Survey, Orissa	250 0 0	
	6	„ William James Lane	Ditto	Cadastral Revision Survey, N.-W. P.	250 0 0	
10		2nd grade—Salary Rs. 200.				
	1	Mr. John Thomas Uniacke Coxen	Asst. Surveyor, 2nd grade	11th, 2nd Deccan Topogl. Survey, Bombay	200 0 0	
	2	„ John Newland, L. s.	Ditto	10th, 1st Deccan Topogl. Survey, Bombay	200 0 0	
	3	„ Richard Cunningham Dundee Ewing, H. S.	Ditto	14th, Ganges Dearah Survey, Bengal	200 0 0	
	4	„ George William Jarbo, L. s.	Ditto	5th, Banda District 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	Drawing Branch, Supdt. of Revenue Surveys Office	225 0 0	Salary as Draftsman: exclusive of Rs. 20 Presidency house-rent.
	5	„ William James Smith	Ditto	1st, Dera Ismail Khan District Survey, Punjab	200 0 0	
	6	„ Septimus Oswald Madras	Ditto	4th, Moradabad and Budaun Districts Survey, N.-W. P.	200 0 0	
	7	„ Thomas Frederick Freeman, L. s.	Ditto	5th, Banda District. Survey, N.-W. P.	200 0 0	
	8	„ George Carleton Swiney	Ditto	10th, 1st Deccan Topogl. Survey, Bombay		
9 & 10		} Vacant.				
13		3rd grade—Salary Rs. 160.				
	1	Mr. Charles Walker Wilson, L. s.	Asst. Surveyor, 3rd grade	14th, Ganges Dearah Survey, Bengal	160 0 0	
	2	„ Charles Walter Franklin Seyers	Ditto	Ditto ditto	160 0 0	
	3	„ Alfred Collimore Wilson Lemarchand, L. s.	Ditto	6th, Eastern Soane Irrign. Survey, District Gya, Behar	160 0 0	
	4	„ John Sidney Swiney	Ditto	Ditto ditto	160 0 0	
	5	„ George Latter Rodway Scott, L. s.	Ditto	Ditto ditto	160 0 0	
	5	„ James O'Toole	Ditto	...	...	On sick leave for 21 months, from 7th May 1876.
	6	„ William Joseph Lincoln, L. s.	Ditto	4th, Moradabad and Budaun Diets. Survey, N.-W. P.	160 0 0	
	7	„ Benjamin Anderson, L. s.	Ditto	2nd, Rohtak and Sirsa Dists. Survey, Punjab	160 0 0	
	8	„ Thomas Shaw, L. s.	Asst. Surveyor, 3rd grade	8th, Western Soane Irri. Survey, Dist. Shahabad, Behar	160 0 0	
	9	„ William Henry Penrose, L. s.	Ditto	11th, 2nd Deccan Topogl. Survey, Bombay	160 0 0	
	10	„ Edmund James Martin	Ditto	6th, Eastern Soane Irri. Survey, Dist. Gya, Behar	160 0 0	
	11	„ William Dease Corbett	Ditto	On special duty, Chota Nagpore Estate Survey, Bengal	160 0 0	
	12	„ George Edwin Parker	Ditto	12th, Midnapore Dist. Survey, Bengal	160 0 0	
	13	„ George Campbell	Ditto	7th, Khurda Estate Survey, Orissa	160 0 0	



*Classified List of Officers of the Topographical and Revenue Survey Departments as it stood on the 1st October 1877 —concluded.*

No. sanctioned.	No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.
		<b>REVENUE SURVEY DEPARTMENT—contd.</b>				
		<b>JUNIOR BRANCH—contd.</b>				
		<b>PROBATIONARY ASSISTANT SURVEYORS.</b>				
		<i>4th grade—Salary Rs. 120.</i>				
15	...				Rs. A. P.	
1	...	Mr. John Murphy ...	Asst. Surveyor, 4th grade ...	5th, Banda Dist. Survey, N. W. P. ...	120 0 0	
2	...	„ Charles Wyatt Joseph Ford, L. s. ...	Ditto ...	4th, Moradabad and Budaun Districts Survey, N. W. P. ...	120 0 0	
3	...	„ Arthur William Smart ...	Ditto ...	6th, Eastern Soane Irri. Survey, Dist. Gya, Behar ...	120 0 0	
4	...	„ George Hugh O'Donel ...	Ditto ...	8th, Western Soane Irri. Survey, Dist. Shahabad Behar ...	120 0 0	
5	...	„ Henry George Young, H. s. ...	Ditto ...	5th, Banda District Survey, N. W. P. ...	120 0 0	
6	...	„ Percival Edwin Heberlet ...	Ditto ...	7th, Khurda Estate Survey, Orissa ...	120 0 0	
7	...	„ Bruce Macdonald Wilson ...	Ditto ...	12th, Midnapore District Survey, Bengal ...	120 0 0	
8	...	„ Elliot Playfair Smyth Hill ...	Ditto ...	4th, Moradabad and Budaun Districts Survey, N. W. P. ...	120 0 0	
9	...	„ Edmund Hume Stephen Gasper ...	Ditto ...	12th, Midnapore District Survey, Bengal ...	120 0 0	
10	...	„ Richard Randall Dickinson, L. s. ...	Ditto ...	10th, 1st Deccan Topogl. Survey, Bombay ...	120 0 0	
11	...	„ Edward Bolderodi Montebello Drew ...	Ditto ...	5th, Banda District Survey, N. W. P. ...	120 0 0	On leave without pay for 6 months, from 17th April 1877.
12	...	„ Paul Agabeg Peters, L. s. ...	Ditto ...	1st, Dera Ismail Khan District Survey, Panjab ...	120 0 0	
13	...	„ Henry Reed Adels ...	Ditto ...	14th, Ganges Dearah Survey, Bengal ...	120 0 0	
14	...	„ Charles Samuel Kraal ...	Ditto ...	2nd, Rohtak and Sirsa Dists. Survey, Panjab ...	120 0 0	
15	...	„ Conly Thomas James Dense ...	Proby. Ditto ...	11th, 2nd Deccan Topogl. Survey, Bombay ...	120 0 0	
16	...	„ Thos. Campbell ...	Ditto ...	8th, Western Soane Irri. Survey, District Shahabad Behar ...	120 0 0	
17	...	„ Lionel Fitzhardinge Berkeley ...	Ditto ...	4th, Moradabad and Budaun Districts Survey, N. W. P. ...	120 0 0	

General List of the Officers of the Topographical and Revenue Survey Departments on the 1st October 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 on 1st Apl. 1877.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
1	James Campbell, Esq.	...	49 7 27	Asst. Supdt., Revenue Survey	{ 1st grade 1st grade	...	Oct. 8, 1844	Nov. 29, 1867 } April 1, 1874 }	27 3 4a	...	(a) Service reckoned under new rules. On furlough, p. a., from 8th May 1877, for 8 months.
2	J. O. N. James, Esq.	...	48 1 25	Depy. Supdt., Topogl. Survey	{ 3rd grade 3rd grade	1,000 0 0	July 29, 1845	April 1, 1869 } April 1, 1874 }	32 2 3	Asst. Survr. Genl., in charge Cartographic and Engraving Branches, Head-Quarters, Calcutta.	Rs. 200 local allowance.
3	R. B. Smart, Esq.	...	50 6 28	Depy. Supdt., Revenue Survey	{ 2nd grade 2nd grade	1,300 0 0	Sept. 21, 1846	April 1, 1869 } April 1, 1874 }	30 1 9	7th, Khurda Estate Survey, Orissa	Sick leave from 2nd May to 30th June 1849. Ditto from 20th October 1848 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	Colonel D. C. Vanrenen, B. A.	P. H.	55 4 0	Supdt. of Revenue Surveys	...	2,265 10 0	Oct. 3, 1846	Mar. 11, 1867	...	Calcutta—Supdt. of Revenue Surveys and Deputy Surveyor General.	Including Rs. 65-10 personal allowance.
5	Mr. G. H. Blythe	...	47 11 24	Revenue Surveyor	2nd grade	400 0 0	Dec. 1, 1846	Jan. 1, 1872	30 5 0	2nd, Rohtak and Sirsa Districts Revenue Survey, Punjab.	Sick leave from 21st November 1870 to 20th April 1871.
6	„ E. Loftie	...	49 11 10	Ditto	Ditto	400 0 0	Jan. 1, 1847	Jan. 1, 1871	30 9 0	Ditto ditto.	
7	„ G. Housden	...	46 8 15	Ditto	1st grade	500 0 0	Feb. 18, 1847	July 1, 1867	30 7 11	1st, Dera Ismail Khan District Revenue Survey, Punjab.	
8	„ N. A. Belletty	L. S.	49 0 27	Topographical Surveyor	Ditto	500 0 0	July 16, 1847	April 1, 1866	30 2 16	On duty at Head-Quarters.	
9	„ C. David	...	49 9 0	Revenue Surveyor	3rd grade	350 0 0	Sept. 1, 1847	Jan. 1, 1872	30 1 0	12th, Midnapore District Revenue Survey, Bengal.	Office Assistant from 1st September 1847 to 31st December 1861.
10	„ E. T. S. Johnson, Esq.	...	49 5 2	Depy. Supdt., Revenue Survey	{ 3rd grade 3rd grade	1,000 0 0	Oct. 13, 1847	July 5, 1870 } April 1, 1874 }	29 11 19	6th, Eastern Soane Irrigation Survey, District Gya, Behar.	
11	„ H. B. Talbot	L. S.	48 11 5	Asst. Supdt., Revenue Survey	{ 1st grade 2nd grade	600 0 0	Dec. 1, 1848	Sept. 12, 1870 } April 1, 1874 }	28 10 0	Ditto ditto.	
12	„ W. H. Patterson	L. S.	38 6 29	Revenue Surveyor	1st grade	500 0 0	Dec. 1, 1851	Jan. 1, 1871	15 8 29	On deputation to Kāmrup Lakhiraj Survey, Assam.	Private affairs' leave from 1st May to 31st August 1862.—Eur. leave on private affairs, from 20th July 1872 to 18th Jan. 1873.
13	„ A. Chamarett	...	44 10 1	Topographical Surveyor	Ditto	500 0 0	June 2, 1852	Mar. 1, 1871	25 3 29	Geographical Examiner, Head-Quarters	Exclusive of Rs. 45 as presidency house-rent.
14	„ H. J. Bolst	...	40 7 0	Ditto	Ditto	500 0 0	July 26, 1852	Oct. 1, 1872	17 0 3a	No. 1 Topographical Party, Gwalior and Central India Survey.	(a) Service reckoned under new rules.
15	Lieut.-Col. J. Macdonald, s. c.	P. H.	47 4 20	Depy. Supdt., Revenue Survey	{ 1st grade 2nd grade	...	Sept. 10, 1852	April 1, 1866 } Oct. 23, 1876 }	...	...	On furlough, p. a., for 2 years, from 6th May 1877.
16	Colonel F. C. Anderson, s. c.	P. H.	50 3 8	Ditto	{ 1st grade 1st grade	1,627 14 0	Sept. 10, 1852	April 1, 1868 } April 1, 1874 }	...	5th, Banda District Revenue Survey, N. W. P.	Including Rs. 27-14 personal allowance.
17	„ H. C. Johnstone, c. B., s. c.	P. H.	54 3 4	Ditto	{ 1st grade 1st grade	1,627 14 0	May 27, 1853	April 1, 1866 } April 1, 1874 }	...	1st, Dera Ismail Khan District Revenue Survey, Punjab.	Ditto ditto.
18	Mr. C. W. Campbell	...	46 4 24	Revenue Surveyor	2nd grade	400 0 0	Nov. 1, 1853	July 1, 1870	23 11 0	6th, Banda Dist. Reve. Surv., N. W. P.	
19	H. Horst, Esq.	...	43 4 27	Asst. Supdt., Topogl. Survey	{ 1st grade 2nd grade	750 0 0	Sept. 1, 1854	Oct. 1, 1869 } April 1, 1874 }	23 1 0b	In charge No. 2 or Khandesh and Bombay Native States Topographical Survey.	Officiating in 1st grade. (b) Exclusive of 20 months' service in Roorkee College
20	Lieut.-Col. G. C. Depree, s. c.	P. H.	45 1 29	Depy. Supdt., Topogl. Survey	{ 1st grade 1st grade	1,600 0 0	Oct. 20, 1854	Oct. 20, 1866 } April 1, 1874 }	...	In charge No. 7 Topographical Party, Rajputana Survey.	
21	Mr. G. A. McGill	L. S.	39 5 7	Topographical Surveyor	2nd grade	400 0 0	April 8, 1855	Jan. 1, 1871	22 5 23	No. 7 Topographical Party, Rajputana Survey.	
22	„ W. Sinclair	...	39 0 8	Revenue Surveyor	3rd grade	...	Oct. 1, 1855	April 1, 1869	16 6 26	...	On furlough, p. a., for 1 year, from 19th April 1877.
23	„ W. R. Vyall	...	38 9 2	Ditto	4th grade	300 0 0	June 13, 1856	Ditto	21 3 18	7th, Khurda Estate Survey, Orissa.	
24	„ F. Grant	...	41 6 6	Ditto	2nd grade	400 0 0	July 11, 1856	April 1, 1872	21 2 21	8th, Western Soane Irrigation Survey, District Shahabad, Behar.	
25	„ D. Atkinson	...	39 4 24	Topographical Surveyor	Ditto	400 0 0	Aug. 4, 1856	Jan. 1, 1871	21 1 28	No. 5 Bhopal and Malwa Topogl. Survey.	
26	„ J. A. Vanderputt	...	38 11 17	Ditto	Ditto	400 0 0	Sept. 1, 1856	Oct. 1, 1874	21 1 0	No. 1 Gwalior and Central India Topographical Survey.	
27	„ J. F. Baness	...	47 3 1	Ditto	1st grade	600 0 0	Sept. 5, 1856	May 1, 1870	21 0 26	Chief Draftsman, Head-Quarters	Service reckoned under new rules.
28	„ R. W. Chew	...	38 2 8	Ditto	2nd grade	400 0 0	Sept. 15, 1856	Oct. 1, 1874	21 0 16	No. 8 Mysore Topographical Survey.	
29	„ C. Brownfield	L. S.	37 1 24	Revenue Surveyor	3rd grade	350 0 0	Sept. 20, 1856	April 1, 1869	21 0 11	Doing duty, Superintendent of Revenue Surveys Office, Calcutta.	
30	„ F. W. Kelly	H. S.	44 1 5	Ditto	2nd grade	450 0 0	Aug. 17, 1858	July 1, 1869	19 1 15	Head Draftsman, Supdt. of Revenue Surveys Office, Calcutta.	{ Draws Rs. 450 salary as Head Draftsman, and Presidency house-rent Rs. 80. (a) Personal allowance of Rs. 100. (b) Commencement of second service.
31	„ P. A. G. Cowley	L. S.	35 8 15	Ditto	3rd grade	350 0 0	Sept. 1, 1859	Oct. 1, 1873	18 1 0	6th Eastern Soane Irrigation Survey, District Gya, Behar.	

NOTE.—Service qualifying for pension calculated under old rules, and the Unvacanted Service Rules.

\* Applies only to Officers who are under

† Of the two grades here given, the first was under the organisation of

Section 63 (b), new Pension Code—for all appointments prior to 8th June 1863. 1866; the second is under the re-organisation of 1st April 1874.

General List of the Officers of the Topographical and Revenue Survey Departments on the 1st October 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 Oct. 1877.	Present Post.	REMARKS.
32	Mr. G. Rae	...	Y. M. D.	Revenue Surveyor	3rd grade	Rs. A. P.			Y. M. D.		
33	" T. W. Reilly	...	35 9 9	Ditto	3rd grade	350 0 0	32 Sept. 1, 1859	April 1, 1872	18 1 0	8th, Western Soane Irrigation Survey, District Shahabad, Behar.	
34	Major J. Sconce, s. c.	...	L. S.	Ditto	4th grade	300 0 0	33 Oct. 18, 1859	Nov. 1, 1872	17 10 2	11th, 2nd Deccan Topogl. Survey, Bombay Presidency.	Absent without leave from 20th January to 28th February 1861.
35	Mr. E. Little	...	P. H.	Depy. Supdt., Revenue Survey	{ 2nd grade 2nd grade	1,300 0 0	34 Oct. 21, 1859	April 1, 1869 April 1, 1874	...	8th, Western Soane Irrigation Survey, District Shahabad, Behar.	
36	" S. M. Smylie	...	31 11 19	Revenue Surveyor	4th grade	300 0 0	35 Jan. 1, 1860	Nov. 5, 1871	17 9 0	5th, Banda District Survey, N. W. P.	Apprentice from 1st January 1860 to 4th November 1862.
37	" W. S. Buttress	...	L. S.	Ditto	3rd grade	350 0 0	36 July 24, 1860	April 1, 1872	17 2 8	11th, 2nd Deccan Topogl. Survey, Bombay Presidency.	
38	" A. J. Wilson	...	33 7 12	Ditto	4th grade	300 0 0	37 Sept. 1, 1860	Oct. 1, 1872	17 1 0	1st, Dera Ismail Khan District Revenue Survey, Punjab.	Copyist from 1st to 30th September 1860.
39	" J. A. May	...	L. S.	Topographical Surveyor	3rd grade	350 0 0	38 Oct. 1, 1860	April 1, 1874	17 0 0	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
40	" F. Adams	...	35 0 15	Ditto	Ditto	350 0 0	39 Ditto	Oct. 1, 1874	17 0 0	...	On duty at Head-Quarters.
41	" R. D. Farrell	...	41 5 6	Ditto	4th grade	300 0 0	40 Ditto	Oct. 1, 1871	20 10 28	...	Ditto ditto. Including service as Sub-Surveyor, from 3rd November 1860 to 30th September 1860.
42	" J. S. Pemberton	...	34 8 1	Ditto	Ditto	300 0 0	41 Ditto	April 1, 1872	17 0 0	No. 8, Mysore Topogl. Survey.	
43	" H. R. Littlewood	...	L. S.	Revenue Surveyor	Ditto	300 0 0	42 Oct. 6, 1860	Ditto	16 11 21	2nd, Rohak and Sirsa Districts Revenue Surv., Punjab.	Overstayed privilege leave by five days in June 1869.
44	Major D. Macdonald, s. c.	...	33 10 25	Ditto	Ditto	300 0 0	43 Ditto	Ditto	16 11 26	Cadastral Revision Survey, N. W. P.	
45	Mr. W. A. Wilson	...	P. H.	Depy. Supdt., Revenue Survey	{ 3rd grade 3rd grade	1,166 14 0	44 Dec. 19, 1860	April 1, 1866 April 1, 1874	...	10th, 1st Deccan Topogl. Survey, Bombay Presidency.	Including Rs. 166-14 personal allowance.
46	" A. J. Gibson	...	L. S.	Revenue Surveyor	4th grade	300 0 0	45 Jan. 1, 1861	April 1, 1872	16 9 0	14th, Ganges Dearah Revenue Survey, Bengal.	
47	" E. S. P. Atkinson	...	35 6 0	Ditto	Ditto	300 0 0	46 May 1, 1861	Oct. 1, 1873	16 4 27	1st, Dera Ismail Khan District Revenue Survey, Punjab.	Absent without leave three days in January 1866.
48	" A. G. Wyatt	...	32 2 5	Topographical Surveyor	Ditto	300 0 0	47 Aug. 13, 1861	April 1, 1872	9 0 0	...	Furlough for 1 year, from 28th July 1870. Extended for 3 months. Service reckoned under new rules.
49	Major F. Coddington, s. c.	...	32 7 4	Ditto	Ditto	300 0 0	48 Nov. 1, 1861	April 1, 1874	15 11 0	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
50	Captain W. Barron, s. c.	...	P. H.	Depy. Supdt., Revenue Survey	{ 3rd grade 3rd grade	1,000 0 0	49 Jan. 17, 1862	July 26, 1867 April 1, 1874	...	Doing duty at Head-Quarters Office.	
51	" Geo. Strahan, B. E.	...	P. H.	Ditto	{ 3rd grade 3rd grade	1,000 0 0	50 June 27, 1862	April 1, 1870 April 1, 1874	...	4th, Moradabad and Budaun Districts Revenue Survey, N. W. P.	On furlough, p. a., from 1st May 1877, for 2 years.
52	" R. V. Riddell, B. E.	...	P. H.	Depy. Supdt., Topogl. Survey	{ 2nd grade 2nd grade	...	51 July 2, 1862	Oct. 26, 1870 April 1, 1874	...	...	
53	Major H. C. B. Tanner, s. c.	...	37 6 20	Ditto	{ 3rd grade 3rd grade	1,440 0 0	52 Aug. 28, 1862	Oct. 1, 1867 April 1, 1874	...	Officiating Supdt., Mathl. Instt. Dept., in charge Litho. Branch, Head-Quarters.	Officiating Deputy Supdt., 2nd grade, Rs. 200 local allowance. Assistant Surveyor General.
54	Mr. H. Dowman	...	P. H.	Depy. Supdt., Revenue Survey	{ 3rd grade 3rd grade	1,000 0 0	53 Oct. 10, 1862	April 1, 1870 April 1, 1874	...	11th, 2nd Deccan Topogl. Survey, Bombay Presidency.	
55	" H. T. Hanby	...	31 3 20	Revenue Surveyor	4th grade	300 0 0	54 Oct. 16, 1862	Oct. 16, 1874	14 11 1	7th, Khurda 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 1866.
56	" E. C. Barrett, Esq.	...	L. S.	Ditto	Ditto	300 0 0	55 Nov. 13, 1862	Nov. 13, 1874	14 10 18	4th, Moradabad and Budaun Distts. Reve. Surv., N. W. P.	
57	Mr. A. M. Lawson	...	H. S.	Asst. Supdt., Revenue Survey	{ 2nd grade 2nd grade	600 0 0	56 Nov. 18, 1862	Dec. 30, 1868 April 1, 1874	14 9 13	7th, Khurda Estate Survey, Orissa	Sick leave for one month from 20th June 1869.
58	Captain D. C. Andrew, s. c.	...	L. S.	Revenue Surveyor	4th grade	300 0 0	57 Ditto	May 1, 1873	14 10 13	10th, 1st Deccan Topogl. Survey, Bombay Presidency.	
59	" W. H. Wilkins, s. c.	...	P. H.	Asst. Supdt., Revenue Survey	{ 1st grade 1st grade	1,000 0 0	58 Dec. 30, 1862	Dec. 30, 1866 April 1, 1874	...	Cadastral Revision Survey, N. W. P.	Officiating Deputy Supdt., 3rd grade.
60	Mr. G. B. Scott	...	P. H.	Ditto	{ 1st grade 1st grade	750 0 0	59 April 27, 1863	Apr. 27, 1867 April 1, 1874	...	12th, Midnapore Districts Revenue Survey, Bengal.	
61	" J. T. U. Coxen	...	L. S.	Revenue Surveyor	4th grade	300 0 0	60 May 1, 1863	Dec. 15, 1874	14 5 0	1st, Dera Ismail Khan District Survey, Punjab.	
62	" M. J. Ogle	...	33 2 6	Asst. Revenue Surveyor	2nd grade	200 0 0	61 May 16, 1863	Jan. 1, 1874	14 3 22	11th, 2nd Deccan Topogl. Survey, Bombay Presidency.	Sick leave from 8th to 31st October 1873.
63	F. B. Girdlestone, Esq.	...	37 0 22	Topographical Surveyor	4th grade	300 0 0	62 July 1, 1863	April 1, 1873	13 6 28	No. 6, Khási and Gáo Hills Topogl. Survey.	
64	Mr. C. F. Hamer	...	35 6 28	Depy. Supdt., Topogl. Survey	{ 3rd grade 3rd grade	...	63 Aug. 1, 1863	Aug. 11, 1873 April 1, 1874	9 11 18	...	On furlough for 2 years, from 18th 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.
65	" T. E. M. Claudius	...	34 6 0	Asst. Topographical Surveyor	1st grade	250 0 0	64 Aug. 3, 1863	Oct. 1, 1871	9 10 24	No. 5, Bhopal and Malwa Topogl. Survey.	Service reckoned under new rules.
66	" C. A. R. Scanlan	...	31 4 0	Ditto	Ditto	250 0 0	65 Aug. 10, 1863	April 1, 1874	9 4 0	No. 1, Gwalior and C. I. Topogl. Survey.	
67	Captain Charles Strahan, B. E.	...	30 0 19	Ditto	Ditto	250 0 0	66 Sept. 9, 1863	Oct. 1, 1871	7 8 19	On duty at Head-Quarters	On duty at Head-Quarters.
68	Mr. J. H. O'Donel	...	34 4 26	Depy. Supdt., Topographical Survey	{ 3rd grade 3rd grade	1,140 0 0	67 Sept. 26, 1863	Dec. 1, 1867 April 1, 1874	...	No. 1, Gwalior and C. I. Topogl. Survey.	
69	" J. Newland	...	32 2 15	Asst. Revenue Surveyor	1st grade	250 0 0	68 Oct. 1, 1863	Oct. 1, 1872	10 2 15	6th, Eastern Soane Irrigation Survey, District Gya, Behar.	
69	" J. Newland	...	L. S.	Ditto	2nd grade	200 0 0	69 Oct. 22, 1863	June 29, 1871	13 11 10	10th, 1st Deccan Topogl. Survey, Bombay Presidency.	

NOTE.—Service qualifying for pension calculated under old rules—

\* Applies only to officers who are under the

† Of the two grades here given, the first was under the organisation of 1866; the second

Section 69 (b), new Pension Code—for all appointments prior to 8th June 1863.

Uncovenanted Service Rules.

is under the re-organisation of 1st April 1874.

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

1 Genl. Seniority Number.	2 NAMES.	3 Passed in Vernacular.	4 Age.	5 Rank.	6 Grade.	7 Salary.	8 Date of first appointment to Department.	9 Date of appointment to present grade.	10	11 Present Post.	12 REMARKS.
									*Period of service counting for pension on 1st Oct. 1877.		
			Y. M. D.			Rs. A. P.			Y. M. D.		
70	Mr. R. Todd	...	32 2 20	Asst. Topographical Surveyor	1st grade	250 0 0	Nov. 1, 1863	Oct. 1, 1871	10 2 19	No. 7, Rajputana and Simla Topogl. Survey.	
71	" P. Ford	L. S.	31 9 24	Asst. Revenue Surveyor	Ditto	250 0 0	Dec. 15, 1863	June 4, 1873	9 9 19	2nd, Rohtak and Sirsa Districts Revenue Survey, Punjab.	Absent without leave one day, and on sick leave four days, in October 1865.
72	Captain E. W. Samuells, s. c.	P. H.	35 2 24	Asst. Supdt., Revenue Survey	{ 1st grade 1st grade	750 0 0	Dec. 17, 1863	Jan. 25, 1868 April 1, 1874	...	14th, Ganges Dearah Revenue Survey, Bengal.	
73	Mr. J. Todd	...	43 4 19	Revenue Surveyor	3rd grade	350 0 0	Dec. 27, 1863	Jan. 1, 1872	13 9 4	12th, Midnapore District Revenue Survey, Bengal.	Overstayed privilege leave by one day in August 1874.
74	" G. Campbell	...	28 2 19	Asst. Revenue Surveyor	Ditto	160 0 0	Jan. 1, 1864	Dec. 1, 1874	6 2 19	7th, Khurda Estate Survey, Orissa	Office Assistant from 1st Jan. 1864 to 28th Feb. 1871.
75	" R. B. Smart, Jr.	L. S.	30 3 2	Ditto	1st grade	250 0 0	Ditto	May 27, 1874	8 3 2	5th, Banda District Revenue Survey, N. W. P.	Apprentice from 1st January to 31st December 1864.
76	" D. A. King	...	30 10 26	Ditto	Ditto	250 0 0	April 12, 1864	Jan. 1, 1874	8 10 25	Chota Nagpore Estate Survey, Bengal	Apprentice from 12th April to 30th June 1864.
77	" A. W. Chennell	...	30 10 1	Asst. Topographical Surveyor	Ditto	250 0 0	May 1, 1864	Oct. 1, 1872	8 10 1	No. 6, Khási and Gáro Hills Topogl. Survey.	
78	" A. James	...	30 10 12	Ditto	Ditto	250 0 0	June 15, 1864	Sept. 1, 1873	8 10 12	No. 8, Mysore Topogl. Survey.	
79	" C. Tapsell	L. S.	32 10 17	Ditto	Ditto	250 0 0	Aug. 2, 1864	Oct. 1, 1872	10 10 16	No. 1, Gwalior and C. I. Topogl. Survey.	
80	E. J. Jackson, Esq.	L. S.	33 9 0	Asst. Supdt., Revenue Survey	{ 2nd grade† 2nd grade	600 0 0	Sept. 26, 1864	Nov. 5, 1868 April 1, 1874	10 0 28	5th, Banda District Revenue Survey, N. W. P.	Sick leave from 4th July to 3rd August 1867. Ditto from 10th August to 30th November 1867. Europe, medical certificate, from 23rd July 1871 to 10th November 1872.
81	Mr. W. Stotesbury	L. S.	30 2 6	Asst. Topographical Surveyor	1st grade	250 0 0	Oct. 1, 1864	April 1, 1874	8 2 6	No. 8, Mysore Topogl. Survey.	
82	" F. Kitchen	...	31 6 7	Ditto	Ditto	250 0 0	Oct. 4, 1864	Ditto	9 6 7	Ditto ditto.	
83	Captain J. E. Sandeman, s. c.	P. H.	34 0 29	Asst. Supdt., Revenue Survey	{ 1st grade† 1st grade	750 0 0	Oct. 6, 1864	Oct. 6, 1868 April 1, 1874	...	On special duty, Dhanwar and Chota Nagpore Estates Survey, Bengal.	
84	Mr. C. W. F. Seyers	...	34 1 15	Asst. Revenue Surveyor	3rd grade	160 0 0	Dec. 1, 1864	Oct. 1, 1871	12 1 15	14th, Ganges Dearah Revenue Survey, Bengal.	
85	" J. Connor	...	30 0 24	Ditto	1st grade	325 0 0	Feb. 15, 1865	Dec. 1, 1874	8 0 24	Draftsman, Supdt. of Revenue Surveys Office, Calcutta.	Draws Rs. 325 salary as Draftsman, and presidency house-rent Rs. 20.
86	" T. H. Dunne	L. S.	29 9 5	Ditto	Ditto	250 0 0	Ditto	Feb. 15, 1871	7 8 24	7th, Khurda Estate Survey	Absent without leave one day, and on sick leave for ten days, in October 1865.
87	" W. J. Lane	...	30 4 5	Ditto	Ditto	250 0 0	Mar. 1, 1865	April 24, 1871	7 11 26	Cadastral Revision Survey, N. W. P.	Sick leave from 19th May to 8th July 1865. Ditto from 7th August to 23rd October 1866.
88	" E. A. Wainright	...	29 3 13	Asst. Topographical Surveyor	2nd grade	200 0 0	May 1, 1865	Oct. 1, 1871	7 3 13	No. 5, Bhopal and Malwa Topogl. Survey.	
89	Major W. F. Badgley, s. c.	P. H.	39 10 21	Asst. Supdt., Topogl. Survey	{ 1st grade† 1st grade	1,000 0 0	May 3, 1865	May 8, 1868 April 1, 1874	...	In charge No. 6, Khási and Gáro Hills Topogl. Survey.	Offg. Depy. Supdt., 3rd Grade.
90	Mr. J. A. Barker	...	28 5 18	Asst. Topographical Surveyor	2nd grade	200 0 0	Sept. 18, 1865	Oct. 1, 1871	6 5 18	No. 8, Mysore Topogl. Survey.	
91	Captain H. Lees Smith, s. c.	P. H.	38 6 18	Asst. Supdt., Revenue Survey	{ 1st grade† 2nd grade	...	Mar. 26, 1866	June 18, 1870 April 1, 1874	...	...	On furlough, p. a., 2 years, from 24th April 1876. Officiating in 1st grade.
92	Mr. R. C. D. Ewing	H. S.	29 3 20	Asst. Revenue Surveyor	2nd grade	200 0 0	June 9, 1866	Sept. 9, 1872	7 3 20	14th, Ganges Dearah Revenue Survey, Bengal.	
93	Captain T. H. Holdich, R. B.	L. S.	34 7 16	Asst. Supdt., Topogl. Survey	{ 1st grade† 1st grade	...	July 23, 1866	Dec. 15, 1868 April 1, 1874	...	...	On furlough, p. a., 2 years, from 14th May 1877.
94	" J. Waterhouse, s. c.	P. H.	35 2 8	Ditto	{ 1st grade† 1st grade	750 0 0	Ditto	June 17, 1870 April 1, 1874	...	In charge Photographic Branch, Headquarters.	Asst. Survr. Genl. Rs. 200 local allowance.
95	Mr. W. J. Cornelius	L. S.	28 6 1	Asst. Topographical Surveyor	2nd grade	200 0 0	Aug. 16, 1866	Oct. 1, 1872	6 6 1	No. 1, Gwalior and C. I. Topogl. Survey.	
96	" W. J. Smith	...	29 2 19	Asst. Revenue Surveyor	Ditto	...	Sept. 1, 1866	May 27, 1874	7 2 19	...	Office Assistant from 1st Sept. 1866 to 31st Mar. 1868. On sick leave for 1 year from 17th July 1877.
97	" W. F. Pettigrew	...	33 1 19	Asst. Topographical Surveyor	Ditto	200 0 0	Sept. 12, 1866	Oct. 1, 1872	9 7 9	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
98	" G. W. Jarbo	L. S.	30 0 15	Asst. Revenue Surveyor	Ditto	200 0 0	Nov. 1, 1866	Nov. 1, 1872	8 0 0	5th, Banda District Revenue Survey, N. W. P.	Sick leave for 15 days, from 26th May to 9th June 1869.
99	G. H. Cooke, Esq.	L. S.	32 10 1	Asst. Supdt., Revenue Survey	{ 2nd grade† 2nd grade	600 0 0	Dec. 6, 1866	May 10, 1871 April 1, 1874	10 9 26	10th, 1st Deccan Topogl. Survey, Bombay Presidency.	
100	Captain H. S. Cowan, s. c.	P. H.	36 0 16	Ditto	{ 2nd grade† 2nd grade	749 1 6	Jan. 19, 1867	Mar. 17, 1868 April 1, 1874	...	6th, Western Soane Irrigation Survey, District Shahabad, Behar.	Including Rs. 140-1-0 personal allowance.
101	Mr. J. R. Scott	L. S.	28 6 27	Asst. Revenue Surveyor	2nd grade	200 0 0	Ditto	May 1, 1870	6 6 27	5th, Banda District Revenue Survey, N. W. P.	
102	" P. J. W. Doran	L. S.	28 4 27	Asst. Topographical Surveyor	Ditto	200 0 0	Feb. 1, 1867	April 1, 1873	5 6 5	No. 1, Gwalior and Central India Topogl. Survey.	
103	" C. W. Wilson	L. S.	31 10 22	Asst. Revenue Surveyor	3rd grade	160 0 0	(a) June 21, 1867	Oct. 1, 1870	9 5 22	14th, Ganges Dearah Revenue Survey, Bengal.	(a) Commencement of second service. Sick leave for 3 months from 1st March 1869. Ditto for 2 months from 1st August 1869.
104	" J. McHatton	L. S.	27 2 14	Ditto	2nd grade	235 0 0	July 1, 1867	July 1, 1870	5 2 14	Draftsman, Supdt. of Reve. Surveys Office, Calcutta.	Draws Rs. 235 salary as Draftsman, and presidency house-rent Rs. 20.
105	Captain H. S. Hutchinson, s. c.	P. H.	37 5 20	Asst. Supdt., Revenue Survey	{ 2nd grade† 2nd grade	749 1 6	Aug. 13, 1867	Aug. 13, 1868 April 1, 1874	...	11th, 2nd Deccan Topogl. Survey, Bombay Presidency.	Including Rs. 140-1-0 personal allowance.
106	Mr. W. W. McNair	L. S.	27 0 18	Asst. Topographical Surveyor	2nd grade	200 0 0	Sept. 1, 1867	Oct. 1, 1872	5 1 18	No. 8, Mysore Topogl. Survey.	
107	" E. J. Martin	...	26 7 15	Asst. Revenue Surveyor	3rd grade	160 0 0	Sept. 16, 1867	May 27, 1874	4 7 15	6th, Eastern Soane Irrigation Survey, District Gya, Behar.	Office Assistant from 16th Sept. 1867 to 31st July 1870.
108	" H. T. Kitchen	...	29 3 23	Asst. Topographical Surveyor	2nd grade	200 0 0	Nov. 1, 1867	Nov. 1, 1873	7 3 23	No. 5, Bhopal and Malwa Topogl. Survey.	

\* Applies only to officers who are under the Unconvenanted Service Rules.

† Of the two grades here given, the 1st was under the organisation of 1866; the 2nd is under the re-organisation of 1st April 1874.

General List of the Officers of the Topographical and Revenue Survey Departments on the 1st October 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 Oct. 1877.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
109	Mr. A. Cooper	...	36 11 4	Asst. Topographical Survey	2nd grade...	200 0 0	Dec. 1, 1867	April 1, 1874	14 9 0	No. 2, Khandesh and Bombay Native States Survey.	Service reckoned under old rules. Includes previous service in Pegu Survey from 2nd Jan. 1863 to 30th Nov. 1867.
110	„ J. H. Wilson	...	L. S. 31 3 23	Ditto	Ditto	200 0 0	April 1, 1868	Ditto	9 2 23	No. 7, Rajputana Topogl. Survey.	
111	„ W. H. Lilley	...	28 9 29	Ditto	3rd grade	160 0 0	May 1, 1868	May 1, 1871	6 9 28	No. 5, Bhopal and Malwa Topogl. Surv.	
112	„ S. O. Madras	...	27 1 16	Asst. Revenue Surveyor	2nd grade	200 0 0	July 6, 1868	July 6, 1874	5 1 16	4th, Moradabad and Budaun Districts Revenue Survey, N. W. P.	
113	Captain R. Beavan, s. c.	...	P. H. 33 0 11	Asst. Supdt., Revenue Survey	{ 2nd grade† 2nd grade	624 1 6	July 17, 1868	Nov. 9, 1869 April 1, 1874	} ...	1st, Dera Ismail Khan District Revenue Survey, Punjab.	Rs. 24-1-6 personal allowance.
114	Mr. T. F. Freeman	...	L. S. 26 6 27	Asst. Revenue Surveyor	2nd grade	200 0 0	Sept. 9, 1868	Sept. 9, 1874	4 6 27	5th, Banda Dist. Reve. Survey, N. W. P.	
115	„ J. O'Toole	...	26 7 22	Ditto	3rd grade	...	Sept. 10, 1868	Mar. 10, 1872	2 8 28	...	Sick leave for 21 months from 7th May 1876: extended for a further period of 6 months.
116	„ G. C. Swiney	...	28 3 4	Ditto	2nd grade	200 0 0	Sept. 17, 1868	Dec. 1, 1874	6 3 4	10th, 1st Deccan Topogl. Survey, Bombay Presidency.	
117	„ A. C. W. LeMarchand	...	L. S. 26 10 15	Ditto	3rd grade	160 0 0	Nov. 2, 1868	Nov. 2, 1871	4 10 15	6th, Eastern Soane Irrigation Survey, District Gya, Behar.	
118	„ J. Murphy	...	25 2 19	Proby. Asst. Revenue Surveyor	4th grade	120 0 0	Nov. 22, 1868	Nov. 1, 1871	3 2 19	5th, Banda Dist. Reve. Survey, N. W. P.	Office Assistant from 22nd Nov. 1869 to 31st Oct. 1871.
119	„ W. D. Corbett	...	27 4 0	Asst. Revenue Surveyor	3rd grade	160 0 0	Dec. 1, 1868	May 30, 1874	5 4 0	On special duty, Chota Nagpore Estates Survey, Bengal.	Office Assistant from 1st Dec. 1868 to 31st July 1870.
120	„ J. S. Swiney	...	26 9 12	Ditto	Ditto	160 0 0	Jan. 5, 1869	Jan. 5, 1872	4 9 12	6th, Eastern Soane Irrigation Survey, District Gya, Behar.	
121	Captain E. H. Steel, s. c.	...	H. S. 36 4 26	Asst. Supdt., Revenue Survey	{ 2nd grade† 2nd grade	624 1 6	(a) Jan. 26, 1869	May 20, 1869 April 1, 1874	} ...	2nd, Rohtak and Sirsa Districts Revenue Survey, Punjab.	(a) Commencement of second service, including Rs. 24-1-6 personal allowance.
122	Mr. G. L. R. Scott	...	L. S. 26 4 15	Asst. Revenue Surveyor	3rd grade	160 0 0	Mar. 1, 1869	Mar. 1, 1872	4 4 15	6th, Eastern Soane Irrigation Survey, District Gya, Behar.	
123	„ W. J. Lincoln	...	L. S. 26 0 22	Ditto	Ditto	160 0 0	April 1, 1869	April 1, 1872	4 0 22	4th, Moradabad and Budaun Districts Revenue Survey, N. W. P.	
124	„ B. Anderson	...	L. S. 26 4 15	Ditto	Ditto	160 0 0	April 20, 1869	June 29, 1872	4 4 15	2nd, Rohtak and Sirsa Districts Revenue Survey, Punjab.	
125	„ T. Shaw	...	L. S. 24 10 15	Ditto	Ditto	160 0 0	April 21, 1869	May 1, 1873	2 10 15	8th, Western Soane Irrigation Survey, District Shahabad, Behar.	
126	„ H. E. Gastrell	...	L. S. 28 7 8	Asst. Supdt., Revenue Survey	{ 2nd grade† 2nd grade	600 0 0	April 26, 1869	April 26, 1870 April 1, 1874	} 4 11 1	...	Leave on medical certificate from 23rd Sept. 1875 to 23rd Sept. 1876; again for one year from 25th Jan. 1877.
127	„ W. Robert	...	26 7 2	Asst. Topographical Surveyor	3rd grade	160 0 0	Aug. 21, 1869	Oct. 1, 1872	4 7 2	No. 6, Khási and Gáro Hills Topogl. Surv.	
128	„ W. H. Penrose	...	L. S. 25 11 24	Asst. Revenue Surveyor	Ditto	160 0 0	Aug. 11, 1869	June 4, 1873	3 11 24	11th, 2nd Deccan Topogl. Survey, Bombay Presidency.	
129	Captain J. R. Wilmer, s. c.	...	H. S. 36 8 12	Asst. Supdt., Topogl. Survey	{ 1st grade† 2nd grade	749 1 6	Aug. 24, 1869	Aug. 28, 1872 April 1, 1874	} ...	In charge No. 5 Malwa and Bhopal Topogl. Survey.	Rs. 140-1-6 personal allowance.
130	Mr. F. E. Warde	...	26 0 24	Asst. Topographical Surveyor	3rd grade	160 0 0	Sept. 1, 1870	Sept. 1, 1873	4 0 24	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
131	„ C. T. Templeton	...	25 0 27	Ditto	Ditto	160 0 0	Ditto	Ditto	3 0 27	No. 1, Gwalior and C. I. Topogl. Survey.	
132	„ A. D. Smart	...	46 11 17	Revenue Surveyor	Ditto	350 0 0	(a) Oct. 1, 1870	Oct. 1, 1870	7 0 0	Draftsman, Supdt. of Revenue Surveys Office, Calcutta.	Draws Rs. 400 salary as Draftsman, and Presidency house-rent of Rs. 30.
133	„ G. E. Parker	...	27 7 18	Asst. Revenue Surveyor	Ditto	160 0 0	Nov. 18, 1870	July 8, 1874	5 7 18	12th, Midnapore Dist. Reve. Surv., Bengal.	(a) Commencement of second service.
134	„ J. McCay	...	23 11 24	Asst. Topographical Surveyor	Ditto	160 0 0	Dec. 1, 1870	Dec. 1, 1873	1 11 24	No. 6, Khási and Gáro Hills Topogl. Surv.	
135	Lieut. G. W. Martin, s. c.	...	H. S. 30 4 2	Asst. Supdt., Revenue Survey	{ 3rd grade† 3rd grade	...	Mar. 24, 1871	Jan. 17, 1873 April 1, 1874	} ...	...	On furlough, p. a., 2 years, from 15th November 1873.
136	Lieut. R. G. Woodthorpe, R. E.	...	L. S. 33 0 8	Asst. Supdt., Topogl. Survey	{ 3rd grade† 2nd grade	670 0 0	July 14, 1871	July 14, 1871 April 1, 1874	} ...	No. 6, Khási and Gáro Hills Topogl. Surv.	
137	Mr. P. E. Heberlet	...	23 2 1	Proby. Asst. Revenue Surveyor	4th grade	120 0 0	Aug. 9, 1871	Sept. 12, 1872	0 10 1	7th, Khurda Estate Survey, Orissa	Apprentice from 3rd Aug. 1871 to 11th Sept. 1872.
138	Lieut. E. P. Leach, R. E.	...	L. S. 30 5 29	Asst. Supdt., Topogl. Survey	{ 2nd grade† 2nd grade	670 0 0	Oct. 6, 1871	Oct. 6, 1871 April 1, 1874	} ...	No. 7, Rajputana and Simla Topogl. Surv.	Sick leave from 11th February to 10th January 1877.
139	Mr. C. W. J. Ford	...	24 6 6	Proby. Asst. Revenue Surveyor	4th grade	120 0 0	Nov. 1, 1871	.....	2 6 6	4th, Moradabad and Budaun Districts Revenue Survey, N. W. P.	
140	„ W. C. G. Barckley	...	25 11 10	Asst. Topographical Surveyor	3rd grade	...	Dec. 1, 1871	Feb. 1, 1874	2 6 16	...	On special leave for 8 months from 6th April 1876. Granted extension for 15 months subsequently. (Apprentice from 1st to 31st Dec. 1871.)
141	„ A. W. Smart	...	26 7 1	Proby. Asst. Revenue Surveyor	4th grade	120 0 0	Jan. 1, 1872	.....	4 7 1	6th, Eastern Soane Irrigation Survey, District Gya, Behar.	
142	Lieut. A. J. C. Scott, s. c.	...	H. S. 30 1 12	Asst. Supdt., Revenue Survey	{ 3rd grade† 3rd grade	500 0 0	Jan. 17, 1872	Jan. 17, 1873 April 1, 1874	} ...	4th, Moradabad and Budaun Districts Revenue Survey, N. W. P.	
143	Mr. B. M. Wilson	...	23 5 17	Proby. Asst. Revenue Surveyor	4th grade	120 0 0	Nov. 15, 1872	.....	5 8 0	12th, Midnapore District Revenue Survey, Bengal.	Apprentice from 1st February to 14th November 1872.
144	„ H. G. Young	...	H. S. 26 5 19	Ditto	Ditto	120 0 0	Sept. 1, 1872	.....	4 5 19	5th, Banda Dist. Reve. Surv., N. W. P.	
145	„ R. R. Dickinson	...	L. S. 26 2 6	Proby. Asst. Revenue Surveyor	Ditto	120 0 0	April 16, 1873	.....	4 2 6	10th, 1st Deccan Topogl. Survey, Bombay Presidency.	Apprentice from 1st April 1872 to 15th April 1873.
146	„ G. Vander Beek	...	L. S. 28 0 15	Asst. Topographical Surveyor	Ditto	120 0 0	July 1, 1872	.....	5 3 0	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
147	„ G. H. O'Donel	...	30 1 18	Proby. Asst. Revenue Surveyor	Ditto	120 0 0	July 23, 1872	.....	4 11 9	8th, Western Soane Irrigation Survey, District Gya, Behar.	Commencement of second service. Sick leave from 1st April to 30th December 1874.

\* Applies only to officers who are under the Unconvenanted Service Rules.

† Of the two grades here given, the 1st was under the organisation of 1866; the 2nd is under the re-organisation of 1st April 1874.

*General List of the Officers of the Topographical and Revenue Survey Departments on the 1st October 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 Oct. 1877.	Present Post.	REMARKS.
									Y. M. D.		
148	Mr. J. C. Murray	L. S.	25 1 17	Asst. Topographical Surveyor	4th grade	Rs. A. P. 120 0 0	148 Oct. 1, 1872	.....	3 1 16	No. 5, Bhopal and Malwa Topogl. Survey.	
149	" A. Kitchen	...	24 8 5	Ditto	Ditto	120 0 0	149 Ditto	.....	2 8 5	Ditto ditto.	
150	" P. White	...	26 11 22	Ditto	Ditto	120 0 0	150 Ditto	.....	4 11 22	No. 8, Mysore Topogl. Survey.	
151	" E. P. S. Hill	...	23 3 17	Proby. Asst. Revenue Surveyor	Ditto	120 0 0	151 Nov. 16, 1872	.....	1 3 17	4th, Moradabad and Budaun Districts Revenue Survey, N. W. P.	
152	" E. H. S. Gaspar	...	23 10 16	Ditto	Ditto	120 0 0	152 Ditto	.....	1 6 16	12th, Midnapore District Revenue Survey, Bengal.	Sick leave for 4 months, from 1st September to 31st December 1876.
153	" E. B. M. Drew	...	23 5 10	Ditto	Ditto	120 0 0	153 May 5, 1873	.....	0 11 26	5th, Banda District Revenue Survey, N. W. P.	Leave without pay for 6 months, from 17th April 1877.
154	" C. T. J. Dease	...	22 3 4	Ditto	Ditto	120 0 0	154 Dec. 1, 1873	.....	0 3 4	11th, 2nd Deccan Topogl. Survey, Bombay Presidency.	Office Assistant from 1st June 1873 to 30th Nov. 1874.
155	" E. Graham	L. S.	23 11 0	Proby. Asst. Topogl. Surveyor	Ditto	120 0 0	155 Aug. 11, 1873	.....	1 11 0	No. 2, Khandesh and Bombay Native States Topogl. Survey.	Previous service as Sub-Surveyor, from 1st Nov. 1872.
156	" G. L. Fleming	...	23 5 29	Ditto	Ditto	120 0 0	156 Ditto	.....	1 5 29	No. 8, Mysore Topogl. Survey.	
157	" G. R. Copping	L. S.	24 3 6	Ditto	Ditto	120 0 0	157 Ditto	.....	2 3 6	No. 5, Bhopal and Malwa Topogl. Survey.	Previous service as Apprentice from 1st October 1872.
158	" G. A. Knight	...	23 5 9	Ditto	Ditto	120 0 0	158 Ditto	.....	1 5 9	No. 8, Mysore Topogl. Survey.	
159	" P. A. Peters	L. S.	22 9 23	Proby. Asst. Revenue Surveyor	Ditto	120 0 0	159 Nov. 1, 1873	.....	0 9 23	1st, Dera Ismail Khan District Revenue Survey, Punjab.	
160	" H. R. Adels	...	27 6 25	Ditto	Ditto	120 0 0	160 Feb. 19, 1874	.....	3 7 4	14th, Ganges Dearah Reve. Surv., Bengal	Absent without leave 6 days in June 1876.
161	" C. S. Kraal	...	24 0 6	Ditto	Ditto	120 0 0	161 July 24, 1874	.....	2 0 6	2nd, Rohtak and Sirsa Districts Revenue Survey, Punjab.	
162	Lieut. J. R. Hobday, s. c.	H. S.	27 2 16	Asst. Supdt., Topogl. Survey	3rd grade	600 0 0	162 Sept. 11, 1874	July 7, 1875	...	No. 1, Gwalior and Central India Topogl. Survey.	
163	Mr. Duncan Campbell	...	24 10 13	Asst. Topographical Surveyor	4th grade	120 0 0	163 Nov. 1, 1874	.....	2 10 13	No. 6, Khasi and Garo Hills Topogl. Survey.	Joined as a Sub-Surveyor on 3rd July 1872.
164	" Thos. Campbell	...	20 8 16	Proby. Asst. Revenue Surveyor	Ditto	120 0 0	164 May 1, 1875	.....	...	8th, Western Soane Irrigation Survey, District Shahabad, Behar.	
165	" L. F. Berkeley	...	23 1 3	Ditto	Ditto	120 0 0	165 Aug. 16, 1875	.....	1 1 3	4th, Moradabad and Budaun Districts Revenue Survey.	

\* Applies only to officers who are under the Uncovenanted Service Rules

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

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER 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.	Barkundazes.	Apothecary.						
		No.	No.	No.	No.	No.	No.						
	Calcutta—Head-Quarters	...	...	...	...	...	...	...	...	...	...	...	...
1	Native States, in Rajputana Agency, Udepur and Sirohi	5	1	91	1	10	...	59,024	Col. H. L. Thuillier, C. S. I., F. R. S. ... Capt. R. V. Riddell, B. E. ... J. O. N. James, Esq. ... Capt. J. Waterhouse, S. C. ...	67 52 2 94	Survr. Genl. of India and Supdt. of Topogr. Surveys. Offg. Depy. Supdt., 2nd grade, and Asst. Survr. Genl. Depy. Supdt., 3rd grade, and Asst. Survr. Genl. Asst. Supdt., 1st grade, and Asst. Survr. Genl.	Mar. 13, 1861 Oct. 6, 1876 April 1, 1866 July 23, 1866	Officiating Superintendent, Mathematical Instrument Department. In charge, Lithographic Branch. In charge, Cartographic and Engraving Branches. In charge, Photographic Branch.
	Native States, in Rajputana Agency, Udepur and Sirohi	5	1	91	1	10	...	59,024	Captain Charles Strahan, B. E. (in charge). Lieut. J. R. Hobday, S. C. ... Mr. H. J. Bolst ... „ J. A. Vanderputt ... „ T. E. M. Claudius ... „ C. Tapsell ... „ W. J. Cornelius ... „ P. J. W. Doran ... „ C. T. Templeton ...	67 162 14 26 65 79 95 102 131	Depy. Supdt., 3rd grade Asst. Supdt., 3rd grade. Surveyor, 1st grade. Surveyor, 2nd grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 2nd grade. Ditto, 2nd grade. Ditto, 3rd grade.	June 1867	
2	Khandesh and Bombay Native States	9	1	110	1	12	...	50,367	H. Horst, Esq. (in charge) ... Mr. A. J. Wilson ... „ A. G. Wyatt ... „ W. F. Pettigrew ... „ A. Cooper ... „ F. E. Warde ... „ G. Vander Beek ... „ E. Graham ...	19 38 48 97 109 130 146 155	Asst. Supdt., 1st grade, officiating ... Surveyor, 3rd grade. Ditto 4th grade. Asst. Surveyor, 2nd grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 4th grade. Proby. Asst. Surveyor, 4th grade.	Oct. 1874	

*Disposition List of Officers of the Topographical Survey Department of India on the 1st October 1877 —concluded.*

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.
		Sub-Surveyors.	Writers.	Flagmen and Carriers.	Hospital Assist- ant.	Burkundazes.	Apothecary.	
		No.	No.	No.	No.	No.	No.	
5	Sehore, Agar, Indore, Bhopawar, Agencies of Central India Agency.	5	...	171	1	9	...	Rs. 61,871
6	Négá Hills on the Eastern Frontier, Assam	3	1	83	1	11	...	63,300
7	Meywar, Marwar, Godwar, Shahpura, Mhairwara, and Ajmere, in the Rajputana Agency, and at Simla.	10	2	102	1	7	...	44,650
8	Mysore	6	1	111	1	14	...	51,860
9	Mysore	6	1	106	1	29	...	49,240*

\* 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).	129	Asst. Supdt., 2nd grade	Sept. 1874	Temporarily transferred from G. T. Survey.
Lieut. St. G. C. Gore, B. E. ...	*	Ditto, 3rd grade	...	
Mr. D. Atkinson ...	25	Surveyor, 2nd grade.	...	
" C. F. Hamer ...	64	Asst. Surveyor, 1st grade.	...	
" E. A. Wainright ...	88	Ditto, 2nd grade.	...	
" H. T. Kitchen ...	108	Ditto, 2nd grade.	...	
" W. H. Lilley ...	111	Ditto, 3rd grade.	...	
" J. C. Murray ...	148	Ditto, 4th grade.	...	
" A. Kitchen ...	149	Ditto, 4th grade.	...	
" G. R. Copping ...	167	Proby. Asst. Surveyor, 4th grade.	...	
Major W. F. Badgley, s. c. (in charge).	89	Offg. Depy. Supdt., 3rd grade	Aug. 11, 1873	
Lieut. R. G. Woodthorpe, B. E. ...	136	Asst. Supdt., 2nd grade.	...	
Mr. M. J. Ogle ...	62	Surveyor, 4th grade.	...	
" A. W. Chennell ...	77	Asst. Surveyor, 1st grade.	...	
" W. Robert ...	127	Ditto, 3rd grade.	...	
" J. McCay ...	134	Ditto, 3rd grade.	...	
" D. Campbell ...	163	Ditto, 4th grade.	...	
Lieut. Col. G. C. Depree, s. c. (in charge).	20	Depy. Supdt., 1st grade.	...	
Lieutenant E. P. Leach, B. E. ...	138	Asst. Supdt., 2nd grade	Oct. 1877	
Mr. G. A. McGill ...	21	Surveyor, 2nd grade.	...	
" J. Hurison ...	110	Asst. Surveyor, 2nd grade.	...	
" E. S. P. Atkinson ...	47	Surveyor, 4th grade	...	On furlough to Europe for 1 year, from 26th July 1876. Extended 3 months.
" R. Todd ...	70	Asst. Surveyor, 1st grade.	...	
Capt. J. R. McCullagh, B. E. (in charge).	*	Asst. Supdt., 1st grade	April 27, 1877	Member of the G. T. Survey.
Mr. R. W. Chew ...	28	Surveyor, 2nd grade.	...	
" R. D. Farrell ...	41	Ditto, 4th grade.	...	
" A. James ...	78	Asst. Surveyor, 1st grade.	...	
" F. Kitchen ...	82	Ditto, 1st grade.	...	
" W. Stotesbury ...	81	Ditto, 1st grade.	...	
" J. A. Barker ...	90	Ditto, 2nd grade.	...	
" W. W. McNair ...	106	Ditto, 2nd grade.	...	
" P. White ...	150	Ditto, 4th grade.	...	
" G. L. Fleming ...	156	Ditto, 4th grade.	...	
" G. A. Knight ...	158	Ditto, 4th grade.	...	
Major H. R. Thuillier, B. E. (in charge).	...*	Depy. Supdt., 1st grade	April 11, 1877	Party formed 1st October 1876 from members of the G. T. Survey.
Mr. H. E. T. Keelan ...	...	Surveyor, 3rd grade.	...	
" L. J. Pocock ...	...	Ditto, 4th grade.	...	
" Hugh Todd ...	...	Ditto, 1st grade.	...	
" T. Kenney ...	...	Ditto, 1st grade	...	On deputation to G. T. Survey, Computing Office.
" W. Oldham ...	...	Ditto, 3rd grade.	...	
" J. M. Kennedy ...	...	Ditto, 4th grade.	...	

\* For numbers please refer to G. T. Survey Graded List.



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

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.
		Sub-Surveyors, &c.	Writers.	Levelers.	Chainmen or Measurers.	Hospital Assis- ant.	Burkundazes.	
1	Dera Ismail Khan District, Punjab ... ..	No. 30	No. ...	No. ...	No. 200	No. 1	No. 15	Rs. Profnl. 80,928
2	Rohtak and Sirsa Districts, Punjab ... ..	30	1	...	200	1	15	74,600
4	Moradabad and Budaun Districts, North-Western Pro- vinces.	31	...	1	140	1	13	Profnl. 62,705; Leveling 3,104
5	Muttra and Banda Districts, North-Western Provinces ...	25	...	1	188	1	17	Profnl. 68,810; Leveling 3,083.
6	District Gya, Behar, Eastern Soane Irrgn. Survey, Bengal	30	...	...	200	1	14	Profnl. 64,936
7	Khurda Estate, Orissa Cadastral Survey, Bengal ...	31	1	...	181	1	16	Profnl. 72,305

Officers in charge. Surveyors and Assistant Surveyors.	Number in Graded List.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
Col. H. C. Johnstone, c. b., s. c. (in charge). Captain R. Beavan, s. c. Mr. G. Housden ... " W. S. Buttressa ... " A. J. Gibson ... " G. B. Scott ... " P. A. Peters ...	17 113 7 37 46 60 160	Depy. Supdt., 1st grade Asst. Supdt., 2nd grade. Surveyor, 1st grade. Ditto, 4th grade. Ditto, 4th grade. Ditto, 4th grade. Proby. Asst. Surveyor, 4th grade.	... Oct. 15, 1873	
Capt. E. H. Steel, s. c. (in charge) Mr. E. Loftie ... " G. H. Blyth ... " J. S. Pemberton ... " P. Ford ... " B. Anderson ... " C. S. Kruel ...	121 6 5 42 71 124 161	Asst. Supdt., 2nd grade Surveyor, 2nd grade. Ditto, 2nd grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 3rd grade. Proby. Asst. Surveyor, 4th grade.	... July 14, 1877	
Captain W. Barron, s. c. (in charge). Lieut. A. J. C. Scott, s. c. Mr. H. T. Hanby ... " S. O. Madras ... " W. J. Lincoln ... " C. W. J. Ford ... " E. P. S. Hill ... " L. F. Berkeley...	50 142 55 112 123 139 151 165	Depy. Supdt., 3rd grade Asst. Supdt., 3rd grade. Surveyor, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 3rd grade. Proby. Asst. Surveyor, 4th grade. Ditto, 4th grade. Ditto, 4th grade.	... Nov. 12, 1873	
Col. F. C. Anderson, s. c. (in charge). E. J. Jackson, Esq. ... Mr. C. W. Campbell ... " E. Little ... " R. B. Smart, Jr. ... " G. W. Jarbo ... " J. R. Scott ... " T. F. Freeman ... " J. Murphy ... " H. G. Young ... " E. B. M. Drew ...	16 80 18 35 75 98 101 114 118 144 154	Depy. Supdt., 1st grade Asst. Supdt., 2nd grade Surveyor, 2nd grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 2nd grade. Ditto, 2nd grade. Proby. Asst. Surveyor, 4th grade. Ditto, 4th grade. Ditto, 4th grade.	... Nov. 1, 1871	On leave on medical certificate, for one year, from 26th January 1877.
E. T. S. Johnson, Esq. (in charge) H. B. Talbot, Esq. ... Mr. P. A. Cowley ... " J. H. O'Donel ... " A. C. W. Lemarchand ... " J. S. Swiney ... " G. L. R. Scott ... " E. J. Martin ... " A. W. Smart ...	10 11 31 68 117 120 122 107 141	Depy. Supdt., 3rd grade Asst. Supdt., 2nd grade. Surveyor, 3rd grade. Asst. Surveyor, 1st grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 3rd grade. Proby. Asst. Surveyor, 4th grade.	... Oct. 1, 1872	
R. B. Smart, Esq. (in charge) ... E. C. Barrett, Esq. ... Mr. W. R. Vvall ... " H. Dowman ... " T. H. Dunno ... " G. Campbell ... " P. E. Heberlet ...	9 56 23 54 86 74 137	Depy. Supdt., 2nd grade Asst. Supdt., 2nd grade. Surveyor, 4th grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 3rd grade. Proby. Asst. Surveyor, 4th grade.	... Nov. 15, 1876	

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

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.
		Sub-Surveyors, &c.	Writers.	Levelers.	Chainmen or Measurers.	Hospital Assist- ant.	Burkundazes.	
		No.	No.	No.	No.	No.	No.	
8	Shahabad District, Behar, Western Soane Irrigation Survey, Bengal.	19	1	...	130	1	12	65,148
10	Ahmednagar and Poona Districts Deccan Survey, Bombay.	22	1	...	165	1	16	60,888
11	Poona and Sholapur Districts Deccan Survey, Bombay ...	17	1	...	165	1	12	61,744
12	Midnapore District Survey, Bengal ...	38	1	...	200	1	15	68,030
14	Ganges Dearah in Districts Furreedpore, Dacca and Backergunge, Bengal.	30	1	...	200	1	17	59,980
...	Azamgarh, Agra and Hamirpur Districts Cadastral Revision Survey, North-Western Provinces.	3	1	...	15	...	13	26,564
...	Chota Nagpore Estate (Special Survey) Cadastral, Bengal	9	...	...	53	...	5	32,000

Officers in charge, Surveyors and Assistant Surveyors.	Number in Graded List.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
Major J. Sconce, s. c. (in charge) Captain S. H. Cowan ... Mr. F. Grant ... " G. Rac ... " T. Shaw ... " G. H. O'Donel ... " T. Campbell ...	34 100 24 32 125 147 164	Depy. Supdt., 2nd grade Asst. Supdt., 2nd grade. Surveyor, 2nd grade. Ditto, 3rd grade. Asst. Surveyor, 3rd grade. Proby. Asst. Surveyor, 4th grade. Ditto, 4th grade.	... Mar. 15, 1876	
Major D. Macdonald, s. c. (in charge). G. H. Cooke, Esq. ... Mr. A. M. Lawson ... " J. Newland ... " G. C. Swiney ... " R. R. Dickenson ...	44 99 57 69 116 145	Depy. Supdt., 3rd grade Asst. Supdt., 3rd grade. Surveyor, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 2nd grade. Proby. Asst. Surveyor, 4th grade.	... Dec. 23, 1875	
Major H. C. B. Tanner, Bom. s. c. (in charge). Captain H. S. Hutchinson, s. c. Mr. S. M. Smylie ... " T. W. Reilly ... " J. T. O. Coxen ... " W. H. Penrose... " C. T. J. Dease ...	53 105 36 33 61 128 154	Depy. Supdt., 3rd grade Asst. Supdt., 3rd grade. Surveyor, 3rd grade. Ditto, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 3rd grade. Prob. Asst. Surveyor, 4th grade.	... Apl. 23, 1877	
Capt. W. H. Wilkins, s. c. (in charge). Mr. James Todd ... " C. David ... " G. E. Parker ... " B. M. Wilson ... " E. H. S. Gasper ...	59 73 9 133 143 152	Asst. Supdt., 1st grade Surveyor, 3rd grade. Ditto, 3rd grade. Asst. Surveyor, 3rd grade. Proby. Asst. Surveyor, 4th grade. Ditto, ditto.	... May 1, 1877	
Capt. E. W. Samuells (in charge) Mr. W. A. Wilson ... " R. C. D. Ewing ... " C. W. Wilson ... " C. W. F. Seyers ... " H. R. Adels ...	72 45 92 103 84 160	Asst. Supdt., 1st grade Surveyor, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Proby. Asst. Surveyor, 4th grade.	... May 18, 1877	
Capt. D. C. Andrew, s. c. (in charge). Mr. H. R. Littlewood ... " W. J. Lane ...	58 43 87	Asst. Supdt., 1st grade, Offg. Depy. Supdt., 3rd grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade.	Nov. 1, 1876	
Captain J. E. Sandeman (in charge) Mr. D. A. King ... " W. D. Corbett ...	83 76 119	Asst. Supdt., 1st grade Asst. Surveyor, 1st grade. Ditto, 3rd grade.	... Oct. 1, 1874	

Classified List of Officers of the Great Trigonometrical Survey Department as it stood on the 1st October 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.	
<b>SUPERINTENDENT.</b>							
1	Colonel J. T. Walker, c. B., Royal Engineers	Superintendent				2,565 5 0	
<b>Consolidated salary Rs. 2,500.</b>							
<b>SENIOR BRANCH.</b>							
<b>DEPUTY SUPERINTENDENTS.</b>							
<b>1st Grade—Consolidated salary Rs. 1,600.</b>							
1	Mr. J. B. N. Hennessey, M. A.	Deputy Superintendent, 1st grade	Computing Office			1,600 0 0	
2	Vacant	Ditto					
<b>2nd Grade—Consolidated salary Rs. 1,300.</b>							
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. On furlough.
2	Lt. Col. C. T. Haig, Royal Engineers	Ditto					
3	Major J. Herschel, Royal Engineers	Ditto	Computing Office			1,482 10 0	
4	Lt. Col. B. R. Branfill, Bengal Cavalry	Ditto	Madras Party			1,300 0 0	
<b>3rd Grade—Consolidated salary Rs. 1,000.</b>							
1	Captain T. T. Carter, Royal Engineers	Deputy Superintendent, 3rd grade	Guzerat Party			1,140 0 0	
2	W. M. Campbell, Royal Engineers	Ditto	No. 2 Extra Party			1,440 0 0	Officiating Deputy Superintendent, 2nd grade. Subject to reversion. On furlough.
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						
<b>ASSISTANT SUPERINTENDENTS.</b>							
<b>1st Grade—Consolidated salary Rs. 750.</b>							
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. Transferred to Mysore Topographical Survey.
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	
<b>2nd Grade—Consolidated salary Rs. 600.</b>							
1	Captain A. Baird, Royal Engineers	Asst. Superintendent, 2nd grade	Tidal and Leveling Operations	140 0 0	750 0 0	890 0 0	Officiating Assistant Superintendent, 1st grade.
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. On furlough.
<b>3rd Grade—Consolidated salary Rs. 500; for Civil Officers, Rs. 400.</b>							
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, R. 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, R. E.	Ditto	Guzerat Survey	70 0 0	600 0 0	670 0 0	Ditto ditto.
<b>JUNIOR BRANCH.</b>							
<b>SURVEYORS.</b>							
<b>1st Grade—Salary Rs. 500.</b>							
1	Mr. Harry Duhan	Surveyor, 1st grade	Correspondence Office			500 0 0	Personal Assistant to Superintendent.
2	H. Beverley	Ditto	Burma Party			500 0 0	Officiating in charge, Burma Party.
3	J. Peyton	Ditto	Kumaun and Garhwál Survey			500 0 0	
4	A. D'Souza	Ditto	Guzerat Survey			500 0 0	
<b>2nd Grade—Salary Rs. 400.</b>							
1	Mr. C. J. Neville	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	

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

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.	
<b>SURVEYORS—contd.</b>							
<i>3rd Grade—Salary Rs. 350.</i>							
5	...						
1	Mr. C. Wood	Surveyor, 3rd grade	Computing Office	.....	.....	350 0 0	
2	" H. E. T. Keelan	Ditto	.....	.....	.....	350 0 0	Transferred to Mysore Topographical Survey.
3	" F. Bell	Ditto	Kattywar Party	.....	.....	350 0 0	
4	" G. Atkinson	Ditto	Drawing Office	.....	.....	350 0 0	
5	Vacant	.....	.....	.....	.....	.....	
<i>4th Grade—Salary Rs. 300.</i>							
8	...						
1	Mr. H. Peychers	Surveyor, 4th grade	Computing Office	.....	.....	300 0 0	
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	Transferred to Mysore Topographical Survey.
5	" A. Christie	Ditto	Guzerat Survey	.....	.....	300 0 0	
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	
<b>ASSISTANT SURVEYORS.</b>							
<i>1st Grade—Salary Rs. 250.</i>							
9	...						
1	Mr. T. H. Rendell	Asst. Surveyor, 1st grade	Tidal and Leveling Operations	.....	.....	250 0 0	
2	" J. W. Macdougall	Ditto	.....	.....	.....	250 0 0	Transferred to Mysore Topographical Survey. On furlough in India.
3	" Hugh Todd	Ditto	.....	.....	.....	250 0 0	Ditto ditto.
4	" E. J. Connor	Ditto	No. 1 Extra Ditto	.....	.....	250 0 0	
5	" J. Bond	Ditto	No. 2 Ditto	.....	.....	250 0 0	
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	.....	.....	200 0 0	
2	" W. Fielding	Ditto	Kattywar Survey	.....	.....	200 0 0	
3	" G. D. Cusson	Ditto	Guzerat Survey	.....	.....	200 0 0	
<i>3rd Grade—Salary Rs. 160.</i>							
8	...						
1	Mr. C. P. Torrens	Asst. Surveyor, 3rd grade	Jodhpore Series	.....	.....	160 0 0	
2	" A. Bryson	Ditto	Madras Party	.....	.....	160 0 0	Transferred to Mysore Topographical Survey.
3	" W. Oldham	Ditto	.....	.....	.....	160 0 0	
4	" J. C. Clancey	Ditto	Eastern Frontier Series	.....	.....	160 0 0	
5	" J. O. Hughes	Ditto	Burma Party	.....	.....	160 0 0	
6	" I. Pocock	Ditto	Kumaun and Garhwál 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	.....	.....	120 0 0	
2	" D. J. Collins	Ditto	Eastern Frontier Series	.....	.....	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 Garhwál Survey	.....	.....	120 0 0	Transferred to Mysore Topographical Survey.
9	" J. M. Kennedy	Ditto	.....	.....	.....	120 0 0	

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

1 Genl. Seniority Number.	2 NAMES.	3 Passed in Vernacular.	4 Age. Y. M. D.	5 Rank.	6 Grade.	7 Salary. Rs. A. P.	8 Date of first appointment to the Department.	9 Date of appointment to present grade.	10 *Period of service counting for pension. Y. M. D.	11 Present Post.	12 REMARKS.
1	Mr. J. B. N. Hennessey, M. A. (Senior Branch).	Not passed ...	48 2 0	Deputy Superintendent	{ 1st gradet 1st grade	1,600 0 0	April 14, 1844	April 1, 1866 April 1, 1874	22 3 15	In charge, Computing Office ...	Service reckoned under new rules.
2	„ Harry Duban	Ditto ...	50 8 22	Surveyor	1st grade ...	500 0 0	April 22, 1845	April 1, 1866	27 4 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 11 9	Assistant Superintendent	{ 1st gradet 2nd grade	700 0 0	Oct. 1, 1851	April 1, 1873 April 1, 1874	26 0 0	Kattywar Survey	Offg. Assistant Superintendent, 1st grade. Services reckoned under old rules.
4	Colonel J. T. Walker, C. B., R. E.	Passed ...	50 10 0	Superintendent	...	2,565 6 0	Dec. 1, 1853	Mar. 12, 1861	...	Superintendent.	
5	Mr. W. G. Beverley (Senior Branch)	Not passed ...	41 11 15	Assistant Superintendent	{ 2nd gradet 2nd grade	...	July 1, 1854	April 1, 1871 April 1, 1874	17 6 7	...	Service reckoned under new rules to 17th May 1877, the date on which he proceeded on furlough.
6	„ E. C. Ryall (ditto)	Ditto ...	39 8 15	Ditto	{ 2nd gradet 3rd grade	600 0 0	April 25, 1855	April 1, 1873 April 1, 1874	22 5 6	Kumaun and Garhwál Survey	225 days' sick leave included under old rules. Offg. Asst. Supdt., 2nd grade.
7	„ H. Beverley	Ditto ...	38 11 3	Surveyor	1st grade ...	500 0 0	June 14, 1855	April 1, 1871	22 3 17	Offg. in charge Burma Party	30 days' leave included under old rules.
8	„ L. H. Clarke	Ditto ...	43 3 26	Ditto	2nd grade ...	400 0 0	Nov. 26, 1855	Dec. 1, 1872	21 10 5	Head-Quarters.	
9	„ C. J. Neuville	Ditto ...	43 3 12	Ditto	Ditto	400 0 0	Dec. 1, 1855	Oct. 1, 1871	21 10 0	No. 1 Extra Party	6 months' sick leave included under old rules.
10	„ W. Todd	Ditto ...	38 10 21	Ditto	Ditto	400 0 0	Jan. 11, 1856	June 1, 1874	19 7 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 ...	40 1 17	Ditto	1st grade ...	600 0 0	Feb. 19, 1856	Sept. 1, 1875	16 11 17	Guzerat Survey	349 days' furlough, and 77 days' medical leave excluded under new rules.
12	„ J. Low	Ditto ...	37 7 0	Ditto	2nd grade ...	400 0 0	Oct. 1, 1857	Aug. 1, 1875	20 0 0	Burma Party	382 days' sick leave, and 4 months' leave on private affairs included under old rules.
13	„ C. Wood	Lower Standard	35 2 10	Ditto	3rd grade ...	350 0 0	May 6, 1858	April 1, 1871	19 2 10	Computing Office	Services reckoned under old rules.
14	„ H. E. T. Keelan	Not passed ...	34 6 1	Ditto	Ditto	350 0 0	Aug. 17, 1858	April 1, 1872	11 6 0	No. 1 Extra Party	11 months and 13 days' furlough excluded under the new rules, and 18 days' sick leave.
15	„ F. Bell	Lower Standard	35 5 6	Ditto	Ditto	350 0 0	Ditto	June 1, 1873	11 3 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 10 8	Deputy Superintendent	{ 2nd gradet 2nd grade	1,300 0 0	Oct. 4, 1858	Oct. 1, 1871 April 1, 1874	...	In Charge Madras Party.	
17	Major H. R. Thuillier, R. E.	Ditto ...	39 6 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 11 20	Surveyor	3rd grade ...	350 0 0	Aug. 1, 1859	Jan. 1, 1874	17 11 20	Drawing Office	Services reckoned under old rules.
19	Lieut.-Col. C. T. Haig, R. E.	Ditto ...	43 2 15	Deputy Superintendent	{ 2nd gradet 2nd grade	...	Sept. 22, 1859	Oct. 1, 1867 April 1, 1874	...	...	On furlough.
20	Major J. Herschel, B. E.	Passed ...	39 11 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 8 2	Surveyor	1st grade ...	500 0 0	Feb. 3, 1860	April 1, 1874	17 7 26	Kumaun and Garhwál Survey	Services reckoned under old rules.
22	„ J. W. Mitchell	Ditto ...	34 1 29	Ditto	4th grade ...	300 0 0	Sept. 1, 1861	July 1, 1874	16 1 0	Burma Party	Ditto ditto.
23	Captain T. T. Carter, B. E.	Passed ...	39 7 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 9 18	Surveyor	4th grade ...	300 0 0	April 8, 1862	June 1, 1874	16 5 23	Computing Office	Services reckoned under old rules.
25	„ G. Belcham	Ditto ...	32 7 15	Ditto	Ditto	300 0 0	Nov. 1, 1862	Ditto	14 11 0	Madras Party	Ditto ditto.
26	Major A. Pullan, S. C.	Passed ...	41 6 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 ...	38 2 12	Deputy Superintendent	{ 3rd gradet 3rd grade	1,440 0 0	Jan. 30, 1863	Feb. 1, 1867 April 1, 1874	...	Ditto, 2nd do.	In charge, No. 2 Extra Party.
28	Mr. L. J. Pocock	Not passed ...	34 5 5	Surveyor	4th grade ...	300 0 0	July 10, 1863	July 1, 1874	12 2 5	Mysore Topographical Survey	80 days' sick leave excluded.
29	„ A. Christie	Higher Standard	32 0 1	Ditto	Ditto	300 0 0	Aug. 7, 1863	Oct. 1, 1874	10 0 1	Guzerat Survey.	
30	Captain H. Trotter, B. E.	Not passed ...	36 1 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 7 17	Surveyor	4th grade ...	300 0 0	Oct. 1, 1863	Oct. 1, 1874	11 7 18	Assam Survey.	
32	„ N. C. Gwynne	Ditto ...	34 6 25	Ditto	Ditto	300 0 0	Oct. 19, 1863	Ditto	12 6 25	Kattywar Survey.	
33	„ W. C. Price	Ditto ...	31 3 7	Ditto	Ditto	300 0 0	Nov. 1, 1863	Ditto	9 3 7	Jodhpore Series.	
34	„ C. H. McA'Fee	Lower Standard	27 10 15	Ditto	Ditto	300 0 0	Sept. 6, 1864	Aug. 1, 1875	5 10 16	Guzerat Survey.	
35	„ T. H. Rendell	Not passed ...	33 2 9	Assistant Surveyor	1st grade ...	250 0 0	Oct. 11, 1864	June 1, 1873	11 2 9	Tidal and Leveling Operations.	

\* Applies only to Officers who are under the Uncovenanted Civil Service Rules. † Of the two grades here given, the first was under the old organisation, and the second is under the re-organisation 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).

General List of Officers of the Great Trigonometrical Survey Department on the 1st October 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 7 16	Assistant Surveyor ...	1st grade ...	...	March 1, 1865	June 1, 1874	10 5 16	...	Services reckoned up to 31st July 1877. On furlough from 1st August 1877.
37	„ E. J. Connor ...	Lower Standard ...	29 1 15	Ditto ...	Ditto ...	250 0 0	Ditto ...	July 1, 1874	6 7 10	No. 1 Extra Party ...	6 months and 5 days' leave on private affairs excluded under new rules.
38	„ Hugh Todd ...	Not passed ...	30 1 15	Ditto ...	Ditto ...	250 0 0	July 15, 1865	June 1, 1874	8 0 16	Mysore Topographical Survey ...	30 days' sick leave excluded.
39	Captain W. J. Heaviside, B. E. ...	Passed ...	37 3 27	Deputy Superintendent ...	{ 3rd grade } { 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, B. E. ...	Ditto ...	35 7 12	Assistant Superintendent ...	{ 1st grade } { 1st 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 8 24	Assistant Surveyor ...	1st grade ...	250 0 0	Oct. 18, 1866	Oct. 1, 1874	5 8 4	No. 2 Extra Party ...	20 days' sick leave excluded.
42	„ C. D. Potter ...	Tamil, Civil Engineering College, Madras. ...	32 0 27	Ditto ...	Ditto ...	250 0 0	Oct. 29, 1866	Ditto ...	9 11 23	Madras Party ...	33 days' leave excluded.
43	Captain J. Hill, B. E. ...	Not passed ...	36 9 7	Assistant Superintendent ...	{ 1st grade } { 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 9 16	Ditto ...	{ 1st grade } { 1st grade }	750 0 0	Jan. 3, 1867	Dec. 4, 1870 } April 1, 1874 }	9 8 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 8 17	Assistant Surveyor ...	2nd grade ...	200 0 0	April 29, 1868	June 1, 1874	6 2 17	Guzerat Survey ...	6 months' medical leave excluded.
46	„ W. Fielding ...	Ditto ...	29 4 13	Ditto ...	Ditto ...	200 0 0	May 3, 1868	July 1, 1874	7 4 13	Kattywar Survey.	
47	„ G. D. Cusson ...	Ditto ...	31 0 7	Ditto ...	Ditto ...	200 0 0	May 8, 1868	Oct. 1, 1874	9 0 7	Guzerat Survey.	
48	„ T. Kinney ...	Ditto ...	30 4 27	Ditto ...	1st grade ...	250 0 0	June 17, 1868	Ditto ...	7 10 27	Mysore Topographical Survey ...	6 months' leave on private affairs excluded.
49	Captain A. Baird, B. E. ...	Passed ...	35 4 26	Assistant Superintendent ...	{ 1st grade } { 2nd grade }	890 0 0	Dec. 4, 1868	Oct. 1, 1871 } April 1, 1874 }	...	Offg. Asst. Supdt., 1st grade ...	In charge, Tidal and Levelling operations.
50	Mr. C. P. Torrens ...	Not passed ...	27 3 11	Assistant Surveyor ...	3rd grade ...	160 0 0	Dec. 12, 1868	April 1, 1873	5 3 11	Jodhpore Series.	
51	Captain J. R. McCullagh, B. E. ...	Passed ...	35 6 5	Assistant Superintendent ...	{ 1st grade } { 2nd grade }	890 0 0	Feb. 12, 1869	Jan. 1, 1872 } April 1, 1874 }	...	Mysore Topographical Survey ...	Offg. Asst. Supdt., 1st grade.
52	„ A. Bryson ...	Not passed ...	28 1 1	Assistant Surveyor ...	3rd grade ...	160 0 0	Sept. 20, 1869	Oct. 1, 1873	6 1 1	Madras Party.	
53	„ W. Oldham ...	Ditto ...	24 9 15	Ditto ...	Ditto ...	160 0 0	Oct. 15, 1871	June 1, 1874	2 9 15	Kattywar Survey.	
54	Lieut. H. J. Harman, B. E. ...	Ditto ...	27 4 17	Assistant Superintendent ...	{ 2nd grade } { 3rd grade }	670 0 0	June 3, 1872	June 3, 1872 } April 1, 1874 }	...	Offg. Asst. Supdt., 2nd grade ...	In charge, Assam Survey.
55	Mr. J. C. Clancey ...	...	23 0 13	Assistant Surveyor ...	3rd grade ...	160 0 0	Sept. 30, 1872	Oct. 1, 1874	1 0 13	Eastern Frontier Series.	
56	„ J. O. Hughes ...	...	22 1 8	Ditto ...	Ditto ...	160 0 0	Oct. 14, 1872	April 1, 1875	...	Burma Party ...	2 months and 22 days' sick leave excluded.
57	„ Irvin Pocock ...	...	28 4 9	Ditto ...	Ditto ...	160 0 0	Oct. 28, 1872	Ditto ...	4 11 4	Kumaun and Garhwál Survey ...	Excludes previous service in the Stud. Department, from 1st March 1869 to 23rd October 1872.
58	„ G. T. Hall ...	Lower Standard ...	25 5 24	Ditto ...	Ditto ...	160 0 0	Nov. 22, 1872	Aug. 1, 1875	3 5 24	Kattywar Survey.	
59	Lieut. St. G. C. Gore, B. E. ...	...	28 7 8	Assistant Superintendent ...	{ 2nd grade } { 3rd 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.
60	„ J. E. Gibbs, B. E. ...	Lower Standard ...	27 6 30	Ditto ...	{ 2nd grade } { 3rd grade }	670 0 0	Aug. 15, 1873	Aug. 15, 1873 } April 1, 1874 }	...	Guzerat Survey ...	Ditto ditto.
61	Mr. J. F. McCarthy ...	Ditto ...	24 5 2	Assistant Surveyor ...	4th grade ...	120 0 0	Aug. 1, 1873	Aug. 1, 1873	2 5 2	Assam Party.	
62	„ D. J. Collins ...	...	23 4 27	Ditto ...	Ditto ...	120 0 0	Oct. 6, 1873	Oct. 6, 1873	1 4 27	Eastern Frontier Series.	
63	„ H. Corkery ...	Lower Standard ...	26 1 10	Ditto ...	Ditto ...	120 0 0	Nov. 20, 1873	Nov. 20, 1873	3 10 11	Kattywar Survey.	
64	„ P. F. Prunty ...	...	22 9 6	Ditto ...	Ditto ...	120 0 0	May 9, 1874	May 9, 1874	0 9 6	Jodhpore Series.	
65	„ J. Keating ...	...	23 4 27	Ditto ...	Ditto ...	120 0 0	June 1, 1874	June 1, 1874	1 4 27	Kattywar Survey.	
66	„ S. F. Norman ...	...	23 1 23	Ditto ...	Ditto ...	120 0 0	Sept. 1, 1874	Sept. 1, 1874	1 1 23	Guzerat Survey.	
67	„ C. Norman ...	Lower Standard ...	21 4 12	Ditto ...	Ditto ...	120 0 0	Oct. 12, 1874	Oct. 12, 1874	...	Ditto.	
68	„ R. F. Warwick ...	Ditto ...	22 6 2	Ditto ...	Ditto ...	120 0 0	July 2, 1875	July 2, 1875	0 6 2	Kumaun and Garhwál Survey..	
69	„ J. M. Kennedy ...	...	20 10 28	Ditto ...	Ditto ...	120 0 0	Aug. 19, 1875	Aug. 19, 1875	...	Mysore Topographical Survey.	

\* Applies only to Officers who are under the Unconvenanted Civil Service Rules. † Of the two grades here given, the first was under the re-organisation, and the second is under the re-organisation of 1st April 1874. 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 October 1877.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party, from 1st Apl. 1876 to 31st Mar. 1877.
		Sub-Surveyors.	Writers.	Chainmen and Flagmen.	Native Doctors.	Barkandazes.	Jemadars.	
		No.	No.	No.	No.	No.	No.	Rs.
<i>Madras Party.</i>								
	On the South-East Coast of the Peninsula between Madras and Cape Comorin; recess quarters at Bangalore ...	...	...	56	1	17	...	39,088
<i>Eastern Frontier Series.</i>								
	British Burma; recess quarters at Moulmein ...	...	1	78	2	27	...	62,188
<i>Burma Party.</i>								
	British Burma; recess quarters at Moulmein ...	...	1	61	1	7	...	38,518
<i>Kumaun and Garhwál Party.</i>								
	This party has been largely reduced and will be employed in completing the mapping ...	6	...	55	1	8	...	41,217
<i>Assam Valley Triangulation.</i>								
	Assam ...	...	1	54	1	12	...	39,698
<i>Jodhpore Series.</i>								
	In the Jodhpore, Jesulmeer and Bikaner States; recess quarters at Mount Aboo ...	...	...	50	1	14	...	37,768
<i>Kattywar Party.</i>								
	The Province of Kattywar, Bombay Presidency; recess quarters at Poona ...	11	1	145	1	27	...	70,089

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
Lt. Col. B. R. Branfill ... Mr. G. Belcham ... " C. D. Potter ... " A. Bryson ...	16 25 42 52	Depy. Supdt., 2nd grade Surveyor, 4th grade. Assistant Surveyor, 2nd grade. Ditto 3rd do.	June 1, 1877.	
Captain J. Hill, R. E. ... Mr. J. C. Clancey ... " D. J. Collins ...	43 55 62	Assistant Superintendent, 1st grade ... Assistant Surveyor, 3rd grade. Ditto 4th do.	Mar. , 1877.	
H. Beverley, Esq. ... Mr. J. Low ... " J. W. Mitchell ... " J. O. Hughes ...	7 12 22 56	Surveyor, 1st grade Surveyor, 2nd grade. Ditto 4th do. Assistant Surveyor, 3rd grade.	May, 18, 1877.	Offg. in charge.
E. C. Ryall, Esq. ... Mr. J. Peyton ... " W. Todd ... " I. Pocock ... " R. F. Warwick ...	6 21 10 57 68	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 ...	54 31 61	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 50 64	Offg. Depy. Supdt., 3rd grade Surveyor, 4th do. Assistant Surveyor, 3rd do. Ditto 4th do.	Nov. 20, 1874.	
Major A. Pullan, s. c. ... Mr. J. McGill ... " F. Bell ... " N. C. Gwynne ... " W. A. Fielding ... " G. T. Hall ... " H. Corkery ...	26 3 15 32 46 58 63	Offg. Depy. Supdt., 3rd grade Offg. Asst. Supdt., 1st 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 October 1877 —concluded.*

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party, from 1st Apr. 1876 to 31st Mar. 1877.
		Sub-Surveyors.	Writers.	Chainmen and Flagmen.	Native Doctors.	Barkandazes.	Jemadars.	
	<i>Guzerat Party.</i> Guzerat; recess quarters at Poona ... ..	No. 22	No. 1	No. 200	No. 1	No. 33	No. ...	Rs. 84,287
	<i>No. 1 Extra Party.</i> Carrying on Electric Determinations of Longitude ... ..	...	...	24	...	3	...	24,188
	<i>No. 2 Extra Party.</i> Carrying on Electric Determinations of Longitude ... ..	...	1	10	...	3	...	24,387
	<i>Tidal and Leveling Operations.</i> Tidal operations at various Ports ... .. Levelling operations in Bombay Presidency; recess quarters at Poona.	5	1	36	1	12	...	25,398

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
Captain T. T. Carter, R. E. ... Lieut. J. E. Gibbs, R. E. ... Mr. A. D'Souza ... " A. Christie ... " C. H. McA'Fee ... " J. Hickie ... " G. D. Cusson ... " S. F. Norman ... " C. Norman ...	29 60 11 29 34 45 42 66 67	Dpy. Supdt. 3rd grade ... Offg. Asst. Supdt., 2nd grade. Surveyor, 1st grade. Ditto 4th do. Ditto 4th do. Asst. Surveyor, 2nd grade. Ditto 2nd do. Ditto 4th do. Ditto 4th do.	June 14, 1877.	
Captain W. J. Heaviside, R. E. Mr. C. J. Neuville ... " E. J. Connor ...	39 9 37	Depy. Supdt., 3rd grade Surveyor, 2nd do. Asst. Surveyor, 1st do.	Dec. 20, 1875.	
Captain W. M. Campbell, R. E. Mr. J. Bond ...	27 41	Offg. Depy. Supdt., 2nd grade Asst. Surveyor, 1st do.	Aug. 1, 1875.	
Captain A. W. Baird, R. E. ... Mr. T. H. Rendell ...	49 35	Offg. Asst. Supdt., 1st grade Assistant Surveyor, 1st do.	July 2, 1877.	



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

No. of Officers in each grade.	NAMES.	Substantive Appointment.	Duty on which at present employed.
1	2	3	4
1	The Hon'ble Colonel W. C. Anderson	Survey and Settlement Commissioner	Survey and Settlement Commissioner
2	Major J. P. Grant	Superintendent	Superintendent
3	" J. W. M. Anderson	Deputy Superintendent	Offg. Superintendent
<i>1st Grade.</i>			
1	Captain J. Rutherford	Assistant Superintendent	Offg. Deputy Superintendent
2	" G. Mackenzie	Ditto	Assistant Superintendent
3	" F. W. Major	Ditto	Ditto
4	" J. B. Lawrence	Ditto	Ditto
5	Mr. E. H. Butcher	Ditto	Ditto
<i>2nd Grade.</i>			
1	Captain M. F. Coussmaker	Assistant Superintendent	Assistant Superintendent
2	" R. L. Price	Ditto	Ditto
3	Mr. J. P. Barker	Ditto	Ditto
4	Lieutenant A. H. Macintire	Ditto	Ditto
5	Mr. G. F. Meiklejohn	Ditto	Ditto
6	Captain D. Cowie	Ditto	Ditto
7	Mr. W. E. A. James	Ditto	Ditto
8	Mr. F. B. Clerk	Ditto	Ditto
<i>3rd Grade.</i>			
1	Captain A. McCally	Assistant Superintendent	Assistant Superintendent
2	Mr. G. K. Betham	Ditto	Ditto
<i>Probationary.</i>			
1	Mr. A. G. Hudson	Probationary Assistant Supdt.	Probationary Asst. Superintendent
2	" E. W. Laseron	Ditto	Ditto

SALARIES, INCLUDING ALLOWANCES.				REMARKS.
TO MILITARY OFFICERS.			TO CIVILIANS.	
Military Pay and Allowances.	Staff Pay.	Aggregate Pay and Allowances.	Civil Consolidated Salary.	
5	6	7	8	9
		Rs. A. P.	Rs. A. P.	
.....	.....	1,247 3 6	.....	On furlough to Europe for 20 months, from 13th July 1877.
.....	.....	1,565 14 0	.....	
.....	.....	1,275 7 0	.....	
		995 0 0	.....	
.....	.....	795 0 0	.....	
.....	.....	795 0 0	.....	
.....	.....	795 0 0	.....	
.....	.....	.....	795 0 0	
		695 0 0	.....	On leave on medical certificate to Europe for 2 years, from 2nd July 1877.
.....	.....	695 0 0	.....	
.....	.....	.....	695 0 0	On special duty connected with famine relief.
.....	.....	695 0 0	695 0 0	
.....	.....	695 0 0	695 0 0	Ditto ditto.
.....	.....	695 0 0	695 0 0	Ditto ditto.
.....	.....	695 0 0	695 0 0	Ditto ditto.
.....	.....	695 0 0	695 0 0	Ditto ditto.
.....	.....	560 0 0	.....	On special duty connected with famine relief.
.....	.....	.....	560 0 0	
.....	.....	.....	255 0 0	On special duty connected with famine relief.
.....	.....	.....	255 0 0	

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

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in the Vernacular.	Age.	Rank.	Grade.	Salary.
1	The Hon'ble Col. W. C. Anderson	All have passed in the Vernacular.	Y. M. D.	Survey and Settlement Commissioner	.....	1,100 0 0
2	Major J. P. Grant		39 6 0	Superintendent	.....	1,340 0 0
3	" J. W. M. Anderson		39 11 10	Offg. Superintendent	.....	1,050 0 0
4	Captain J. Rutherford		35 8 22	Offg. Deputy Superintendent	.....	860 0 0
5	" F. W. Major		37 2 3	Assistant Superintendent	.....	660 0 0
6	Mr. E. H. Butcher		41 3 2	Ditto	.....	660 0 0
7	Captain M. F. Coussmaker		34 4 20	Ditto	.....	560 0 0
8	Mr. J. P. Barker		30 0 16	Ditto	.....	560 0 0
9	" G. F. Meiklejohn		28 9 8	Ditto	.....	560 0 0
10	" W. E. A. James		35 3 25	Ditto	.....	560 0 0
11	" F. B. Clerk		33 1 13	Ditto	.....	560 0 0
12	Captain J. B. Lawrence		35 11 3	Ditto	.....	660 0 0
13	Lieutenant A. H. Macintire		29 7 11	Ditto	.....	560 0 0
14	Captain D. Cowie		36 9 15	Ditto	.....	560 0 0
15	" A. McCally		33 10 24	Ditto	.....	560 0 0
16	" R. L. Price		34 9 20	Ditto	.....	560 0 0
17	Major G. Mackenzie		36 2 28	Ditto	.....	600 0 0
18	Mr. G. K. Betham		27 0 0	Ditto	.....	455 0 0
19	" A. G. Hudson		19 5 2	Prob. Ditto	.....	180 0 0
20	" E. W. Laseron		33 5 7	Ditto	.....	180 0 0

8	9	10	11	12
Date of first appointment to the Department.	Date of appointment to present grade.	Period* of service counting for pension.	Present Post.	REMARKS.
Sept. 28, 1863	Sept. 28, 1863	.....	Survey and Settlement Commissioner.	On furlough to Europe for 20 months, from 13th July 1877.
Nov. 1, 1863	Jan. 15, 1868	.....	Superintendent	
Nov. 27, 1863	July 8, 1877	.....	Offg. Superintendent.	
Feb. 1, 1865	July 8, 1877	.....	Offg. Deputy Superintendent.	On leave on medical certificate to Europe for 2 years, from 2nd July 1877.
April 23, 1865	Jan. 5, 1875	.....	Assistant Superintendent.	
Oct. 2, 1865	Mar. 26, 1876	11 11 29	Ditto	On leave on medical certificate to Europe for 2 years, from 2nd July 1877.
Dec. 24, 1865	Jan. 26, 1870	.....	Ditto	
Dec. 22, 1866	Dec. 1, 1873	8 0 2	Ditto	On special duty connected with famine relief.
Nov. 30, 1867	June 1, 1874	6 8 23	Ditto	
Dec. 1, 1867	June 8, 1876	8 4 9	Ditto	On special duty connected with famine relief.
Jan. 16, 1868	Nov. 26, 1875	9 8 15	Ditto	
Jan. 15, 1869	Mar. 10, 1876	.....	Ditto	On special duty connected with famine relief.
Dec. 6, 1869	Jan. 8, 1874	.....	Ditto	
Dec. 3, 1870	Dec. 2, 1874	.....	Ditto	Ditto ditto.
Jan. 18, 1872	May 1, 1876	.....	Ditto	
Nov. 1, 1872	Nov. 1, 1872	.....	Ditto	Ditto ditto.
Oct. 31, 1873	Nov. 1, 1873	.....	Ditto	
Nov. 1, 1873	May 27, 1876	4 11 17	Ditto	On special duty connected with famine relief.
Nov. 23, 1876	Nov. 23, 1876	.....	Prob. Ditto	
March 22, 1877	March 22, 1877	.....	Ditto	On special duty connected with famine relief.

\* Applies only to officers who are under 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 October 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.	English Clerks.	Karkoons.	Learners.	Mappers.	Peons.	
1	2	3	4	5	6	7	8	9
		No.	No.	No.	No.	No.	No.	Rs.
1	Mysore Province ... ..	...	2	2	...	...	3	18,468
2	Ditto ... ..	4	2	39	29	32	9	41,903
3	Ditto ... ..	...	2	7	...	...	4	21,648
<i>Measuring Establishment.</i>								
4	Kadur District ... ..	22	...	2	5	...	2	17,422
5	Hassan District ... ..	19	...	3	4	...	2	17,356
6	Mysore District ... ..	24	...	2	4	...	2	14,493
7	Hassan District ... ..	19	...	2	3	...	2	12,482
8	Kadur District ... ..	26	...	2	4	...	2	16,002
9	Hassan District ... ..	20	...	2	2	...	2	15,743
10	Mysore District ... ..	23	...	2	3	...	2	12,640
11	Kadur District ... ..	22	...	2	2	...	2	18,438
12	Ditto ... ..	29	...	3	3	...	2	16,100
13	Hassan District ... ..	22	...	2	5	...	2	16,923
14	Ditto ... ..	...	...	...	...	...	...	8,884
15	Ditto ... ..	...	...	...	...	...	1	2,304
16	Ditto ... ..	...	...	...	...	...	1	1,310
	TOTAL ...	230	6	70	64	32	38	2,52,841
<i>Classing Establishments.</i>								
17	Kadur, Bangalore District ... ..	13	...	1	4	...	2	13,753
18	Kadur, Hassan District ... ..	15	...	1	1	...	2	16,301
19	Ditto ditto ... ..	14	...	1	2	...	2	16,100
	TOTAL ...	42	...	3	7	...	6	45,004
	GRAND TOTAL ...	272	6	73	71	32	44	2,97,735

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
10	11	12	13	14
The <i>Hon'ble</i> Col. W. C. Anderson	1	Survey and Settlement Commissioner	Sept. 28, 1863.	
Major J. W. M. Anderson	3	Offg. Superintendent	July 8, 1877.	
Captain J. Rutherford	4	Offg. Deputy Superintendent	July 8, 1877.	
Captain D. Cowie	14	Assistant Supdt., 2nd grade	Dec. 2, 1871.	On special duty connected with famine relief.
" J. B. Lawrence	12	Ditto 1st do.	Oct. 23, 1870.	
Mr. F. B. Clerk	11	Ditto 2nd do.	Nov. 26, 1869.	
" G. K. Betham	18	Ditto 3rd do.	April 15, 1875.	On special duty connected with famine relief.
Captain R. L. Price	16	Ditto 2nd do.	Sept. 10, 1875.	
Lieut. A. H. Macintire	13	Ditto 2nd do.	Dec. 8, 1870.	On special duty connected with famine relief.
Captain A. McCally	15	Ditto 3rd do.	Nov. 8, 1874.	Ditto ditto.
Major G. Mackenzie	17	Ditto 1st do.	Nov. 5, 1873.	
Mr. J. P. Barker	8	Ditto 2nd do.	Dec. 1, 1867.	On special duty connected with famine relief.
" W. E. A. James	10	Ditto 2nd do.	April 19, 1873.	Ditto ditto.
" G. F. Meiklejohn	9	Ditto 2nd do.	...	On special duty from 26th December 1876.
" A. G. Hudson	19	Probationary Asst. Supdt.	...	
" E. W. Lason	20	Ditto ditto	...	On special duty connected with famine relief.
Captain F. W. Major	5	Assistant Supdt., 1st grade	July 8, 1875.	
Mr. E. H. Butcher	6	Ditto 1st do.	Jan. 26, 1867.	
Captain F. W. Major	5	Ditto 1st do.	April 15, 1875.	

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

No. of Officers in each grade.	NAMES.	Substantive Appointment.	Duty on which at present employed.
1	Mr. R. R. Beynon ... 1st Grade.	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.	
.....	.....	.....	1,400 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 October 1877.

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in the Vernacular.	Age on 15th October.	Rank.	Grade.	Salary.
1	Mr. R. R. Beynon ...	Passed ...	Y. M. D. 37 11 3	Superintendent	...	Rs. A. P. 1,400 0 0
2	Captain C. C. Pemberton ...	Ditto ...	37 9 6	Assistant Superintendent	1st grade	795 0 0

\*Applies only to officers who are under the N. B.—The dates given under the head of "First appointment" (column 9), are those of

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.
Oct. 30, 1875	Oct. 30, 1869	Omitted in accordance with instructions contained in letter No. 433, dated the 14th July 1874, from the Govt. of India in the Dept. of Reve., Agriculture and Commerce.	Y. M. D. 14 6 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.

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

Disposition List of Officers of the Berar Revenue Survey Department on the 1st October 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 Oct 1876 to 30th Sept. 1877.
		Sub-Surveyors.	English Clerk.	Carpoons.	Mappers.	Peons.	TOTAL.			
1	East and West Berar ...	No. 3	No. 1	No. 13	No. 16	No. 12	No. 45	Omitted in accordance with instructions contained in letter No. 433, dated the 14th July 1874, from the Government of India in the Department of Revenue, Agriculture and Commerce.	Rs. 36,400	
									3,760	
	TOTAL ...	3	1	13	16	12	45		39,200	

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 October 1877.

No. sanctioned.	No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Present Pay.	REMARKS.
<b>SCIENTIFIC OFFICERS.</b>						
					Rs. A. P.	
1	1	Commander A. D. Taylor, late I.N., F. R. G. S. ... ..	Supdt. of Marine Surveys ... ..	... ..	1,800 0 0	
1	1	Staff Commander J. H. Ellis, R. N.	Deputy Supdt. of Marine Surveys, 1st grade ... ..	... ..	950 0 0	
1	1	Navig. Lieut. F. W. Jarrad, R. N., F. R. G. S.† ... ..	Ditto, 2nd grade ... ..	No. 1 Party ... ..	*700 0 0	* Exclusive of Rs. 50 per mensem as draftsman.
3	...	<i>Assistant Superintendents, 1st Grade.</i>				† Granted privilege leave for 3 months, from 19th August—vide Department of Revenue, Agriculture and Commerce Notification No. 427 (Surveys), dated 17th July 1877.
1	1	Navig. Lieut. G. C. Hammond, R. N., F. R. G. S.‡ ... ..	Asst. Supdt., 1st grade ... ..	... ..	600 0 0	‡ On leave for one year, from 1st July 1877—vide Department of Revenue, Agriculture and Commerce Notification No. 450 (Surveys), dated 3rd August 1877.
2		Mr. Morris Chapman, late I. N. ... ..	Ditto ... ..	No. 2 Party ... ..	550 0 0	
3		Vacant ... ..	Ditto.			
4	...	<i>Assistant Superintendents, 2nd Grade.</i>				
1	1	Navig. Sub-Lieut. E. W. Petley, R. N.§ ... ..	Asst. Supdt., 2nd grade ... ..	... ..	400 0 0	§ On leave for 8 months, from 13th March 1877, under section 14, Civil Leave Code—vide Revenue, Agriculture and Commerce Department Notification No. 128 (Surveys), dated 28th February 1877.
2		Navig. Lieut. Pascoe, R. N. ... ..	Ditto ... ..	No. 1 Party ... ..	350 0 0	
3		Lieut. W. H. Coombs, R. N. ... ..	Ditto ... ..	No. 2 Party ... ..	350 0 0	
4		Mr. P. J. Falle   ... ..	Ditto ... ..	No. 1 Party ... ..	325 0 0	On leave for 3 months, from 16th July, under Chapter VII of the Civil Leave Code—vide Department of Revenue, Agriculture and Commerce Notification No. 418 (Surveys), dated 17th July 1877.
2	...	<i>Assistant Superintendents, 3rd Grade.</i>				
1		Vacant ... ..	Asst. Supdt., 3rd grade.			
2		Ditto ... ..	Ditto.			
<b>CIVIL OFFICERS.</b>						
1	...	<i>Supdt., Drawing Branch.</i>				
1	1	Mr. R. C. Carrington ... ..	Superintendent, Drawing Branch ... ..	... ..	750 0 0	
1	...	<i>Medical Officer and Naturalist.</i>				
1	1	Surgeon J. Armstrong, B.A., F. L. S.	Medical Officer and Naturalist ... ..	No. 1 Party ... ..	400 0 0	

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

1 Genl. Seniority Number.	2 NAMES.	3 Passed in Vernacular.	4 Age.	5 Rank.	6 Grade.	7 Salary.	
						Rs.	A. P.
			Y. M. D.				
1	Commander A. D. Taylor, late I. N. ...	...	52 1 1	Superintendent of Marine Surveys	...	1,800	0 0
2	Staff Commander J. H. Ellis, R. N. ...	...	41 9 8	Depy. Supdt. of Marine Surveys	1st grade ...	950	0 0
3	Navg. Lieut. F. W. Jarrad, R. N., F. R. G. S.	Hindustani, L. S.	33 6 18	Ditto	2nd grade ...	700	0 0
4	Navg. Lieut. G. C. Hammond, R. N., F. R. G. S.	...	31 0 0	Assistant Superintendent	1st grade ...	600	0 0
5	Mr. Morris Chapman, late I. N. ...	...	34 10 0	Ditto	Ditto	550	0 0
6	Vacant ...	...	...	Ditto	Ditto	...	...
7	Navg. Sub-Lieut. E. W. Petley, R. N. ...	...	27 4 7	Ditto	2nd grade ...	400	0 0
8	Navg. Lieut. T. C. Pascoe, R. N. ...	...	30 3 5	Ditto	Ditto	350	0 0
9	Lieut. W. H. Coombs ...	...	26 6 3	Ditto	Ditto	350	0 0
10	Mr. P. J. Falle ...	...	30 3 19	Ditto	Ditto	325	0 0
							CIVIL
1	Mr. R. C. Carrington ...	Hindustani, L. S.	39 3 0	Supdt., Drawing Branch	...	750	0 0
2	Surgeon J. Armstrong, B. A., F. L. S. ...	Ditto	30 11 2	Medical Officer and Naturalist	...	400	0 0

8 Date of first appointment to Department.	9 Date of appointment to present grade.	10 Period of service counting for pension.	11 Present Post.	12 REMARKS.
		Y. M. D.		
<b>OFFICERS.</b>				
July 27, 1874	July 27, 1874	3 2 3	Superintendent of Marine Surveys	Exclusive of Indian Navy service.
Nov. 19, 1874	Nov. 19, 1874	19 11 2	Depy. Supdt. of Marine Surveys, 1st grade.	
Nov. 19, 1874	Dec. 1, 1875	11 3 15	Depy. Supdt. of Marine Surveys, 2nd grade.	
Nov. 19, 1874	Nov. 19, 1874	5 3 0	Asst. Superintendent, 1st grade.	
Jan. 21, 1875	Nov. 3, 1876	6 10 0	Ditto	Exclusive of Indian Navy service.
.....	.....	...	Ditto	
Nov. 19, 1874	Nov. 19, 1874	...	Asst. Superintendent, 2nd grade	Counts no service at present according to Navy rules.
Oct. 6, 1876	Oct. 6, 1876	3 0 0	Ditto	
Oct. 6, 1876	Oct. 6, 1876	2 8 0	Ditto	
Nov. 1, 1874	April 2, 1876	8 9 18	Ditto	
<b>OFFICERS.</b>				
Dec. 26, 1874	Dec. 26, 1874	18 6 0	Superintendent, Drawing Branch.	
Jan. 24, 1875	Jan. 24, 1875	3 6 0	Medical Officer and Naturalist.	

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

Name of Surveying Vessels.	Where employed.	STRENGTH OF CREW.		
		Engineer.	Tide Watchers.	Stoker Serang, Leadsman, &c.
	Calcutta—Head Quarters	...	...	...
Steam Cutter "Girdlestone," No. 1 Party	Ratnagiri and Vingorla§	1	2	16
Steam Cutter "Greenwich," No. 2 Party	Paumben Pass and Negapatam*	1	2	16

\* To be surveyed during the ensuing season.

Officer in charge and Assistant Superintendents.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
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.	
Mr. R. C. Carrington	1	Superintendent, Drawing Branch	Dec. 26, 1874.	
Navg. Lieut. F. W. Jarrad, R. N., F. R. G. S.†	3	Deputy Supdt. of Marine Surveys, 2nd grade	Sep. 1, 1877	† On leave for 3 months, from 19th August 1877—vide Department of Revenue, Agriculture and Commerce Notification No. 420 (Surveys), dated 17th July 1877.
Navg. Lieut. T. C. Pascoe, R. N. ...	8	Asst. Superintendent, 2nd grade	...	In temporary charge.
Navg. Sub-Lieut. E. W. Petley, R. N.	7	Ditto	...	On leave for 8 months, from 14th March 1877, under section 14, Civil Leave Code—vide Department of Revenue, Agriculture and Commerce Notification No. 128 (Surveys), dated 28th February 1877.
Mr. P. J. Falle	10	Ditto	...	On leave for 3 months, from 16th July 1877, under Chapter VII of the Civil Leave Code—vide Department of Revenue, Agriculture and Commerce Notification No. 418 (Surveys), dated 17th July 1877.
Surgeon J. Armstrong, B. A., F. L. S.	2	Medical Officer and Naturalist.	...	
Mr. Morris Chapman, late I. N. ...	5	Asst. Superintendent, 1st grade	Sep. 1, 1877.	
Lieutenant W. H. Coombs, R. N. ...	9	Asst. Superintendent, 2nd grade.	...	
Navg. Lieut. G. C. Hammond, R. N., F. R. G. S.	4	Asst. Superintendent, 1st grade	...	On leave for one year, from 1st July 1877—vide Department of Revenue, Agriculture and Commerce Notification No. 460 (Surveys), dated 3rd August 1877.

Classified List of the Officers of the Geological

Survey of India on the 1st October 1877.

No. of Officers in each grade.	NAMES.	Substantive Appointment.	Duty on which at present engaged.
1	H. B. Medicott, A. M., F. R. S., F. G. S. ... 1st Grade, Rs. 700, rising to Rs. 1,000.	Superintendent, Geological Survey...	Office ...
1	W. T. Blanford, A. R. S. M., F. R. S., F. G. S. ...	Senior Depy. Supdt. for Bombay ...	Office ...
2	William Theobald ...	Deputy Superintendent for Bengal ...	Sub-Himalaya ...
3	William King, Jr., A. B., F. G. S. ...	Ditto for Madras ...	Godaveri District ...
4	R. B. Foote, F. G. S. ... 2nd Grade, Rs. 500, rising to Rs. 700.	Assistant, Geological Survey ...	Trichinopoly ...
1	A. B. Wynne, F. G. S. ...	Assistant, Geological Survey ...	Upper Punjab ...
2	F. R. Mallet, F. G. S. ...	Ditto ...	Office ...
3	Theo. W. H. Hughes, A. R. S. M., F. G. S. ...	Ditto ...	On furlough ...
4	W. L. Willson ...	Ditto ...	Bundelkund ...
5	V. Ball, A. M., F. G. S. ... 3rd Grade, Rs. 500, rising to Rs. 500.	Ditto ...	Palamow Coal Field ...
1	F. Fedden, A. R. S. M., F. G. S. ...	Assistant, Geological Survey ...	Sindh ...
2	C. A. Hacket ...	Ditto ...	Rajputana ...
3	R. Lydekker, A. B. ...	Ditto ...	Himalaya ...
3	3 Vacancies ...	Ditto ...	...
<i>Separately Graded.</i>			
	O. Feistmantel, M. D. ...	Palaeontologist, Geological Survey ...	Satpura ...
<i>Ungraded Officers.</i>			
	Vacant ...	Mining Geologist ...	...
	T. H. Turner ...	Assistant Curator ...	Office ...
	J. Schaumburg ...	Artist ...	Ditto ...
	W. R. Bion ...	Chief Clerk and Librarian ...	Ditto ...
	Kissen Singh ...	Apprentice ...	With Mr. Theobald ...
	Hira Lal ...	Ditto ...	With Dr. Feistmantel ...

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.
1,800	0 0	200 0 0	.....	2,000 0 0	Acting Curator.
1,400	0 0	140 0 0	.....	1,540 0 0	
1,000	0 0	130 0 0	100 0 0	1,230 0 0	
1,000	0 0	130 0 0	100 0 0	1,230 0 0	
1,000	0 0	130 0 0	.....	1,130 0 0	
700	0 0	130 0 0	.....	830 0 0	
700	0 0	130 & 150 0 0	.....	980 0 0	
700	0 0	130 0 0	.....	830 0 0	
700	0 0	130 0 0	.....	830 0 0	
700	0 0	130 0 0	.....	830 0 0	
500	0 0	130 0 0	.....	630 0 0	
500	0 0	130 0 0	.....	630 0 0	
450	0 0	130 0 0	.....	580 0 0	
500	0 0	130 0 0	.....	630 0 0	
300	0 0	.....	.....	300 0 0	
325	0 0	.....	.....	325 0 0	
210	0 0	.....	.....	210 0 0	
100	0 0	.....	.....	100 0 0	
75	0 0	.....	.....	75 0 0	

General List of the Officers of the Geological

Survey of India on the 1st October 1877.

Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			Rs.
1	Wm. Theobald ...	...	48 5 14	Depy. Supdt. for Bengal ...	1st grade ...	1,100
2	H. B. Medicott, A. M., F. R. S., F. G. S. ...	...	48 1 29	Supdt., Geological Survey ...	No grade ...	1,800
3	W. T. Blanford, A. R. S. M., F. R. S., F. G. S. ...	...	44 11 25	Senior Depy. Supdt. for Bombay ...	1st grade ...	1,400
4	William King, Jr., A. B., F. G. S. ...	...	44 2 16	Depy. Supdt. for Madras ...	Ditto ...	1,100
5	W. L. Willson ...	...	54 4 1	Asst., Geological Survey ...	2nd grade ...	700
6	R. B. Foote, F. G. S. ...	...	43 0 9	Ditto ...	1st grade ...	1,000
7	F. R. Mallet, F. G. S. ...	Oct. 5, 1868	36 7 19	Ditto ...	2nd grade ...	700
8	F. Fedden, A. R. S. M., F. G. S. ...	Oct. 26, 1869	39 6 10	Ditto ...	3rd grade ...	500
9	C. A. Hacket ...	Oct. 5, 1868	44 2 20	Ditto ...	Ditto ...	500
10	T. W. H. Hughes, A. R. S. M., F. G. S. ...	Aug. 3, 1868	34 1 30	Ditto ...	2nd grade ...	700
11	A. B. Wynne, F. G. S. ...	Nov. 9, 1868	41 11 17	Ditto ...	Ditto ...	700
12	V. Ball, A. M., F. G. S. ...	Oct. 1, 1867	34 2 18	Ditto ...	Ditto ...	700
13	R. Lydekker, A. B. ...	Apl. 5, 1875	28 2 7	Ditto ...	3rd grade ...	460
14	O. Feistmantel, M. D. ...	Oct. 4, 1875	28 10 10	Palaeontologist ...	No grade ...	500
<i>Non-graded Officers.</i>						
	Vacant ...	...	...	Mining Geologist ...	No grade ...	300
1	T. H. Turner ...	Apl. 1, 1167	37 3 6	Asst. Curator ...	Ditto ...	325
2	J. Schaumburg ...	...	38 2 30	Artist ...	Ditto ...	210
3	W. R. Bion ...	...	25 3 15	Chief Clerk & Librarian ...	Ditto ...	100
4	Kissen Singh ...	...	Not known	Apprentice ...	Ditto ...	75
5	Hira Lal ...	...	Do. ...	Ditto ...	Ditto ...	...

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.		
Nov. —, 1848	Apl. 1, 1876	24 3 27	Sub-Himalaya.	
Mar. 24, 1854	Ditto ...	22 6 19	Office.	
Oct. 1, 1855	Ditto ...	19 6 9	Ditto.	
Mar. 4, 1857	Apl. 21, 1875	19 3 28	Godaveri District.	
Ditto ...	Ditto ...	19 4 12	Bundelkund.	
Sept. 28, 1858	Apl. 1, 1876	17 7 8	Trichinopoly.	
Feb. 12, 1859	May 1, 1872	13 7 19	Office.	
Oct. 1, 1860	May 1, 1866	14 3 10	Sindh.	
Nov. 15, 1861	Ditto ...	14 7 16	Rajputana.	
Nov. 11, 1862	Apl. 21, 1875	10 9 22	On leave.	
Nov. 13, 1862	Mar. 31, 1869	12 2 25	Upper Punjab.	
Oct. 29, 1864	Apl. 1, 1876	12 2 18	Palamow Coal-field.	
Nov. 26, 1874	Nov. 26, 1874	2 10 5	Himalaya.	
Mar. 25, 1875	Mar. 10, 1877	2 6 7	Satpura.	
Apl. 1, 1869	Apl. 1, 1869	8 6 0	Office.	
Apl. 12, 1869	Apl. 12, 1869	8 5 19	Ditto.	
Dec. 12, 1870	Dec. 12, 1870	2 6 0	Ditto.	
Jan. 7, 1874	Jan. 7, 1874	...	With Mr. Theobald.	
Ditto ...	Ditto ...	...	With Dr. Feistmantel.	

Disposition List of the Officers of the Geological Survey of India on the 1st October 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 & Drafts-men.	Pressmen and servants.
					No.	No.	No.	No.	No.	No.							
H. B. Medicott, A. M., F. R. S., F. G. S. <i>1st Grade.</i>	Office	2	Supdt., Geological Survey.	Mar. 24, 1854	4	5	3	5	9	20	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 Rs. 368 10 0	23,623 10 0			
W. T. Blanford, A. B. S. M., F. R. S., F. G. S.	Ditto	3	Senior Depy. Supdt., Bombay.	Oct. 1, 1855							1874-75. Sick leave and Sind 1875-76. Sind 1876-77. Office and Sind	Salary and allowance Extra travelling do. Hospital Assistant's pay, &c.	Rs. 18,470 0 0 Rs. 1,305 6 6 Rs. 368 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 Rs. 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. 15,080 0 0 Rs. 920 14 6 Rs. 296 0 3	16,276 14 9			
R. B. Foote, F. G. S. <i>2nd Grade.</i>	Trichinapoly	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 Rs. 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 Rs. 885 9 6 Rs. 198 0 0	10,761 10 1			
F. R. Mallet, F. G. S.	Office	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 Rs. 24 9 0 Rs. 219 3 3	11,248 1 10			
T. W. H. Hughes, A. B. S. M., F. G. S.	On leave	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 Rs. 1,188 6 6 Rs. 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 Rs. 548 0 0	10,718 0 0			
V. Ball, A. M., F. G. S. <i>3rd Grade.</i>	Palamow Coal Field	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 Rs. 850 13 6 Rs. 454 1 0	11,289 14 6			
F. Fedden, A. B. S. M., F. G. S.	Sindh	8	Ditto	Oct. 1, 1860							1874-75. Sind 1875-76. Ditto 1876-77. Ditto	Salary and allowance Extra travelling allowance	Rs. 9,354 13 5 Rs. 1,241 14 6	10,596 11 11			
C. A. Hacket	Rajputana	9	Ditto	Nov. 15, 1861							1874-75. Furlough 1875-76. Rajputana 1876-77. Ditto	Salary and allowance Extra travelling allowance	Rs. 8,047 10 1 Rs. 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 Rs. 529 5 0	6,997 10 4			
O. Feistmantel, M. D. <i>Non-graded Officers.</i>	Satpura	14	Palæontologist	Mar. 25, 1875							1874-75. Office 1875-76. Ditto 1876-77. Ditto	Salary and allowance House allowance	Rs. 6,133 13 8 Rs. 328 8 0 Rs. 3,736 14 0 Rs. 923 1 0	6,462 5 8 4,659 15 0			
Vacant			Mining Geologist														
T. H. Turner	Office	1	Asst. Curator	April 1, 1869							1874-75. Ditto 1875-76. Ditto 1876-77. Ditto	Salary House allowance	Rs. 3,575 0 0 Rs. 2,161 4 7	As acting Curator.			
J. Schaumburg	Ditto	2	Artist	April 12, 1869							1874-75. Ditto 1875-76. Ditto 1876-77. Ditto	Salary	Rs. 2,161 4 7				
W. R. Bion	Ditto	3	Chief Clerk and Librarian	Dec. 12, 1870							1874-75. Ditto 1875-76. Ditto 1876-77. Ditto	Salary	Rs. 950 0 0				
Kissen Singh	With Mr. Theobald	4	Apprentice	Jan. 7, 1874							1874-75. Ditto 1875-76. Ditto 1876-77. Sub-Himalaya	Travelling allowance	Rs. 217 10 10	1,167 10 10			
Hera Lall	Dr. Feistmantel	5	Ditto	Ditto							1874-75. Office 1875-76. Ditto 1876-77. Sindh	Salary Travelling allowance	Rs. 650 0 0 Rs. 191 14 9	841 14 9			

\* The "Annual Cost," as given above, is the cost for twelve months, from 1st April 1876 to 31st March 1877. It is to be

extent a variable item depending on cost of travelling, this depending on district engaged in, &c.





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