
LISTS OF OFFICERS

IN THE

R V E Y D E P A R T M E N T S

ON THE

1st JULY 1879.

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Classified List of the Officers of the Senior Department

of the Survey of India as it stood on the 1st July 1879.

No. sanctioned	No. existing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party to which at present attached.	Consolidated Salary.	REMARKS.
					Rs. A. P.	
ADMINISTRATIVE STAFF.						
1	1	Maj.-Genl. J. T. Walker, C. D., R. E., F. B. S. [G. T. S.]	Survr. Genl. of India	...	3,000 0 0	
1	1	Major J. Sounce, s. c., P. H. [Rev.]	Depty. Survr. Genl.	...	2,200 0 0	
3	1	Capt. R. V. Riddell, R. E., P. H. [Topogl.]	Asst. Surveyor General	...	1,140 0 0	Exclusive of Local allowance Rs. 200. Superintendent, Mathematical Instrument Department, and in charge Lithographic Branch, Head-quarters, Calcutta.
		Mr. J. O. N. James [Topogl.]	Ditto	...	...	On furlough for 2 years, from 1st April 1878.
	2	Major J. Waterhouse, s. c., P. H. [Topogl.]	Ditto	...	750 0 0	Exclusive of Local allowance Rs. 200. In charge Photographic Branch, Head-quarters, Calcutta.
	3	Capt. E. H. Steel, s. c., H. S. [Rev.]	Offg. ditto	...	624 1 6	Includes Rs. 24-1-6 personal allowance. Exclusive of Presidency allowance Rs. 100. In charge Engraving and Cartographic Branches, Head-quarters, Calcutta.
SENIOR BRANCH.						
DEPUTY SUPERINTENDENTS.						
1ST GRADE.						
4	...					
1	1	Mr. J. B. N. Hennessey, M. A., F. R. S. [G. T. S.]	Depty. Supdt., 1st grade	In charge Head-quarters Offices, Dehra Dún	1,600 0 0	
2	1	Col. F. C. Anderson, s. c., P. H. [Rev.]	Ditto	In charge 5th [Rev.], Banda, &c., Districts [Cadastral], North-Western Provinces	1,627 14 0	Includes Rs. 27-14-0 Personal allowance.
3	1	Lt.-Col. G. C. Depree, s. c., P. H. [Topogl.]	Ditto	In charge No. 7, Rajputana Topogl. Survey	1,600 0 0	
4	1	Maj. H. R. Thuillier, R. E., P. H. [G. T. S.]	Ditto	In charge Mysore Topogl. Surveys	1,600 0 0	
2ND GRADE.						
10	...					
1	1	Col. J. Macdonald, s. c., P. H. [Rev.]	Depty. Supdt., 2nd grade	In charge 10th [Rev.], North Deccan, Bombay	1,327 14 0	Includes Rs. 27-14-0 Personal allowance.
2	1	Lt.-Col. C. T. Haig, R. E. [G. T. S.]	Ditto	In charge Guzerat Survey	1,543 8 0	
3	1	Maj. J. Herschel, R. E., F. R. S., P. H. [G. T. S.]	Ditto	On duty, Head-quarters Offices, Calcutta	1,482 10 0	
4	1	Mr. R. B. Smart [Rev.]	Ditto	In charge 7th [Rev.] Khorda Estate [Cadastral] Orissa	1,300 0 0	
5	1	Lt.-Col. B. R. Branfill, B. C., P. H. [G. T. S.]	Ditto	In charge Madras Party, Bangalore	1,300 0 0	
6	1	Capt. G. Strahan, R. E., P. H. [Topogl.]	Ditto	In charge No. 2, Khandesh and Bombay Native States Topogl. Survey	1,440 0 0	
7	1	Maj. T. T. Carter, R. E., P. H. [G. T. S.]	Ditto	In charge No. 1, Gwalior and Central India Topogl. Survey	1,482 10 0	
8	1	" D. Macdonald, s. c., P. H. [Rev.]	Ditto	In charge 2nd, Sirsa District Survey, Punjab	1,300 0 0	
9	1	" F. Coddington, s. c., P. H. [Rev.]	Ditto	On duty, Deputy Surveyor Genl.'s Office, Calcutta	1,300 0 0	Exclusive of Rs. 60 Presidency allowance.
10	1	" W. M. Campbell, R. E., Passed [G. T. S.]	Ditto	...	1,482 10 0	On Field Service.
3RD GRADE.						
12	...					
1	1	Capt. R. V. Riddell, R. E., P. H. [Topogl.]	Deputy Supdt., 3rd grade	Head-quarters, Calcutta	1,140 0 0	Assistant Surveyor General. Exclusive of Rs. 200 Local allowance.
2	1	" C. Strahan, R. E. [Topogl.]	Ditto	...	1,140 0 0	Head-quarters, Mussoorie.
3	1	Mr. J. O. N. James [Topogl.]	Ditto	...	...	On furlough for 2 years, from 1st April 1878.
5	1	Major W. Barron, s. c., P. H. [Rev.]	Ditto	In charge 4th [Rev.], Ghazipur Dist. [Cadastral] N.-W. P.	1,000 0 0	
5	1	Capt. H. Trotter, R. E. [G. T. S.]	Ditto	...	...	On furlough, p. a., for 2 years, from 20th February 1876. Services placed at the disposal of the British Foreign Office.
4	1	Major H. C. B. Tanner, Bombay s. c., P. H. [Rev.]	Ditto	...	1,000 0 0	
5	1	Mr. E. T. S. Johnson [Rev.]	Ditto	In charge 6th, Jaunpur Dist. [Cadastral], N.-W. P.	1,000 0 0	
6	1	Capt. W. J. Heaviside, R. E., P. H. [G. T. S.]	Ditto	...	1,140 0 0	Head-quarters, Mussoorie.
7	1	Major A. Pullan, s. c., P. H. [G. T. S.]	Ditto	In charge Kattywar Survey	1,000 0 0	
8	1	Capt. D. C. Andrew, s. c., P. H. [Rev.]	Ditto	Temply. on duty, Dy. Survr. Genl.'s Office, Calcutta	1,000 0 0	Exclusive of Rs. 60 Presidency allowance.
9	1	Major W. H. Wilkins, s. c., P. H. [Rev.]	Ditto	In charge 3rd (Rev.), Saharunpur, N.-W. P.	1,000 0 0	
10	1	Capt. J. E. Sandeman, s. c., P. H. [Rev.]	Ditto	In charge Rangoon Dist. [Cadastral], British Burma	1,000 0 0	Exclusive of Rs. 75 Local allowance.

Classified List of the Officers of the Senior Department of the

Survey of India as it stood on the 1st July 1879—continued.

No. sanctioned.	No. existing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party to which at present attached.
SENIOR BRANCH—contd.				
ASSISTANT SUPERINTENDENTS.				
1ST GRADE.				
11	...			
1	...	Mr. J. Campbell ... [Rev.]	Asst. Supdt., 1st grade	Offg. in charge Barakgarh, &c., Estates, Bengal ...
2	...	Major W. F. Badgley, s. c., P. H. [Topogl.]	Ditto	In charge No. 6, Topogl., Khasi and Garo Hills Survey
3	...	Capt. T. H. Holdich, B. E., L. S. [Topogl.]	Ditto	...
4	...	Major J. Waterhouse, s. c., P. H. [Topogl.]	Ditto	In charge Photographic Branch, Head-quarters Calcutta ...
5	...	Capt. M. W. Rogers, B. E., L. S. [G. T. S.]	Ditto	...
6	...	" J. Hill, B. E. ... [G. T. S.]	Ditto	...
7	...	" H. Lees Smith, s. c., M. A., LL. B., P. H. ... [Rev.]	Ditto	Offg. in charge 1st [Rev.], D. I. Khan, &c., Dist., Punjab ...
8	...	Mr. H. Horst ... [Topogl.]	Ditto	...
8	...	Mr. W. H. Cole, M. A., H. S. [G. T. S.]	Ditto	On duty at Head-quarters Offices, Dehra Dun ...
9	...	" H. B. Talbot, L. S. ... [Rev.]	Ditto	Offg. in charge 9th [Rev.], Cuttack Dist. [Irrigation], Orissa ...
10	...	Capt. A. W. Baird, B. E., P. H. [G. T. S.]	Ditto	In charge Tidal and Leveling Operations, Bombay ...
2ND GRADE.				
11	...			
1	...	Capt. J. R. McCullagh, B. E., L. S. [G. T. S.]	Asst. Supdt., 2nd grade	Mysore Survey ...
2	...	" J. R. Wilmer, s. c., H. S. [Topogl.]	Ditto	In charge No. 5, Bhopal and Malwa Topogl. Survey
3	...	Mr. J. McGill ... [G. T. S.]	Ditto	...
3	...	Capt. S. H. Cowan, s. c., P. H. [Rev.]	Ditto	Offg. in charge 8th [Rev.], Cachar Dist. [Cadastral], Assam ...
4	...	" E. H. Steel, s. c., H. S. ... [Rev.]	Ditto	In charge Engraving and Cartographic Branches, Head-quarters, Calcutta ...
5	...	" H. S. Hutchinson, s. c., P. H. [Rev.]	Ditto	Offg. in charge 11th [Rev.], South Deccan [Topogl.] Bombay ...
6	...	Mr. E. C. Barrett, H. S. ... [Rev.]	Ditto	6th [Rev.], Jaunpore Dist. [Cadastral], N. W. P. ...
7	...	" E. J. Jackson, L. S. ... [Rev.]	Ditto	5th [Rev.], Banda Dist. [Cadastral], N. W. P. ...
8	...	Capt. R. Beavan, s. c., P. H. ... [Rev.]	Ditto	...
9	...	" R. G. Woodthorpe, B. E., L. S. [Topogl.]	Ditto	...
10	...	Lieut. E. P. Leach, B. E., L. S. [Topogl.]	Ditto	...
3RD GRADE.				
12	...			
1	...	Mr. W. G. Beverley [G. T. S.]	Asst. Supdt., 3rd grade	In charge Burma Party ...
2	...	" G. H. Cooke, L. S. ... [Rev.]	Ditto	10th [Rev.], North Deccan [Topogl.], Bombay ...
3	...	Lieut. H. J. Harman, B. E., L. S. [G. T. S.]	Ditto	In charge Assam Valley Triangulation Special Survey operations in and around Darjeeling ...
4	...	" G. W. Martin, s. c., H. S. [Rev.]	Ditto	...
5	...	Capt. A. J. C. Scott, s. c., H. S. [Rev.]	Ditto	...
5	...	Mr. E. C. Ryall ... [G. T. S.]	Ditto	3rd [Rev.], Saharunpur, &c., Dist., N. W. P. ...
6	...	Lieut. St. G. C. Gore, B. E. [G. T. S.]	Ditto	...
7	...	" J. R. Hobday, s. c., H. S. [Topogl.]	Ditto	...

Consolidated Salary.		REMARKS.
Rs.	A. P.	
1,000	0 0	Officiating Deputy Superintendent, 3rd grade.
1,075	0 0	Ditto ditto. Inclusive of Rs. 75 Assam Local allowance.
1,140	0 0	Head-quarters, Mussoorie.
750	0 0	Assistant Surveyor General. Exclusive of Rs. 200 Local allowance.
890	0 0	On Field Service.
890	0 0	
750	0 0	Exclusive of Rs. 100 Charge allowance.
750	0 0	On furlough for 2 years, from 5th June 1879.
750	0 0	
750	0 0	Exclusive of Rs. 100 Charge allowance.
890	0 0	
890	0 0	Offg. Assistant Superintendent, 1st grade.
750	0 0	Officiating Assistant Superintendent, 1st grade. Exclusive of Rs. 100 Charge allowance.
...	...	On furlough for 1 year.
749	1 6	Includes Rs. 149-1-6 Personal allowance. Exclusive of Rs. 100 Charge allowance, and of Rs. 75 Assam Local allowance.
624	1 6	Includes Rs. 24-1-6 Personal allowance. Offg. Asst. Survr. Genl. Exclusive of Rs. 100 Presidency allowance.
749	1 6	Includes Rs. 149-1-6 Personal allowance, and exclusive of Rs. 100 Charge allowance.
600	0 0	
600	0 0	
624	1 6	Includes Rs. 24-1-6 Personal allowance. On Field Service.
740	0 0	On Field Service.
740	0 0	Ditto ditto.
600	0 0	
600	0 0	Officiating Assistant Superintendent, 2nd grade.
670	0 0	Ditto ditto.
600	0 0	Ditto ditto.
...	...	On furlough, m. c., for 2 years, from 21st April 1879.
500	0 0	Includes Rs. 100-0-0 Personal allowance.
570	0 0	On Field Service.
500	0 0	Ditto ditto.

Classified List of the Officers of the Junior or Subordinate

Department of the Survey of India as it stood on the 1st July 1879.

No. sanctioned. No. existing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party to which at present attached.	No. existing in each grade.	Consolidated Salary. Rs. A. P.	REMARKS.
JUNIOR BRANCH.						
SURVEYORS.						
1ST GRADE.						
<i>Salary Rs. 500.</i>						
1	Mr. H. Duhan ... [G. T. S.]	Surveyor, 1st grade	Correspondence Office ...	1	650 0 0	Personal Assistant to the Surveyor General. Inclusive of Rs. 150 Personal allowance.
2	" N. A. Belletty, L. s. ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta ...	2	500 0 0	Exclusive of Rs. 45 Presidency house-rent.
3	" W. Honsden ... [Rev.]	Ditto	1st [Rev.] Dera Ismail Khan, &c., Districts, Punjab	3	500 0 0	
4	" W. H. Patterson, L. s. ... [Rev.]	Ditto	Kamrup Dist. [Lakhiraj], Assam	4	500 0 0	Exclusive of Assam allowance Rs. 50, and Deputation allowance Rs. 50.
5	" J. F. Baness ... [Topogl.]	Ditto	Chief Draftsman, Head-quarters, Calcutta	5	600 0 0	
6	" A. Chamarett ... [Topogl.]	Ditto	Geographical Examiner, Head-quarters, Calcutta ...	6	500 0 0	Exclusive of Rs. 45 Presidency house-rent.
7	" H. J. Boist ... [Topogl.]	Ditto	No. 1, Gwalior and Central India Survey	7	500 0 0	
8	" H. Beverley ... [G. T. S.]	Ditto	In charge, Eastern Frontier Series ...	8	500 0 0	Exclusive of Rs. 45 Presidency house-rent.
9	" J. Peyton ... [G. T. S.]	Ditto	On duty Head-quarters Office, Calcutta	9	500 0 0	
9	" A. D'Souza ... [G. T. S.]	Ditto	Guzerat Survey ...	9	500 0 0	
2ND GRADE.						
<i>Salary Rs. 400.</i>						
1	Mr. F. W. Kelly, H. S. ... [Rev.]	Surveyor, 2nd grade	Head Draftsman, Deputy Surveyor Gen'l. Office, Calcutta ...	...	450 0 0	Exclusive of Rs. 100 Personal allowance.
1	" C. W. Campbell ... [Rev.]	Ditto	5th [Rev.] Banda, &c., Districts [Cadastral], N. W. P. ...	1	400 0 0	
2	" E. Loftie ... [Rev.]	Ditto	2nd [Rev.] Sirsa, &c., Districts, Punjab	2	400 0 0	
3	" G. H. Dwythe ... [Rev.]	Ditto	Ditto	3	400 0 0	
4	" G. A. McGill, L. s. ... [Topogl.]	Ditto	No. 7, Topogl. Party, Rajputana Survey	4	400 0 0	
5	" D. Atkinson ... [Topogl.]	Ditto	No. 5, Bhopal and Malwa Topogl. Survey	5	400 0 0	Doing duty with Tidal and Leveling Party during the absence on furlough of the Executive Officer.
6	" C. J. Neuville ... [G. T. S.]	Ditto	No. 1, Extra Party	6	400 0 0	
7	" F. Grant ... [Rev.]	Ditto	2nd [Rev.] Sirsa, &c., Districts, Punjab	7	400 0 0	
8	" L. H. Clarke ... [G. T. S.]	Ditto	On duty at Head-quarters, Dehra Dún	8	400 0 0	
9	" W. Tedd ... [G. T. S.]	Ditto	Ditto	9	400 0 0	On furlough to Europe for 12 months from November 1878.
10	" R. W. Chew ... [Topogl.]	Ditto	Mysore Topogl. Survey ...	10	400 0 0	
11	" J. Loe ... [G. T. S.]	Ditto	Draftsman, Office of Deputy Surveyor General, Calcutta ...	11	400 0 0	Exclusive of Rs. 30 Presidency house-rent.
12	" W. Sinclair ... [Rev.]	Ditto	Computing Office, Head-quarters, Dehra Dún	12	400 0 0	
12	" C. Wood, L. s. ... [G. T. S.]	Ditto	Computing Office, Head-quarters, Dehra Dún	12	400 0 0	
3RD GRADE.						
<i>Salary Rs. 350.</i>						
1	Mr. H. E. T. Keelan ... [G. T. S.]	Surveyor, 3rd grade	Mysore Topogl. Survey	1	350 0 0	
2	" F. Bell, L. s. ... [G. T. S.]	Ditto	Kattywar Survey, Poona	2	350 0 0	
3	" P. A. G. Cowley, L. s. ... [Rev.]	Ditto	6th [Rev.] Jaunpur District [Cadastral], N.W.P.	3	350 0 0	
4	" G. Atkinson ... [G. T. S.]	Ditto	Drawing Office, Head-quarters, Dehra Dún	4	350 0 0	
5	" A. J. Wilson, L. s. ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta ...	5	350 0 0	Exclusive of Rs. 30 Presidency house-rent.
6	" J. A. May ... [Topogl.]	Ditto	On duty, Office of Deputy Surveyor General, Calcutta	6	350 0 0	Exclusive of Rs. 30 Presidency house-rent.
7	" A. D. Smart ... [Rev.]	Ditto	7th [Rev.] Khorda Estate [Cadastral], Orissa, Bengal ...	7	350 0 0	
8	" James Todd ... [Rev.]	Ditto	3rd [Rev.] Saharanpur, &c., Dists., N.W.P.	8	350 0 0	
9	" G. David ... [Rev.]	Ditto	7th [Rev.] Khorda Estate [Cadastral], Orissa, Bengal	9	350 0 0	Exclusive of Rs. 50 Local allowance.
10	" G. H. ... [Rev.]	Ditto	8th [Rev.] Cachar Dist. [Cadastral], Assam	10	350 0 0	
11	" S. M. Smylie, L. s. ... [Rev.]	Ditto	11th [Rev.] South Deccan, Bombay ...	11	350 0 0	
12	" F. Adams ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta ...	12	350 0 0	Exclusive of Rs. 50 Local allowance.
13	" J. S. Pemberton, L. s. ... [Rev.]	Ditto	Rangoon Dist. [Cadastral], British Burma	13	350 0 0	Exclusive of Rs. 30 Presidency house-rent.
14	" R. D. Farrell ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta	14	350 0 0	
15	" H. R. Littlewood ... [Rev.]	Ditto	9th [Rev.] Cuttack District [Irrigation], Orissa	15	350 0 0	
16	" W. A. Wilson, L. s. ... [Rev.]	Ditto	4th [Rev.] Ghazipur District [Cadastral], N.W.P.	16	350 0 0	
4TH GRADE.						
<i>Salary Rs. 300.</i>						
1	Mr. W. S. Buttress ... [Rev.]	Surveyor, 4th grade	1st [Rev.] Dera Ismail Khan, &c., Districts, Punjab	1	300 0 0	
2	" T. W. Reilly, L. s. ... [Rev.]	Ditto	On duty, Office of Deputy Surveyor General, Calcutta	2	300 0 0	Exclusive of Rs. 30 Presidency house-rent.

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						Rs. A. P.	
JUNIOR BRANCH—contd.							
SURVEYORS—concl'd.							
4TH GRADE—contd.							
Salary Rs. 300.—contd.							
3		Mr. E. S. P. Atkinson ... [Topogl.]	Surveyor, 4th grade	No. 7, Rajputana Topogl. Survey	3	300 0 0	
4		„ W. R. Vvall ... [Rev.]	Ditto	7th [Rev.], Khorda Estate [Cadastral], Orissa	4	300 0 0	
5		„ A. M. Lawson, L. s. ... [Rev.]	Ditto	10th [Rev.], North Deccan, &c., Bombay	5	300 0 0	
6		„ A. J. Gibson ... [Rev.]	Ditto	1st [Rev.], Dera Ismail Khan, &c., Districts, Punjab	6	300 0 0	
7		„ M. J. Ogle ... [Topogl.]	Ditto	No. 6, Khasi and Garo Hills Topogl. Survey	7	300 0 0	Exclusive of Rs. 40 Assam allowance.
8		„ A. G. Wyatt ... [Topogl.]	Ditto	No. 2, Khandesh and Bombay Native States Topogl. Survey	8	300 0 0	
9		„ H. Peychers ... [G. T. S.]	Ditto	Computing Office, Head-quarters, Dehra Dún	9	300 0 0	
10		„ G. Belcham ... [G. T. S.]	Ditto	Madras Party	10	300 0 0	
11		„ H. Dowman ... [Rev.]	Ditto	7th [Rev.], Khorda Estate [Cadastral], Orissa	11	300 0 0	
12		„ E. Little ... [Rev.]	Ditto	5th [Rev.], Banda, &c., Districts [Cadastral], N.-W. P.	12	300 0 0	
13		„ H. T. Hanby, L. s. ... [Rev.]	Ditto	4th [Rev.], Ghazipur District [Cadastral], N.-W. P.	13	300 0 0	
14		„ L. J. Pocock, H. s. ... [G. T. S.]	Ditto	Mysore Topogl. Survey	14	300 0 0	
15		„ G. B. Scott, H. s. ... [Rev.]	Ditto	1st [Rev.], Dera Ismail Khan Districts, Punjab	15	300 0 0	Exclusive of Rs. 100 Personal allowance.
16		„ A. Christie, H. s. ... [G. T. S.]	Ditto	Guzerat Survey	16	300 0 0	
17		„ W. O'Sullivan ... [G. T. S.]	Ditto	Assam Survey, Darjeeling	17	300 0 0	
18		„ N. C. Gwynne ... [G. T. S.]	Ditto	Kattywar Survey, Poona	18	300 0 0	
19		„ W. C. Price ... [G. T. S.]	Ditto	Bombay Party	19	300 0 0	Offg. in charge.
20		„ C. H. McA. Fee, L. s. ... [G. T. S.]	Ditto	Guzerat Survey	20	300 0 0	
8		„ J. A. Vandenberg ... [Topogl.]	Ditto	...	8	...	Leave on m. c. for 6 months, from 22nd Feb. 1879.
21		„ C. F. Hamer ... [Topogl.]	Ditto	No. 5, Bhopal & Malwa Topogl. Survey	21	300 0 0	
ASSISTANT SURVEYORS.							
1ST GRADE.							
Salary Rs. 250.							
...		Mr. C. A. R. Scanlan ... [Topogl.]	Asst. Surveyor, 1st grade	On duty at Head-quarters, Calcutta	...	300 0 0	Offg. Surveyor, 4th grade. Exclusive of Rs. 30 Presidency house-rent.
1		„ J. H. O'Donel ... [Rev.]	Ditto	6th [Rev.], Jaunpur District [Cadastral], N.-W.P.	1	250 0 0	
2		„ A. Chennell ... [Topogl.]	Ditto	No. 6, Khasi and Garo Hills Topogl. Survey	2	250 0 0	Exclusive of Rs. 40 Assam allowance.
3		„ P. Ford, L. s. ... [Rev.]	Ditto	2nd [Rev.], Sirsa, &c., Districts, Punjab	3	250 0 0	
4		„ A. James ... [Topogl.]	Ditto	Mysore Topogl. Survey	4	250 0 0	
5		„ T. E. M. Claudius ... [Topogl.]	Ditto	No. 1, Gwalior and Central India Topogl. Survey	5	250 0 0	
6		„ T. H. Rendell ... [G. T. S.]	Ditto	Tidal and Leveling Operations	6	250 0 0	
7		„ R. Todd ... [Topogl.]	Ditto	1st [Rev.], Dera Ismail Khan, &c., Districts, Punjab	7	250 0 0	
8		„ C. Tapsell, L. s. ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta	8	250 0 0	Exclusive of Rs. 20, Presidency house-rent.
9		„ D. A. King ... [Rev.]	Ditto	Barkagarb, &c., Estates [Cadastral], Bengal	9	250 0 0	
10		„ R. B. Smart, Jr., L. s. ... [Rev.]	Ditto	5th [Rev.], Banda, &c., Districts [Cadastral], N.-W. P.	10	250 0 0	
11		„ F. Kitchen ... [Topogl.]	Ditto	Mysore Topogl. Survey	11	250 0 0	
12		„ W. Stotesbury, H. s., L. s. Canarese [Topogl.]	Ditto	Ditto ditto	12	250 0 0	
13		„ Hugh Todd ... [G. T. S.]	Ditto	Ditto ditto	13	250 0 0	

Classified List of the Officers of the Junior or Subordinate Department

of the Survey of India as it stood on the 1st July 1879—continued.

No. sanctioned. No. existing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party to which at present attached.	No. existing in each grade.	Consolidated Salary. Rs. A. P.	REMARKS.
JUNIOR BRANCH—contd.						
ASSISTANT SURVEYORS—contd.						
1st GRADE—contd.						
<i>Salary Rs. 250—contd.</i>						
14	Mr. E. J. Connor, L. s. ... [G. T. S.]	Asst. Surveyor, 1st grade	No. 1, Extra Party ...	14	250 0 0	Doing duty with Tidal and Leveling Party during the absence on furlough of the Executive Officer.
	" J. Connor ... [Rev.]	Ditto	Draftsman, Office of Deputy Surveyor General, Calcutta		325 0 0	
15	" T. H. Dunne, L. s. ... [Rev.]	Ditto	7th [Rev.], Khorda Estate [Cadastr.], Orissa	15	250 0 0	
	" W. J. Lane ... [Rev.]	Ditto	Draftsman, Office of Deputy Surveyor General, Calcutta		300 0 0	
16	" J. Bond ... [G. T. S.]	Ditto	No. 2, Extra Party ...	16	250 0 0	Doing duty with the Guzerat Party during the absence on furlough of the Executive Officer.
17	" C. D. Potter, L. s. ... [G. T. S.]	Ditto	Madras Party ...	17	250 0 0	
18	" T. Kinney, L. s. ... [G. T. S.]	Ditto	Head-quarters Office, Debra Dún ...	18	250 0 0	
19	" J. Newland, L. s. ... [Rev.]	Ditto	10th [Rev.], North Deccan, Bombay ...	19	250 0 0	
20	" J. A. Barker ... [Topogl.]	Ditto	No. 2, Khandesh and Bombay Native States Topogl. Survey	20	250 0 0	
21	" E. A. Wainright, L. s. ... [Topogl.]	Ditto	No. 5, Bhopal & Malwa Topogl. Survey	21	250 0 0	
22	" R. C. D. Ewing, H. s. ... [Rev.]	Ditto	3rd [Rev.], Saharanpur Dist., N.-W. P.	22	250 0 0	
2ND GRADE.						
<i>Salary Rs. 200.</i>						
...	Mr. W. J. Cornelius, L. s. ... [Topogl.]	Asst. Surveyor, 2nd grade	No. 1, Gwalior & Central India Topogl. Survey ...	...	250 0 0	Officiating Assistant Surveyor, 1st grade.
1	" W. W. McNair, L. s. ... [Topogl.]	Ditto	Mysore Topogl. Survey ...	1	200 0 0	
2	" J. T. U. Coxen ... [Rev.]	Ditto	11th [Rev.], South Deccan, Bombay ...	2	200 0 0	On sick leave for six months, from 12th November 1878.
3	" W. F. Pettigrew ... [Topogl.]	Ditto	No. 2, Khandesh & Bombay Native States Topogl. Survey	3	200 0 0	
4	" G. W. Jarbo, L. s. ... [Rev.]	Ditto	9th [Rev.], Cuttack District [Irrigation], Orissa ...	4	200 0 0	
5	" P. J. W. Doran, L. s. ... [Topogl.]	Ditto	No. 1, Gwalior & Central India Topogl. Survey ...	5	200 0 0	
6	" J. R. Scott, L. s. ... [Rev.]	Ditto	9th [Rev.], Cuttack Dist. [Irrigation], Orissa ...	6	200 0 0	
...	" J. McHatton, L. S. ... [Rev.]	Ditto	...	...	...	On furlough for one year, from 7th January 1879.
7	" H. T. Kitchen ... [Topogl.]	Ditto	No. 5, Bhopal & Malwa Topogl. Survey ...	7	200 0 0	
8	" A. Cooper ... [Topogl.]	Ditto	No. 2, Khandesh & Bombay Native States Topogl. Survey	8	200 0 0	
9	" J. H. Wilson, L. s. ... [Topogl.]	Ditto	No. 7, Rajputana Topogl. Survey ...	9	200 0 0	
10	" J. Hickie, L. s. ... [G. T. S.]	Ditto	2nd [Rev.], Sirsa, &c., Districts Survey, Punjab ...	10	200 0 0	
11	" W. Fielding, L. s. ... [G. T. S.]	Ditto	Kattywar Survey, Poona ...	11	200 0 0	
12	" S. O. Madras ... [Rev.]	Ditto	4th [Rev.], Ghazipur Dist. [Cadastral], N.-W. P. ...	12	200 0 0	
13	" G. D. Cusson, L. s. ... [G. T. S.]	Ditto	Guzerat Survey ...	13	200 0 0	
14	" T. F. Freeman, L. s. ... [Rev.]	Ditto	5th [Rev.], Banda, &c., Dists. [Cadastral], N.-W. P. ...	14	200 0 0	
15	" G. C. Swiney ... [Rev.]	Ditto	10th [Rev.], South Deccan, Bombay ...	15	200 0 0	
16	" W. H. Lilley ... [Topogl.]	Ditto	No. 5, Bhopal & Malwa Topogl. Survey ...	16	200 0 0	
17	" J. S. Swiney ... [Rev.]	Ditto	6th [Rev.], Jaunpur Dist. [Cadastral], N.-W. P. ...	17	200 0 0	
18	" G. L. R. Scott, L. S. ... [Rev.]	Ditto	...	18	...	On furlough for one year, from 10th June 1879.
19	" B. Anderson, L. S. ... [Rev.]	Ditto	...	19	...	On furlough to New Zealand for one year, from 23rd May 1879.
20	" C. P. Torrens ... [G. T. S.]	Ditto	Bombay Party ...	20	200 0 0	
21	" W. Robert ... [Topogl.]	Ditto	Assam Survey, Darjeeling ...	21	200 0 0	
22	" T. Shaw, L. s. ... [Rev.]	Ditto	8th [Rev.], Cachar Dist. [Cadastral], Assam ...	22	200 0 0	Exclusive of Rs. 40 Assam Local allowance.
23	" W. H. Penrose, L. s. ... [Rev.]	Ditto	11th [Rev.], South Deccan, Bombay ...	23	200 0 0	

Classified List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st July 1878 — continued.

No. sanctioned	No. existing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party to which at present attached.	No. existing in each grade.	Consolidated Salary.	REMARKS.
						Rs. A. P.	
		JUNIOR BRANCH—contd.					
		ASSISTANT SURVEYORS—contd.					
		3RD GRADE.					
		<i>Salary Rs. 160.</i>					
22	...						
1		Mr. C. W. Wilson, L. s. ... [Rev.]	Asst. Surveyor, 3rd grade	3rd [Rev.], Saharanpur, &c., Dist., N.-W. P. ...	1	160 0 0	
2		„ C. W. F. Seyers ... [Rev.]	Ditto	Ditto ditto	2	160 0 0	
3		„ E. J. Martin ... [Rev.]	Ditto	6th [Rev.], Jaunpur Dist. [Cadastr.], N.-W. P. ...	3	160 0 0	
4		„ W. D. Corbett ... [Rev.]	Ditto	4th [Rev.], Ghazipur Dist. [Cadastr.], N.-W. P. ...	4	160 0 0	
5		„ A. Bryson, H. s. ... [G. T. S.]	Ditto	Madras Party	5	160 0 0	
6		„ F. E. Warde ... [Topogl.]	Ditto	No. 2, Khandesh and Bombay Native States Topogl. Survey	6	160 0 0	
7		„ C. T. Templeton ... [Topogl.]	Ditto	No. 1, Gwalior and Central India Topogl. Survey	7	160 0 0	
8		„ J. McCay ... [Topogl.]	Ditto	No. 6, Khasi and Garo Hills Topogl. Survey	8	160 0 0	Exclusive of Rs. 40 Assam Local allowance.
9		„ G. E. Parker ... [Rev.]	Ditto	Rangoon Dist. [Cadastr.], British Burma	9	160 0 0	Exclusive of Rs. 40 Burma Local allowance.
10		„ G. Campbell ... [Rev.]	Ditto	7th [Rev.], Khorda Estate [Cadastr.], Orissa	10	160 0 0	
11		„ W. C. G. Barclay ... [Topogl.]	Ditto	No. 7, Rajputana Topogl. Survey	11	160 0 0	
12		„ W. Oldham L. s. (Canarese) [G. T. S.]	Ditto	Kattywar Survey, Poona	12	160 0 0	
13		„ J. O. Hughes ... [G. T. S.]	Ditto	Burma Party	13	160 0 0	
14		„ G. T. Hall ... [G. T. S.]	Ditto	Kattywar Survey, Poona	14	160 0 0	
15		„ G. Vander Beek, L. s. ... [Topogl.]	Ditto	No. 2, Khandesh and Bombay Native States Topogl. Survey	15	160 0 0	
16		„ J. C. Murray, L. S. ... [Topogl.]	Ditto	...	16	160 0 0	
17		„ J. Murphy ... [Rev.]	Ditto	4th [Rev.], Ghazipur Dist. [Cadastr.], N.-W. P. ...	17	160 0 0	
18		„ C. W. J. Ford ... [Rev.]	Ditto	9th [Rev.], Cuttack Dist. [Irrign.], Orissa	18	160 0 0	
19		„ A. W. Smart ... [Rev.]	Ditto	6th [Rev.], Jaunpur District [Cadastr.], N.-W. P. ...	19	160 0 0	
20		„ W. M. Kelly ... [Rev.]	Ditto	5th [Rev.] Banda, &c., Dist. [Cadastr.], N.-W. P. ...	20	160 0 0	Re-appointed in Mr. H. G. Young's position after employment in the Forest Department.
21		„ A. Kitchen ... [Topogl.]	Ditto	No. 5, Bhopal and Malwa Topogl. Survey	21	160 0 0	
22		„ P. White ... [Topogl.]	Ditto	...	22	160 0 0	On leave on medical certificate for three months, from 21st October 1878; leave extended for three months, with further extension without pay for six months.
23		„ B. M. Wilson ... [Rev.]	Ditto	9th [Rev.], Cuttack District [Irrign.], Orissa	23	160 0 0	
24		„ E. P. S. Hill ... [Rev.]	Ditto	6th [Rev.], Banda District [Cadastr.], N.-W. P. ...	24	160 0 0	Exclusive of Rs. 20 Presidency house-rent.
25		„ R. A. Gibson ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta	25	160 0 0	
26		„ E. H. S. Gasper ... [Rev.]	Ditto	6th [Rev.], Jaunpur District [Cadastr.], N.-W. P. ...	26	160 0 0	
27		„ R. R. Dickinson, L. s. ... [Rev.]	Ditto	10th [Rev.], North Deccan, Bombay Presidency	27	160 0 0	
		4TH GRADE.					
		<i>Salary Rs. 120.</i>					
28	...						
1		Mr. E. B. M. Drew ... [Rev.]	Asst. Surveyor, 4th grade	9th [Rev.], Cuttack Dist. [Irrign.], Orissa	1	120 0 0	
2		„ J. F. Macarthy, L. s. ... [G. T. S.]	Ditto	Eastern Frontier Series	2	160 0 0	Officiating Assistant Surveyor, 3rd grade.
3		„ E. Graham, L. s. ... [Topogl.]	Ditto	No. 2, Khandesh and Bombay Native States Topogl. Survey	3	120 0 0	
4		„ G. L. Fleming ... [Topogl.]	Ditto	Mysore Topogl. Survey	4	120 0 0	
5		„ G. R. Copping, L. s. ... [Topogl.]	Ditto	No. 5, Bhopal and Malwa Topogl. Survey	5	120 0 0	
6		„ G. A. Knight ... [Topogl.]	Ditto	11th (Rev.), South Deccan, Bombay	6	120 0 0	
7		„ D. J. Collins ... [G. T. S.]	Ditto	Assam Survey, Darjeeling	7	120 0 0	
8		„ P. A. Peters, L. s. ... [Rev.]	Ditto	1st [Rev.], Dera Ismail Khan, &c., Dist. Punjab	8	120 0 0	

Classified List of Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st July 1879—concluded.

No. sanctioned.	No. existing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party to which at present attached.
		JUNIOR BRANCH—concl'd.		
		ASSISTANT SURVEYORS—concl'd.		
		4TH GRADE—concl'd.		
		<i>Salary Rs. 120.</i>		
9		Mr. H. Corkery, L. s. ... [G. T. S.]	Assistant Surveyor, 4th grade	10th (Rev.), North Deccan, Bombay ...
10		" P. F. Prunty ... [G. T. S.]	Ditto	Kattywar Survey, Poona ...
11		" J. Keating ... [G. T. S.]	Ditto	Ditto ...
12		" C. S. Kraal, L. s. ... [Rev.]	Ditto	Kamrup District (Lakhiraj), Assam ...
13		" S. F. Norman ... [G. T. S.]	Ditto	Guzerat Survey ...
14		" C. Norman, L. s. ... [G. T. S.]	Ditto	Ditto ...
15		" D. Campbell ... [Topogl.]	Ditto	No. 6, Khasi and Garo Hills Topogl. Survey ...
16		" T. J. Campbell ... [Rev.]	Ditto	8th [Rev.], Cachar District [Cadastl.], Assam ...
17		" R. F. Warwick, L. s. ... [G. T. S.]	Ditto	Guzerat Survey ...
18		" L. F. Berkeley ... [Rev.]	Ditto	4th [Rev.], Ghazipur District [Cadastl.], N.-W. P.
19		" J. M. Kennedy ... [G. T. S.]	Ditto	Mysore Topogl. Survey ...
20		" G. P. Tate ... [Topogl.]	Proby. Assistant Surveyor...	No. 1, Gwalior and Central India Topogl. Survey...
21		" P. C. H. Smart ... [Rev.]	Ditto	5th [Rev.], Banda. &c., Districts [Cadastl.], Survey N.-W. P. ...
22		" W. H. D. Ewing ... [Rev.]	Ditto	4th [Rev.], Ghazipur District [Cadastl.], N.-W. P.
23		" C. George ... [Topogl.]	Ditto	No. 2, Khandesh and Bombay Native States Topogl. Survey ...
24		" J. C. Kelly ... [Rev.]	Ditto	1st [Rev.], Dera Ismael Khan, &c., District, Punjab ...
25		" A. George ... [G. T. S.]	Ditto	Guzerat Survey ...
26		" R. W. Senior ... [G. T. S.]	Ditto	Doing duty with Captain Heaviside, B. E. ...
27				
28		Vacancies.		
29				

No. existing in each grade.	Consolidated Salary.	REMARKS.
	Rs. A. P.	
9	120 0 0	
10	120 0 0	
11	120 0 0	
12	120 0 0	Exclusive of Rs. 40 Assam allowance.
13	120 0 0	
14	120 0 0	
15	120 0 0	Exclusive of Rs. 40 Assam allowance.
16	120 0 0	Ditto, ditto.
17	120 0 0	
18	120 0 0	
19	120 0 0	
20	120 0 0	
21	120 0 0	
22	120 0 0	
23	120 0 0	
24	120 0 0	
25	120 0 0	
26	120 0 0	
27		
28	120 0 0	
29		

General List of the Officers of the Senior Department of the Survey of India as it stood on the 1st July 1879.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	Names of Officers and Branch to which originally posted.	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 July 1879.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
1	Colonel F. C. Anderson, s. c. [Rev.]	P. H.	52 0 8	Deputy Superintendent	1st grade	1,627 14 0	Sep. 10, 1852	April 1, 1868	...	In charge 5th [Rev.] Banda &c., Districts [Cadastral], N.-W. P.	Includes Rs 27-14 Personal allowance.
2	„ J. Macdonald, s. c. [Rev.]	P. H.	49 1 20	Ditto	2nd grade	1,327 14 0	Sept. 10, 1852	Oct. 23, 1876	...	In charge 10th [Rev.] North Deccan, Bombay.	Ditto ditto.
3	Maj. Genl. J. T. Walker, c. B., R. E., F. R. S. [G. T. S.]	P. H.	52 7 0	Surveyor General of India	...	3,000 0 0	Dec. 1, 1853	Jan. 1, 1878	...	Surveyor General of India.	
4	Mr. J. B. N. Hennessey, M. A., F. R. S. [G. T. S.]	Not passed	40 11 0	Deputy Superintendent	1st grade	1,600 0 0	Apl. 1, 1854	April 1, 1866	24 0 14	In charge Head-quarters Offices, Dehra Dún.	Joined the Junior Branch, April 14, 1844. Service reckoned under new Rules.
5	Lieut.-Col. G. C. Deprec, s. c. [Topogl.]	P. H.	46 10 29	Ditto	Ditto	1,600 0 0	Oct. 20, 1854	Oct. 20, 1866	...	In charge No. 7, Topographical Party, Rajputana Survey.	
6	Lieut.-Col. Branfill, B. C. [G. T. S.]	P. H.	45 7 8	Ditto	2nd grade	1,300 0 0	Oct. 4, 1858	Oct. 1, 1871	...	In charge Madras Party, Bangalore.	
7	Major H. R. Thuillier, B. E. [G. T. S.]	P. H.	41 3 5	Ditto	{ 1st grade 2nd grade	{ ... 1,482 10 0	{ May 21, 1859 April 1, 1874	{ July 18, 1871 April 1, 1874	...	In charge Mysore Topographical Surveys.	
8	Lieut.-Col. C. T. Haig, B. E. [G. T. S.]	Not passed	44 7 19	Ditto	2nd grade	1,543 8 0	Sept. 22, 1859	Oct. 1, 1867	...	In charge Guzerat Party.	
9	Major J. Sconce, s. c., [Rev.]	P. H.	43 2 29	Deputy Surveyor General	...	2,200 0 0	Oct. 21, 1859	Jan. 1, 1879	...	Deputy Surveyor General, Calcutta.	
10	„ J. Herschel, B. E., F. R. S. [G. T. S.]	P. H.	41 8 1	Deputy Superintendent	2nd grade	1,482 10 0	Nov. 12, 1859	Oct. 1, 1867	...	On duty at Head-quarters Offices, Dehra Dún.	
11	Mr. R. B. Smart ... [Rev.]	Not passed	52 3 28	Ditto	Ditto	1,300 0 0	Oct. 6, 1860	April 1, 1869	31 10 9	In charge 7th [Rev.], Khorda Estate, [Cadastral] Orissa.	Sick leave from 2nd May to 30th June 1849. Ditto from 20th October 1848 to 20th January 1849. Ditto from 8th July 1857 to 13th January 1859. Norm.—Absence without leave for three days was erroneously entered in list on 1st October 1872 against Mr. R. B. Smart's name. Joined the Junior Branch, 21st September 1846.
12	Major D. Macdonald, s. c. ... [Rev.]	P. H.	43 6 21	Ditto	Ditto	1,300 0 0	Dec. 19, 1860	Jan. 1, 1878	...	In charge 2nd [Rev.], Sirsa, &c., Districts, Punjab.	
13	„ F. Coddington, s. c. ... [Rev.]	P. H.	41 1 28	Ditto	Ditto	1,300 0 0	Jan. 17, 1862	Oct. 27, 1878	...	On duty, Deputy Surveyor General's Office, Calcutta.	Exclusive of Rs. 60 Presidency allowance.
14	„ T. T. Carter, B. E. [G. T. S.]	P. H.	41 4 22	Ditto	{ 2nd grade 2nd grade	{ ... 1,482 10 0	{ Mar. 1, 1862 Jan. 1, 1878	{ Oct. 1, 1871 Jan. 1, 1878	...	In charge No. 1, Gwalior and Central India [Topographical] Survey.	
15	„ W. Barron, s. c. ... [Rev.]	P. H.	41 5 15	Ditto	3rd grade	1,000 0 0	June 27, 1862	April 1, 1870	...	In charge 4th [Rev.], Ghazipur District [Cadastral], N.-W. P.	
16	Captain G. Strahan, B. E. [Topogl.]	P. H.	40 4 24	Ditto	2nd grade	1,440 0 0	July 2, 1862	Oct. 26, 1870	...	In charge No. 2, Khaudesh and Bombay N. S. Topographical Survey.	
17	„ R. V. Riddell, B. E. [Topogl.]	P. H.	39 3 20	Ditto	3rd grade	1,140 0 0	Aug. 28, 1862	Oct. 1, 1867	...	Supdt., Mathl. Instt. Dept., and in charge Litho. Branch, Head-quarters, Calcutta.	Officiating Deputy Superintendent, 2nd grade. Rs. 200 Local allowance. Assistant Surveyor Guera
18	Major H. C. B. Tanner, Bombay s. c. [Rev.]	P. H.	43 11 15	Ditto	Ditto	1,000 0 0	Oct. 10, 1862	April 1, 1870	...		
19	Mr. E. T. S. Johnson ... [Rev.]	Not passed	51 2 2	Ditto	Ditto	1,000 0 0	Nov. 21, 1862	July 5, 1870	31 8 19	In charge 6th [Rev.], Jaunpur District [Cadastral], N.-W. P.	Joined the Junior Branch, 13th October 1847.
20	Captain D. C. Andrew, s. c. ... [Rev.]	P. H.	38 3 13	Ditto	Ditto	1,000 0 0	Dec. 30, 1862	Jan. 1, 1878	...	On duty, Dy. Surveyor General's Office, Calcutta.	
21	Major A. Pullan, s. c. [G. T. S.]	P. H.	43 3 0	Ditto	Ditto	1,000 0 0	Jan. 18, 1863	Ditto	...	In charge Kattywar Survey.	
22	„ W. M. Campbell, B. E. [G. T. S.]	Passed	39 11 12	Ditto	2nd grade	1,482 10 0	Jan. 30, 1863	Jan. 1, 1879	...	On Field Service.	
23	„ W. H. Wilkins, s. c. ... [Rev.]	P. H.	37 8 25	Ditto	3rd grade	1,000 0 0	Apl. 27, 1863	Oct. 27, 1878	...	In charge 3rd [Rev.], Saharanpur, &c., Districts, N.-W. P.	
24	Captain H. Trotter, R. E. [G. T. S.]	Not passed	37 10 1	Ditto	Ditto	...	Sept. 5, 1863	Jan. 26, 1869	...	Head-quarters, Mussoorie	On furlough, p. a., 2 years, from 20th February 1876. Services placed at the disposal of the British Foreign Office. Officiating Deputy Superintendent, 2nd grade.
25	„ C. Strahan, B. E. [Topogl.]	Not passed	36 1 25	Ditto	Ditto	1,440 0 0	Sept. 26, 1863	Dec. 1, 1867	...		
26	„ J. E. Sandeman, s. c. ... [Rev.]	P. H.	35 9 29	Ditto	Ditto	1,000 0 0	Oct. 6, 1864	Jan. 1, 1879	...	In charge Rangoon District [Cadastral], British Burma.	
27	Major W. F. Badgley, s. c. [Topogl.]	P. H.	41 7 21	Assistant Superintendent	1st grade	1,075 0 0	May 3, 1865	May 8, 1868	...	In charge No. 6, Khasi and Garo Hills Topographical Survey.	Officiating Deputy Superintendent, 3rd grade.
28	Mr. J. Campbell ... [Rev.]	Not passed	51 4 27	Ditto	Ditto	1,000 0 0	Nov. 29, 1865	Nov. 29, 1867	28 8 29a	Offg. in charge Barkagarh &c., Estates, Bengal.	Ditto ditto. (a) Service reckoned under new rules. Furlough, p. a., from 8th May 1877 to 6th January 1878 inclusive. Joined the Junior Branch, 8th October 1844.
29	Captain W. J. Heaviside, B. E. [G. T. S.]	P. H.	39 0 27	Deputy Superintendent	3rd grade	1,140 0 0	Mar. 1, 1866	April 5, 1872	...	On Field Service.	
30	Capt. H. Lees Smith, s. c., M. A., L. L. B. [Rev.]	P. H.	40 3 18	Assistant Superintendent	1st grade	750 0 0	Mar. 26, 1866	June 18, 1870	...	Offg. in charge Dera Ismail Khan, &c., Districts, Punjab.	
31	Mr. J. O. N. James [Topogl.]	...	49 10 25	Deputy Superintendent	3rd grade	...	April 1, 1866	April 1, 1869	26 7 25	...	Joined the Junior Branch, 29th July 1845. On furlough for 2 years, from 1st April 1873. Service reckoned under new Rules.
32	Mr. H. B. Talbot ... [Rev.]	L. S.	48 8 5	Assistant Superintendent	{ 1st grade 1st grade	{ 750 0 0 750 0 0	{ April 1, 1866 Sep. 12, 1870 Dec. 22, 1873	{	30 7 0	Offg. in charge 9th [Rev.] Cuttack Dist. [Irrigation], Orissa.	Joined the Junior Branch, 1st Dec. 1848.

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

† Of the two grades here given, the first was under the organization of 1866.

General List of the Officers of the Senior Department of the Survey of India as it stood on the 1st July 1879 — concluded.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	Names of Officers and Branch to which originally posted.	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 July, 1879.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
33	Captain T. H. Holdich, B. E. [Topogl.]	L. S.	36 4 16	Assistant Superintendent	1st grade	1,140 0 0	July 23, 1866	Dec. 15, 1868	...	On Field Service.	
34	Major J. Waterhouse, S. C. [Topogl.]	P. H.	36 11 8	Ditto	1st grade	1,000 0 0	July 23, 1866	June 17, 1870	...	In charge Photographic Branch, Headquarters, Calcutta.	Asst. Survr. Genl. Rs. 200 Local allowance.
35	Captain M. W. Rogers, B. E. [G. T. S.]	L. S.	37 4 12	Ditto	1st grade	890 0 0	July 30, 1866	Dec. 15, 1868	...	On Field Service.	
36	" J. Hill, B. E. [G. T. S.]	Not passed	38 6 7	Ditto	1st grade	890 0 0	Dec. 18, 1866	Oct. 30, 1870	...		
37	Mr. W. H. Cole, M. A. [G. T. S.]	H. S.	41 6 16	Ditto	{ 1st grade 2nd grade	760 0 0	{ Jan. 3, 1867 ^a Sept. 1, 1867 ^b	{ Dec. 4, 1870 Oct. 27, 1878	11 5 29	On duty at Head-quarters Offices, Delhra Dún.	(a) Appointed on probation. Excludes service as Professor of Mathematics, Govt. College, Agra, from 14th April 1862 to end of Feb. 1864. (b) Brought on the strength of the Department. Includes Rs. 149-1-6 Personal allowance.
38	Captain S. H. Cowan, S. C. [Rev.]	P. H.	37 9 16	Ditto	2nd grade	749 1 6	Jan. 19, 1867	Mar. 17, 1868	...	Offg. in charge 8th [Rev.], Cachar Dist. [Cadastral], Assam.	
39	" E. H. Steel, S. C. [Rev.]	H. S.	38 1 26	Ditto	2nd grade	624 1 6	Feb. 1, 1867	May 20, 1869	...	In charge Engraving and Cartographic Branches, Head-quarters, Calcutta.	Offg. Asst. Survr. Genl. Includes Rs. 24-1-6 Personal allowance, and excludes Rs. 100 Presidency allowance.
40	" H. S. Hutchinson, S. C. [Rev.]	P. H.	39 2 20	Ditto	2nd grade	749 1 6	Aug. 13, 1867	Aug. 13, 1868	...	Offg. in charge 11th [Rev.], South Deccan, Bombay.	Includes Rs. 149-1-6 Personal allowance.
41	Mr. H. Horst [Topogl.]	Not passed	45 7 27	Ditto	1st grade	...	April 1, 1868	Oct. 1, 1869	24 9 4 ^c	On duty at Head-quarters Offices, Delhra Dún.	Joined the Junior Branch, 1st Sept. 1864. (c) Exclusive of 20 months' service in the Roorkee C. E. College. On furlough for 2 years from 6th June 1879. Service reckoned up to 4th June 1879 under new rules.
42	Captain R. Beavan, S. C. [Rev.]	P. H.	34 9 11	Ditto	{ 2nd grade 2nd grade	624 1 6	{ ... July 17, 1868	{ Nov. 9, 1869 Oct. 27, 1878	...	On Field Service.	
43	Mr. E. J. Jackson [Rev.]	L. S.	35 6 0	Ditto	2nd grade	600 0 0	Nov. 5, 1868	Nov. 5, 1868	11 9 28	5th [Rev.], Banda, &c., Dists. [Cadastral], N.-W. P.	Joined the Junior Branch, 28th Sept. 1864. Sick leave from 4th July to 3rd Aug. 1867. Sick leave from 19th Aug. to 30th Nov. 1867. Europe, medical certificate, from 23rd July 1871 to 10th Nov. 1872.
44	Captain A. W. Baird, B. E. [G. T. S.]	Passed	37 1 26	Ditto	1st grade	890 0 0	{ ... Dec. 4, 1868	{ Oct. 1, 1871 Jan. 1, 1879	...	In charge Tidal and Leveling Operations, Bombay.	
45	Mr. E. C. Barrett [Rev.]	H. S.	36 2 16	Ditto	2nd grade	600 0 0	Dec. 30, 1868	Dec. 30, 1868	16 6 13	6th [Rev.], Jaunpur Dist. [Cadastral], N.-W. P.	Joined the Junior Branch, 18th Nov. 1862. Sick leave for one month from 20th June 1860.
46	Captain J. R. MacCullagh, B. E. [G. T. S.]	L. S.	37 3 5	Ditto	{ 1st grade 2nd grade	890 0 0	{ ... Feb. 12, 1869	{ Jan. 1, 1872 April 1, 1874	...	Mysore Survey	Offg. Asst. Supdt., 1st grade.
47	Captain J. R. Wilmer, S. C. [Topogl.]	H. S.	38 5 12	Ditto	{ 1st grade 2nd grade	750 0 0	{ ... Aug. 24, 1869	{ Aug. 28, 1872 April 1, 1874	...	In charge No. 5 Party, Bhopal and Malwa Topographical Survey.	Offg. Asst. Supdt., 1st grade. Rs. 150 Personal allowance.
48	Mr. G. H. Cooke [Rev.]	L. S.	34 7 1	Ditto	{ 2nd grade 3rd grade	600 0 0	{ ... April 1, 1870	{ May 10, 1871 Jan. 1, 1878	12 6 26	10th [Rev.], North Deccan, Bombay...	Offg. Asst. Supdt., 2nd grade. Joined the Junior Branch, 6th Dec. 1868.
49	Mr. J. McGill [G. T. S.]	Not passed	48 8 9	Ditto	{ 1st grade 2nd grade	...	{ ... Mar. 1, 1871	{ April 1, 1873 April 1, 1874	27 9 0	...	On furlough. Joined the Junior Branch, 1st Oct. 1861.
50	Lieut. G. W. Martin, S. C. [Rev.]	H. S.	32 1 2	Ditto	{ 2nd grade 3rd grade	500 0 0	{ ... Mar. 24, 1871	{ Jan. 17, 1873 April 1, 1874	...	On Field Service.	
51	Mr. W. G. Beverly [G. T. S.]	Not passed	43 8 15	Ditto	{ 2nd grade 3rd grade	600 0 0	{ ... April 1, 1871	{ April 8, 1871 Jan. 1, 1878	18 2 12	In charge Burma Party	Joined the Junior Branch, 1st July 1864. Service reckoned up to 17th May 1877. Offg. Asst. Supdt., 2nd grade.
52	Captain R. G. Woodthorpe, B. E. [Topogl.]	L. S.	34 9 8	Ditto	{ 2nd grade 3rd grade	740 0 0	{ ... July 14, 1871	{ July 14, 1871 Jan. 1, 1878	...	On Field Service.	
53	Lieut. E. P. Leach, B. E. [Topogl.]	L. S.	32 2 29	Ditto	{ 2nd grade 3rd grade	740 0 0	{ ... Oct. 6, 1871	{ Oct. 6, 1871 Jan. 1, 1878	...	Ditto.	
54	Captain A. J. C. Scott, S. C. [Rev.]	H. S.	31 10 12	Ditto	3rd grade	...	Jan. 17, 1872	Jan. 17, 1873	...	...	On furlough, medical certificate, to Europe for 2 years from 21st April 1879.
55	Lieut. H. J. Harman, B. E. [G. T. S.]	L. S.	29 1 17	Ditto	{ 2nd grade 3rd grade	670 0 0	{ ... June 3, 1872	{ Jan. 1, 1874 Jan. 1, 1874	...	In charge Darjeeling Survey	Offg. Asst. Supdt., 2nd grade.
56	Mr. E. C. Ryall [G. T. S.]	Not passed	41 5 15	Ditto	{ 2nd grade 3rd grade	500 0 0	{ ... April 1, 1873	{ April 1, 1873 Jan. 1, 1874	24 2 6	3rd [Rev.], Sabarunpur, &c., Districts, N.-W. P.	Includes Rs. 100 Personal allowance. Joined the Junior Branch, 25th April 1865. Two hundred and twenty-five days' sick leave included under old rules.
57	Lieut. St. G. C. Gore, B. E. [G. T. S.]	Not passed	30 4 8	Ditto	{ 2nd grade 3rd grade	500 0 0	{ ... April 11, 1873	{ Apr. 11, 1873 Jan. 1, 1874	...	On Field Service.	(d) Under the organization of 1874.
58	Lieut. J. R. Hobday, S. C. [Topogl.]	H. S.	28 11 16	Ditto	3rd grade	500 0 0	Sept. 11, 1874	July 7, 1875	...	Ditto.	

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

† Of the two grades here given, the first was under the organization of 1866.

General List of the Officers of the Junior or Subordinate Department

of the Survey of India as it stood on the 1st July 1879.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	Names of Officers and Branch to which originally posted.	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 July 1879.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
1	Mr. Harry Duhan ... [G. T. S.]	...	52 5 22	Surveyor	1st grade ...	a 650 0 0	April 22, 1845	April 1, 1866	29 0 22	Personal Assistant to the Surveyor Genl. of India.	(a) Includes Rs. 150 Personal allowance. Service reckoned under new rules.
2	" G. H. Dwyer ... [Rev.]	...	49 8 24	Ditto	2nd grade ...	400 0 0	Dec. 1, 1846	Jan. 1, 1872	32 2 0	2nd, [Rev.] Sirsa &c., Districts, Punjab	Sick leave from 21st November 1870 to 20th April 1871.
3	" E. Lofie ... [Rev.]	...	51 8 10	Ditto	Ditto ...	400 0 0	Jan. 1, 1847	Jan. 1, 1871	32 6 0	Ditto ditto.	
4	" C. Howden ... [Rev.]	...	48 5 15	Ditto	1st grade ...	500 0 0	Feb. 18, 1847	July 1, 1867	32 4 11	1st, [Rev.] Dera Ismail Khan, &c., Dists., Punjab.	
5	" N. A. Belletty ... [Topogl.]	L. S.	50 9 27	Ditto	Ditto ...	500 0 0	July 16, 1847	April 1, 1866	31 11 16	On duty at Head-quarters, Calcutta	Exclusive of Rs. 45 Presidency house-rent.
6	" C. David ... [Rev.]	...	51 6 0	Ditto	3rd grade ...	350 0 0	Sept. 1, 1847	Jan. 1, 1872	31 10 0	7th, [Rev.] Khorda Estate [Cadastral] Orissa.	Office Assistant from 1st Sept. 1847 to 31st Dec. 1861.
7	" W. H. Patterson ... [Rev.]	L. S.	40 9 6	Ditto	1st grade ...	500 0 0	Dec. 1, 1851	Jan. 1, 1871	17 11 8	Kamrup Dist., [Lakhiraj] Assam	Leave on p. a., from 1st May to 31st August 1862. Leave on p. a. to Europe, from 20th July 1872 to 18th Jan. 1873.
8	" A. Chamarett ... [Topogl.]	...	46 7 1	Ditto	Ditto ...	500 0 0	June 2, 1852	Mar. 1, 1871	27 0 29	Geographical Examiner, Head-quarters, Calcutta.	Exclusive of Rs. 45 as Presidency house-rent.
9	" H. J. Bolst ... [Topogl.]	...	42 4 0	Ditto	Ditto ...	500 0 0	July 26, 1852	Oct. 1, 1872	18 9 36	No. 1, Gwalior and Central India Topographical Survey.	(b) Service reckoned under new rules.
10	" C. W. Campbell ... [Rev.]	...	48 1 24	Ditto	2nd grade ...	400 0 0	Nov. 1, 1853	July 1, 1870	25 8 0	5th, [Rev.] Banda, &c., Dists. [Cadastral] N.-W. P.	
11	" F. W. Kelly ... [Rev.]	H. S.	45 10 5	Ditto	Ditto ...	450 0 0	Dec. 4, 1854	July 1, 1869	23 6 2	Head Draftsman, Office of Depy. Survr. Genl., Calcutta.	Draws Rs. 450 salary as Head Draftsman, and Presidency house-rent Rs. 30. Personal allowance Rs. 100. Special leave for 4 months from 21st January 1858, which was overstayd from 21st May to 16th August 1858. Commencement of second service, 17th August 1858.
12	" G. A. McGill ... [Topogl.]	L. S.	41 2 7	Ditto	Ditto ...	400 0 0	April 8, 1855	Jan. 1, 1871	24 2 23	No. 7, Rajputana Topogl. Survey.	
13	" H. Beverley ... [G. T. S.]	...	40 8 3	Ditto	1st grade ...	e 600 0 0	June 14, 1855	April 1871	24 0 17	Officiating in charge, Eastern Frontier Series.	(c) Including Rs. 100 Charge allowance. 30 days' leave included under old rules.
14	" W. Sinclair ... [Rev.]	...	41 9 6	Ditto	3rd grade ...	400 0 0	Oct. 1, 1855	April 1, 1869	18 3 26	Draftsman, Office of Depy. Surveyor Genl., Calcutta.	On furlough, p. a., from 19th April to 23rd October 1877 inclusive. Draws Rs. 400 salary as Draftsman and Presidency house-rent Rs. 30.
15	" L. H. Clarke ... [G. T. S.]	...	45 0 26	Ditto	2nd grade ...	400 0 0	Nov. 26, 1855	Dec. 1, 1872	23 7 5	Doing duty at Head-quarters, Dehra Dún.	
16	" C. J. Neuville ... [G. T. S.]	...	45 0 12	Ditto	Ditto ...	400 0 0	Dec. 1, 1855	Oct. 1, 1871	23 7 0	No. 1, Extra Party	6 months' sick leave included under old rules. Doing duty with Tidal and Loveling Party.
17	" W. Todd ... [G. T. S.]	...	40 7 21	Ditto	Ditto ...	400 0 0	Jan. 11, 1856	June 1, 1874	21 4 23	Doing duty at Head-quarters, Dehra Dún	4 years and 29 days on medical certificate, of which 2 years count as service under old rules.
18	" A. DeSouza ... [G. T. S.]	...	41 10 17	Ditto	1st grade ...	500 0 0	Feb. 19, 1856	Sept. 1, 1875	18 8 15	Guzerat Survey	319 days' furlough and 77 days' medical leave excluded under new rules.
19	" W. R. Vvall ... [Rev.]	...	40 6 2	Ditto	4th grade ...	300 0 0	June 13, 1856	April 1, 1869	23 0 18	7th, [Rev.] Khorda Estate [Cadastral] Orissa.	
20	" F. Grant ... [Rev.]	...	43 3 6	Ditto	2nd grade ...	400 0 0	July 11, 1856	April 1, 1872	22 11 21	2nd, [Rev.] Sirsa, &c., Dists., Punjab.	
21	" D. Atkinson ... [Topogl.]	...	42 1 24	Ditto	Ditto ...	400 0 0	Aug. 4, 1856	Jan. 1, 1871	22 10 28	No. 5, Bhopal and Malwa Topogl. Survey.	
22	" J. A. Vanderputt ... [Topogl.]	...	40 8 17	Ditto	4th grade ...	300 0 0	Sept. 1, 1856	May 1, 1878	22 5 21	...	
23	" J. F. Baness ... [Topogl.]	...	49 0 1	Ditto	1st grade ...	600 0 0	Sept. 5, 1856	May 1, 1870	22 9 26d	Chief Draftsman, Head-quarters, Calcutta	(d) Service reckoned under new rules.
24	" R. W. Chew ... [Topogl.]	...	39 11 8	Ditto	2nd grade ...	400 0 0	Sept. 15, 1856	Oct. 1, 1874	22 9 16	Mysore Topogl. Survey.	
25	" J. Low ... [G. T. S.]	...	39 4 0	Ditto	Ditto ...	400 0 0	Oct. 1, 1857	Aug. 1, 1875	15 1 19	...	Service reckoned up to 31st October 1878. On furlough.
26	" C. Wood ... [G. T. S.]	L. S.	36 11 10	Ditto	Ditto ...	400 0 0	May 6, 1858	May 1, 1878	20 11 10	Computing Office, Head-quarters, Dehra Dún.	Service reckoned under old rules.
27	" H. E. T. Keelan ... [G. T. S.]	...	36 3 1	Ditto	3rd grade ...	350 0 0	Aug. 17, 1858	April 1, 1872	13 3 0	Mysore Topogl. Survey	11 months and 13 days' furlough excluded under the new rules, and 18 days' sick leave.
28	" F. Bell ... [G. T. S.]	L. S.	37 2 6	Ditto	Ditto ...	350 0 0	Aug. 17, 1858	June 1, 1873	13 0 19	Kattywar Survey, Poona	Furlough for 1 year, and 17 days' subsidiary leave, and 13 months' medical leave excluded under new rules.
29	" G. Atkinson ... [G. T. S.]	...	35 8 20	Ditto	Ditto ...	350 0 0	Aug. 1, 1859	Jan. 1, 1874	19 8 20c	Drawing Office, Head-quarters, Dehra Dún.	(e) Service reckoned under old rules.
30	" P. A. G. Cowley ... [Rev.]	L. S.	37 5 15	Ditto	Ditto ...	350 0 0	Sept. 1, 1859	Oct. 1, 1873	19 10 0	6th, [Rev.] Jaunpur District [Cadastral] N.-W. P.	
31	" G. ... [Rev.]	...	37 6 9	Ditto	Ditto ...	350 0 0	Sept. 1, 1859	April 1, 1872	19 10 0	8th, [Rev.] Cachar District [Cadastral] Assam.	Exclusive of Rs. 50 Assam allowance.
32	" T. W. Reiley ... [Rev.]	L. S.	37 0 27	Ditto	4th grade ...	300 0 0	Oct. 18, 1859	Nov. 1, 1872	19 7 2	On duty, Office of Depy. Surveyor Genl., Calcutta.	Absent without leave from 26th January to 28th February 1861.
33	" E. Little ... [Rev.]	...	33 8 19	Ditto	Ditto ...	300 0 0	Jan. 1, 1860	Nov. 5, 1871	19 6 0	5th, [Rev.] Banda, &c., Dists. [Cadastral] N.-W. P.	Apprentice from 1st January 1860 to 4th November 1862.
34	" J. Peyton ... [G. T. S.]	...	51 5 2	Ditto	1st grade ...	600 0 0	Feb. 3, 1860	April 1, 1874	19 4 27f	On duty at Head-quarters, Calcutta	(f) Service reckoned under old rules.
35	" S. M. Smylie ... [Rev.]	L. S.	37 7 5	Ditto	3rd grade ...	350 0 0	July 24, 1860	April 1, 1872	18 11 8	11th, [Rev.] South Deccan, Bombay.	

General List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st July 1879—continued.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	Names of Officers and Branch to which originally posted.	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 July 1879.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
36	Mr. W. S. Buttress ... [Rev.]	...	35 4 12	Surveyor	4th grade	300 0 0	Sept. 1, 1860	Oct. 1, 1872	18 10 0	1st, [Rev.] Dera Ismail Khan, &c., Districts, Punjab.	Copyist, from 1st to 30th September 1869.
37	„ A. J. Wilson ... [Topogl.]	L. S.	36 10 0	Ditto	3rd grade	350 0 0	Oct. 1, 1860	April 1, 1874	18 9 0	Doing duty at Head-quarters, Calcutta ...	Exclusive of Rs. 30, Presidency house-rent. Apprentice draftsman from 1st January 1869.
38	„ J. A. May ... [Topogl.]	...	36 9 15	Ditto	Ditto	350 0 0	Oct. 1, 1860	Oct. 1, 1874	18 9 0	On duty, Office of Dy. Survr. Genl., Calcutta.	Exclusive of Rs. 30, Presidency house-rent. Apprentice draftsman from 1st Jan. 1869.
39	„ F. Adams ... [Topogl.]	...	43 2 6	Ditto	Ditto	350 0 0	Oct. 1, 1860	Oct. 1, 1871	22 7 28a	On duty, Head-quarters, Calcutta ...	(a) Including service as Sub-Surveyor from 3rd November 1868 to 30th September 1869; exclusive of Rs. 30 Presidency house-rent.
40	„ R. D. Farrell ... [Topogl.]	...	36 5 1	Ditto	Ditto	350 0 0	Oct. 1, 1860	April 1, 1872	18 9 0	On duty, Head-quarters, Calcutta.	
41	„ J. S. Pemberton ... [Rev.]	L. S.	35 11 23	Ditto	Ditto	350 0 0	Oct. 6, 1860	Jan. 1, 1878	18 8 21	Rangoon District, [Cadastral] British Burma.	Overstayed privilege leave by 5 days in June 1869.
42	„ H. R. Littlewood ... [Rev.]	...	35 7 25	Ditto	Ditto	350 0 0	Oct. 6, 1860	April 1, 1872	18 8 26	9th, [Rev.] Cuttack District [Irrigation] Orissa.	
43	„ W. A. Wilson ... [Rev.]	L. S.	36 1 2	Ditto	Ditto	350 0 0	Jan. 1, 1861	May 1, 1878	18 6 0	4th, [Rev.] Ghazipur District [Cadastral] N.-W. P.	
44	„ A. J. Gibson ... [Rev.]	...	37 3 0	Ditto	4th grade	300 0 0	May 1, 1861	Oct. 1, 1873	18 1 27	1st, [Rev.] Dera Ismail Khan, &c., Districts, Punjab.	Absent without leave for 3 days in Jan. 1868.
45	„ E. S. P. Atkinson ... [Topogl.]	...	33 11 5	Ditto	Ditto	300 0 0	Aug. 13, 1861	April 1, 1872	10 9 0	No. 7, Rajputana Topogl. Survey.	
46	„ A. G. Wyatt ... [Topogl.]	...	34 4 4	Ditto	Ditto	300 0 0	Nov. 1, 1861	April 1, 1874	17 8 0	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
47	„ H. Peychers ... [G. T. S.]	...	36 6 18	Ditto	Ditto	300 0 0	April 8, 1862	June 1, 1874	17 2 23	Computing Office, Head-quarters, Dehra Dún.	Service reckoned under old rules.
48	„ H. Dowman ... [Rev.]	...	33 0 20	Ditto	Ditto	300 0 0	Oct. 16, 1862	Oct. 16, 1874	16 8 1	7th, [Rev.] Khorda Estate [Cadastral] Orissa.	Absent without leave 3 days. Sick leave, 2 days in Oct. 1865; 4 days in Dec. 1865, and from 11th to 16th December 1866.
49	„ G. Belcham ... [G. T. S.]	H. S.	34 4 15	Ditto	Ditto	300 0 0	Nov. 1, 1862	June 1, 1874	16 8 0	Madras Party	Service reckoned under old rules.
50	„ H. T. Hanby ... [Rev.]	L. S.	32 8 12	Ditto	Ditto	300 0 0	Nov. 13, 1862	Nov. 13, 1874	16 7 18	4th, [Rev.] Ghazipur District [Cadastral] N.-W. P.	
51	„ A. M. Lawson ... [Rev.]	L. S.	40 5 29	Ditto	Ditto	300 0 0	Nov. 18, 1862	May 1, 1873	16 7 13	10th, [Rev.] North Deccan, Bombay.	
52	„ G. B. Scott ... [Rev.]	H. S.	34 11 6	Ditto	Ditto	300 0 0	May 1, 1863	Dec. 15, 1874	16 2 0	1st, [Rev.] Dera Ismail Khan, &c., Districts, Punjab.	
53	„ J. T. U. Coxen ... [Rev.]	...	38 9 22	Asst. Surveyor	2nd grade	200 0 0	May 16, 1863	Jan. 1, 1874	15 5 3	11th, [Rev.] South Deccan, Bombay ...	Sick leave from 8th to 31st Oct. 1873, and 6 months from 12th November 1878.
54	„ M. J. Ogle ... [Topogl.]	...	37 3 27	Surveyor	4th grade	300 0 0	July 1, 1863	April 1, 1873	14 3 27	No. 6, Khasi and Garo Hills [Topogl.] Survey.	Exclusive of Rs. 40, Assam Allowance. Service reckoned under new rules.
55	„ L. J. Pocock ... [G. T. S.]	H. S.	36 2 5	Ditto	Ditto	300 0 0	July 10, 1863	July 1, 1874	13 11 5	Mysore Topogl. Survey	Eighty-nine days' sick leave excluded.
56	„ C. F. Hamer ... [Topogl.]	...	33 7 24	Ditto	Ditto	300 0 0	Aug. 3, 1863	July 1, 1878	11 7 24	No. 5, Bhopal and Malwa Topogl. Survey	Service reckoned under new rules.
57	„ A. Christie ... [G. T. S.]	H. S.	33 9 1	Ditto	Ditto	300 0 0	Aug. 7, 1863	Oct. 13, 1874	11 9 1	Guzerat Survey.	
58	„ T. E. M. Claudius ... [Topogl.]	...	33 1 0	Asst. Surveyor	1st grade	250 0 0	Aug. 10, 1863	April 1, 1874	11 1 0	No. 1, Gwalior and C. I. Topogl. Survey.	
59	„ C. A. R. Scanlan ... [Topogl.]	...	31 9 19	Ditto	Ditto	250 0 0	Sept. 9, 1863	Oct. 1, 1871	9 4 29b	On duty at Head-quarters, Calcutta ...	Exclusive of Rs. 30, Presidency house-rent. Offg. Surveyor, 4th Grade.
60	„ W. O'Sullivan ... [G. T. S.]	...	35 4 17	Surveyor	4th grade	300 0 0	Oct. 1, 1863	Oct. 1, 1874	13 4 17	Darjeeling Survey.	(b) Excludes leave on medical certificate from 1st January to 20th April 1875; 21 days in August 1878.
61	„ J. H. O'Donel ... [Rev.]	...	33 11 15	Asst. Surveyor	1st grade	250 0 0	Oct. 1, 1863	Oct. 1, 1872	11 11 15	6th, [Rev.] Jaunpur District [Cadastral] N. W. P.	
62	„ N. C. Gwynne ... [G. T. S.]	...	36 3 25	Surveyor	4th grade	300 0 0	Oct. 19 1863	Oct. 1, 1874	14 3 25	Kattywar Survey, Poona.	
63	„ J. Newland ... [Rev.]	L. S.	41 10 26	Asst. Surveyor	1st grade	250 0 0	Oct. 22, 1863	June 20, 1871	16 8 10	10th, [Rev.] North Deccan, Bombay.	
64	„ W. C. Price ... [G. T. S.]	...	33 0 7	Surveyor	4th grade	(c) 400 0 0	Nov. 1, 1863	Oct. 1, 1874	11 0 7	Offg. in charge, Bombay Party	(c) Includes Rs. 100 Charge allowance.
65	„ R. Todd ... [Topogl.]	...	33 11 20	Asst. Surveyor	1st grade	250 0 0	Nov. 1, 1863	Oct. 1, 1871	11 11 19	1st, [Rev.] Dera Ismail Khan, &c., Districts, Punjab.	
66	„ P. Ford ... [Rev.]	L. S.	33 6 24	Ditto	Ditto	250 0 0	Dec. 15, 1863	June 4, 1873	11 6 19	2nd, [Rev.] Sirsa, &c., Districts, Punjab	Absent without leave 1 day, and sick leave 4 days in October 1865.
67	„ J. Todd ... [Rev.]	...	45 1 19	Surveyor	3rd grade	350 0 0	Dec. 27, 1863	Jan. 1, 1872	15 6 4	3rd, [Rev.] Saharanpur, &c., Districts, N.-W. P.	Overstayed privilege leave by 1 day in August 1874.
68	„ G. Campbell ... [Rev.]	...	30 11 19	Asst. Surveyor	Ditto	180 0 0	Jan. 1, 1864	Dec. 1, 1874	7 11 19	7th, [Rev.] Khorda Estate [Cadastral] Orissa.	Office Assistant from 1st January 1864 to 28th Feb. 1871.
69	„ R. B. Smart, Jr. ... [Rev.]	L. S.	32 0 2	Ditto	1st grade	250 0 0	Jan. 1, 1864	May 27, 1874	10 0 2	5th, [Rev.] Banda, &c., Dist. [Cadastral] N.-W. P.	Apprentice from 1st January to 31st December 1864.
70	„ D. A. King ... [Rev.]	...	32 7 26	Ditto	Ditto	250 0 0	April 12, 1864	Jan. 1, 1874	10 7 25	Barkaguri, &c., Estates [Cadastral] Bengal.	Apprentice from 12th April to 30th June 1864.
71	„ A. W. Chennell ... [Topogl.]	...	32 7 16	Ditto	Ditto	250 0 0	May 1, 1864	Oct. 1, 1872	10 1 1	No. 6, Khasi and Garo Hills [Topogl.] Survey.	Exclusive of Rs. 40 Assam allowance. Probationer from 10th November 1862 to 30th April 1864.

General List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st July 1879—continued.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	Names of Officers and Branch to which originally posted.	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 July 1879.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
72	Mr. A. James ... [Topogl.]	...	32 7 12	Assistant Surveyor ...	1st grade ...	250 0 0	June 15, 1864	Sept. 1, 1873	10 7 12	Mysore Topogl. Survey.	
73	" C. Tapsell ... [Topogl.]	L. S.	34 7 17	Ditto ...	Ditto ...	250 0 0	Aug. 2, 1864	Oct. 1, 1872	12 7 16	On duty at Head-quarters, Calcutta ...	Exclusive of Rs. 20, Presidency house-rent.
74	" C. H. McA. Fee ... [G. T. S.]	L. S.	29 7 15	Surveyor ...	4th grade ...	300 0 0	Sept. 6, 1864	Aug. 1, 1875	7 7 15	Guzerat Survey.	
75	" F. Kitchen ... [Topogl.]	...	33 3 7	Assistant Surveyor ...	1st grade ...	250 0 0	Oct. 1, 1864	April 1, 1874	9 11 6	Mysore Topogl. Survey.	
76	" W. Stotesbury ... [Topogl.]	H. S.	32 11 6	Ditto ...	Ditto ...	250 0 0	Oct. 4, 1864	April 1, 1874	11 3 7	Ditto.	
77	" T. H. Rendell ... [G. T. S.]	...	34 11 9	Ditto ...	Ditto ...	250 0 0	Oct. 11, 1864	June 1, 1873	12 11 9	Tidal and Leveling operations.	
78	" C. W. F. Seyers ... [Rev.]	...	35 10 15	Ditto ...	3rd grade ...	180 0 0	Dec. 1, 1864	Oct. 1, 1871	13 10 15	3rd, [Rev.] Saharanpur, &c., Districts, N.-W. P.	
79	" J. Connor ... [Rev.]	...	31 9 24	Ditto ...	1st grade ...	325 0 0	Feb. 15, 1865	Dec. 8, 1874	9 9 24	Draftsman, Office of Deputy Surveyor General, Calcutta.	
80	" T. H. Dunne ... [Rev.]	L. S.	31 6 5	Ditto ...	Ditto ...	250 0 0	Feb. 15, 1865	Feb. 15, 1871	9 5 24	7th, [Rev.] Khorda Estate [Cadastral] Orissa.	Absent without leave 1 day, and sick leave for 10 days in October 1865.
81	" W. J. Lane ... [Rev.]	...	32 1 5	Ditto ...	Ditto ...	300 0 0	Mar. 1, 1865	April 24, 1871	9 8 26	Draftsman, Office of Depy. Survr. Genl., Calcutta.	Sick leave from 18th May to 8th July 1865, and from 7th August to 23rd October 1866.
82	" E. J. Connor ... [G. T. S.]	L. S.	30 10 15	Ditto ...	Ditto ...	250 0 0	Mar. 1, 1865	July 1, 1874	8 4 10	No. 1, Extra Party ...	Six months and 5 days' leave on private affairs excluded under new rules. Doing duty with Tidal and Leveling Party.
83	" E. A. Wainright ... [Topogl.]	...	31 0 13	Ditto ...	2nd grade ...	250 0 0	May 1, 1865	July 13, 1878	9 0 13	No. 5, Bhopal & Malwa Topogl. Survey.	
84	" Hugh Todd ... [G. T. S.]	...	31 10 15	Ditto ...	1st grade ...	250 0 0	July 15, 1865	June 1, 1874	9 9 16	Mysore Topogl. Survey ...	Thirty days' sick leave excluded
85	" J. A. Barker ... [Topogl.]	...	30 2 18	Ditto ...	Ditto ...	250 0 0	Sept. 18, 1865	Oct. 1, 1871	8 2 18	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
86	" R. C. D. Ewing ... [Rev.]	H. S.	31 0 20	Ditto ...	Ditto ...	250 0 0	June 9, 1866	Aug. 1, 1878	9 0 20	3rd, [Rev.] Saharanpur, &c., Districts, N.-W. P.	
87	" W. J. Cornelius ... [Topogl.]	L. S.	30 3 1	Ditto ...	Ditto ...	250 0 0	Aug. 15, 1866	Oct. 1, 1872	8 3 1	No. 1, Gwalior and Central India Topogl. Survey.	Officiating Assistant Surveyor, 1st grade.
88	" W. F. Pettigrew ... [Topogl.]	...	34 10 19	Ditto ...	Ditto ...	200 0 0	Sept. 12, 1866	Oct. 1, 1872	11 4 9	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
89	" J. Bond ... [G. T. S.]	...	29 5 24	Ditto ...	Ditto ...	250 0 0	Oct. 18, 1866	Oct. 1, 1874	7 5 4	No. 2, Extra Party ...	Twenty days' sick leave excluded. Doing duty with the Guzerat Party.
90	" C. D. Potter ... [G. T. S.]	L. S.	33 9 27	Ditto ...	Ditto ...	250 0 0	Oct. 29, 1866	Oct. 1, 1874	11 8 24	Madras Party ...	Thirty-three days' leave excluded.
91	" G. W. Jarbo ... [Rev.]	L. S.	31 9 15	Ditto ...	2nd grade ...	200 0 0	Nov. 1, 1866	Nov. 1, 1872	9 9 0	9th, [Rev.] Cuttaek District [Irrigation] Orissa.	Sick leave for 15 days, from 26th May to 9th June 1869.
92	" J. R. Scott ... [Rev.]	L. S.	30 3 27	Ditto ...	Ditto ...	200 0 0	Jan. 19, 1867	May 1, 1873	8 3 27	Ditto ditto.	
93	" P. J. W. Doran ... [Topogl.]	L. S.	30 1 27	Ditto ...	Ditto ...	200 0 0	Feb. 1, 1867	April 1, 1873	7 3 5	No. 1, Gwalior and C. I. Topogl. Survey.	
94	" C. W. Wilson ... [Rev.]	L. S.	33 7 22	Ditto ...	3rd grade ...	160 0 0	June 21, 1867	Oct. 1, 1870	11 2 22	3rd, [Rev.] Saharanpur, &c., Districts, N.-W. P.	(a) Commencement of second service. Sick leave for 3 months from 1st March 1869, and 2 months from 1st August 1869.
95	" J. McHatton ... [Rev.]	L. S.	28 11 14	Ditto ...	2nd grade ...	...	July 1, 1867	July 1, 1870	6 5 14	...	On furlough for 1 year from 1st January 1879.
96	" W. W. McNair ... [Topogl.]	L. S.	28 9 18	Ditto ...	Ditto ...	200 0 0	Sep. 1, 1867	Oct. 1, 1872	6 10 18	Mysore Topogl. Survey.	
97	" E. J. Martin ... [Rev.]	...	28 4 15	Ditto ...	3rd grade ...	160 0 0	Sep. 16, 1867	May 27, 1874	6 4 15	6th, [Rev.] Jaunpur District [Cadastral] N.-W. P.	Office Asst. from 10th September 1867 to 31st July 1870.
98	" H. T. Kitchen ... [Topogl.]	...	31 0 23	Ditto ...	2nd grade ...	200 0 0	Nov. 1, 1867	Nov. 1, 1873	9 0 23	No. 5, Bhopal and Malwa Topogl. Survey.	
99	" A. Cooper ... [Topogl.]	...	38 8 4	Ditto ...	Ditto ...	200 0 0	Dec. 1, 1867	Apr. 1, 1874	16 3 0	No. 2, Khandesh and Bombay Native States Survey.	(b) Service reckoned under old rules; includes previous service in Pegu Survey from 2nd January 1863 to 30th November 1867.
100	" J. H. Wilson ... [Topogl.]	L. S.	33 0 23	Ditto ...	Ditto ...	200 0 0	April 1, 1868	Apr. 1, 1874	10 11 23	No. 7, Rajputana Topogl. Survey.	
101	" J. Hickie ... [G. T. S.]	L. S.	30 5 17	Ditto ...	Ditto ...	200 0 0	April 29, 1868	June 1, 1874	7 11 17	2nd, [Rev.] Sirsa, &c., Districts, Punjab	Six months' medical leave excluded.
102	" W. H. Lilley ... [Topogl.]	...	50 6 29	Ditto ...	Ditto ...	200 0 0	May 1, 1868	Jan. 1, 1878	8 1 7	No. 5, Bhopal and Malwa Topogl. Survey.	Excluding leave on m. c. from 14th Dec. 1877 to 8th June 1878.
103	" W. Fielding ... [G. T. S.]	L. S.	31 1 13	Ditto ...	Ditto ...	200 0 0	May 3, 1868	July 1, 1874	9 1 13	Kattywar Survey, Poona.	
104	" G. D. Cusson ... [G. T. S.]	L. S.	32 9 7	Ditto ...	Ditto ...	200 0 0	May 8, 1868	Oct. 1, 1874	10 9 7	Guzerat Survey.	
105	" T. Kinney ... [G. T. S.]	L. S.	32 1 27	Ditto ...	1st grade ...	250 0 0	June 17, 1868	Oct. 1, 1874	9 6 27	Head-quarters Office, Derah Dún	Six months' leave on private affairs and one month's leave without pay excluded.
106	" S. O. Madras ... [Rev.]	...	28 10 16	Ditto ...	2nd grade ...	200 0 0	July 6, 1868	July 6, 1874	6 10 16	4th [Rev.] Ghazipur Dist. [Cadastral] N.-W. P.	
107	" T. F. Freeman ... [Rev.]	L. S.	28 3 27	Ditto ...	Ditto ...	200 0 0	Sep. 9, 1868	Sept. 9, 1874	6 3 27	5th, [Rev.] Banda, &c., Dists. [Cadastral] N.-W. P.	
108	" G. C. Swincy ... [Rev.]	...	30 0 4	Ditto ...	Ditto ...	200 0 0	Sep. 17, 1868	Dec. 1, 1874	8 0 4	11th, [Rev.] South Deccan, Bombay.	
109	" J. Murphy ... [Rev.]	...	26 11 19	Ditto ...	3rd grade ...	160 0 0	Nov. 22, 1868	Nov. 1, 1871	4 11 19	4th, [Rev.] Ghazipur District [Cadastral] N.-W. P.	Office Assistant from 22nd November 1868 to 31st October 1871.

General List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st July 1879—continued.

1	2	3	4	5	6	7	8	9	10	11	12
Genl. Seniority Number.	Names of Officers and Branch to which originally posted.	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 on 1st July 1879.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
110	Mr. W. D. Corbett ... [Rev.]	...	29 1 0	Assistant Surveyor ...	3rd grade ...	160 0 0	Dec. 1, 1868	May 30, 1874	7 1 0	4th, [Rev.] Ghazipur District, [Cadastral], N. W. P.	Office Assistant from 1st December 1868 to 31st July 1870.
111	" C. P. Torrens ... [G. T. S.]	...	29 0 11	Ditto ...	2nd grade ...	200 0 0	Dec. 12, 1868	Apl. 1, 1873	7 0 11	Bombay Party.	
112	" J. S. Swiney ... [Rev.]	...	28 6 12	Ditto ...	Ditto ...	200 0 0	Jan. 5, 1869	Jan. 5, 1872	6 6 12	6th, [Rev.] Jaunpur Dist. [Cadastral], N.-W. P.	
113	" G. L. R. Scott ... [Rev.]	L. S.	28 1 15	Ditto ...	Ditto ...	...	Mar. 1, 1869	Mar. 1, 1872	6 1 15	...	On furlough for 1 year from 10th June 1879.
114	" B. Anderson ... [Rev.]	L. S.	28 1 15	Ditto ...	Ditto ...	...	Apl. 20, 1869	June 29, 1872	6 0 6	...	On furlough to New Zealand for 1 year, from 23rd May 1879.
115	" T. Shaw ... [Rev.]	L. S.	26 7 15	Ditto ...	Ditto ...	200 0 0	Apl. 21, 1869	Aug. 1, 1878	4 7 15	8th, [Rev.] Cachar Dist. [Cadastral], Assam.	
116	" W. Robert ... [Topogl.]	...	28 4 2	Ditto ...	Ditto ...	200 0 0	Aug. 21, 1869	July 13, 1878	6 4 2	Darjeeling Survey.	
117	" W. H. Penrose ... [Rev.]	L. S.	27 8 24	Ditto ...	Ditto ...	200 0 0	Aug. 11, 1869	Dec. 16, 1878	5 8 24	11th, [Rev.] South Deccan, Bombay.	
118	" A. Bryson ... [G. T. S.]	H. S.	29 10 1	Ditto ...	3rd grade ...	160 0 0	Sep. 20, 1869	Oct. 1, 1873	7 10 1	Madras Party.	
119	" F. E. Warde ... [Topogl.]	...	27 9 24	Ditto ...	Ditto ...	160 0 0	Sep. 1, 1870	Sep. 1, 1873	5 9 24	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
120	" C. T. Templeton ... [Topogl.]	...	26 9 27	Ditto ...	Ditto ...	160 0 0	Sep. 1, 1870	Sep. 1, 1873	4 9 27	No. 1, Gwalior and Central India Topogl. Survey.	
121	" A. D. Smart ... [Rev.]	...	48 8 17	Surveyor ...	Ditto ...	350 0 0	Oct. 1, 1870(a)	Oct. 1, 1870	8 9 0	7th, [Rev.] Khorda Estate [Cadastral], Orissa.	(a) Commencement of second service.
122	" G. E. Parker ... [Rev.]	...	29 4 18	Assistant Surveyor ...	Ditto ...	160 0 0	Nov. 18, 1870	July 8, 1874	7 4 18	Rangoon Dist. [Cadastral] British Burma.	
123	" J. McCay ... [Topogl.]	...	25 8 23	Ditto ...	Ditto ...	200 0 0	Dec. 1, 1870	Dec. 1, 1873	3 8 24	No. 6, Khasi and Garo Hills Topogl. Surv.	(b) Inclusive of Rs. 40, Assam Local allowance.
124	" R. A. Gibson ... [Topogl.]	...	24 11 26	...	Ditto ...	160 0 0	Dec. 1, 1870	Sep. 1, 1878	2 11 26	On duty at Head-quarters, Calcutta ...	Previous service on probation in G. T. S. from 1st Oct. 1869 to 30th June 1870. Apprentice Draftsman, Snr. Genl.'s Office, from 10th October to 30th November 1870. Probationary Assistant Surveyor, 1st December 1870.
125	" W. Oldham ... [G. T. S.]	L.S. (Cannase.)	26 6 15	Ditto ...	Ditto ...	160 0 0	Oct. 15, 1871	June 1, 1874	4 6 15	Kattywar Survey, Poona.	
126	" C. W. J. Ford ... [Rev.]	...	26 3 6	Ditto ...	Ditto ...	160 0 0	Nov. 1, 1871	Jan. 1, 1878	4 3 0	9th, [Rev.] Cuttack District [Irrigation], Orissa.	
127	" W. C. G. Barckley ... [Topogl.]	...	27 8 10	Ditto ...	Ditto ...	160 0 0	Dec. 1, 1871	Feb. 1, 1874	4 3 16	No. 7, Rajputana Topogl. Survey.	
128	" A. W. Smart ... [Rev.]	...	28 4 1	Ditto ...	Ditto ...	160 0 0	Jan. 1, 1872	Jan. 1, 1878	6 4 1	6th, [Rev.] Jaunpur District [Cadastral], N.-W. P.	
129	" G. VanderBeek ... [Topogl.]	L. S.	29 9 15	Ditto ...	Ditto ...	160 0 0	July 1, 1872	April 1, 1877	7 0 0	No. 2, Khandesh and Bombay Native States Topogl. Survey.	
130	" W. M. Kelly ... [Topogl.]	...	24 10 25	Ditto ...	Ditto ...	160 0 0	Oct. 1, 1872	Jan. 1, 1878	2 10 25	5th, [Rev.] Banda, &c., Districts [Cadastral], N.-W. P.	Re-appointed to the Department, 1st Oct. 1875, after employment in the Forest Department, from 1st Nov. 1877 to 30th September 1878.
	" J. C. Murray ... [Topogl.]	L. S.	26 10 17	Ditto ...	Ditto ...	...	Oct. 1, 1872	Jan. 1, 1878	4 4 16	...	
131	" A. Kitchen ... [Topogl.]	...	26 5 5	Ditto ...	Ditto ...	160 0 0	Oct. 1, 1872	Feb. 25, 1878	4 5 5	No. 5, Bhopal and Malwa Topogl. Survey.	
132	" P. White ... [Topogl.]	...	28 8 22	Ditto ...	4th grade ...	160 0 0	Oct. 1, 1872	...	6 0 12	...	Service reckoned up to 20th October 1878. On sick leave for 3 months, from 21st October 1878. Leave extended for 3 months, further extension of leave without pay for 6 months, from 20th April 1879.
133	" J. O. Hughes ... [G. T. S.]	...	23 10 8	Ditto ...	3rd grade ...	160 0 0	Oct. 14, 1872	April 1, 1875	1 10 8	Burma Party ...	Two months and 22 days' sick leave excluded from period of non-qualifying service.
134	" B. M. Wilson ... [Rev.]	...	31 2 17	Ditto ...	Ditto ...	160 0 0	Nov. 15, 1872	July 13, 1878	7 5 0	9th, [Rev.] Cuttack District [Irrigation], Orissa.	Apprentice, from 1st Feb. to 14th Nov. 1872.
135	" E. P. S. Hill ... [Rev.]	...	25 0 17	Ditto ...	Ditto ...	160 0 0	Nov. 16, 1872	Aug. 1, 1878	3 0 17	5th, [Rev.] Banda, &c., Districts [Cadastral], N.-W. P.	
136	" E. H. S. Gasper ... [Rev.]	...	25 7 16	Ditto ...	Ditto ...	160 0 0	Nov. 16, 1872	Dec. 16, 1878	3 3 16	6th, [Rev.] Jaunpur District [Cadastral], N.-W. P.	Sick leave for 4 months, from 1st September to 31st December 1876.
137	" G. T. Hall ... [G. T. S.]	L. S.	27 2 24	Ditto ...	Ditto ...	160 0 0	Nov. 22, 1872	Aug. 1, 1875	5 2 24	Kattywar Survey, Poona.	
138	" E. B. M. Drew ... [Rev.]	...	25 2 10	Ditto ...	4th grade ...	...	May 5, 1873	...	1 5 26	9th, [Rev.] Cuttack District [Irrigation], Orissa.	Had leave without pay from 17th April 1877 to 31st December 1878.
139	" R. R. Dickinson ... [Rev.]	L. S.	27 11 6	Ditto ...	3rd grade ...	160 0 0	April 16, 1873	...	5 11 6	10th, [Rev.] North Deccan, Bombay ...	Apprentice from 1st April 1872 to 15th April 1873.
140	" J. F. McCarthy ... [G. T. S.]	L. S.	26 2 2	Ditto ...	4th grade ...	160 0 0	Aug. 1, 1873	...	4 2 2	Eastern Frontier Series ...	Offg. Assistant Surveyor, 3rd grade.
141	" E. Graham ... [Topogl.]	L. S.	25 8 0	Ditto ...	Ditto ...	120 0 0	Aug. 11, 1873	...	3 8 0	No. 2, Khandesh and Bombay Native States' Topogl. Survey.	Previous service as Sub-Surveyor from 1st Nov. 1872.
142	" G. L. Fleming ... [Topogl.]	...	25 2 29	Ditto ...	Ditto ...	120 0 0	Aug. 11, 1873	...	3 2 29	Mysore Topogl. Survey.	
143	" G. R. Copping ... [Topogl.]	L. S.	26 0 6	Ditto ...	Ditto ...	120 0 0	Aug. 11, 1873	...	4 0 6	No. 5, Bhopal and Malwa Topogl. Survey	Previous service as Apprentice from 1st Oct. 1872.
144	" G. A. Knight ... [Topogl.]	...	25 2 9	Ditto ...	Ditto ...	120 0 0	Aug. 11, 1873	...	3 2 9	11th, [Rev.] South Deccan, Bombay.	
145	" D. J. Collins ... [G. T. S.]	...	25 1 27	Ditto ...	Ditto ...	120 0 0	Oct. 6, 1873	...	3 0 9	Darjeeling Survey	Excludes 49 days' leave on medical certificate from 2nd July to 10th August 1878.
146	" P. A. Peters ... [Rev.]	L. S.	24 6 23	Ditto ...	Ditto ...	120 0 0	Nov. 1, 1873	...	2 6 23	1st, [Rev.] Dera Ismail Khan, &c., Dists., Punjab.	
147	" H. Corkery ... [G. T. S.]	L. S.	27 10 10	Ditto ...	Ditto ...	120 0 0	Nov. 20, 1873	...	4 11 17	10th, [Rev.] North Deccan, Bombay ...	Excludes leave without pay from 21st March to 13th Nov. 1878.

General List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st July 1879—concluded.

1 Genl. Seniority Number.	2 Names of Officers and Branch to which originally posted.	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 on 1st July 1879. Y. M. D.	11 Present Post.	12 REMARKS.
149	" J. Keating ... [G. T. S.]	...	25 1 27	Ditto ...	Ditto ...	120 0 0	June 1, 1874	...	3 1 27	Ditto ditto.	
150	" C. S. Kraal ... [Rev.]	L. S.	25 9 6	Ditto ...	Ditto ...	120 0 0	July 24, 1874	...	3 8 19	Kamrup District [Lakhiraj] Assam ...	Sick leave from 6th to 22nd February 1879.
151	" S. F. Norman ... [G. T. S.]	...	24 10 23	Ditto ...	Ditto ...	120 0 0	Sept. 1, 1874	...	2 10 23	Guzerat Survey.	
152	" C. Norman ... [G. T. S.]	L. S.	23 1 12	Ditto ...	Ditto ...	120 0 0	Oct. 12, 1874	...	1 1 12	Ditto.	
153	" Duncan Campbell ... [Topogl.]	...	26 7 13	Ditto ...	Ditto ...	160 0 0	Nov. 1, 1874	...	4 7 13	No. 6, Khasi and Garo Hills Topogl. Survey.	Joined as a Sub-Surveyor on 3rd July 1872. (a) Inclusive of Rs. 40, Assam Local allowance.
154	" Thomas J. Campbell ... [Rev.]	...	22 5 16	Ditto ...	Ditto ...	120 0 0	May 1, 1875	...	0 5 16	8th, [Rev.] Cachar District [Cadastral], Assam.	
155	" R. F. Warwick ... [G. T. S.]	L. S.	24 3 2	Ditto ...	Ditto ...	120 0 0	July 2, 1875	...	1 11 2	Guzerat Party ...	Excludes leave on medical certificate for 2 months from 10th October to 8th December 1877. Service reckoned up to 30th April 1879. Leave on medical certificate for 6 months, from 1st May 1879.
156	" L. F. Berkeley ... [Rev.]	...	24 10 3	Ditto ...	Ditto ...	120 0 0	Aug. 16, 1875	...	2 10 3	4th, [Rev.] Ghazipur District [Cadastral], N.-W. P.	
157	" J. M. Kennedy ... [G. T. S.]	...	22 7 28	Ditto ...	Ditto ...	120 0 0	Aug. 19, 1875	...	...	Mysore Topogl. Survey.	
158	" G. P. Tate ... [Topogl.]	...	22 11 10	Proby. Assistant Surveyor	Ditto ...	120 0 0	Mar. 12, 1878	...	0 11 10	No. 1, Gwalior and C. I. Topogl. Survey	Apprentice from 1st March 1874.
159	" P. C. H. Smart ... [Rev.]	...	23 4 2	Ditto ...	Ditto ...	120 0 0	Apl. 18, 1878	...	1 4 2	5th, [Rev.] Banda, &c., Dists. [Cadastral], N.-W. P.	
160	" W. H. D. Ewing ... [Rev.]	...	21 10 7	Ditto ...	Ditto ...	120 0 0	Apl. 15, 1878	...	...	4th [Rev.] Ghazipur Dist. [Cadastral], N.-W. P.	
161	" C. George ... [Topogl.]	...	26 3 23	Ditto ...	Ditto ...	120 0 0	Sept. 5, 1878	...	4 6 23	No. 2, Khandesh and Native States [Topogl.] Survey.	Previous service as Sub-Surveyor from 18th August 1874.
162	" J. C. Kelly ... [Rev.]	...	21 8 23	Ditto ...	Ditto ...	120 0 0	Oct. 11, 1878	...	...	1st, [Rev.] Dera Ismail Khan, &c., Dists., Punjab.	
163	" A. George ... [G. T. S.]	...	...	Ditto ...	Ditto ...	120 0 0	Oct. 15, 1878	...	...	Guzerat Survey.	
164	" R. W. Senior ... [G. T. S.]	...	18 7 18	Ditto ...	Ditto ...	120 0 0	Dec. 21, 1878	...	...	Doing duty with Captain Heaviside.	

Disposition List of the Officers of the Survey

of India as it stood on the 1st July 1879.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.					Annual Cost of Party.
		Sub-Surveyors.	Writers.	Chainmen and Flagmen.	Native Doctors.	Burkundazes.		Jemadars.
		No.	No.	No.	No.	No.	No.
	<i>Madras Party.</i> On the South-East Coast of the Peninsula between Madras and Cape Comorin; recess quarters at Bangalore ...	...	...	56	1	17	...
	<i>Eastern Frontier Series.</i> British Burma; recess quarters at Moulmein ...	...	1	78	2	27	...
	<i>Burma Party.</i> British Burma; recess quarters at Moulmein ...	...	1	61	1	7	...
	<i>Durjeeling Survey.</i> Special Survey operations in and around Darjeeling ...	...	1	54	1	12	...
	<i>Bombay Party.</i> In advancing the triangulation to Quetta. ...	...	...	50	1	14	...
	<i>Kattywar Party.</i> The Province of Kattywar, Bombay Presidency; recess quarters at Poona ...	11	1	145	1	27	...
	<i>Guzerat Party.</i> Guzerat; recess quarters at Poona ...	22	1	200	1	33	...

Officer in charge.	Number in General Lists.	Rank and Grade.	Date of assuming charge.	REMARKS.
Lt.-Col. B. R. Branfill, B. C. ... Mr. G. Belcham ... " C. D. Potter ... " A. Bryson ...	6 49 90 118	Depy. Supdt., 2nd grade Surveyor, 4th grade. Assistant Surveyor, 1st grade. Ditto, 3rd grade.	... June 1, 1877.	
H. Beverley, Esq. ... Mr. J. F. McCarthy ...	13 140	Surveyor, 1st grade Ditto, 4th grade, offg. in the 3rd grade.	May 17, 1879.	Officiating in charge.
W. G. Beverley, Esq. ... Mr. J. Low ... " J. O. Hughes ...	51 25 133	Asst. Supdt., 3rd grade, offg. in the 2nd grade. Surveyor, 2nd grade Assistant Surveyor, 3rd grade.	Oct. 15, 1878.	On furlough to Europe for 12 months from November 1878.
Lieut. H. J. Harman, R. E. ... Mr. W. O'Sullivan ... " W. Robert ... " D. J. Collins ...	55 60 116 146	Asst. Supdt., 3rd grade, offg. in 2nd grade. Surveyor, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 4th grade.	Oct. 6, 1874.	
W. C. Price, Esq. ... Mr. C. P. Torrens ...	64 111	Surveyor, 4th grade Assistant Surveyor, 2nd grade, offg. in 1st grade.	Nov. 1, 1878.	Officiating in charge.
Major A. Pullan, S. C. ... J. McGill, Esq. ... Mr. F. Bell ... " N. C. Gwynne ... " W. Fielding ... " W. Oldham ... " G. T. Hall ... " P. F. Prunty ... " J. Keating ...	21 53 28 62 103 125 137 148 149	Depy. Supdt., 3rd grade Asst. Supdt., 2nd grade, offg. in 1st grade. Surveyor, 3rd grade. Ditto, 4th grade. Assistant Surveyor, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 4th grade. Ditto, 4th grade.	Apl. 26, 1879.	On furlough.
Lieut. Col. C. T. Haig, R. E. ... Mr. A. D'Souza ... " A. Christie ... " C. H. McA. Fee ... " G. D. Cusson ... " S. F. Norman ... " C. Norman ... " R. F. Warwick ... " A. George ...	8 18 57 74 104 151 152 155 163	Depy. Supdt., 2nd grade Surveyor, 1st grade. Ditto, 4th grade. Ditto, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 4th grade. Ditto, 4th grade. Ditto, 4th grade. Proby. Asst. Surveyor, 4th grade.	Oct. 5, 1878	Six months' leave on Medical Certificate from 1st May 1879.

Disposition List of the Officers of the Survey

of India as it stood on the 1st July 1879 —concluded.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.
		Sub-Surveyors.	Writers.	Chainmen and Flagmen.	Native Doctors.	Burkundazes.	Jemadars.	
	<i>No. 1 Extra Party.</i>	No.	No.	No.	No.	No.	No.	Rs.
	Carrying on Electric Determinations of Longitude ...	...	...	24	...	3	...	...
	<i>No. 2 Extra Party.</i>							
	Carrying on Electric Determinations of Longitude ...	...	1	10	...	3	...	...
	<i>Tidal and Levelling Operations.</i>							
	Tidal operations at various Ports ...	5	1	36	1	12	...	...
	Levelling operations in Bombay Presidency; recess quarters at Poona.	...	...	...	...	...	...	...

Officer in charge.	Number in General Lists	Rank and Grade.	Date of assuming charge.	REMARKS.
Captain W. J. Heaviside, B. E. Mr. C. J. Neuville " E. J. Connor	29 16 82	Depy. Supdt., 3rd grade Surveyor, 2nd grade Asst. Surveyor, 1st grade	Dec. 20, 1875 ... } ... }	Doing duty with Tidal and Levelling Party during absence of the Executive Officer.
Major W. M. Campbell, B. E. Mr. J. Bond	22 89	Depy. Supdt., 2nd grade Asst. Surveyor, 1st grade	Aug. 1, 1875	Doing duty with Guzerat Party during the absence of the Executive Officer.
Captain A. W. Baird, B. E. Mr. T. H. Rendell	44 77	Asst. Supdt., 2nd grade, offg. in 1st grade. Assistant Surveyor, 1st grade.	July 2, 1877.	

Disposition List of the Officers of the Survey of India as it stood on the 1st July 1879—continued.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party. Rs.	Officer in charge. Surveyors and Assistant Surveyors.	Number in General Lists.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
		Sub-Surveyors.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Barkundazes.	Apothecary.						
		No.	No.	No.	No.	No.	No.						
1	Native States in Rajputana Agency, Odeypore and Sirohi; Topographical Survey.	6	...	135	1	20	...	62,260	Major T. T. Carter, R. E. ...	14	Supdt., 2nd grade ...	May 6, 1879.	
									Mr. H. J. Bolst ...	9	Surveyor, 1st grade.		
									" T. E. M. Claudius ...	58	Asst. Surveyor, 1st grade.		
									" W. J. Cornelius ...	87	Ditto, 2nd grade, offg. in 1st grade.		
									" P. J. W. Doran ...	93	Ditto, 2nd grade.		
									" C. T. Templeton ...	120	Ditto, 3rd grade.		
									" G. P. Tate ...	158	Proby. ditto, 4th grade.		
2	Khandesh and Bombay Native States Topographical Survey.	8	1	133	1	12	...	54,000	Captain G. Strahan, R. E. ...	16	Depy. Supdt., 2nd grade ...	June 4, 1879.	
									Mr. A. G. Wyatt ...	46	Surveyor, 4th grade.		
									" J. A. Barker ...	85	Asst. Surveyor, 1st grade.		
									" W. F. Pettigrew ...	88	Ditto, 2nd grade.		
									" A. Cooper ...	99	Ditto, 2nd grade.		
									" F. E. Warde ...	119	Ditto, 3rd grade.		
									" G. VanderBeek ...	129	Ditto, 3rd grade.		
									" E. Graham ...	141	Ditto, 4th grade.		
									" C. George ...	161	Proby. ditto, 4th grade.		
5	Sehore, Agar, Indore, Bhopawar, Agencies of Central India Agency, Topographical Survey.	5	...	140	1	8	...	54,000	Captain J. R. Wilmer, S. C. (in charge).	47	Asst. Supdt., 2nd grade, offg. in 1st grade.	Sept. 1874.	
									Mr. D. Atkinson ...	21	Surveyor, 2nd grade.		
									" C. F. Hamer ...	56	Ditto, 4th grade.		
									" E. A. Wainright ...	83	Asst. Surveyor, 1st grade.		
									" H. T. Kitchen ...	98	Ditto, 2nd grade.		
									" W. H. Lilley ...	102	Ditto, 2nd grade.		
									" A. Kitchen ...	131	Ditto, 3rd grade.		
									" G. R. Copping ...	143	Ditto, 4th grade.		

Disposition List of the Officers of the Survey of India as it stood on the 1st July 1879 — continued.

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.
		Sub-Surveyors.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Burkundazes.	Apothecary.	
		No.	No.	No.	No.	No.	No.	
6	Négá Hills on the Eastern Frontier, Assam; Topographical Survey.	6	1	137	1	9	...	Rs. 68,000
7	Meywar, Marwar, Godwar, Shabpura, Mhairwara and Ajmere, in the Rajputana Agency, and at Simla; Topographical Survey.	6	2	128	1	18	...	60,000
8	Mysore Topographical Survey	5	...	100	...	23	...	72,000
9	Mysore Topographical Survey	5	1	100	1	23	...	

Officer in charge, Surveyors and Assistant Surveyors.	Number in General Lists.	Rank and Grade.	Date of assuming charge.	REMARKS.
Major W. F. Badgley, s. c. (in charge). Mr. M. J. Ogle " A. W. Chennell " J. McCay " D. Campbell	27 54 71 123 153	Asst. Supdt., 1st grade, Offg. Deputy. Supdt., 3rd grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade. Assistant Surveyor, 3rd grade. Ditto, 4th grade.	Aug. 11, 1873.	
Lieut.-Col. G. C. Depree, s. c. (in charge). Mr. G. A. McGill " E. S. P. Atkinson " J. H. Wilson " W. C. G. Barkley	5 12 45 100 127	Depy. Supdt., 1st grade Surveyor, 2nd grade. Ditto, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 3rd grade.	Nov. 1, 1877.	
Major H. R. Thuillier, r. e. (in charge). Captain J. R. McCullagh, r. e. ... Mr. R. W. Chew " A. James " F. Kitchen " W. Stotesbury " W. W. McNair " G. L. Fleming " G. A. Knight	7 46 24 72 75 76 96 142 144	Depy. Supdt., 2nd grade Asst. Supdt., 2nd grade, Offg. in 1st grade Surveyor, 2nd grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 1st grade. Ditto, 2nd grade. Ditto, 4th grade. Ditto, 4th grade.	Nov. 5, 1877.	
Major H. R. Thuillier, r. e. (in charge). Mr. H. E. T. Keelan " L. J. Pocock " Hugh Todd " J. M. Kennedy	7 27 55 84 167	Depy. Supdt., 2nd grade Surveyor, 3rd grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade. Ditto, 4th grade.	April 11, 1877	Party formed 1st October 1876 from members of the G. T. Survey.

Disposition List of the Officers of the Survey of India as it stood on the 1st July 1879—continued.

Number of Party. Revenue Branch.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.	Officers in charge, Surveyors and Assistant Surveyors.	Number in General Lists.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
		Sub-Surveyors, &c.	Writers.	Levelers.	Chainmen or Measurers.	Hospital Assist- ant.	Burkundazes.						
1	Dera Ismail Khan and Rawal Pindi Districts [Mouzawar Survey], Punjab. Recess quarters at Murree.	No. 30	No. ...	No. ...	No. 200	No. 1	No. 15	Rs. ...	Captain H. S. Smith, s. c., M. A., L. L. B. Mr. G. Housden ... " W. S. Buttress ... " A. J. Gibson ... " G. B. Scott ... " R. Todd ... " P. A. Peters ... " J. C. Kelly ...	30 4 36 44 52 65 146 162	Supdt., 1st grade Surveyor, 1st grade. Ditto, 4th grade. Ditto, 4th grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 4th grade. Proby. Ditto, 4th grade.	Oct. 27, 1878	
2	Sirsa and Jhelum Districts [Mouzawar Survey], Punjab Recess quarters at Mussoorie.	30	1	...	200	1	15	...	Major D. Macdonald, s. c. (in charge). Mr. E. Loftie ... " G. H. Blythe ... " F. Grant ... " P. Ford ... " J. Hickie ...	12 3 2 20 66 101	Depty. Supdt., 2nd grade Surveyor, 2nd grade. Ditto, 2nd grade. Ditto, 2nd grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade.	Nov. 19, 1877	
3	Saharanpur and Mazafarnagar Districts [Topog. Survey], North-Western Provinces. Recess quarters at Mussoorie.	30	1	...	200	1	17	...	Major W. H. Wilkins, s. c. (in charge). Mr. E. C. Ryall ... " J. Todd ... " R. C. D. Ewing ... " C. W. Wilson ... " C. W. F. Seyers ...	23 56 67 86 94 78	Depty. Supdt., 3rd grade. Asst. Supdt., 3rd grade. Surveyor, 3rd grade. Asst. Surveyor, 1st grade. Ditto, 3rd grade. Ditto, 3rd grade.	Dec. 1, 1877.	
4	Ghazipur District [Cadastral Survey], North-Western Provinces. Recess quarters at Nynee Tal.	31	...	1	140	1	13	...	Major W. Barron, s. c. (in charge). Mr. W. A. Wilson ... " H. T. Hanby ... " S. O. Madras ... " W. D. Corbett ... " W. D. Corbett ... " L. F. Berkeley ... " W. H. D. Ewing ...	15 43 50 106 110 119 156 160	Depty. Supdt., 3rd grade Surveyor, 3rd grade. Ditto, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Asst. Surveyor, 4th grade. Proby. ditto, 4th grade.	Nov. 12, 1873.	
5	Banda and Mirzapur Districts [Cadastral Survey], North-Western Provinces. Recess quarters at Nynee Tal.	25	...	1	188	1	17	...	Colonel F. C. Anderson, s. c. (in charge). E. J. Jackson, Esq. Mr. C. W. Campbell ... " E. Little ... " R. B. Smart, Jr. ... " T. F. Freeman ... " W. M. Kelly ... " E. P. S. Hill ... " P. C. H. Smart ...	1 43 10 33 69 107 130 135 159	Depty. Supdt., 1st grade Asst. Supdt., 2nd grade. Surveyor, 2nd grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Proby. ditto, 4th grade.	Nov. 1, 1871.	
6	Jaunpur District [Cadastral Survey], North-Western Provinces. Recess quarters at Hazaribagh.	30	...	...	200	1	14	...	E. T. S. Johnson, Esq. (in charge) Mr. C. Barrett ... " P. A. G. Cowley ... " J. H. O'Donel ... " J. S. Swinney ... " E. J. Martin ... " A. W. Smart ... " E. H. S. Gasper ...	19 45 30 61 112 97 128 136	Depty. Supdt., 3rd grade Asst. Supdt., 2nd grade. Surveyor, 3rd grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 3rd grade.	Oct. 1, 1872.	

Disposition List of the Officers of the Survey of India as it stood on the 1st July 1879—concluded.

Number of Party. Revenue Branch.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.	Officers in charge, Surveyors and Assistant Surveyors.	Number in General Lists.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
		Sub-Surveyors, &c.	Writers.	Levellers.	Chainmen or Measurers.	Hospital Assist- ant.	Burkundazes.						
		No.	No.	No.	No.	No.	No.						
7	Khorda Estate [Cadastral Survey], Pooree District, Orissa, Bengal. Recess quarters at Cuttack.	31	1	...	180	1	16	...	R. B. Smart, Esq. (in charge) ... 11 Mr. A. D. Smart ... 121 " C. David ... 6 " W. R. Vvall ... 19 " H. Dowman ... 48 " T. H. Dunne ... 80 " G. Campbell ... 68	Depty. Supdt., 2nd grade ... Surveyor, 3rd grade. Ditto, 3rd grade. Ditto, 4th grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 3rd grade.	Nov. 15, 1876.		
8	Cachar District [Cadastral Survey], Assam (late Western Soane). Recess quarters at Shillong.	16	1	...	80	1	11	...	Capt. S. H. Cowan, s. c. (Offg. in charge) ... 38 Mr. G. Rae ... 31 " T. Shaw ... 115 " T. J. Campbell ... 154	Asst. Supdt., 2nd grade ... Surveyor, 3rd grade. Asst. Surveyor, 2nd grade. Ditto, 4th grade.	Nov. 23, 1878.		
9	Cuttack District [Irrigation Survey], Orissa, Bengal ... Recess quarters at Cuttack.	38	1	...	200	1	15	...	H. B. Talbot, Esq. (Offg. in charge) ... 32 Mr. H. R. Littlewood ... 41 " G. W. Jarbo ... 91 " J. R. Scott ... 92 " C. W. J. Ford ... 126 " B. M. Wilson ... 134 " E. B. M. Drew ...	Asst. Supdt., 1st grade ... Surveyor, 3rd grade. Asst. Surveyor, 2nd grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 4th grade.	Nov. 28, 1878.		
10	North Deccan [Topog. Survey] Districts, Ahmednagar, Poona and Konkan, Bombay Presidency. Recess quarters at Poona.	18	1	...	165	1	16	...	Colonel J. Macdonald, s. c. (in charge) ... 2 G. H. Cooke, Esq. ... 48 Mr. A. M. Lawson ... 51 " J. Newland ... 63 " R. R. Dickenson ... 139 " H. Corkery ... 147	Depty. Supdt., 2nd grade. Asst. Supdt., 3rd grade, offg. in 2nd grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade. Ditto, 3rd grade. Ditto, 4th grade.	May 6, 1879.		
11	South Deccan [Topog. Survey] Districts, Sholapur, Satara and Konkan, Bombay Presidency. Recess quarters at Poona.	16	1	...	165	1	12	...	Captain H. S. Hutchinson, s. c. (Offg. in charge) ... 40 Mr. S. M. Smylie ... 35 " J. T. U. Coxen ... 53 " G. C. Swincy ... 108 " W. H. Penrose ... 117 " G. A. Knight ... 144	Asst. Supdt., 2nd grade. Surveyor, 3rd grade. Asst. Surveyor, 2nd grade. Ditto, 2nd grade. Ditto, 2nd grade. Ditto, 4th grade.	Oct. 27, 1878.		
...	Rangoon District [Cadastral Survey], British Burma. Recess quarters at Rangoon.	21	1	...	101	1	7	...	Capt. J. E. Sandeman, s. c. (in charge) ... 26 Mr. S. J. Pemberton ... 41 " G. E. Parker ... 122	Depty. Supdt., 3rd grade. Surveyor, 3rd grade. Asst. Surveyor, 3rd grade.	Dec. 1, 1878.		
...	Barkagarh, Salem and Patia Estates [Cadastral Survey], Bengal and N. W. P. Revision Survey. Recess quarters at Hazareebagh.	8	...	...	75	1	5	...	J. Campbell, (Offg. in charge) ... 28 Mr. D. A. King ... 70	Asst. Supdt., 1st grade, Offg. Depy. Supdt., 3rd grade. Asst. Surveyor, 1st grade.	Jan. 7, 1878.	Half-strength Party.
...	Kamrup District, Lakhiraj Survey, Assam ... Recess quarters at Shillong.	19	1	...	127	...	4	1	W. H. Patterson, Esq. ... 4 Mr. C. S. Kraal ... 150	Surveyor, 1st grade ... Asst. Surveyor, 4th grade.	Dec. 1, 1874.	Half-strength Party.	

Classified List of Officers of the Mysore Revenue

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

Survey Department as it stood on the 1st July 1879.

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.	
.....	500 0 0	.....	Returned from furlough on the 20th March 1879.
.....	1,565 14 0	.....	On furlough to Europe from 20th March 1870.
.....	995 0 0	.....
.....	995 0 0	.....
.....	795 0 0	.....	On furlough to Europe from 1st November 1878.
.....	795 0 0	795 0 0	
.....	795 0 0	795 0 0	
.....	795 0 0	.....	Vide Government of India Notification No. 174, dated 10th April 1879.
.....	795 0 0	.....	Ditto ditto No. 172, ditto.
.....	695 0 0	Recommended, but sanction not received for promotion from 2nd 1st grade.
.....	695 0 0	.....
.....	695 0 0	Services replaced at the disposal of this Department on the 1st Apl. 1879.
.....	695 0 0	.....
.....	460 0 0	
.....	460 0 0	

General List of Officers of the Mysore Revenue

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in the Vernacular.	Age on 15th October.	Rank.	Grade.	Salary.
			Y. M. D.			Rs. A. P.
1	The Hon'ble Col. W. C. Anderson ...	All have passed in the Vernacular.	56 11 5	Survey and Settlement Commissioner	...	500 0 0
2	Major J. P. Grant ...		41 3 0	Superintendent	...	1,340 14 0
3	" J. W. M. Anderson ...		41 8 10	Deputy Superintendent	...	860 0 0
4	Captain J. Rutherford ...		37 5 22	Offg. Deputy Superintendent	...	860 0 0
6	Mr. E. H. Butcher ...		43 0 2	Assistant Superintendent	...	860 0 0
6	Captain M. F. Coussmaker ...		36 1 20	Ditto	...	860 0 0
7	Mr. J. P. Barker ...		31 9 16	Ditto	...	860 0 0
8	" G. F. Meiklejohn ...		30 6 8	Ditto	...	860 0 0
9	" W. E. A. James ...		37 0 25	Ditto	...	860 0 0
10	" F. B. Clerk ...		34 10 13	Ditto	...	860 0 0
11	Captain J. B. Lawrence ...		37 8 3	Ditto	...	860 0 0
12	" A. H. Macintire ...		31 4 11	Ditto	...	860 0 0
13	" D. Cowie ...		38 6 15	Ditto	...	860 0 0
14	" A. McCally ...		35 7 24	Ditto	...	860 0 0
15	" R. L. Price ...		36 6 20	Ditto	...	860 0 0
16	Major G. Mackenzie ...		37 11 28	Ditto	...	355 0 0
17	Mr. A. G. Hudson ...		21 2 2	Ditto	...	355 0 0
18	" E. W. Laseron ...		35 2 7	Ditto	...	355 0 0

Survey Department on the 1st July 1879.

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.
		Y. M. D.		
Sept. 28, 1863	Sept. 28, 1863	...	Survey and Settlement Commissioner.	
Nov. 1, 1863	Jan. 15, 1868	...	Superintendent	Returned from furlough on the 20th March 1879.
Nov. 27, 1863	Nov. 1, 1869	...	Deputy Superintendent.	On furlough to Europe from 20th March 1870.
Feb. 1, 1865	July 8, 1877	...	Offg. Deputy Superintendent.	
Oct. 2, 1865	Mar. 26, 1876	13 8 29	Assistant Superintendent.	
Dec. 24, 1865	Feb. 5, 1879	...	Ditto	Vide Government of India Notification No. 174, dated 10th April 1879.
Dec. 22, 1866	Dec. 5, 1878	9 9 2	Ditto.	
Nov. 30, 1867	June 1, 1874	8 5 23	Ditto.	
Dec. 1, 1867	June 8, 1876	10 1 9	Ditto	Recommended, but sanction not received for promotion from 2nd to 1st grade.
Jan. 16, 1868	Nov. 26, 1875	11 6 15	Ditto.	Services replaced at the disposal of this Department on the 1st April 1879.
Jan. 15, 1869	Mar. 10, 1876	...	Ditto.	
Dec. 6, 1869	Jan. 8, 1879	...	Ditto	
Dec. 3, 1870	Dec. 2, 1874	...	Ditto	Vide Government of India Notification No. 172, dated 10th April 1879.
Jan. 18, 1872	May 1, 1878	...	Ditto.	
Nov. 1, 1872	Aug. 25, 1878	...	Ditto.	
Oct. 31, 1873	Nov. 1, 1873	...	Ditto.	
Nov. 23, 1876	Oct. 25, 1877	...	Ditto.	
March 22, 1877	May 24, 1878	10 2 0	Ditto.	

* Applies only to officers who are under the Unconvenanted Civil Service Rules. 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 July 1879.

Number of Party.	Where employed.	STRENGTH OF SUBORDINATE ESTABLISHMENTS IN ALL GRADES.						Annual Cost of Party from 1st July 1878 to 30th June 1879.
		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 and Bombay Province ...	...	1	1	...	...	2	11,794
2	Mysore Province ...	...	2	68	...	...	27	39,883
3	Ditto ...	...	3	9	...	...	4	19,041
	TOTAL ...	1	6	78	...	...	27	70,718
<i>Measuring Establishments.</i>								
4	Kolar District ...	23	...	2	4	...	2	11,262
5	Hassan ditto ...	20	...	2	3	...	2	15,630
6	Bangalore and Kolar ditto ...	22	...	3	5	...	2	15,150
7	Kolar ditto ...	19	...	2	2	...	2	15,910
8	Hassan ditto ...	19	...	3	3	...	2	17,938
9	Tumkur ditto ...	27	...	2	5	...	2	16,318
10	Hassan ditto ...	11	...	2	4	...	2	9,303
11	Tumkur ditto ...	15	...	2	5	...	2	14,143
12	Bangalore and Kolar ditto ...	22	...	2	7	...	2	11,467
13	Ditto ditto ...	...	...	...	...	...	...	8,340
	TOTAL ...	178	...	20	38	...	18	1,35,551
<i>Classing Establishments.</i>								
14	Tumkur District ...	11	...	1	4	...	2	10,497
15	Kadur and Tumkur... ..	10	...	1	6	...	2	14,739
16	Bangalore and Kolar District ...	10	...	1	4	...	2	21,834
	TOTAL ...	31	...	3	14	...	6	47,070
	GRAND TOTAL ...	210	6	101	52	27	38	2,53,339

Officer in charge.	Number in General Lists.	Rank and Grade.	Date of assuming charge.	REMARKS.
10	11	12	13	14
The Hon'ble Col. W. C. Anderson	1	Survey and Settlement Commissioner	Sept. 28, 1863.	
Major J. P. Grant	2	Superintendent	Jan. 15, 1868.	
Captain J. Rutherford	4	Offg. Deputy Superintendent	July 8, 1877.	
Mr. J. P. Barker	A. ... 7	Assistant Supdt., 1st grade	Aug. 18, 1878.	
Captain R. L. Price	B. ... 15	Ditto, 1st do.	April 27, 1879.	
Mr. F. B. Clerk	D. ... 10	Ditto, 2nd do.	Nov. 26, 1869.	
Captain A. McCally	E. ... 14	Ditto, 2nd do.	May 2, 1878.	
" R. L. Price	G. ... 15	Ditto, 1st do.	Sept. 10, 1875.	
Mr. E. W. Laseron	H. ... 18	Ditto, 4th do.	Jan. 20, 1879.	
Captain A. H. Macintire	I. ... 12	Ditto, 1st do.	Mar. 11, 1879.	
Mr. W. E. A. James	K. ... 9	Ditto, 2nd do.	April 4, 1879.	
Mr. A. G. Hudson	L. ... 17	Ditto, 4th do.	Jan. 1, 1878.	
Captain D. Cowie	... 13	Ditto, 2nd do.	Jan. 1, 1878.	Gave over charge of B Establishment to Captain Price, and proceeded on Medical certificate on 24th May 1879.
Captain M. F. Coussmaker	C. ... 6	Assistant Supdt., 1st grade	Jan. 27, 1879.	
Mr. E. H. Butcher	E. ... 5	Ditto, 1st do.	Jan. 26, 1867.	
Mr. G. F. Meiklejohn	M. ... 8	Ditto, 2nd do.	Jan. 12, 1879.	

Classified List of Officers of the Coorg Survey

No. of Officers in each grade.	NAMES.	Substantive Appointment.	Duty on which at present employed.
1	2	3	4
1	Lieutenant-Colonel A. DeC. Scott, v. c.	Superintendent, Madras Survey	Supervision of Coorg Survey
2	Mr. Joseph Dring	Sub-Assistant	Trigonometrical Survey

Department as it stood on the 1st July 1879.

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.	Rs. A. P.	Rs. A. P.	
.....	200 0 0*	.....	* Monthly allowance for Coorg Survey supervision.
.....	175 0 0	.....

General List of Officers of the Coorg Survey Department on the 1st July 1879.

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in the Vernacular.	Age on the 15th March or the 15th October.	Rank.	Grade.	Salary.
	Nil.		Y. M. D.			Rs. A. P.

8	9	10	11	12
Date of first appointment to the Department.	Date of appointment to the present grade.	Period of service counting for Pension.	Present Post.	REMARKS.
Nil.		Y. M. D.		

Disposition List of Officers of the Coorg Survey Department on the 1st July 1879.

Number of Party.	Where employed.	STRENGTH OF SUBORDINATES.							Annual Cost of the Party from 1st April 1879 to 31st March 1879.
		Sub-Assistants.	Head and Deputy Surveyors.	English Clerks.	Karboons.	Computers.	Mappers or Draftsmen.	Peons, &c.	
1	2	3	4	5	6	7	8	9	10
		No.	No.	No.	No.	No.	No.	No.	Rs. A. P.
	In the Coorg Province and Central Survey Office, Madras	...	4	...	...	3	3	11	29,665 11 9
	On leave at Madras	1	...	...	...	...	...	...	.....
	TOTAL	1	4	...	...	3	3	11	29,665 11 9

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
11	12	13	14	15
Lieutenant-Colonel A. De. C. Scott, R. E.	...	Superintendent, Revenue Survey	Feb. 13, 1877	* Exclusive of Rs. 23-13-4 adjusted for instruments, &c.
Mr. J. Dring	...	Sub-Assistant, Trigonometrical Survey.		

Classified List of Officers of the Marine Survey of India, as it stood on the 1st July 1879.

No. sanctioned. No. existing in each grade.	NAMES.	Substantive Appointment.	Survey Party to which at present attached.	Present Pay.	REMARKS.
1	Commander A. Dundas Taylor, I.N., F.R.G.S.† ...	Superintendent ...	... ..	Rs. A. P. 1,800 0 0	
...	<i>Deputy Superintendents.</i>				
1	Navg. Lieut. F. W. Jarrad, B.N., F.R.A.S., F.R.G.S.†† ...	Depy. Supdt., 2nd grade.	In charge of No. 1 Party ...	850 0 0	Offg. Depy. Supdt., 1st grade, from 20th September 1879.
2	Mr. R. C. Carrington, F.R.A.S., F.R.S. L.A.I.C.E.‡ ...	Supdt., Compiling and Drawing Branch.	... ..	*	Offg. Depy. Supdt., 2nd grade. * Receives an allowance of Rs. 200 a month. Is in charge of the Office, Marine Survey of India, during the absence of the Superintendent of Marine Surveys on inspection tours.
...	<i>Assistant Superintendents, 1st Grade.</i>				
1	Navg. Lieut. E. W. Petley, B.N.††	Asst. Supdt., 1st grade	No. 1 Party ...	550 0 0	
2	Vacant	Ditto	... ..	550 0 0	
3	Ditto	Ditto	... ..	550 0 0	
...	<i>Assistant Superintendents, 2nd Grade.</i>				
1	Navg. Lieut. T. C. Pascoe, B.N.††	Asst. Supdt., 2nd grade	No. 1 Party ...	400 0 0	
2	Lieut. W. H. Coombs, B.N.†† ...	Ditto ...	In charge of No. 2 Party ...	400 0 0	
3	Mr. P. J. Falley§	Ditto ...	No. 1 Party ...	375 0 0	
4	Vacant	Ditto.	... ..	
...	<i>Assistant Superintendents, 3rd Grade.</i>				
1	Mr. W. H. W. Searley§ ...	Offg. Asst. Supdt., 3rd grade.	No. 2 Party ...	150 0 0	
2	Vacant	Ditto	... ..	200 0 0	
...	<i>Executive Officers.</i>				
1	Vacant	Executive Officer ...	... ..	300 0 0	} Fixed salaries.
2	Ditto	Ditto ...	... ..	225 0 0	
3	Ditto	Ditto ...	... ..	150 0 0	
...	<i>Medical Officer and Naturalist.</i>				
1	Surgeon J. Armstrong, D.A., F.L.S. (Bengal Medical Staff)†† ...	Medical Officer and Naturalist.	No. 1 Party ...	600 0 0	
...	<i>Supdt., Compiling and Drawing Branch.</i>				
1	Mr. R. C. Carrington, F.R.A.S., F.R.S.L., A.I.C.E.‡	Supdt., Compiling and Drawing Branch.	... ..	850 0 0	Receives an allowance of Rs. 200 a month for officiating as Deputy Superintendent of Marine Surveys, 2nd grade.

† Receives Rs. 5 a day while absent from Calcutta on Surveying duties.
 ‡ Receives Rs. 3 a day, house-rent, while on shore in Calcutta.
 § Receives Rs. 30 per mensem, conveyance allowance, when employed on shore attending Office, Calcutta.

General List of Officers of the Marine

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			Rs. A. P.
1	Commander A. Dundas Taylor, I.N., F.B.G.S.	...	53 10 1	Superintendent of Marine Surveys	...	1,800 0 0
2	Navg. Lieut. F. W. Jarrad, R.N., F.B.A.S., F.B.G.S.	Hindustani L. S.	35 3 20	Offg. Deputy Superintendent	1st grade ...	850 0 0
3	Mr. R. C. Carrington, F.B.A.S., F.B.S.L., A.I.C.E.	Hindustani L. S.	41 0 0	Offg. Deputy Superintendent	2nd grade ...	...
4	Navg. Lieut. E. W. Petley, R.N.	...	29 1 8	Assistant Superintendent	1st grade ...	550 0 0
5	Vacant	...	...	Ditto	Ditto ...	550 0 0
6	Ditto	...	...	Ditto	Ditto ...	550 0 0
7	Navg. Lieut. T. C. Pascoe, R.N.	...	32 0 4	Ditto	2nd grade ...	400 0 0
8	Lieut. W. H. Coombs, R.N.	Hindustani L. S.	28 3 6	Ditto	Ditto ...	400 0 0
9	Mr. P. J. Falle	...	31 6 22	Ditto	Ditto ...	375 0 0
10	Vacant	...	...	Ditto	Ditto ...	300 0 0
11	Mr. W. H. W. Searle	Hindustani H. S.	22 7 0	Offg. Ditto	3rd grade ...	150 0 0
12	Vacant	...	...	Ditto	Ditto ...	200 0 0
13	Ditto	...	...	Executive Officer	...	300 0 0
14	Ditto	...	...	Ditto	...	225 0 0
15	Ditto	...	...	Ditto	...	150 0 0
1	Surgeon J. Armstrong, B.A., F.L.S. (Bengal Medical Staff)†*	Hindustani L. S.	32 8 5	Medical Officer and Naturalist	...	600 0 0
1	Mr. R. C. Carrington, F.B.A.S., F.B.S.L., A.I.C.E.	Hindustani L. S.	41 0 0	Supdt., Compiling and Drawing Branch.	...	850 0 0

Disposition List of Officers of the Marine

Names of Surveying Vessels.	Where employed.	STRENGTH OF CREW.			Cost of Party from 1st Oct. 1878 to 31st Mar. 1879, inclusive.
		Engineer.	Tide Watchers.	Stoker, Serang, Leadsman, &c.	
Steam Cutter "Girdlestone," No. 1 Party	Calcutta—Head-quarters	...	...	...	Re. A. P. ...
	West Coast of India	1	2	15	3,551 0 0
Steam Cutter "Greenwich," No. 2 Party	Beypore	1	2	15	3,806 6 0

Survey of India on the 1st July 1879.

8	9	10	11	12
Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension.	Present Post.	REMARKS.
		Y. M. D.		
July 27, 1874	July 27, 1874	4 11 3	Superintendent of Marine Surveys.	
Nov. 19, 1874	Sept. 25, 1878	14 10 11†	Offg. Deputy Superintendent, 1st grade.	
Dec. 26, 1874	June 11, 1878	20 3 0	Ditto, 2nd grade	* Receives an allowance of Rs. 200 a month. Is in charge of the Office, Marine Survey of India, during the absence of the Superintendent of Marine Surveys on inspection tours.
Nov. 19, 1874	Sept. 25, 1878	2 11 23††	Asst. Superintendent, 1st grade.	† Counts in addition about 4 months acting time as Navigating Lieutenant.
.....	.....	...	Ditto.	
.....	.....	...	Ditto.	
Oct. 6, 1876	Oct. 6, 1876	5 4 4†	Asst. Superintendent, 2nd grade.	
Oct. 6, 1876	Oct. 6, 1876	4 3 19†	Ditto.	
Nov. 1, 1874	April 2, 1876	10 6 21	Ditto.	
.....	.....	...	Ditto.	
Mar. 5, 1879	Mar. 5, 1879	1 7 0	Offg. Assistant Superintendent, 3rd grade.	
.....	.....	...	Ditto.	
.....	.....	...	Executive Officer.	
.....	.....	...	Ditto	
.....	.....	...	Ditto	
Jan. 24, 1875	Jan. 24, 1875	5 3 3	Medical Officer and Naturalist.	
Dec. 26, 1874	Dec. 26, 1874	20 3 0§	Superintendent, Compiling and Drawing Branch.*	* Is also Officiating Deputy Superintendent of Marine Surveys, 2nd grade, and receives an allowance of Rs. 200 a month. Is in charge of the Office, Marine Survey of India, during the absence of the Superintendent of Marine Surveys on inspection tours.

Survey of India on the 1st July 1879.

Officer in charge and Assistant Superintendents.	Number in General List.	Rank and Grade.	REMARKS.
Commander A. Dundas Taylor, I.N., F.B.G.S.	1	Superintendent of Marine Surveys.	
Mr. R. C. Carrington, F.B.A.S., F.B.S.L., A.I.C.E.	3	Offg. Deputy Superintendent, 2nd grade	Is in charge of the Office, Marine Survey of India, during the absence of the Superintendent of Marine Surveys on inspection tours.
Navg. Lieut. F. W. Jarrad, R.N., F.B.A.S., F.B.G.S.†*	2	Offg. Deputy Superintendent, 1st grade...	Is also Superintendent of the Compiling and Drawing Branch of the Marine Survey Department.
Navg. Lieut. E. W. Petley, R.N.	4	Asst. Superintendent, 1st grade.	In charge of Survey Party 1.
Navg. Lieut. T. C. Pascoe, R.N.	7	Ditto ditto, 2nd grade.	
Mr. P. J. Falle	9	Ditto.	
Surgeon J. Armstrong, B.A., F.L.S. (Bengal Medical Staff)	1	Medical Officer and Naturalist.	
Lieutenant W. H. Coombs, R.N.	8	Asst. Superintendent, 2nd grade.	Is in temporary charge of No. 2 Survey Party.
Mr. W. H. W. Searle	11	Offg. Asst. Superintendent, 3rd grade.	

† Service in Royal Navy.
§ Inclusive of service in the Hydrographic Office, Admiralty, London.

Classified List of the Officers of the Geological

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. ... <i>1st Grade, Rs. 700, rising to Rs. 1,000.</i>	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. ... <i>2nd Grade, Rs. 500, rising to Rs. 700.</i>	Assistant, Geological Survey ...	On furlough ...
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	V. Ball, A. M., F. G. S. ...	Ditto ...	Ditto ...
6	F. Fedden, A. R. S. M., F. G. S. ... <i>3rd Grade, Rs. 350, rising to Rs. 500.</i>	Ditto ...	Kattywar ...
1	C. A. Hackett ...	Assistant, Geological Survey ...	Rajputana ...
2	R. Lydekker, A. B. ...	Ditto ...	Himalaya ...
3	C. L. Griesbach ...	Ditto ...	Ditto ...
3	3 Vacancies ...	Ditto ...	Ditto ...
	<i>Separately Graded.</i>		
	O. Feistmantel, M. D. ...	Palæontologist, Geological Survey ...	Office ...
	<i>Non-graded Officers.</i>		
	Vacant ...	Mining Geologist ...	
1	J. Schaumburg ...	Artist ...	Office ...
2	W. R. Bion ...	Registrar ...	Ditto ...
3	Kissen Singh ...	Sub-Assistant, Geological Survey ...	With Mr. Griesbach ...
4	Hira Lall ...	Ditto ...	Office ...

Survey of India on the 1st July 1879.

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	
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	Acting in 1st Grade, vice Mr. R. B. Foote.
700	0 0	130 & 150	0 0	.....	.....	980	0 0	Acting Curator.
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	Acting in 2nd Grade, vice Mr. Theo. Hughes.
500	0 0	130	0 0	.....	.....	630	0 0	Do. do. Mr. V. Ball.
350	0 0	130	0 0	.....	.....	480	0 0	
600	0 0	130	0 0	.....	.....	730	0 0	
375	0 0	.....	.....	.....	.....	375	0 0	
240	0 0	.....	.....	.....	.....	240	0 0	
150	0 0	.....	.....	.....	.....	150	0 0	
150	0 0	.....	.....	.....	.....	150	0 0	

General List of the Officers of the Geological

Serial Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			Rs.
1	W. Theobald ...	...	50 2 14	Depy. Supdt. for Bengal ...	1st grade ...	1,100
2	H. B. Medicott, A. M., F. R. S., F. G. S. ...	...	49 10 29	Supdt., Geological Survey ...	Separately graded.	1,800
3	W. T. Blanford, A. R. S. M., F. R. S., F. G. S. ...	...	46 8 25	Senior Depy. Supdt. for Bombay ...	1st grade ...	1,400
4	William King, Jr., A. B., F. G. S. ...	...	45 11 16	Depy. Supdt. for Madras ...	Ditto ...	1,100
5	R. B. Foote, F. G. S. ...	...	44 9 9	Asst., Geological Survey ...	Ditto ...	1,000
6	F. R. Mallet, F. G. S. ...	Oct. 5, 1868	38 4 19	Ditto ...	2nd grade ...	700
7	F. Fedden, A. R. S. M., F. G. S. ...	Oct. 26, 1869	40 3 10	Ditto ...	Ditto ...	500
8	C. A. Hackett ...	Oct. 5, 1868	45 11 20	Ditto ...	Ditto ...	700
9	T. W. H. Hughes, A. R. S. M., F. G. S. ...	Aug. 3, 1868	35 10 30	Ditto ...	2nd grade ...	700
10	A. B. Wynne, F. G. S. ...	Nov. 9, 1868	43 8 17	Ditto ...	Ditto ...	700
11	V. Ball, A. M., F. G. S. ...	Oct. 1, 1867	35 11 18	Ditto ...	Ditto ...	500
12	R. Lydekker, A. B. ...	Apr. 5, 1875	29 11 7	Ditto ...	3rd grade ...	600
13	O. Feistmantel, M. D. ...	Oct. 4, 1875	30 7 10	Palæontologist ...	Separately graded.	350
14	C. L. Griesbach ...	...	31 6 20	Asst., Geological Survey ...	3rd grade ...	...
	<i>Non-graded Officers.</i>					
	Vacant ...	...	...	Mining Geologist ...	No grade.	375
1	J. Schaumburg ...	...	39 11 30	Artist ...	Ditto ...	240
2	W. R. Bion ...	...	27 0 15	Registrar ...	Ditto ...	150
3	Kissen Singh ...	...	29 4 6	Sub-Assst., Geological Survey ...	Ditto ...	150
4	Hira Lall ...	...	27 11 1	Ditto ...	Ditto ...	...

Survey of India on the 1st July 1879.

Date of first appointment to the Department.	Date of appointment to present grade or rank.	Period of service counting for pension.	Present Post.	REMARKS.
Nov. —, 1848	Apr. 1, 1876	30* 8 0	Sub-Himalaya ...	
Mar. 24, 1864	Ditto ...	25* 3 8	Office ...	
Oct. 1, 1855	Ditto ...	23* 3 9	Ditto ...	
Mar. 4, 1857	Apr. 21, 1875	22* 3 8	Godaveri District ...	
Sept. 28, 1858	Apr. 1, 1876	20* 9 3	On furlough ...	
Feb. 12, 1859	May 1, 1872	20* 4 17	Office ...	
Oct. 1, 1860	Mar. 24, 1878	16* 0 16	Kattywar ...	
Nov. 15, 1861	May 1, 1866	16 4 16	Rajputana ...	
Oct.* 16, 1862	Apr. 21, 1875	13* 11 8	On furlough ...	
Oct.* 16, 1862	Mar. 31, 1869	14* 0 23	Upper Punjab ...	
Oct. 29, 1864	Apr. 1, 1876	13* 11 3	On furlough ...	
Nov.* 5, 1874	Nov. 26, 1874	4* 7 26	Himalaya ...	
Mar. 25, 1875	Mar. 10, 1877	4 4 7	Office ...	
Sept.* 26, 1878	Sept. 26, 1878	0* 9 5	Himalaya ...	
Apr. 12, 1869	July 7, 1874	10 2 9	Office.	
Dec. 12, 1870	Dec. 31, 1878	4 3 0	Ditto.	
Jan. 7, 1874	Apr. 1, 1879	5 5 25	With Mr. Griesbach.	
Ditto ...	Ditto ...	5 5 25	Office.	

* The graded officers of the Geological Survey have been allowed the same privileges in regard to leave and pension recently conceded to certain officers of the Public Works and Forest Departments.—See Sections 20, 21, 53 and 59 of the Civil Pension Code.

Disposition List of the Officers of the Geological Survey of India on the 1st July 1879.

NAMES OF OFFICERS.	Where employed.	No. in General List.	Rank and Grade.	Date of assuming charge.	STRENGTH OF SUBORDINATE ESTABLISHMENT OF ALL GRADES.								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.		Office Establishment.					
					No.	No.	No.	No.	No.	No.	No.	No.				
H. B. Medicott, A. M., F. R. S., F. G. S.	Office	2	Supdt., Geological Survey.	Mar. 24, 1854	4	5	3	2	4	10	20	1876-77. Office and Satpura 1877-78. Office 1878-79. Ditto	Salary and allowance ... 24,000 0 0 Extra travelling allowance ... 193 12 0	24,193 12 0		
W. T. Blanford, A. B. S. M., F. R. S., F. G. S.	Ditto	3	Senior Depy. Supdt., Bombay.	Oct. 1, 1855								1876-77. Office and Sind 1877-78. Office 1878-79. Ditto	Salary and allowance ... 18,780 0 0 Extra travelling do. ...	18,780 0 0		
William Theobald	Sub-Himalaya	1	Depy. Supdt., Bengal.	Nov. — 1848								1876-77. Sub-Himalaya 1877-78. Ditto 1878-79. Ditto	Salary and allowance ... 15,060 0 0 Extra travelling allowance ... 589 3 0	15,649 3 0		
William King, Jr., A. D., F. G. S.	Godaveri District	4	Dy. Supdt., Madras	Mar. 4, 1857	4 first grade officers.								1876-77. Godaveri District 1877-78. Ditto 1878-79. Ditto	Salary and allowance ... 15,060 0 0 Extra travelling do. ... 1,445 4 0 Hospital Assistant's pay, &c. ... 954 0 0	17,459 4 0	
R. B. Foote, F. G. S.	On furlough	5	Asst., Geological Survey.	Sept. 28, 1858	5 second grade officers.								1876-77. Kistna and Godaveri 1877-78. Godaveri & Trichinopoly 1878-79. Trichinopoly & Madura	Salary and allowance ... 13,792 8 0 Extra travelling allowance ... 822 8 0 Hospital Assistant's pay, &c. ... 568 5 9	15,183 5 9	
A. B. Wynne, F. G. S.	Upper Punjab	10	Asst., Geological Survey.	Nov. 13, 1862	5 second grade officers.								1876-77. Rawalpindi 1877-78. Upper Punjab 1878-79. Ditto	Salary and allowance ... 10,170 0 0 Extra travelling do. ... 691 15 0 Hospital Assistant's pay, &c. ... 484 2 6	11,346 1 6	
F. R. Mallet, F. G. S.	Office	6	Ditto	Feb. 12, 1859	5 second grade officers.								1876-77. Office 1877-78. Ditto and Kyook Phyoo 1878-79. Office	Salary and allowance ... 11,305 2 5 Extra travelling allowance ...	11,305 2 5	
T. W. H. Hughes, A. R. S. M., F. G. S.	On furlough	9	Ditto	Nov. 11, 1862	5 second grade officers.								1876-77. Godaveri & Pranhita Valley 1877-78. Ditto and furlough 1878-79. Furlough	On furlough.		
V. Ball, A. M., F. G. S.	Ditto	11	Ditto	Oct. 29, 1864	5 second grade officers.								1876-77. Bastar and Jaypur 1877-78. Palamow Coal Field 1878-79. Ditto and furlough	Salary and allowance ... 3,390 0 0 Extra travelling do. ... 371 6 0 Hospital Assistant's pay, &c. ... 361 0 0	4,122 6 0	
F. Fedden, A. R. S. M., F. G. S.	Kattywar	7	Ditto	Oct. 1, 1860	5 second grade officers.								1876-77. Sind 1877-78. Kattywar 1878-79. Ditto	Salary and allowance ... 5,662 14 11 Extra travelling allowance ... 693 10 0	6,356 8 11	
C. A. Hacket	Rajputana	8	Asst., Geological Survey.	Nov. 15, 1861	3 third grade officers.								1876-77. Rajputana 1877-78. Ditto 1878-79. Ditto	Salary and allowance ... 10,006 9 9 Extra travelling allowance ... 890 4 6	10,896 14 3	
R. Lydekker, A. D.	Himalaya	12	Ditto	Nov. 26, 1874	3 third grade officers.								1876-77. Himalaya 1877-78. Ditto 1878-79. Office and Himalaya	Salary and allowance ... 7,698 5 4 Extra travelling allowance ... 934 3 0	8,632 8 4	
C. L. Giesbach	Ditto	14	Ditto	Nov. 11, 1878	3 third grade officers.								1878-79. Sirgujah and Himalaya	Salary and allowance ... 1,841 10 8 Extra travelling do. ... 421 0 0 Hospital Assistant's pay, &c. ... 93 5 4	2,356 0 0	
3 Vacancies.																
O. Feistmantel, M. D.	Office	13	Palaeontologist	Mar. 25, 1875	4 non-graded officers.								1876-77. Kurhurbali and Office 1877-78. Office and Satpura 1878-79. Office	Salary and allowance ... 8,265 7 9 Extra travelling allowance ...	8,265 7 9	
J. Schaumburg	Office	1	Artist	April 12, 1869	4 non-graded officers.								1876-77. Office 1877-78. Ditto 1878-79. Ditto	Salary ...	4,172 8 0	
W. R. Bion	Ditto	2	Registrar	Dec. 12, 1870	4 non-graded officers.								1876-77. Office 1877-78. Ditto 1878-79. Ditto	Salary ...	2,620 5 2	
Kissen Singh	With Mr. Griesbach	3	Sub-Asst., Geological Survey.	Jan. 7, 1874	4 non-graded officers.								1876-77. Sub-Himalaya 1877-78. Ditto 1878-79. Office and Himalaya	Salary ... 1,200 0 0 Travelling allowance ... 496 3 9 Chaprasai do. ... 39 1 0	1,735 4 9	
Hira Lall	Office	4	Ditto	Ditto	4 non-graded officers.								1876-77. Sind 1877-78. Satpura and Office 1878-79. Office and Sirgujah	Salary ... 1,200 0 0 Travelling allowance ... 281 10 1 Chaprasai do. ... 28 0 0	1,509 10 1	

* From 1st April 1879 to 31st March 1879.

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