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LIST OF OFFICERS  
IN THE  
SURVEY DEPARTMENTS  
ON THE  
1st JANUARY 1880.

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Classified List of the Officers of the Senior Department

of the Survey of India as it stood on the 1st January 1880.

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.	
<b>ADMINISTRATIVE STAFF.</b>							
1	1	Maj.-Genl. J. T. Walker, c. B., B. E., F. R. S. [G. T. S.]	Survr. Genl. of India	...	1	3,000 0 0	
1	1	Lt.-Col. J. Sconce, s. c., P. H. [Rev.]	Depy. Survr. Genl.	...	1	2,200 0 0	
1	1	Capt. R. V. Riddell, B. E., P. H. [Topogl.]	Asst. Surveyor General	...	1	1,440 0 0	Exclusive of Local allowance Rs. 200. Superintendent, Mathematical Instrument Department, and in charge Lithographic Branch, Head-quarters, Calcutta.
	2	Mr. J. O. N. James [Topogl.]	Ditto	...	2	1,000 0 0	Exclusive of Local allowance, Rs. 200. On furlough from 12 December 1879.—For 2 years.
	3	Major J. Waterhouse, s. c., P. H. [Topogl.]	Offg. ditto	On furlough	3	750 0 0	In charge Engraving and Cartographic Branches, Head-quarters, Calcutta.
		Major S. H. Cowan, s. c., P. H. [Rev.]	Offg. ditto	...			Exclusive of Rs. 100 Presidency allowance. In charge Photographic Branch, Head-quarters, Calcutta.
<b>SENIOR BRANCH.</b>							
<b>DEPUTY SUPERINTENDENTS.</b>							
<b>1ST GRADE.</b>							
4	1	Mr. J. B. N. Hennessey, M. A., F. R. S. [G. T. S.]	Depy. Supdt., 1st grade	In charge Head-quarters Offices, Dehra Dún	1	1,600 0 0	
	2	Col. F. C. Anderson, s. c., P. H. [Rev.]	Ditto	In charge Banda, &c., Districts [Cadastral] Survey, N.-W. P.	2	1,627 14 0	Includes Rs. 27-14-0 Personal allowance.
	3	Lt.-Col. G. C. Deprce, s. c., P. H. [Topogl.]	Ditto	In charge Rajputana Topogl. Survey	3	1,600 0 0	
	4	Maj. H. R. Thuillier, B. E., P. H. [G. T. S.]	Ditto	On furlough	4	...	For 2 years, from 17th November 1879.
<b>2ND GRADE.</b>							
10	1	Lt.-Col. C. T. Haig, B. E. [G. T. S.]	Depy. Supdt., 2nd grade	In charge Guzerat Survey	1	1,600 0 0	Officiating Deputy Superintendent, 1st grade.
	2	Col. J. Macdonald, s. c., P. H. [Rev.]	Ditto	In charge North Deccan Survey, Bombay	2	1,327 14 0	Includes Rs. 27-14-0 Personal allowance.
	3	Maj. J. Herschel, B. E., F. R. S., P. H. [G. T. S.]	Ditto	On duty, Europe	3	...	
	4	Mr. R. B. Smart ... [Rev.]	Ditto	In charge Khorda Estate [Cadastral] Survey, Orissa	4	1,300 0 0	
	5	Lt.-Col. B. R. Branfill, B. C., P. H. [G. T. S.]	Ditto	In charge Madras Party, Bangalore	5	1,300 0 0	
	6	Capt. G. Strahan, B. E., P. H. [Topogl.]	Ditto	In charge Mysore Topogl. Survey	6	1,440 0 0	
	7	Maj. T. T. Carter, B. E., P. H. [G. T. S.]	Ditto	Head-quarters, Dehra	7	1,482 10 0	
	8	Lt.-Col. D. Macdonald, s. c., P. H. [Rev.]	Ditto	In charge Dehra Ismael Khan District Survey, Punjab.	8	1,300 0 0	
	9	Major F. Coddington, s. c., P. H. [Rev.]	Ditto	Deputy Surveyor Genl.'s Office, Calcutta	9	1,300 0 0	Exclusive of Rs. 60 Presidency allowance.
10	1	Lt.-Col. W. M. Campbell, B. E., Passed [G. T. S.]	Ditto	Field Service	10	1,482 10 0	
<b>3RD GRADE.</b>							
12	1	Capt. R. V. Riddell, B. E., P. H. [Topogl.]	Deputy Supdt., 3rd grade	Head-quarters, Calcutta	1	1,440 0 0	Assistant Surveyor General.
	2	" C. Strahan, B. E. [Topogl.]	Ditto	Ditto Dehra	2	1,140 0 0	Bringing up Field Work.
	3	Mr. J. O. N. James [Topogl.]	Ditto	Ditto Calcutta	3	1,000 0 0	Assistant Surveyor General.
	4	Major W. Barrou, s. c., P. H. [Rev.]	Ditto	In charge Ghazipur Dist. [Cadastral] Survey, N.-W. P.	4	1,000 0 0	
		Major H. Trötter, B. E. [G. T. S.]	Ditto	...			Services placed at the disposal of the British Foreign Office.
	5	Lt.-Col. H. C. B. Tanner, Bombay s. c., P. H. [Rev.]	Ditto	...	5	1,000 0 0	On special duty, Gilgit.
	6	Mr. E. T. S. Johnson [Rev.]	Ditto	In charge Jaunpur District [Cadastral] Survey, N.-W. P.	6	1,000 0 0	
	7	Capt. W. J. Heaviside, B. E., P. H. [G. T. S.]	Ditto	In charge Khandesh and Bombay Native States Topogl. Survey	7	1,140 0 0	
	8	Major A. Pullan, s. c., P. H. [G. T. S.]	Ditto	In charge Kattywar and Catch Survey	8	1,000 0 0	
	9	Major D. C. Andrew, s. c., P. H. [Rev.]	Ditto	In charge Bassein District [Cadastral] Survey, British Burma	9	1,000 0 0	Exclusive of Rs. 75 Local allowance.
	10	Major W. H. Wilkins, s. c., P. H. [Rev.]	Ditto	In charge Salarunpur, Survey N.-W. P.	10	1,000 0 0	
	11	Capt. J. E. Sandeman, s. c., P. H. [Rev.]	Ditto	In charge (Hanthawaddy) Dist. [Cadastral] Survey, British Burma	11	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 January 1880—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.	
<b>SENIOR BRANCH—contd.</b>									
<b>ASSISTANT SUPERINTENDENTS.</b>									
<b>1ST GRADE.</b>									
11	...								
1	...	Major W. F. Badgley, s. c., P. H. [Topogl.]	Asst. Supdt., 1st grade	In charge Khasi and Garo Hills Survey	1	1,000	0	0	Officiating Deputy Superintendent, 3rd grade. Exclusive of Rs. 75 Assam Local allowance.
2	...	Capt. T. H. Holdich, R. E., L. S. [Topogl.]	Ditto	On Field Service	2	1,140	0	0	Ditto ditto.
3	...	Mr. J. Campbell ... [Rev.]	Ditto	In temporary charge Khord Estates [Cadastral] Survey, Orissa	3	750	0	0	Exclusive of Rs. 100 Charge allowance.
4	...	Maj. J. Waterhouse, s. c., P. H. [Topogl.]	Ditto	...	4	...	...	...	On Private affairs for 1 year and 91 days, from 12th December 1879.
5	...	Capt. M. W. Rogers, R. E., L. S. [G. T. S.]	Ditto	In charge Northern Bombay Party	5	890	0	0	
6	...	J. Hill, R. E. ... [G. T. S.]	Ditto	...	6	...	...	...	On Medical Certificate.
7	...	H. Lees Smith, s. c., M. A., LL. B., P. H. ... [Rev.]	Ditto	D. I. Khan Dist. Survey, Punjab	7	750	0	0	
8	...	Mr. H. Horst ... [Topogl.]	Ditto	On furlough	8	...	...	...	On furlough for 2 years, from 5th June 1879.
9	...	Mr. W. H. Cole, M. A., H. S. [G. T. S.]	Ditto	Head-quarters Offices, Dehra Dún	9	750	0	0	
10	...	H. B. Talbot, L. S. ... [Rev.]	Ditto	In charge Cuttack Dist. Survey, Orissa	10	750	0	0	Exclusive of Rs. 100 Charge allowance.
11	...	Capt. A. W. Baird, R. E., P. H. [G. T. S.]	Ditto	In charge Tidal and Leveling Operations, Bombay	11	890	0	0	Ditto ditto ditto and of Rs. 100 Deputation allowance.
<b>2ND GRADE.</b>									
11	...								
1	...	Capt. J. R. McCullagh, R. E., L. S. [G. T. S.]	Asst. Supdt., 2nd grade	Mysore Topogl. Survey	1	890	0	0	Offg. Assistant Superintendent, 1st grade.
2	...	Major J. R. Wilmer, s. c., H. S. [Topogl.]	Ditto	In charge Bhopal and Malwa Topogl. Survey	2	750	0	0	Officiating Assistant Superintendent, 1st grade. Exclusive of Rs. 100 Charge allowance.
3	...	Mr. J. McGill ... [G. T. S.]	Ditto	On furlough	3	...	...	...	For 1 year from 4th July 1879.
4	...	Major S. H. Cowan, s. c., P. H. [Rev.]	Ditto	Offg. in charge Photographic Branch, Head-quarters, Calcutta	4	750	0	0	Offg. Assistant Superintendent, 1st grade. Exclusive of Rs. 100 Presidency allowance.
5	...	Capt. E. H. Steel, s. c., H. S. ... [Rev.]	Ditto	In charge Gwalior and Central India Topogl. Survey	5	750	0	0	Ditto ditto. Exclusive of Rs. 100 Charge allowance.
6	...	Major H. S. Hutchinson, s. c., P. H. [Rev.]	Ditto	In charge South Deccan [Topogl.] Survey, Bombay	6	749	1	6	Ditto ditto. Exclusive of Rs. 100 Charge allowance.
7	...	Mr. E. C. Barrett, H. S. ... [Rev.]	Ditto	Bassein Dist. [Cadastral] Survey, British Burma	7	600	0	0	Exclusive of Rs. 75 Burma allowance.
8	...	Capt. R. Beavan, s. c., P. H. ... [Rev.]	Ditto	On Field Service	8	624	1	6	Includes Rs. 24-1-6 Personal allowance.
9	...	Major R. G. Woodthorpe, R. E., L. S. [Topogl.]	Ditto	Ditto	9	740	0	0	
10	...	Mr. E. J. Jackson, L. S. ... [Rev.]	Ditto	Banda Dist. [Cadastral] Survey, N.-W. P.	10	600	0	0	
11	...	Major E. P. Leach, R. E., L. S. [Topogl.]	Ditto	On furlough	11	...	...	...	On Medical Certificate.
<b>3RD GRADE.</b>									
12	...								
1	...	Mr. W. G. Beverley [G. T. S.]	Asst. Supdt., 3rd grade	In charge Burma Party	1	600	0	0	Officiating Assistant Superintendent, 2nd grade. Exclusive of Rs. 100 Charge allowance, and of Rs. 75 Local allowance.
2	...	G. H. Cooke, L. S. ... [Rev.]	Ditto	North Deccan [Topogl.] Survey, Bombay	2	600	0	0	Ditto ditto.
3	...	Lieut. H. J. Harman, R. E., L. S. [G. T. S.]	Ditto	In charge Special Survey operations in and around Darjeeling	3	670	0	0	Ditto ditto. Exclusive of Rs. 100 Charge allowance, and Rs. 75 Local allowance.
4	...	Capt. G. W. Martin, s. c., H. S. [Rev.]	Ditto	On Field Service	4	600	0	0	Ditto ditto.
5	...	Capt. A. J. C. Scott, s. c., H. S. [Rev.]	Ditto	On furlough	5	...	...	...	On m. c., for 2 years, from 21st April 1879.
6	...	Lieut. St. G. C. Gore, R. E. [G. T. S.]	Ditto	On Field Service	6	670	0	0	Officiating Assistant Superintendent, 2nd grade.
7	...	Mr. E. C. Ryall ... [G. T. S.]	Ditto	Saharanpur Dist. Survey, N.-W. P.	7	600	0	0	Ditto ditto ditto.
8	...	Lieut. J. R. Hobday, s. c., H. S. [Topogl.]	Ditto	On furlough	...	...	...	...	On Medical Certificate for 1 year, from 1st December 1879.

Classified List of the Officers of the Junior or Subordinate

Department of the Survey of India as it stood on the 1st January 1880.

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.
<b>JUNIOR BRANCH.</b>							
<b>SURVEYORS.</b>							
<b>1ST GRADE.</b>							
<i>Salary Rs. 500.</i>							
8	...					Rs. A. P.	
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. H. Patterson, L. S. ... [Rev.]	Ditto	On furlough	3	500 0 0	On P. A., for 6 months from 10th July 1879.
4	...	" J. F. Baness ... [Topogl.]	Ditto	Chief Draftsman, Head-quarters, Calcutta	4	600 0 0	
5	...	" A. Chamarett ... [Topogl.]	Ditto	Geographical Examiner, Head-quarters, Calcutta	5	500 0 0	Exclusive of Rs. 45 Presidency house-rent.
6	...	" H. Beverley ... [G. T. S.]	Ditto	In charge, Eastern Frontier Series	6	500 0 0	Exclusive of Rs. 100 Charge allowance and Rs. 50 Burma allowance.
7	...	" J. Peyton ... [G. T. S.]	Ditto	On duty Head-quarters Office, Calcutta	7	500 0 0	Ditto Rs. 45 Presidency house-rent.
8	...	" A. D'Souza ... [G. T. S.]	Ditto	Guzerat Survey	8	500 0 0	
	...	" F. W. Kelly, H. S. ... [Rev.]	Ditto	On duty, Office of Deputy Surveyor Genl, Calcutta		500 0 0	Ditto Rs. 50 Personal allowance.
<b>2ND GRADE.</b>							
<i>Salary Rs. 400.</i>							
12	...						
1	...	Mr. C. W. Campbell ... [Rev.]	Surveyor, 2nd grade	Banda, &c., Districts [Cadastral] Survey, N. W. P.	1	400 0 0	
2	...	" G. A. McGill, L. S. ... [Topogl.]	Ditto	Rajputana Survey	2	400 0 0	
3	...	" D. Atkinson ... [Topogl.]	Ditto	Bhopal and Malwa Topogl. Survey	3	400 0 0	
4	...	" C. J. Neville ... [G. T. S.]	Ditto	Half pay	4	200 0 0	On half-pay list from 3rd November 1879.
5	...	" F. Grant ... [Rev.]	Ditto	Hanthawady District [Cadastral] Survey, British Burma	5	400 0 0	Exclusive of Rs. 50 Burma allowance.
6	...	" L. H. Clarke ... [G. T. S.]	Ditto	On duty at Head-quarters, Dehra Dún	6	400 0 0	
7	...	" W. Todd ... [G. T. S.]	Ditto	Ditto ditto	7	400 0 0	
8	...	" R. W. Chew ... [Topogl.]	Ditto	Mysore Topogl. Survey	8	400 0 0	
9	...	" J. Low ... [G. T. S.]	Ditto	Eastern Frontier Series	9	400 0 0	Exclusive of Rs. 50 Burma allowance.
	...	" W. Sinclair ... [Rev.]	Ditto	Extra Draftsman, Office of Deputy Surveyor General, Calcutta		400 0 0	Exclusive of Rs. 30 Presidency house-rent.
10	...	" C. Wood, L. S. ... [G. T. S.]	Ditto	Computing Office, Head-quarters, Dehra Dún	10	400 0 0	
11	...	" H. E. T. Keelan ... [G. T. S.]	Ditto	On duty at Head Quarters, Calcutta	11	400 0 0	Exclusive of Rs. 30 Presidency house-rent.
<b>3RD GRADE.</b>							
<i>Salary Rs. 350.</i>							
16	...						
1	...	Mr. F. Bell, L. S. ... [G. T. S.]	Surveyor, 3rd grade	Half pay	1	175 0 0	On half-pay list from 1st November 1879.
2	...	" P. A. G. Cowley, L. S. ... [Rev.]	Ditto	Jaunpur District [Cadastral] Survey, N. W. P.	2	350 0 0	
3	...	" G. Atkinson ... [G. T. S.]	Ditto	Drawing Office, Head-quarters, Dehra Dún	3	350 0 0	
4	...	" A. J. Wilson, L. S. ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta	4	350 0 0	Exclusive of Rs. 30 Presidency house-rent.
5	...	" J. A. May ... [Topogl.]	Ditto	On duty, Office of Deputy Surveyor General, Calcutta	5	350 0 0	
6	...	" A. D. Smart ... [Rev.]	Ditto	Half pay	6	175 0 0	Ditto ditto ditto.
7	...	" James Todd ... [Rev.]	Ditto	Saharanpur, &c., Dist. Survey, N. W. P.	7	350 0 0	On half-pay list from 1st January 1880.
8	...	" S. M. Smylie, L. S. ... [Rev.]	Ditto	South Deccan, Bombay	8	350 0 0	
9	...	" F. Adams ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta	9	350 0 0	Exclusive of Rs. 30 Presidency house-rent.
10	...	" J. S. Pemberton, L. S. ... [Rev.]	Ditto	Jaunpore Dist. [Cadastral] Survey, N. W. P.	10	350 0 0	
11	...	" R. D. Farrell ... [Topogl.]	Ditto	On duty at Head-quarters, Calcutta	11	350 0 0	Exclusive of Rs. 30 Presidency house-rent.
12	...	" H. R. Littlewood ... [Rev.]	Ditto	Bassein District [Cadastral] Survey, British Burma	12	350 0 0	Exclusive of Rs. 50 Burma allowance.
13	...	" W. A. Wilson, L. S. ... [Rev.]	Ditto	Ghazipur District [Cadastral], N. W. P.	13	350 0 0	
14	...	" G. B. Scott ... [Rev.]	Ditto	On Field Service	14	350 0 0	Exclusive of Rs. 100 Personal allowance and Rs. 50 Local allowance.
<b>4TH GRADE.</b>							
<i>Salary Rs. 300.</i>							
22	...						
1	...	Mr. W. S. Buttress ... [Rev.]	Surveyor, 4th grade	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.

*Classified List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st January 1880—continued.*

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						Rs. A. P.	
<b>JUNIOR BRANCH—contd.</b>							
<b>SURVEYORS—concl'd.</b>							
<b>4TH GRADE—contd.</b>							
<i>Salary Rs. 300.—contd.</i>							
3		Mr. E. S. P. Atkinson ... [Topogl.]	Surveyor, 4th grade	Rajputana Topogl. Survey	3	300 0 0	
4		" W. R. Vvall ... [Rev.]	Ditto	Khorda Estate [Cadastral] Survey, Orissa	4	300 0 0	
5		" A. M. Lawson, L. s. ... [Rev.]	Ditto	North Deccan Survey, Bombay	5	300 0 0	
6		" A. J. Gibson ... [Rev.]	Ditto	Dera Ismail Khan, &c., Districts Survey, Punjab	6	300 0 0	
7		" M. J. Ogle ... [Topogl.]	Ditto	On Field Service	7	300 0 0	Exclusive of Rs. 50 Local allowance.
8		" A. G. Wyatt ... [Topogl.]	Ditto	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	Tidal and Levelling operations	10	300 0 0	Exclusive of Rs. 50 Deputation allowance.
11		" H. Dowman ... [Rev.]	Ditto	Hanthawaddy District [Cadastral] Survey, British Burma	11	300 0 0	Exclusive of Rs. 50 Burma allowance.
12		" E. Little ... [Rev.]	Ditto	Banda, &c., Districts [Cadastral] Survey, N.-W. P.	12	300 0 0	
13		" H. T. Hanby, L. s. ... [Rev.]	Ditto	Ghazipur District [Cadastral] Survey, 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		" A. Christie, H. s. ... [G. T. S.]	Ditto	Guzerat Survey	15	300 0 0	
16		" W. O'Sullivan ... [G. T. S.]	Ditto	Darjeeling Survey	16	300 0 0	Exclusive of Rs. 50 Local allowance.
17		" N. C. Gwynne ... [G. T. S.]	Ditto	Kattywar and Cutch Survey, Poona	17	300 0 0	
18		" W. C. Price ... [G. T. S.]	Ditto	Bombay Party	18	300 0 0	
19		" C. H. McA. Fee, L. s. ... [G. T. S.]	Ditto	Guzerat Survey	19	300 0 0	
20		" C. F. Hamer ... [Topogl.]	Ditto	Bhopal & Malwa Topogl. Survey	20	300 0 0	
21		" C. A. R. Scanlan ... [Topogl.]	Ditto	Hanthawaddy District [Cadastral] Survey, British Burma	21	300 0 0	Exclusive of Rs. 50 local allowance.
<b>ASSISTANT SURVEYORS.</b>							
<b>1st GRADE.</b>							
<i>Salary Rs. 250.</i>							
23							
1		Mr. J. H. O'Donel ... [Rev.]	Asst. Surveyor, 1st grade	Jaunpur District [Cadastral] Survey, N.-W. P.	1	250 0 0	
2		" A. Chennell ... [Topogl.]	Ditto	Khasi and Garo Hills Topogl. Survey	2	250 0 0	Exclusive of Rs. 40 Assam allowance.
3		" P. Ford, L. s. ... [Rev.]	Ditto	Bassein District [Cadastral] Survey, British Burma	3	250 0 0	Exclusive of Rs. 40 Burma allowance
4		" A. James ... [Topogl.]	Ditto	Mysore Topogl. Survey	4	250 0 0	
5		" T. E. M. Claudius ... [Topogl.]	Ditto	On Field Service	5	250 0 0	Exclusive of Rs. 50 Local house-rent.
6		" T. H. Rendell ... [G. T. S.]	Ditto	Tidal and Leveling Operations	6	250 0 0	Do. do. Deputation allowance.
7		" R. Todd ... [Topogl.]	Ditto	Dera Ismail Khan, &c., Districts, Punjab	7	250 0 0	
8		" C. Tapsell, L. s. ... [Topogl.]	Ditto	Mysore Topogl. Survey	8	250 0 0	
9		" D. A. King ... [Rev.]	Ditto	Hanthawaddy District [Cadastral] Survey, British Burma	9	250 0 0	Exclusive of Rs. Local allowance.
10		" R. B. Smart, Jr., L. s. ... [Rev.]	Ditto	Banda, &c., Districts [Cadastral] Survey, 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 January 1880—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.	
<b>JUNIOR BRANCH—contd.</b>									
<b>ASSISTANT SURVEYORS—contd.</b>									
<b>1ST GRADE—contd.</b>									
<i>Salary Rs. 250—contd.</i>									
14		Mr. E. J. Connor, L. s. ... [G. T. S.]	Asst. Surveyor, 1st grade ...	Tidal and Levelling operations ...	14	250	0	0	
		" J. Connor ... [Rev.]	Ditto ...	Draftsman, Office of Deputy Surveyor General, Calcutta ...		325	0	0	
15		" T. H. Dunne, L. s. ... [Rev.]	Ditto ...	Khorda Estate [Cadastral] Survey, Orissa ...	15	250	0	0	
		" W. J. Lane ... [Rev.]	Ditto ...	Extra Draftsman, Office of Deputy Surveyor General, Calcutta ...		300	0	0	
16		" J. Bond ... [G. T. S.]	Ditto ...	Guzerat Party ...	16	250	0	0	
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 ...	On half-pay ...	18	125	0	0	On half-pay list from 7th December 1879.
19		" J. Newland, L. s. ... [Rev.]	Ditto ...	North Deccan Survey, Bombay ...	19	250	0	0	
20		" J. A. Barker ... [Topogl.]	Ditto ...	Khandesh and Bombay Native States Topogl. Survey ...	20	250	0	0	
21		" E. A. Wainright, L. s. ... [Topogl.]	Ditto ...	Bhopal & Malwa Topogl. Survey ...	21	250	0	0	
22		" R. C. D. Ewing, H. s. ... [Rev.]	Ditto ...	Saharanpur Dist. Survey, N.-W. P. ...	22	250	0	0	
23		" W. J. Cornelius, L. s. ... [Topogl.]	Ditto ...	Gwalior & Central India Topogl. Survey ...	23	250	0	0	
25		<b>2ND GRADE.</b>							
<i>Salary Rs. 200.</i>									
1		Mr. W. W. McNair, L. s. ... [Topogl.]	Asst. Surveyor, 2nd grade ...	On Field service ...	1	200	0	0	Exclusive of Rs. 50 Local allowance.
2		" J. T. U. Coxen ... [Rev.]	Ditto ...	Ditto ...	2	200	0	0	Ditto ditto.
3		" W. F. Pettigrew ... [Topogl.]	Ditto ...	On half-pay ...	3	100	0	0	On half-pay list from 6th October 1879.
4		" G. W. Jarbo, L. s. ... [Rev.]	Ditto ...	Cuttack District Survey, Orissa ...	4	200	0	0	
5		" P. J. W. Doran, L. s. ... [Topogl.]	Ditto ...	Gwalior & Central India Topogl. Survey ...	5	200	0	0	
6		" J. R. Scott, L. s. ... [Rev.]	Ditto ...	Cuttack Dist. Survey, Orissa ...	6	200	0	0	
7		" J. McHakton, L. s. ... [Rev.]	Ditto ...	Bassein Divn. [Cadastral] Survey, British Burma ...	7	200	0	0	
8		" H. T. Kitchen ... [Topogl.]	Ditto ...	Bhopal & Malwa Topogl. Survey ...	8	200	0	0	
9		" A. Cooper ... [Topogl.]	Ditto ...	On half-pay ...	9	100	0	0	On half-pay list from 6th October 1879.
10		" J. H. Wilson, L. s. ... [Topogl.]	Ditto ...	Rajputana Topogl. Survey ...	10	200	0	0	
11		" J. Hickie, L. s. ... [G. T. S.]	Ditto ...	South Deccan Survey, Bombay ...	11	200	0	0	
12		" W. Fielding, L. s. ... [G. T. S.]	Ditto ...	Kattywar and Cutch Survey, Poona ...	12	200	0	0	
13		" S. O. Madras ... [Rev.]	Ditto ...	Ghazipur Dist. [Cadastral] Survey, N.-W. P. ...	13	200	0	0	
14		" G. D. Cusson, L. s. ... [G. T. S.]	Ditto ...	On furlough ...	14	...	...	...	For one year.
15		" T. F. Freeman, L. s. ... [Rev.]	Ditto ...	Banda, &c., Dists. [Cadastral] Survey, N.-W. P. ...	15	200	0	0	
16		" G. C. Swiney ... [Rev.]	Ditto ...	South Deccan Survey, Bombay ...	16	200	0	0	
17		" W. H. Lilley ... [Topogl.]	Ditto ...	Bhopal & Malwa Topogl. Survey ...	17	200	0	0	
18		" J. S. Swiney ... [Rev.]	Ditto ...	Jaunpur Dist. [Cadastral], N.-W. P. ...	18	200	0	0	
19		" G. L. R. Scott, L. s. ... [Rev.]	Ditto ...	On furlough ...	19	...	...	...	For one year, from 10th June 1879.
20		" B. Anderson, L. s. ... [Rev.]	Ditto ...	Ditto ...	20	...	...	...	To New Zealand for one year, from 23rd May 1879.
21		" C. P. Torrens ... [G. T. S.]	Ditto ...	Bombay Party ...	21	200	0	0	
22		" W. Robert ... [Topogl.]	Ditto ...	Darjeeling Survey ...	22	200	0	0	Exclusive of Rs. 40 Local allowance.
23		" T. Shaw, L. s. ... [Rev.]	Ditto ...	Detached on boundary Survey, Assam ...	23	200	0	0	Exclusive of Rs. 40 Assam Local allowance.
24		" W. H. Penrose, L. s. ... [Rev.]	Ditto ...	South Deccan, Survey, Bombay ...	24	200	0	0	
25		" C. W. Wilson ... [Rev.]	Ditto ...	Saharanpur, &c., Dists. Survey, N.-W. P. ...	25	200	0	0	



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.
		<b>JUNIOR BRANCH—contd.</b>					
		<b>ASSISTANT SURVEYORS—contd.</b>					
		<b>3RD GRADE.</b>					
		<i>Salary Rs. 160.</i>					
27	...					Rs. A. P.	
1	...	Mr. C. W. F. Seyers ... [Rev.]	Asst. Surveyor, 3rd grade ...	Saharanpur, &c., Dists., N.-W. P. ...	1	160 0 0	
2	...	„ E. J. Martin ... [Rev.]	Ditto ...	Jaunpur Dist. [Cadastl.] Survey, N.-W. P. ...	2	160 0 0	
3	...	„ W. D. Corbett ... [Rev.]	Ditto ...	Ghazipur Dist. [Cadastl.] Survey, N.-W. P. ...	3	160 0 0	
4	...	„ A. Bryson, H. s. ... [G. T. S.]	Ditto ...	Madras Party ...	4	160 0 0	
5	...	„ F. E. Warde ... [Topogl.]	Ditto ...	Khandesh and Bombay Native States Topogl. Survey ...	5	160 0 0	
6	...	„ C. T. Templeton ... [Topogl.]	Ditto ...	Gwalior and Central India Topogl. Survey ...	6	160 0 0	
7	...	„ J. McCay ... [Topogl.]	Ditto ...	Khasi and Garo Hills Topogl. Survey ...	7	160 0 0	Exclusive of Rs. 40 Assam local allowance.
8	...	„ G. E. Parker ... [Rev.]	Ditto ...	Hanthawaddy Dist. [Cadastl.] Surv., British Burma ...	8	160 0 0	Exclusive of Rs. 40 Burma Local allowance.
9	...	„ G. Campbell ... [Rev.]	Ditto ...	Ditto ditto ...	9	160 0 0	Ditto ditto.
10	...	„ W. C. G. Barckley ... [Topogl.]	Ditto ...	Rajputana Topogl. Survey ...	10	160 0 0	Ditto ditto.
11	...	„ W. Oldham, L. s. (Canarese) [G. T. S.]	Ditto ...	<i>On leave</i> ...	11	...	<i>Private affairs for 6 months from 16th July 1879.</i>
12	...	„ J. O. Hughes ... [G. T. S.]	Ditto ...	Burma Party... ...	12	160 0 0	
13	...	„ G. T. Hall ... [G. T. S.]	Ditto ...	Kattywar and Cutch Survey, Poona ...	13	160 0 0	
14	...	„ G. Vander Beek, L. s. ... [Topogl.]	Ditto ...	Khandesh and Bombay Native States Topogl. Survey ...	14	160 0 0	
15	...	„ J. Murphy ... [Rev.]	Ditto ...	Hanthawaddy Dist. [Cadastral] Survey, British Burma ...	15	160 0 0	Exclusive of Rs. 40 Burma allowance.
16	...	„ C. W. J. Ford ... [Rev.]	Ditto ...	Bassein Dist. [Cadastral] Survey, British Burma... ..	16	160 0 0	Ditto ditto.
17	...	„ A. W. Smart ... [Rev.]	Ditto ...	Khasi and Garo Hills Topogl. Survey ...	17	160 0 0	Exclusive of Rs. 40 Assam local allowance.
18	...	„ W. M. Kelly ... [Rev.]	Ditto ...	North Deccan Survey, Bombay ...	18	160 0 0	Re-appointed in Mr. H. G. Young's position after employment in the Forest Department.
19	...	„ A. Kitchen ... [Topogl.]	Ditto ...	Gwalior and Central India Topogl. Survey ...	19	160 0 0	
20	...	„ P. White ... [Topogl.]	Ditto ...	<i>On half-pay.</i> ...	20	80 0 0	<i>On half-pay list from 18th August 1879.</i>
21	...	„ B. M. Wilson ... [Rev.]	Ditto ...	Hanthawaddy Dist. [Cadastral] Survey, British Burma ...	21	160 0 0	Exclusive of Rs. 40 Burma allowance.
22	...	„ E. P. S. Hill ... [Rev.]	Ditto ...	Banda, &c., Districts [Cadastl.], N.-W. P. ...	22	160 0 0	
23	...	„ R. A. Gibson ... [Topogl.]	Ditto ...	On duty at Head-quarters, Calcutta ...	23	160 0 0	Exclusive of Rs. 20 Presidency house-rent.
24	...	„ E. H. S. Gasper ... [Rev.]	Ditto ...	Jaunpur District [Cadastl.], N.-W. P. ...	24	160 0 0	
25	...	„ R. R. Dickinson, L. s. ... [Rev.]	Ditto ...	North Deccan, Bombay Presidency ...	25	160 0 0	
26	...	„ J. F. Macarthy, L. s. ... [G. T. S.]	Ditto ...	Eastern Frontier Series ...	26	160 0 0	Exclusive of Rs. 40 Burma allowance.
27	...	„ E. Graham, L. s. ... [Topogl.]	Ditto ...	Khandesh and Bombay Native States Topogl. Survey ...	27	160 0 0	
		<b>4TH GRADE.</b>					
		<i>Salary Rs. 120.</i>					
28	...						
1	...	Mr. E. B. M. Drew ...	Asst. Surveyor, 4th grade ...	On half pay ...	1	60 0 0	<i>On half pay from 8th Nov. 1879.</i>
2	...	„ G. L. Fleming ... [Topogl.]	Ditto ...	Mysore Topogl. Survey ...	2	120 0 0	
3	...	„ G. R. Copping, L. s. ... [Topogl.]	Ditto ...	Bhopal and Malwa Topogl. Survey ...	3	120 0 0	
4	...	„ G. A. Knight ... [Topogl.]	Ditto ...	South Deccan Survey, Bombay ...	4	120 0 0	
5	...	„ D. J. Collins ... [G. T. S.]	Ditto ...	Darjeeling Survey ...	5	120 0 0	Exclusive of Rs. 40 local allowance.
6	...	„ P. A. Peters, L. s. ... [Rev.]	Ditto ...	Dera Ismail Khan, &c., Dists. Survey, Punjab ...	6	120 0 0	

*Classified List of Officers of the Junior or Subordinate Department*

*of the Survey of India as it stood on the 1st January 1880—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.	Consolidated Salary.			REMARKS.
				Rs.	A.	P.	
<b>JUNIOR BRANCH—concl'd.</b>							
<b>ASSISTANT SURVEYORS—concl'd.</b>							
<b>4TH GRADE—concl'd.</b>							
<i>Salary Rs. 120.</i>							
7	Mr. H. Corkery L. s. ... [G. T. S.]	Assistant Surveyor, 4th grade	On Field service ...	7	120	0 0	Exclusive of Rs. 50 Local allowance.
8	„ P. F. Prunty ... [G. T. S.]	Ditto ...	Kattywar and Cutch Survey, Poona ...	8	120	0 0	
9	„ J. Keating ... [G. T. S.]	Ditto ...	Ditto ...	9	120	0 0	
10	„ C. S. Kraal, L. s. ... [Rev.]	Ditto ...	Jaunpure District (Cadastral) Survey, N.-W.P. ...	10	120	0 0	
11	„ S. F. Norman ... [G. T. S.]	Ditto ...	Guzerat Survey ...	11	120	0 0	
12	„ C. Norman, L. s. ... [G. T. S.]	Ditto ...	Ditto ...	12	120	0 0	
13	„ D. Campbell ... [Topogl.]	Ditto ...	Khasi and Garo Hills Topogl. Survey ...	13	120	0 0	Exclusive of Rs. 40 Assam allowance.
14	„ T. J. Campbell, L. s. ... [Rev.]	Ditto ...	Detached under the Settlement Officer, Cachar District ...	14			
15	„ R. F. Warwick, L. s. ... [G. T. S.]	Ditto ...	Guzerat Survey ...	15	120	0 0	Ditto ditto.
16	„ L. F. Berkeley, L. s. ... [Rev.]	Ditto ...	Ghazipur District [Cadastr.] Survey, N.-W. P. ...	16	120	0 0	
17	„ J. M. Kennedy ... [G. T. S.]	Ditto ...	Mysore Topogl. Survey ...	17	120	0 0	
18	„ G. P. Tate ... [Topogl.]	Proby. Assistant Surveyor ...	Gwalior and Central India Topogl. Survey ...	18	120	0 0	
19	„ P. C. H. Smart ... [Rev.]	Ditto ...	Banda, &c., Districts [Cadastr.] Survey, N.-W. P. ...	19	120	0 0	
20	„ W. H. D. Ewing ... [Rev.]	Ditto ...	Ghazipur District [Cadastr.] Survey, N.-W. P. ...	20	120	0 0	
21	„ C. George ... [Topogl.]	Ditto ...	Khandesh and Bombay Native States Topogl. Survey ...	21			
22	„ J. C. Kelly, L. s. ... [Rev.]	Ditto ...	Dera Ismael Khan Districts Survey, Panjab ...	22	120	0 0	
23	„ A. George ... [G. T. S.]	Ditto ...	Guzerat Survey ...	23	120	0 0	
24	„ R. W. Senior ... [G. T. S.]	Ditto ...	Rajputana Topogl. Survey ...	24	120	0 0	

# General List of the Officers of the Senior Department

1	2	3	4	5	6	7
Genl. Seniority Number.	Names of Officers, and Branch to which originally posted.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			Rs. A. P.
1	Colonel F. C. Anderson, s. c. [Rev.]	P.	52 6 8	Deputy Superintendent	1st grade ...	1,627 14 0
2	" J. Macdonald, s. c. [Rev.]	P. H.	49 7 20	Ditto	2nd grade ...	1,327 14 0
3	Maj. Genl. J. T. Walker, c. B., R. E., F. R. S. [G. T. S.]	P. H.	53 1 0	Surveyor General of India	...	3,000 0 0
4	Mr. J. B. N. Hennessey, M. A., F. R. S. [G. T. S.]	Not passed	50 5 0	Deputy Superintendent	1st grade ...	1,600 0 0
5	Lieut.-Col. G. C. Depree, s. c. [Topogl.]	P. H.	47 4 29	Ditto	Ditto ...	1,600 0 0
6	Lieut.-Col. Branfill, B. C. [G. T. S.]	P. H.	46 1 8	Ditto	2nd grade ...	1,300 0 0
7	Major H. R. Thuillier, B. E. [G. T. S.]	P. H.	41 9 5	Ditto	{ 1st grade } { 2nd grade }	...
8	Lieut.-Col. C. T. Haig, B. E. [G. T. S.]	Not passed	45 1 19	Ditto	2nd grade ...	1,600 0 0
9	Lieut.-Col. J. Sconce, s. c. [Rev.]	P. H.	43 8 29	Deputy Surveyor General	...	2,200 0 0
10	Major J. Herschel, B. E., F. R. S. [G. T. S.]	P. H.	42 2 1	Deputy Superintendent	2nd grade ...	...
11	Mr. R. B. Smart ... [Rev.]	Not passed	52 9 28	Ditto	Ditto ...	1,300 0 0
12	Lieut.-Col. D. Macdonald, s. c. ... [Rev.]	P. H.	44 0 21	Ditto	Ditto ...	1,300 0 0
13	Major F. Coddington, s. c. ... [Rev.]	P. H.	41 7 28	Ditto	Ditto ...	1,300 0 0
14	" T. T. Carter, B. E. [G. T. S.]	P. H.	41 10 22	Ditto	{ 2nd grade } { 2nd grade }	1,482 10 0
15	" W. Barron, s. c. ... [Rev.]	P. H.	41 11 15	Ditto	3rd grade ...	1,000 0 0
16	Captain G. Strahan, B. E. [Topogl.]	P. H.	40 10 24	Ditto	2nd grade ...	1,440 0 0
17	" R. V. Riddell, B. E. [Topogl.]	P. H.	39 9 20	Ditto	3rd grade ...	1,440 0 0
18	Lieut.-Col. H. C. B. Tanner, Bombay s. c. [Rev.]	P. H.	44 5 15	Ditto	Ditto ...	1,000 0 0
19	Mr. E. T. S. Johnson ... [Rev.]	Not passed	51 8 2	Ditto	Ditto ...	1,000 0 0
20	Major D. C. Andrew, s. c. ... [Rev.]	P. H.	38 9 15	Ditto	Ditto ...	1,000 0 0
21	" A. Pullan, s. c. [G. T. S.]	P. H.	43 9 0	Ditto	Ditto ...	1,000 0 0
22	Lieut.-Col. W. M. Campbell, B. E. [G. T. S.]	Passed	40 5 12	Ditto	2nd grade ...	1,482 10 0
23	Major W. H. Wilkins, s. c. ... [Rev.]	P. H.	38 2 25	Ditto	3rd grade ...	1,000 0 0
24	Captain H. Trotter, R. E. [G. T. S.]	Not passed	38 4 1	Ditto	Ditto ...	...
25	" C. Strahan, B. E. [Topogl.]	Not passed	36 7 25	Ditto	Ditto ...	1,440 0 0
26	" J. E. Sandeman, s. c. ... [Rev.]	P. H.	36 3 29	Ditto	Ditto ...	1,000 0 0
27	Major W. F. Badgley, s. c. [Topogl.]	P. H.	42 1 21	Assistant Superintendent	1st grade ...	1,000 0 0
28	Mr. J. Campbell ... [Rev.]	Not passed	51 10 27	Ditto	Ditto ...	1,000 0 0
29	Captain W. J. Heaviside, B. E. [G. T. S.]	P. H.	39 6 27	Deputy Superintendent	3rd grade ...	1,140 0 0
30	Capt. H. Lees Smith, s. c., M. A., L. L. B. [Rev.]	P. H.	40 9 18	Assistant Superintendent	1st grade ...	750 0 0
31	Mr. J. O. N. James [Topogl.]	Not passed	50 4 25	Deputy Superintendent	3rd grade ...	1,000 0 0
32	Mr. H. B. Talbot ... [Rev.]	L. S.	49 2 5	Assistant Superintendent	{ 1st grade } { 1st grade }	750 0 0

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

# of the Survey of India as it stood on the 1st January 1880.

General Seniority Number.	8	9	10	11	12
	Date of first appointment to Department.	Date of appointment to present grade.	* Period of service counting for pension on 1st Jan. 1880.	Present Post.	REMARKS.
			Y. M. D.		
1	Sep. 10, 1852	April 1, 1868	...	In charge Banda, &c., Districts [Cadastral] Survey, N.-W. P.	Includes Rs. 27-14 Personal allowance.
2	Sept. 10, 1852	Oct. 23, 1876	...	In charge North Deccan Survey, Bombay.	Ditto ditto.
3	Dec. 1, 1853	Jan. 1, 1878	...	Surveyor General of India.	
4	Apr. 1, 1854	April 1, 1866	21 6 14	In charge Head-quarters Offices, Dehra Dún.	Joined the Junior Branch, April 14, 1844. Service reckoned under new Rules.
5	Oct. 20, 1854	Oct. 20, 1866	...	In charge Rajputana Topographical Survey.	
6	Oct. 4, 1858	Oct. 1, 1871	...	In charge Madras Party, Bangalore.	
7	{ May 21, 1859 }	{ July 18, 1871 } { April 1, 1874 }	...	...	On furlough for 2 years from 17th November 1879.
8	Sept. 22, 1859	Oct. 1, 1867	...	In charge Guzerat Party ...	Offg. Deputy Superintendent, 1st grade.
9	Oct. 21, 1859	Jan. 1, 1879	...	Deputy Surveyor General, Calcutta.	
10	Nov. 12, 1859	Oct. 1, 1867	...	On duty, Europe.	
11	Oct. 6, 1860	April 1, 1869	32 4 9	...	Sick leave from 2nd May to 30th June 1848. Ditto from 20th October 1848 to 20th January 1849. Ditto from 8th July 1857 to 13th January 1858. NOTE.—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	Dec. 19, 1860	Jan. 1, 1878	...	In charge Dehra Ismail Khan District Survey, Punjab.	
13	Jan. 17, 1862	Oct. 27, 1878	...	Deputy Surveyor General's Office, Calcutta.	Exclusive of Rs. 60 Presidency allowance.
14	{ Mar. 1, 1862 }	{ Oct. 1, 1871 } { Jan. 1, 1878 }	...	Head-quarters, Dehra Dún.	
15	June 27, 1862	April 1, 1870	...	In charge Ghazipur District [Cadastral] Survey, N.-W. P.	
16	July 2, 1862	Oct. 26, 1870	...	In charge Khandesh and Bombay N. S. Topographical Survey.	
17	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 General.
18	Oct. 10, 1862	April 1, 1870	...	On special duty, Gilgit.	
19	Nov. 21, 1862	July 5, 1870	32 2 19	In charge Jaunpur District [Cadastral] Survey, N.-W. P.	Joined the Junior Branch, 13th October 1847.
20	Dec. 30, 1862	Jan. 1, 1878	...	In charge Bassein District [Cadastral] Survey, British Burma.	
21	Jan. 18, 1863	Ditto	...	In charge Kattywar Survey.	
22	Jan. 30, 1863	Jan. 1, 1879	...	On Field Service.	
23	Apr. 27, 1863	Oct. 27, 1878	...	In charge Saharanpur District Survey, N.-W. P.	
24	Sept. 5, 1863	Jan. 26, 1869	...	...	On furlough, p.a., 2 years, from 20th February 1876. Services placed at the disposal of the British Foreign Office.
25	Sept. 26, 1863	Dec. 1, 1867	...	Head-quarters, Dehra Dún.	Officiating Deputy Superintendent, 2nd grade.
26	Oct. 6, 1864	Jan. 1, 1879	...	In charge Hanthawaddy District [Cadastral] Survey, British Burma.	
27	May 3, 1865	May 8, 1868	...	In charge Khasi and Garo Hills Topographical Survey.	Officiating Deputy Superintendent, 3rd grade.
28	Nov. 29, 1865	Nov. 29, 1867	29 2 29a	In charge Khorda Estate Survey, Orissa	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	Mar. 1, 1866	April 5, 1872	...	Khandesh and Bombay Native States Topographical Survey.	
30	Mar. 26, 1866	June 18, 1870	...	Dera Ismail Khan, &c., Districts Survey, Punjab.	
31	April 1, 1866	April 1, 1869	27 1 25	In charge Engraving and Cartographic Branches, Head-quarters, Calcutta.	Joined the Junior Branch, 29th July 1845. On furlough for 2 years, from 1st April 1878 to 9th October 1879. Service reckoned under new Rules.
32	{ April 1, 1866 }	{ Sep. 12, 1870 } { Dec. 22, 1878 }	31 1 0	In charge Cuttack District Survey, Orissa	Joined the Junior Branch, 1st December 1848.

† 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 January 1880 — 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.	General Seniority Number.	Date of first appointment to Department.	Date of appointment to present grade.	*Period of service counting for pension on 1st Jan. 1880.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.				Y. M. D.		
33	Captain T. H. Holdich, R. E. [Topogl.]	L. S.	36 10 16	Assistant Superintendent	1st grade	1,140 0 0	33	July 23, 1866	Dec. 15, 1868	...	On Field Service.	
34	Major J. Waterhouse, s. c. ... [Topogl.]	P. H.	37 5 8	Ditto	1st grade	...	34	July 23, 1866	June 17, 1870	...	On furlough for 2 years from 12th December 1870.	
35	Captain M. W. Rogers, R. E. [G. T. S.]	L. S.	37 10 12	Ditto	1st grade	890 0 0	35	July 30, 1866	Dec. 15, 1868	...	In charge Northern Bombay Party.	
36	" J. Hill, R. E. ... [G. T. S.]	Not passed	39 0 7	Ditto	1st grade	860 0 0	36	Dec. 18, 1866	Oct. 30, 1870	...		
37	Mr. W. H. Cole, M. A. ... [G. T. S.]	H. S.	42 0 16	Ditto	{ 1st grade 2nd grade	{ ... 750 0 0	37	{ Jan. 3, 1867 Sept. 1, 1867	{ Dec. 4, 1870 Oct. 27, 1878	11 11 29	On duty at Head-quarters Offices, Dehra Dún.	{ (a) Appointed on probation. Excludes service as Professor of Mathematics, Govt. College, Agra, from 14th April 1862 to end of Feb. 1863. (b) Brought on the strength of the Department.
38	Major S. H. Cowan, s. c. ... [Rev.]	P. H.	38 3 16	Ditto	2nd grade	750 0 0	38	Jan. 19, 1867	Mar. 17, 1868	...	In charge Photographic Branch, Head-quarters, Calcutta.	Excludes Rs. 100 Presidency allowance. Offg. in 1st grade.
39	Captain E. H. Steel, s. c. ... [Rev.]	H. S.	38 7 26	Ditto	2nd grade	750 0 0	39	Feb. 1, 1867	May 20, 1869	...	In charge Gwalior and Central India Topographical Survey.	Excludes Rs. 100 Charge allowance. ditto.
40	Major H. S. Hutchinson, s. c. [Rev.]	P. H.	39 8 20	Ditto	2nd grade	749 1 0	40	Aug. 13, 1867	Aug. 13, 1868	...	Offg. in charge South Deccan Survey, Bombay.	Exclusive of Rs. 100 Charge allowance. Offg. in 1st grade.
41	Mr. H. Horst ... [Topogl.]	Not passed	46 1 27	Ditto	1st grade	...	41	April 1, 1868	Oct. 1, 1869	24 9 5	...	Joined the Junior Branch, 1st Sept. 1854.
42	Captain R. Beavan, s. c. ... [Rev.]	P. H.	35 3 11	Ditto	{ 2nd grade 2nd grade	{ ... 624 1 6	42	{ ... July 17, 1868	{ Nov. 9, 1869 Oct. 27, 1878	...	On Field Service.	(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.
43	Mr. E. J. Jackson ... [Rev.]	L. S.	36 0 0	Ditto	2nd grade	600 0 0	43	Nov. 5, 1868	Nov. 5, 1868	12 3 28	Banda, &c., Dists. [Cadastral] Survey, N.-W. P.	Joined the Junior Branch, 20th Sept. 1854. Sick leave from 4th July to 3rd Aug. 1867. Sick leave from 18th Aug. to 30th Nov. 1867. Europe, medical certificate, from 23rd July 1871 to 10th Nov. 1872.
44	Captain A. W. Baird, R. E. ... [G. T. S.]	Passed	37 7 26	Ditto	1st grade	890 0 0	44	{ Dec. ... 4, 1868	{ Oct. 1, 1871 Jan. 1, 1879	...	In charge Tidal and Leveling Operations, Bombay.	
45	Mr. E. C. Barrett ... [Rev.]	H. S.	37 8 16	Ditto	2nd grade	600 0 0	45	Dec. 30, 1868	Dec. 30, 1868	17 0 13	Bussein Dist. [Cadastral] Survey, British Burma.	Joined the Junior Branch, 18th Nov. 1862. Sick leave for one month from 20th June 1869.
46	Captain J. R. MacCullagh, R. E. [G. T. S.]	L. S.	37 9 5	Ditto	{ 1st grade 2nd grade	{ ... 890 0 0	46	{ Feb. 12, 1869 ...	{ Jan. 1, 1872 April 1, 1874	...	Mysore Survey	Offg. Asst. Supdt., 1st grade.
47	Major J. R. Wilmer, s. c. ... [Topogl.]	H. S.	38 11 12	Ditto	{ 1st grade 2nd grade	{ ... 750 0 0	47	{ Aug. 24, 1869 ...	{ Aug. 28, 1872 April 1, 1874	...	In charge Bhopal and Malwa Topographical Survey.	Offg. Asst. Supdt., 1st grade. Rs. 150 charge allowance.
48	Mr. G. H. Cooke ... [Rev.]	L. S.	35 1 1	Ditto	{ 2nd grade 3rd grade	{ ... 600 0 0	48	{ April 1, 1870 ...	{ Jan. 1, 1878 April 1, 1873	13 0 26	North Deccan Survey, Bombay	Offg. Asst. Supdt., 2nd grade. Joined the Junior Branch, 5th Dec. 1856.
49	Mr. J. McGill ... [G. T. S.]	Not passed	49 2 9	Ditto	{ 1st grade 2nd grade	{ ... 600 0 0	49	{ Mar. 1, 1871 ...	{ April 1, 1874 Jan. 17, 1873	28 3 0	...	On furlough. Joined the Junior Branch, 1st Oct. 1851.
50	Captain G. W. Martin, s. c. ... [Rev.]	H. S.	32 7 2	Ditto	{ 3rd grade 2nd grade	{ ... 600 0 0	50	{ Mar. 24, 1871 ...	{ April 1, 1874 April 8, 1871	...	On Field Service.	
51	Mr. W. G. Beverly [G. T. S.]	Not passed	44 2 15	Ditto	{ 2nd grade 3rd grade	{ ... 600 0 0	51	{ April 1, 1871 ...	{ Jan. 1, 1878 Jan. 1, 1878	18 8 12	In charge Burma Party	Joined the Junior Branch, 1st July 1854. Service reckoned up to 17th May 1877. Offg. Asst. Supdt., 2nd grade. Exclusive of Rs. 100 charge allowance.
52	Major R. G. Woodthorpe, R. E. [Topogl.]	L. S.	35 3 8	Ditto	{ 2nd grade 3rd grade	{ ... 740 0 0	52	{ July 14, 1871 ...	{ July 14, 1871 Jan. 1, 1878	...	On Field Service.	
53	" E. P. Leach, v. c., R. E. ... [Topogl.]	L. S.	32 8 20	Ditto	{ 2nd grade 3rd grade	{ ... ...	53	{ Oct. 6, 1871 ...	{ Oct. 6, 1871 Jan. 1, 1878	...	Ditto.	
54	Captain A. J. C. Scott, s. c. [Rev.]	H. S.	32 4 12	Ditto	3rd grade	...	54	Jan. 17, 1872	Jan. 17, 1873	...	...	On furlough on medical certificate to Europe for 2 years from 21st April 1870.
55	Lieut. H. J. Harman, R. E. ... [G. T. S.]	L. S.	29 7 17	Ditto	{ 2nd grade 3rd grade	{ ... 670 0 0	55	{ June 3, 1872 ...	{ June 3, 1872 Jan. 1, 1874	...	In charge Darjeeling Survey	Offg. Asst. Supdt., 2nd grade. Exclusive of Rs. 100 charge allowance.
56	Mr. E. C. Ryall ... [G. T. S.]	Not passed	41 11 15	Ditto	{ 2nd grade 3rd grade	{ ... 600 0 0	56	{ April 1, 1873 ...	{ April 1, 1873 Jan. 1, 1874	24 8 6	Saharanpur District Survey, N.-W. P.	Joined the Junior Branch, 25th April 1855. Two hundred and twenty-five days' sick leave included under old rules.
57	Lieut. St. G. C. Gore, R. E. ... [G. T. S.]	Not passed	30 10 8	Ditto	{ 2nd grade 3rd grade	{ ... 600 0 0	57	{ April 11, 1873 ...	{ April 11, 1873 Jan. 1, 1874	...	On Field Service	(d) Under the organization of 1874.
58	Lieut. J. R. Hobday, s. c. ... [Topogl.]	H. S.	29 5 16	Ditto	3rd grade	...	58	Sept. 11, 1874	July 7, 1875	...	...	On furlough on medical certificate from 1st Dec. 1879.

\* 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 January 1880.

1	2	3	4	5	6	7
Genl. Seniority Number.	Names of Officers, and Branch to which originally posted.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			Rs. A. P.
1	Mr. Harry Duban ... [G. T. S.]	...	52 11 22	Surveyor	1st grade	650 0 0
2	„ N. A. Belletty... [Topogl.]	L. S.	51 3 27	Ditto	Ditto	500 0 0
3	„ W. H. Patterson ... [Rev.]	L. S.	41 3 6	Ditto	Ditto	500 0 0
4	„ A. Chamarett ... [Topogl.]	...	47 1 1	Ditto	Ditto	500 0 0
5	„ C. W. Campbell ... [Rev.]	...	48 7 24	Ditto	2nd grade	400 0 0
6	„ F. W. Kelly ... [Rev.]	H. S.	46 4 5	Ditto	1st grade	500 0 0
7	„ G. A. McGill ... [Topogl.]	L. S.	41 8 7	Ditto	2nd grade	400 0 0
8	„ H. Beverley ... [G. T. S.]	...	41 2 3	Ditto	1st grade	600 0 0
9	„ W. Sinclair ... [Rev.]	...	42 3 7	Ditto	2nd grade	400 0 0
10	„ L. H. Clarke ... [G. T. S.]	...	45 6 26	Ditto	Ditto	400 0 0
11	„ C. J. Neville ... [G. T. S.]	...	45 6 12	Ditto	Ditto	200 0 0
12	„ W. Todd ... [G. T. S.]	...	41 1 21	Ditto	Ditto	400 0 0
13	„ A. DeSouza ... [G. T. S.]	...	42 4 17	Ditto	1st grade	500 0 0
14	„ W. R. Vvall ... [Rev.]	...	41 0 2	Ditto	4th grade	300 0 0
15	„ F. Grant ... [Rev.]	...	43 9 6	Ditto	2nd grade	400 0 0
16	„ D. Atkinson ... [Topogl.]	...	42 7 24	Ditto	Ditto	400 0 0
17	„ J. F. Bunness ... [Topogl.]	...	49 6 1	Ditto	1st grade	600 0 0
18	„ R. W. Chew ... [Topogl.]	...	40 5 8	Ditto	2nd grade	400 0 0
19	„ J. Low ... [G. T. S.]	...	39 10 0	Ditto	Ditto	400 0 0
20	„ C. Wood ... [G. T. S.]	L. S.	37 5 10	Ditto	Ditto	400 0 0
21	„ H. E. T. Keelan ... [G. T. S.]	...	36 9 1	Ditto	3rd grade	350 0 0
22	„ F. Bell ... [G. T. S.]	L. S.	37 8 6	Ditto	Ditto	175 0 0
23	„ G. Atkinson ... [G. T. S.]	...	36 2 20	Ditto	Ditto	350 0 0
24	„ P. A. G. Cowley ... [Rev.]	L. S.	37 11 15	Ditto	Ditto	350 0 0
25	„ T. W. Reiley ... [Rev.]	L. S.	37 6 27	Ditto	4th grade	300 0 0
26	„ E. Little ... [Rev.]	...	34 2 19	Ditto	Ditto	300 0 0
27	„ J. Peyton ... [G. T. S.]	...	51 11 2	Ditto	1st grade	500 0 0
28	„ S. M. Smylie ... [Rev.]	L. S.	38 1 5	Ditto	3rd grade	350 0 0
29	„ W. S. Buttress ... [Rev.]	...	35 10 12	Ditto	4th grade	300 0 0
30	„ A. J. Wilson ... [Topogl.]	L. S.	37 4 0	Ditto	3rd grade	350 0 0
31	„ J. A. May ... [Topogl.]	...	37 3 15	Ditto	Ditto	350 0 0
32	„ F. Adams ... [Topogl.]	...	43 8 6	Ditto	Ditto	350 0 0
33	„ R. D. Farrell ... [Topogl.]	...	36 11 1	Ditto	Ditto	350 0 0
34	„ J. S. Pemberton ... [Rev.]	L. S.	36 5 23	Ditto	Ditto	350 0 0

8	9	10	11	12
General Seniority Number.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st Jan. 1880.	REMARKS.
			Y. M. D.	
1	April 22, 1845	April 1, 1866	29 6 22	Personal Assistant to the Surveyor Genl. of India. (a) Includes Rs. 160 Personal allowance. Service reckoned under new rules.
2	July 16, 1847	April 1, 1866	32 5 16	On duty at Head-quarters, Calcutta ... Exclusive of Rs. 45 Presidency house-rent.
3	Dec. 1, 1851	Jan. 1, 1871	17 11 17	... .. Leave on p. a. from 1st May to 31st August 1862. Leave on p. a. to Europe from 20th July 1872 to 21st Jan. 1873. Exclusive of Rs. 46 as Presidency house-rent.
4	June 2, 1852	Mar. 1, 1871	27 6 29	Geographical Examiner, Head-quarters, Calcutta. Banda, &c., Dists. [Cadastral] Survey, N.-W. P. Exclusive of Rs. 46 as Presidency house-rent.
5	Nov. 1, 1853	July 1, 1870	26 2 0	On duty Office of Depy. Survr. Genl., Calcutta. Personal allowance Rs. 50. Special leave for 4 months from 21st January 1859, which was overstayed from 21st May to 16th August 1858. Commencement of second service, 17th August 1858.
6	Dec. 4, 1854	July 1, 1869	24 0 2	Rajputana Topogl. Survey.
7	April 8, 1855	Jan. 1, 1871	24 8 23	In charge Eastern Frontier Series ... (c) Including Rs. 100 Charge allowance, and excluding Rs. 50 Burma allowance. 30 days' leave included under old rules.
8	June 14, 1855	April 1, 1871	24 6 17	Draftsman, Office of Depy. Surveyor Genl., Calcutta. On furlough, p. a., from 19th April to 23rd October 1877 inclusive. Draws Presidency house-rent Rs. 30.
9	Oct. 1, 1855	May 1, 1878	19 9 7	Doing duty at Head-quarters, Dehra Dún. 6 months' sick leave included under old rules.
10	Nov. 26, 1855	Dec. 1, 1872	24 1 5	On half-pay list from 3rd Nov. 1879 ... 4 years and 29 days on medical certificate, of which 2 years count as service under old rules.
11	Dec. 1, 1855	Oct. 1, 1871	24 1 0	Doing duty at Head-quarters, Dehra Dún. 349 days' furlough and 77 days' medical leave excluded under new rules.
12	Jan. 11, 1856	June 1, 1874	21 10 23	Guzerat Survey ...
13	Feb. 19, 1856	Sept. 1, 1875	19 2 15	Khorda Estate [Cadastral] Survey, Orissa. 6 months' sick leave included under old rules.
14	June 13, 1856	April 1, 1869	23 6 18	Hanthawaddy Dist. [Cadastral] Survey, British Burma. 349 days' furlough and 77 days' medical leave excluded under new rules.
15	July 11, 1856	April 1, 1872	23 5 21	Bhopal and Malwa Topogl. Survey.
16	Aug. 4, 1856	Jan. 1, 1871	23 4 28	Chief Draftsman, Head-quarters, Calcutta
17	Sept. 5, 1856	May 1, 1870	23 3 26d	Mysore Topogl. Survey. (d) Service reckoned under new rules.
18	Sept. 15, 1856	Oct. 1, 1874	23 3 16	Eastern Frontier Line ... Excluding Rs. 50, Burma allowance. Service reckoned up to 31st October 1878. On furlough.
19	Oct. 1, 1857	Aug. 1, 1875	15 7 19	Computing Office, Head-quarters, Dehra Dún. Service reckoned under old rules.
20	May 6, 1858	May 1, 1878	21 5 10	On duty at Head-quarters, Calcutta ... Exclusive of Rs. 30, Presidency house-rent. 11 months and 13 days' furlough excluded under the new rules, and 18 days' sick leave.
21	Aug. 17, 1858	April 1, 1872	13 9 0	On half-pay list from 1st Nov. 1879 ... Furlough for 1 year, and 17 days' subsidiary leave, and 13 months' medical leave excluded under new rules.
22	Aug. 17, 1858	June 1, 1873	13 6 19	Drawing Office, Head-quarters, Dehra Dún. (e) Service reckoned under old rules.
23	Aug. 1, 1859	Jan. 1, 1874	20 2 20e	Jaunpur District [Cadastral] Survey N.-W. P. Absent without leave from 20th January to 28th February 1861.
24	Sept. 1, 1859	Oct. 1, 1873	20 4 0	On duty, Office of Depy. Surveyor Genl., Calcutta. Apprentice from 1st January 1860 to 4th November 1862.
25	Oct. 18, 1859	Nov. 1, 1872	20 1 2	Banda, &c., Dists. Survey, N.-W. P. ... (f) Service reckoned under old rules.
26	Jan. 1, 1860	Nov. 5, 1871	20 0 0	On duty at Head-quarters, Calcutta ...
27	Feb. 3, 1860	April 1, 1874	19 10 27f	South Deccan Survey, Bombay. Copyist from 1st to 30th September 1860.
28	July 24, 1860	April 1, 1872	19 5 8	Dera Ismail Khan, &c., Districts Survey, Punjab. Exclusive of Rs. 30, Presidency house-rent. Apprentice draftsman from 1st January 1860.
29	Sept. 1, 1860	Oct. 1, 1872	19 4 0	Doing duty at Head-quarters, Calcutta ...
30	Oct. 1, 1860	April 1, 1874	19 3 0	On duty, Office of Dy. Survr. Genl., Calcutta. Exclusive of Rs. 30, Presidency house-rent. Apprentice draftsman from 1st Jan. 1860.
31	Oct. 1, 1860	Oct. 1, 1874	19 3 0	On duty, Head-quarters, Calcutta ... (g) Including service as Sub-Surveyor from 3rd November 1850 to 30th September 1860; exclusive of Rs. 30, Presidency house-rent.
32	Oct. 1, 1860	Oct. 1, 1871	23 1 28g	On duty, Head-quarters, Calcutta ...
33	Oct. 1, 1860	April 1, 1872	19 3 0	On duty, Head-quarters, Calcutta. Exclusive of Rs. 30, Presidency house-rent.
34	Oct. 6, 1860	Jan. 1, 1878	19 2 21	Jaunpur District Survey, N.-W. P. ... Overstayed privilege leave by 5 days in June 1860.

General List of the Officers of the Junior or Subordinate Department

of the Survey of India as it stood on the 1st January 1880—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.	General Seniority Number.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st Jan. 1880.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.				Y. M. D.		
35	Mr. H. R. Littlewood ... [Rev.]	...	36 1 25	Surveyor	3rd grade...	350 0 0	35	Oct. 6, 1860	April 1, 1872	19 2 26	Bassein District [Cadastral] Survey, British Burma.	
36	„ W. A. Wilson ... [Rev.]	L. S.	36 7 2	Ditto	Ditto	350 0 0	36	Jan. 1, 1861	May 1, 1878	19 0 0	Ghazipur District [Cadastral] Survey, N.-W. P.	
37	„ A. J. Gibson ... [Rev.]	...	37 9 0	Ditto	4th grade	300 0 0	37	May 1, 1861	Oct. 1, 1873	18 7 27	Dera Ismail Khan, &c., Dists. Surv., Punjab.	Absent without leave for 3 days in Jan. 1866.
38	„ E. S. P. Atkinson ... [Topogl.]	...	34 5 5	Ditto	Ditto	300 0 0	38	Aug. 13, 1861	April 1, 1872	11 3 0	Rajputana Topogl. Survey.	
39	„ A. G. Wyatt ... [Topogl.]	...	34 10 4	Ditto	Ditto	300 0 0	39	Nov. 1, 1861	April 1, 1874	18 2 0	Khandesh and Bombay Native States Topogl. Survey.	
40	„ H. Peychers ... [G. T. S.]	...	37 0 18	Ditto	Ditto	300 0 0	40	April 8, 1862	June 1, 1874	17 8 23	Computing Office, Head-quarters, Dehra Dún.	Service reckoned under old rules.
41	„ H. Dowman ... [Rev.]	...	33 6 20	Ditto	Ditto	300 0 0	41	Oct. 16, 1862	Oct. 16, 1874	17 2 1	Hanthawaddy District [Cadastral] Surv., British Burma.	Absent without leave 3 days. Sick leave, 2 days in Oct. 1865; 4 days in Dec. 1865, and from 11th to 19th December 1866.
42	„ G. Belcham ... [G. T. S.]	H. S.	34 10 15	Ditto	Ditto	300 0 0	42	Nov. 1, 1862	June 1, 1874	17 2 0	Tidal and Leveling Operations	Service reckoned under old rules. Exclusive of Rs. 50 deputation allowance.
43	„ H. T. Hanby ... [Rev.]	L. S.	33 2 12	Ditto	Ditto	300 0 0	43	Nov. 13, 1862	Nov. 13, 1874	17 1 18	Ghazipur District [Cadastral] Survey, N.-W. P.	
44	„ A. M. Lawson ... [Rev.]	L. S.	40 11 29	Ditto	Ditto	300 0 0	44	Nov. 18, 1862	May 1, 1873	17 1 13	North Deccan Survey, Bombay.	
45	„ G. B. Scott ... [Rev.]	H. S.	35 5 6	Ditto	3rd grade	350 0 0	45	May 1, 1863	July 8, 1879	16 8 0	On Field Service	Exclusive of Rs. 50 Local allowance.
46	„ J. T. U. Coxen ... [Rev.]	...	39 3 22	Asst. Surveyor	2nd grade	200 0 0	46	May 16, 1863	Jan. 1, 1874	15 11 3	Ditto	Sick leave from 8th to 31st Oct. 1878, and 6 months from 12th November 1878. Exclusive of Rs. 50 Local allowance.
47	„ M. J. Ogle ... [Topogl.]	...	37 9 27	Surveyor	4th grade	300 0 0	47	July 1, 1863	April 1, 1873	14 9 27	Ditto	Exclusive of Rs. 50 Local allowance. Service reckoned under new rules.
48	„ L. J. Pocock ... [G. T. S.]	H. S.	36 9 5	Ditto	Ditto	300 0 0	48	July 10, 1863	July 1, 1874	14 5 5	Mysore Topogl. Survey	Eighty-nine days' sick leave excluded.
49	„ C. F. Hamer ... [Topogl.]	...	34 1 24	Ditto	Ditto	300 0 0	49	Aug. 3, 1863	July 1, 1873	12 1 24	Bhopal and Malwa Topogl. Survey	Service reckoned under new rules.
50	„ A. Christie ... [G. T. S.]	H. S.	34 3 1	Ditto	Ditto	300 0 0	50	Aug. 7, 1863	Oct. 13, 1874	12 3 1	Guzerat Survey.	
51	„ T. E. M. Claudius ... [Topogl.]	...	33 7 0	Asst. Surveyor	1st grade	250 0 0	51	Aug. 10, 1863	April 1, 1874	11 7 0	On Field Service.	Exclusive of Rs. 50 Local allowance.
52	„ C. A. R. Scanlan ... [Topogl.]	...	32 3 19	Ditto	Ditto	250 0 0	52	Sept. 9, 1863	July 8, 1879	9 10 29b	Hanthawaddy District [Cadastral] Survey, British Burma.	
53	„ W. O'Sullivan ... [G. T. S.]	...	35 10 17	Surveyor	4th grade	300 0 0	53	Oct. 1, 1863	Oct. 1, 1874	13 10 17	Darjeeling Survey.	(b) Excludes leave on medical certificate from 1st January to 29th April 1875; 21 days in August 1878.
54	„ J. H. O'Donel ... [Rev.]	...	34 5 15	Asst. Surveyor	1st grade	250 0 0	54	Oct. 1, 1863	Oct. 1, 1872	12 5 15	Jaunpur District [Cadastral] Survey, N.-W. P.	
55	„ N. C. Gwynne ... [G. T. S.]	...	36 9 25	Surveyor	4th grade	300 0 0	55	Oct. 19 1863	Oct. 1, 1874	14 9 25	Katkywar and Cutch Survey, Poona.	
56	„ J. Newland ... [Rev.]	L. S.	42 4 26	Asst. Surveyor	1st grade	250 0 0	56	Oct. 22, 1863	June 29, 1871	16 2 10	North Deccan Survey, Bombay.	
57	„ W. C. Price ... [G. T. S.]	...	33 6 7	Surveyor	4th grade	(c)300 0 0	57	Nov. 1, 1863	Oct. 1, 1874	11 6 7	Northern Bombay Party.	
58	„ R. Todd ... [Topogl.]	...	34 5 20	Asst. Surveyor	1st grade	250 0 0	58	Nov. 1, 1863	Oct. 1, 1871	12 5 19	Dera Ismail Khan District Survey, Punjab.	
59	„ P. Ford ... [Rev.]	L. S.	34 0 24	Ditto	Ditto	250 0 0	59	Dec. 15, 1863	June 4, 1873	12 0 19	Bassein District [Cadastral] Survey, British Burma.	Absent without leave 1 day, and sick leave 4 days in October 1865.
60	„ J. Todd ... [Rev.]	...	45 7 19	Surveyor	3rd grade	350 0 0	60	Dec. 27, 1863	Jan. 1, 1872	16 0 4	Saharanpur District Survey, N.-W. P.	Overslaid privilege leave by 1 day in August 1874.
61	„ G. Campbell ... [Rev.]	...	31 5 19	Asst. Surveyor	Ditto	160 0 0	61	Jan. 1, 1864	Dec. 1, 1874	8 5 19	Hanthawaddy District [Cadastral Survey], British Burma.	Office Assistant from 1st January 1864 to 29th Feb. 1874.
62	„ R. B. Smart, Jr. ... [Rev.]	L. S.	32 6 2	Ditto	1st grade	250 0 0	62	Jan. 1, 1864	May 27, 1874	10 6 2	Banda, &c., Dists. [Cadastral] Survey, N.-W. P.	Apprentice from 1st January to 31st December 1864.
63	„ D. A. King ... [Rev.]	...	33 1 26	Ditto	Ditto	250 0 0	63	April 12, 1864	Jan. 1, 1874	11 1 25	Hanthawaddy District [Cadastral] Survey, British Burma.	Apprentice from 12th April to 30th June 1864.
64	„ A. W. Chennell ... [Topogl.]	...	33 1 16	Ditto	Ditto	250 0 0	64	May 1, 1864	Oct. 1, 1872	10 7 1	Khasi and Garo Hills Topogl. Survey	{ Exclusive of Rs. 40 Assam allowance { Probationer from 10th November 1862 to 30th Apl. 1864.
65	„ A. James ... [Topogl.]	...	33 1 12	Ditto	Ditto	250 0 0	65	June 15, 1864	Sept. 1, 1873	11 1 12	Mysore Topogl. Survey.	
66	„ C. Tapsell ... [Topogl.]	L. S.	35 1 17	Ditto	Ditto	250 0 0	66	Aug. 2, 1864	Oct. 1, 1872	13 1 16	Mysore Topogl. Survey.	
67	„ C. H. McA. Fee ... [G. T. S.]	L. S.	30 1 15	Surveyor	4th grade	300 0 0	67	Sept. 6, 1864	Aug. 1, 1875	8 1 15	Guzerat Survey.	
68	„ F. Kitchen ... [Topogl.]	...	33 9 7	Assistant Surveyor	1st grade	250 0 0	68	Oct. 1, 1864	April 1, 1874	11 9 7	Mysore Topogl. Survey.	
69	„ W. Statesbury ... [Topogl.]	H. S.	32 5 6	Ditto	Ditto	250 0 0	69	Oct. 4, 1864	April 1, 1874	10 5 6	Ditto.	
70	„ T. H. Rendell ... [G. T. S.]	...	35 5 9	Ditto	Ditto	250 0 0	70	Oct. 11, 1864	June 1, 1873	13 5 9	Tidal and Leveling operations	Exclusive of Rs. 50 Deputation allowance.
71	„ C. W. F. Seyers ... [Rev.]	...	36 4 15	Ditto	3rd grade	160 0 0	71	Dec. 1, 1864	Oct. 1, 1871	14 4 15	Saharanpur District Survey, N.-W. P.	
72	„ J. Connor ... [Rev.]	...	32 3 24	Ditto	1st grade	325 0 0	72	Feb. 15, 1865	Dec. 8, 1874	10 3 24	Draftsman, Office of Deputy Surveyor General, Calcutta.	

General List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st January 1880—continued.

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 Department.	9 Date of appointment to present grade.	10 Period of service counting for pension on 1st Jan. 1880. Y. M. D.	11 Present Post.	12 REMARKS.
74	" W. J. Lane ... [Rev.]	...	32 7 5	Ditto	Ditto ...	300 0 0	Mar. 1, 1865	April 24, 1871	10 2 26	Extra Draftsman, Office of Depy. Survr. Genl., Calcutta.	Sick leave from 19th May to 8th July 1866, and from 7th August to 23rd October 1866.
75	" E. J. Connor ... [G. T. S.]	L. S.	31 4 15	Ditto	Ditto ...	250 0 0	Mar. 1, 1865	July 1, 1874	8 10 10	Tidal and Levelling operations.	Six months and 5 days' leave on private affairs excluded under new rules.
76	" E. A. Wainright ... [Topogl.]	...	31 6 13	Ditto	2nd grade...	250 0 0	May 1, 1865	July 13, 1878	9 6 13	Bhopal & Malwa Topogl. Survey.	
77	" Hugh Todd ... [G. T. S.]	...	32 4 15	Ditto	1st grade ...	250 0 0	July 15, 1865	June 1, 1874	10 3 16	Mysore Topogl. Survey	Thirty days' sick leave excluded.
78	" J. A. Barker ... [Topogl.]	...	30 8 18	Ditto	Ditto ...	250 0 0	Sept. 18, 1865	Oct. 1, 1871	8 8 18	Khandesh and Bombay Native States Topogl. Survey.	
79	" R. C. D. Ewing ... [Rev.]	H. S.	31 6 20	Ditto	Ditto ...	250 0 0	June 9, 1866	Aug. 1, 1878	9 6 20	Saharanpur District Survey, N.-W. P.	
80	" W. J. Cornelius ... [Topogl.]	L. S.	30 9 1	Ditto	Ditto ...	250 0 0	Aug. 15, 1866	Oct. 1, 1872	8 9 1	Gwalior and Central India Topogl. Survey.	Officiating Assistant Surveyor, 1st grade.
81	" W. F. Pettigrew ... [Topogl.]	...	35 4 19	Ditto	2nd grade...	100 0 0	Sept. 12, 1866	Oct. 1, 1872	11 10 9	On half pay list from 6th October 1879.	
82	" J. Bond ... [G. T. S.]	...	29 11 24	Ditto	Ditto ...	250 0 0	Oct. 18, 1866	Oct. 1, 1874	7 11 4	Guzerat Survey	Twenty days' sick leave excluded.
83	" C. D. Potter ... [G. T. S.]	L. S.	34 3 27	Ditto	Ditto ...	250 0 0	Oct. 29, 1866	Oct. 1, 1874	12 2 24	Madras Party	Thirty-three days' leave excluded.
84	" G. W. Jarbo ... [Rev.]	L. S.	32 3 15	Ditto	2nd grade...	200 0 0	Nov. 1, 1866	Nov. 1, 1872	10 3 0	Cuttack District Survey, Orissa	Sick leave for 15 days, from 26th May to 9th June 1869.
85	" J. R. Scott ... [Rev.]	L. S.	30 9 27	Ditto	Ditto ...	200 0 0	Jan. 19, 1867	May 1, 1873	8 9 27	Bassein District Cadastral Survey, British Burma.	
86	" P. J. W. Doran ... [Topogl.]	L. S.	30 7 27	Ditto	Ditto ...	200 0 0	Feb. 1, 1867	April 1, 1873	7 9 5	Gwalior and C. I. Topogl. Survey.	
87	" C. W. Wilson ... [Rev.]	L. S.	34 1 22	Ditto	3rd grade...	160 0 0	June 21, 1867	July 8, 1871	11 8 22	Saharanpur District Survey, N.-W. P.	(a) Commencement of second service. Sick leave for 3 months from 1st March 1869, and 2 months from 1st August 1869.
88	" J. McHatton ... [Rev.]	L. S.	29 5 14	Ditto	2nd grade...	200 0 0	July 1, 1867	July 1, 1870	6 11 14	Bassein District Cadastral Survey, British Burma.	
89	" W. W. McNair ... [Topogl.]	L. S.	29 3 18	Ditto	Ditto ...	200 0 0	Sep. 1, 1867	Oct. 1, 1872	7 4 18	On Field Service.	
90	" E. J. Martin ... [Rev.]	...	28 10 15	Ditto	3rd grade...	160 0 0	Sep. 16, 1867	May 27, 1874	6 10 15	Jaunpur District [Cadastral Survey,] N.-W. P.	Office Asst. from 16th September 1867 to 31st July 1870.
91	" H. T. Kitchen ... [Topogl.]	...	31 6 23	Ditto	2nd grade ...	200 0 0	Nov. 1, 1867	Nov. 1, 1873	9 6 23	Bhopal and Malwa Topogl. Survey.	
92	" A. Cooper ... [Topogl.]	...	39 2 4	Ditto	Ditto ...	200 0 0	Dec. 1, 1867	Apl. 1, 1874	16 9 0	On half pay list from 6th October 1879.	(b) Service reckoned under old rules; includes previous service in Pegu Survey from 2nd January 1863 to 30th November 1867.
93	" J. H. Wilson ... [Topogl.]	L. S.	33 6 23	Ditto	Ditto ...	200 0 0	April 1, 1868	Apl. 1, 1874	11 5 23	Rajputana Topogl. Survey.	
94	" J. Hickie ... [G. T. S.]	L. S.	30 11 17	Ditto	Ditto ...	200 0 0	April 29, 1868	June 1, 1874	8 5 17	South Deccan Survey, Bombay	Six months' medical leave excluded.
95	" W. H. Lilley ... [Topogl.]	...	31 0 29	Ditto	Ditto ...	200 0 0	May 1, 1868	Jany. 1, 1873	8 7 7	Bhopal and Malwa Topogl. Survey.	Excluding leave on m. c. from 14th Dec. 1877 to 5th June 1878.
96	" W. Fielding ... [G. T. S.]	L. S.	31 7 13	Ditto	Ditto ...	200 0 0	May 3, 1868	July 1, 1874	9 7 13	Kattywar Survey.	
97	" G. D. Cusson ... [G. T. S.]	L. S.	33 3 7	Ditto	Ditto ...	100 0 0	May 8, 1868	Oct. 1, 1874	11 3 7	On furlough	For one year.
98	" T. Kinney ... [G. T. S.]	L. S.	32 7 27	Ditto	1st grade ...	125 0 0	June 17, 1868	Oct. 1, 1874	10 0 27	On half pay list from 7th Dec. 1879.	
99	" S. O. Madras ... [Rev.]	...	29 4 16	Ditto	2nd grade...	200 0 0	July 6, 1868	July 6, 1874	7 4 16	Ghazipur Dist. [Cadastral Survey,] N.-W. P.	
100	" T. F. Freeman ... [Rev.]	L. S.	28 9 27	Ditto	Ditto ...	200 0 0	Sep. 9, 1868	Sept. 9, 1874	6 9 27	Banda, &c., Diets. [Cadastral Survey,] N.-W. P.	
101	" G. C. Swiney ... [Rev.]	...	30 6 4	Ditto	Ditto ...	200 0 0	Sep. 17, 1868	Dec. 1, 1874	8 6 4	South Deccan Survey, Bombay.	
102	" J. Murphy ... [Rev.]	...	27 5 19	Ditto	3rd grade...	160 0 0	Nov. 22, 1868	Nov. 1, 1871	5 5 19	Hanthawaddy District [Cadastral Survey,] British Burma.	Office Assistant from 22nd November 1868 to 31st October 1871.
103	" W. D. Corbett ... [Rev.]	...	29 7 0	Ditto	Ditto ...	160 0 0	Dec. 1, 1868	May 30, 1874	7 7 0	Ghazipur District [Cadastral Survey,] N.-W. P.	Office Assistant from 1st December 1868 to 31st July 1870.
104	" C. P. Torrens ... [G. T. S.]	...	29 6 11	Ditto	2nd grade...	200 0 0	Dec. 12, 1868	Apl. 1, 1873	7 6 11	Bombay Party.	
105	" J. S. Swiney ... [Rev.]	...	29 0 12	Ditto	Ditto ...	200 0 0	Jan. 5, 1869	Jan. 5, 1872	7 0 12	Jaunpur District [Cadastral Survey,] N.-W. P.	
106	" G. L. R. Scott ... [Rev.]	L. S.	28 7 15	Ditto	Ditto ...	...	Mar. 1, 1869	Mar. 1, 1872	6 1 15	...	On furlough for 1 year from 10th June 1870.
107	" B. Anderson ... [Rev.]	L. S.	28 7 15	Ditto	Ditto ...	...	Apl. 20, 1869	June 29, 1872	6 0 6	...	On furlough to New Zealand for 1 year, from 23rd May 1870.
108	" T. Shaw ... [Rev.]	L. S.	27 1 15	Ditto	Ditto ...	200 0 0	Apl. 21, 1869	Aug. 1, 1878	5 1 15	Detached on Boundary Survey, Cachar District, Assam.	

General List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st January 1880—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 Jan. 1879.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.			Y. M. D.		
109	Mr. W. Robert ... [Topogl.]	...	28 10 2	Assistant Surveyor ...	2nd grade ...	200 0 0	Aug. 21, 1869	July 13, 1878	6 10 2	Darjeeling Survey.	
110	„ W. H. Penrose ... [Rev.]	L. S.	28 2 24	Ditto ...	Ditto ...	200 0 0	Aug. 11, 1869	Dec. 16, 1878	6 2 24	South Deccan Survey, Bombay.	
111	„ A. Bryson ... [G. T. S.]	H. S.	30 4 1	Ditto ...	3rd grade ...	160 0 0	Sep. 20, 1869	Oct. 1, 1873	8 4 1	Madras Party.	
112	„ F. E. Warde ... [Topogl.]	...	28 3 24	Ditto ...	Ditto ...	160 0 0	Sep. 1, 1870	Sep. 1, 1873	6 3 24	Khandesh and Bombay Native States Topogl. Survey.	
113	„ C. T. Templeton ... [Topogl.]	...	27 3 27	Ditto ...	Ditto ...	160 0 0	Sep. 1, 1870	Sep. 1, 1873	5 3 27	Gwalior and Central India Topogl. Survey.	
114	„ A. D. Smart ... [Rev.]	...	49 2 17	Surveyor ...	Ditto ...	175 0 0	Oct. 1, 1870(a)	Oct. 1, 1870	9 3 0	On half pay 1st from 1st Jan. 1880 ...	(a) Commencement of second service.
115	„ G. E. Parker ... [Rev.]	...	29 10 18	Assistant Surveyor ...	Ditto ...	160 0 0	Nov. 18, 1870	July 8, 1874	7 10 18	Hanthawaddy Dist. [Cadastral Survey,] British Burma.	
116	„ J. McCay ... [Topogl.]	...	26 2 23	Ditto ...	Ditto ...	160 0 0	Dec. 1, 1870	Dec. 1, 1873	4 2 24	Khasi and Garo Hills Topogl. Survey ...	(b) Exclusive of Rs. 40 Assam local allowance.
117	„ R. A. Gibson ... [Topogl.]	...	25 5 26	...	Ditto ...	160 0 0	Dec. 1, 1870	Sep. 1, 1878	3 5 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, Surv. Genl.'s Office, from 10th October to 30th November 1870. Probationary Assistant Surveyor, 1st December 1870. On P. A. for 6 months from 18th July 1870.
118	„ W. Oldham ... [G. T. S.]	L.S. (Canna- rese.)	27 0 15	Ditto ...	Ditto ...	160 0 0	Oct. 15, 1871	June 1, 1874	5 0 15	On furlough ...	
119	„ C. W. J. Ford ... [Rev.]	...	26 9 6	Ditto ...	Ditto ...	160 0 0	Nov. 1, 1871	Jan. 1, 1878	4 9 0	Bassein District Cadastral Survey, British Burma.	
120	„ W. C. G. Barckley ... [Topogl.]	...	28 2 10	Ditto ...	Ditto ...	160 0 0	Dec. 1, 1871	Feb. 1, 1874	4 9 16	Rajputana Topogl. Survey.	
121	„ A. W. Smart ... [Rev.]	...	28 10 1	Ditto ...	Ditto ...	160 0 0	Jan. 1, 1872	Jan. 1, 1878	6 10 1	Khasia and Garo Hills Topogl. Survey.	
122	„ G. VanderBeek ... [Topogl.]	L. S.	30 3 15	Ditto ...	Ditto ...	160 0 0	July 1, 1872	April 1, 1877	7 6 0	Khandesh and Bombay Native States Topogl. Survey.	
123	„ W. M. Kelly ... [Topogl.]	...	25 4 25	Ditto ...	Ditto ...	160 0 0	Oct. 1, 1872	Jan. 1, 1878	3 4 25	North Deccan Survey, Bombay ...	Re-appointed to the Department, 1st Oct. 1878, after employment in the Forest Department, from 1st Nov. 1877 to 30th September 1878.
124	„ A. Kitchen ... [Topogl.]	...	26 11 5	Ditto ...	Ditto ...	160 0 0	Oct. 1, 1872	Feb. 25, 1878	4 11 5	Gwalior and C. I. Topogl. Survey.	
125	„ P. White ... [Topogl.]	...	29 2 22	Ditto ...	4th grade ...	160 0 0	Oct. 1, 1872	...	6 6 12	On half pay list from 18th Aug. 1879.	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.
126	„ J. O. Hughes ... [G. T. S.]	...	24 4 8	Ditto ...	3rd grade ...	160 0 0	Oct. 14, 1872	April 1, 1875	2 4 8	Burma Party ...	Two months and 22 days' sick leave excluded from period of non-qualifying service.
127	„ B. M. Wilson ... [Rev.]	...	31 8 17	Ditto ...	Ditto ...	160 0 0	Nov. 15, 1872	July 13, 1878	7 11 0	Henthawaddy Dist. [Cadastral Survey,] British Burma.	Apprentice, from 1st Feb. to 14th Nov. 1872.
128	„ E. P. S. Hill ... [Rev.]	...	25 6 17	Ditto ...	Ditto ...	160 0 0	Nov. 16, 1872	Aug. 1, 1878	3 6 17	Banda, &c., Districts [Cadastral Survey,] N.-W. P.	
129	„ E. H. S. Gasper ... [Rev.]	...	26 1 18	Ditto ...	Ditto ...	160 0 0	Nov. 16, 1872	Dec. 16, 1878	3 9 16	Jaunpur District [Cadastral Survey,] N.-W. P.	Sick leave for 4 months, from 1st September to 31st December 1876.
130	„ G. T. Hall ... [G. T. S.]	L. S.	27 8 24	Ditto ...	Ditto ...	160 0 0	Nov. 22, 1872	Aug. 1, 1875	5 8 24	Kattywar Survey.	
131	„ E. B. M. Drew ...	...	...	...	...	...	...	...	...	...	
132	„ R. R. Dickinson ... [Rev.]	L. S.	28 5 6	Ditto ...	Ditto ...	160 0 0	April 16, 1873	...	6 5 6	North Deccan Survey, Bombay ...	Apprentice from 1st April 1872 to 15th April 1873.
133	„ J. F. McCarthy ... [G. T. S.]	L. S.	26 8 2	Ditto ...	Ditto ...	160 0 0	Aug. 1, 1873	...	4 8 2	Eastern Frontier Series.	
134	„ E. Graham ... [Topogl.]	L. S.	26 2 0	Ditto ...	Ditto ...	160 0 0	Aug. 11, 1873	...	4 2 0	Khandesh and Bombay Native States Topogl. Survey.	Previous service as Sub-Surveyor from 1st Nov. 1872.
135	„ G. L. Fleming ... [Topogl.]	...	25 8 29	Ditto ...	4th grade ...	120 0 0	Aug. 11, 1873	...	3 8 20	Mysore Topogl. Survey.	
136	„ G. R. Copping ... [Topogl.]	L. S.	26 6 6	Ditto ...	Ditto ...	120 0 0	Aug. 11, 1873	...	4 6 6	Bhopal and Malwa Topogl. Survey ...	Previous service as Apprentice from 1st Oct. 1872.
137	„ G. A. Knight ... [Topogl.]	...	25 8 9	Ditto ...	Ditto ...	120 0 0	Aug. 11, 1873	...	3 8 9	South Deccan Survey, Bombay.	
138	„ D. J. Collins ... [G. T. S.]	...	25 7 27	Ditto ...	Ditto ...	120 0 0	Oct. 6, 1873	...	3 6 9	Darjeeling Survey ...	Excludes 40 days' leave on medical certificate from 2nd July to 10th August 1878.
139	„ P. A. Peters ... [Rev.]	L. S.	25 0 23	Ditto ...	Ditto ...	120 0 0	Nov. 1, 1873	...	3 0 23	Dera Ismail Khan District Survey, Punjab.	
140	„ H. Corkery ... [G. T. S.]	L. S.	28 4 10	Ditto ...	Ditto ...	120 0 0	Nov. 20, 1873	...	5 5 17	On Field Service ...	Excludes leave without pay from 21st March to 13th Nov. 1878.
141	„ P. F. Prunty ... [G. T. S.]	...	25 0 6	Ditto ...	Ditto ...	120 0 0	May 9, 1874	...	3 0 6	Kattywar and Cutch Survey.	
142	„ J. Keating ... [G. T. S.]	...	25 7 27	Ditto ...	Ditto ...	120 0 0	June 1, 1874	...	3 7 27	Ditto.	
143	„ C. S. Kraal ... [Rev.]	L. S.	26 3 6	Ditto ...	Ditto ...	120 0 0	July 24, 1874	...	4 2 19	Jaunpur [Cadastral] District Survey, N.-W. P.	Sick leave from 6th to 22nd February 1879.
144	„ S. F. Norman ... [G. T. S.]	...	25 4 23	Ditto ...	Ditto ...	120 0 0	Sept. 1, 1874	...	3 4 23	Guzerat Survey.	
145	„ C. Norman ... [G. T. S.]	L. S.	23 7 12	Ditto ...	Ditto ...	120 0 0	Oct. 12, 1874	...	1 7 12	Ditto.	



*General List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st January 1880—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.	General Seniority Number.	Date of first appointment to the Department.	Date of appointment to present grade.	Period of service counting for pension on 1st January 1880.	Present Post.	REMARKS.
			Y. M. D.			Rs. A. P.				Y. M. D.		
146	Mr. Duncan Campbell ... [Topogl.]	...	27 1 13	Assistant Surveyor ...	4th grade...	120 0 0	146	Nov. 1, 1874	...	5 1 13	Khasi and Garo Hills Topogl. Survey.	Joined as a Sub-Surveyor on 3rd July 1872. (a) Exclusive of Rs. 40, Assam Local allowance.
147	„ Thomas J. Campbell ... [Rev.]	...	22 11 16	Ditto ...	Ditto ...	120 0 0	147	May 1, 1875	...	0 11 16	Detached under Settlement Officer, Cachar District, Assam.	
148	„ R. F. Warwick ... [G. T. S.]	L. S.	24 9 2	Ditto ...	Ditto ...	120 0 0	148	July 2, 1875	...	2 5 2	Guzerat Party	Excludes leave on medical certificate for 2 months from 10th October to 9th December 1877. Service reckoned up to 30th April 1879. Leave on medical certificate for 6 months, from 1st May 1879.
149	„ L. F. Berkeley ... [Rev.]	...	25 4 3	Ditto ...	Ditto ...	120 0 0	149	Aug. 16, 1875	...	3 4 3	Ghazipur District [Cadastral] Survey, N.-W. P.	
150	„ J. M. Kennedy ... [G. T. S.]	...	23 1 28	Ditto ...	Ditto ...	120 0 0	150	Aug. 19, 1875	...	1 1 28	Mysore Topogl. Survey.	
151	„ G. P. Tate ... [Topogl.]	...	23 5 10	Proby. Assistant Surveyor	Ditto ...	120 0 0	151	Mar. 12, 1878	...	1 5 10	Gwalior and C. I. Topogl. Survey	Apprentice from 1st March 1874.
152	„ P. C. H. Smart ... [Rev.]	...	23 10 2	Ditto ...	Ditto ...	120 0 0	152	Apl. 18, 1878	...	1 10 2	Banda, &c., Dists. [Cadastral] Survey, N.-W. P.	
153	„ W. H. D. Ewing ... [Rev.]	...	22 4 7	Ditto ...	Ditto ...	120 0 0	153	Apl. 15, 1878	...	0 4 7	Ghazipur Dist. [Cadastral] Survey, N.-W. P.	
154	„ C. George ... [Topogl.]	...	26 9 23	Ditto ...	Ditto ...	120 0 0	154	Sept. 5, 1878	...	5 0 23	Khandesh and Native States [Topogl.] Survey.	Previous service as Sub-Surveyor from 16th August 1874.
155	„ J. C. Kelly ... [Rev.]	...	22 2 23	Ditto ...	Ditto ...	120 0 0	155	Oct. 11, 1878	...	0 2 23	Dera Ismail Khan Dist. Survey, Punjab.	
156	„ A. George ... [G. T. S.]	...	...	Ditto ...	Ditto ...	120 0 0	156	Oct. 15, 1878	...	...	Guzerat Survey.	
157	„ R. W. Senior ... [G. T. S.]	...	19 1 18	Ditto ...	Ditto ...	120 0 0	157	Dec. 21, 1878	...	...	Rajputana Topogl. Survey.	

## Disposition List of the Officers of the Survey

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>Madras Party.</i> On the South-East Coast of the Peninsula between Madras and Cape Comorin; recess quarters at Bangalore ...	No.	No.	No.	No.	No.	No.	Ra.
		...	...	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>Darjeeling Survey.</i> Special Survey operations in and around Darjeeling ...	...	1	54	1	12	...	...
	<i>Northern 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	...	...

## of India as it stood on the 1st January 1880.

Officer in charge.	Number in General Lists.	Rank and Grade.	Date of assuming charge.	REMARKS.
Lt.-Col. B. R. Branfill, B. C. ... Mr. C. D. Potter... " A. Bryson ...	6 83 111	Depy. Supdt., 2nd grade Assistant Surveyor, 1st grade. Ditto, 3rd grade.	... June 1, 1877.	
H. Beverley, Esq. ... Mr. J. Low ... " J. F. McCarthy ...	8 19 133	Surveyor, 1st grade Surveyor, 2nd grade. Ditto, 3rd grade.	... May 17, 1879.	Officiating in charge.
W. G. Beverley, Esq. ... Mr. J. O. Hughes ...	51 126	Asst. Supdt., 3rd grade, offg. in the 2nd grade. Assistant Surveyor, 3rd grade.	Oct. 15, 1878.	
Lieut. H. J. Harman, B. E. ... Mr. W. O'Sullivan ... " W. Robert ... " D. J. Collins ...	55 53 109 138	Asst. Supdt., 3rd grade, offg. in 2nd grade. Surveyor, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 4th grade.	Oct. 6, 1874.	
Capt. M. W. Rogers, B. E. ... Mr. W. C. Price ... " C. P. Torrens ...	35 57 104	Asst. Supdt., 1st grade ... Surveyor, 4th grade. Assistant Surveyor, 2nd grade.	... Nov. 1, 1879.	
Major A. Pullan, S. C. ... Mr. N. C. Gwynne ... " W. Fielding ... " G. T. Hall ... " P. F. Prunty ... " J. Keating ...	21 55 96 130 141 142	Depy. Supdt., 3rd grade Surveyor, 4th grade. Assistant Surveyor, 2nd grade. Ditto, 3rd grade. Ditto, 4th grade. Ditto, 4th grade.	... Apl. 26, 1879.	
Lieut. Col. C. T. Haig, B. E. ... Mr. A. D'Souza ... " A. Christie ... " C. H. McA. Fee ... " A. Bond ... " S. F. Norman ... " C. Norman ... " R. F. Warwick ... " A. George ...	8 13 50 67 82 144 145 148 156	Depy. Supdt., 2nd grade Surveyor, 1st grade. Ditto, 4th grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 4th grade. Ditto, 4th grade. Ditto, 4th grade. Proby. Asst. Surveyor, 4th grade.	... Oct. 5, 1878	

Disposition List of the Officers of the Survey

of India as it stood on the 1st January 1880 —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 Additional Party.</i> Carrying on Electric Determinations of Longitude ...	No. ...	No. ...	No. 24	No. ...	No. 3	No. ...	Rs. ...
	<i>No. 2 Additional Party.</i> Carrying on Electric Determinations of Longitude ...	...	1	10	...	3	...	...
	<i>Tidal and Leveling Operations.</i> Tidal operations at various Ports ...	5	1	36	1	12	...	...
	Leveling operations in Bombay Presidency; recess quarters at Poona.	...	...	...	...	...	...	...

Officer in charge.	Number in General Lists.	Rank and Grade.	Date of assuming charge.	REMARKS.
Captain A. W. Baird, B. E. ...	44	Asst. Supdt., 2nd grade, offg. in 1st grade.	July 2, 1877.	
Mr. G. Belcham ...	42	Surveyor, 4th grade.		
" T. H. Rendell ...	70	Assistant Surveyor, 1st grade.		
" E. J. Connor ...	75	Ditto, 1st grade.		

*Disposition List of the Officers of the Survey of India as it stood on the 1st January 1880—continued.*

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.	Officer in charge, Surveyors and Assistant Surveyors.	Number in General Lists.	Rank and Grade.	Date of assuming charge.	REMARKS.
		Sub-Surveyors.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Barkundazes.	Apothecary.						
		No.	No.	No.	No.	No.	No.	Rs.					
1	Native States in Rajputana Agency, Udeypore and Sirohi Topographical Survey.	6	...	135	1	20	...	62,250	Captain E. H. Steel, s.c. (in charge)	39	Asst. Supdt., 2nd grade, Offg. in 1st grade.	Oct. 20, 1879.	
									Mr. W. J. Cornelius ...	80	Asst. Surveyor, 1st grade.		
									" P. J. W. Doran ...	86	Ditto, 2nd grade.		
									" C. T. Templeton ...	113	Ditto, 3rd grade.		
									" A. Kitchen ...	124	Ditto, 4th grade.		
									" G. P. Tate ...	151	Proby. ditto, 4th grade.		
2	Khandesh and Bombay Native States Topographical Survey.	9	1	133	1	12	...	54,000	Captain W. J. Heaviside, B. E. (in charge).	29	Depy. Supdt., 3rd grade	Oct. 24, 1879.	
									Mr. A. G. Wyatt ...	39	Surveyor, 4th grade.		
									" J. A. Barker ...	78	Asst. Surveyor, 1st grade.		
									" F. E. Warde ...	112	Ditto, 3rd grade.		
									" G. VanderBeek ...	122	Ditto, 3rd grade.		
									" E. Graham ...	134	Ditto, 4th grade.		
									" C. George ...	154	Proby. ditto, 4th grade.		
5	Schore, Agar, Indore, Bhopawar, Agencies of Central India Agency, Topographical Survey.	5	...	140	1	8	...	64,000	Captain J. R. Wilmer, s. c. (in charge).	47	Asst. Supdt., 2nd grade, offg. in 1st grade.	Sept. 1874.	
									Mr. D. Atkinson ...	16	Surveyor, 2nd grade.		
									" C. F. Hauser ...	49	Ditto, 4th grade.		
									" E. A. Wainright ...	76	Asst. Surveyor, 1st grade.		
									" H. T. Kitchen ...	91	Ditto, 2nd grade.		
									" W. H. Lilley ...	95	Ditto, 2nd grade.		
									" G. R. Copping ...	136	Ditto, 4th grade.		

*Disposition List of the Officers of the Survey of India as it stood on the 1st January 1880 —continued.*

Number of Party.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.	Officer in charge. Surveyors and Assistant Surveyors.	Number in General Lists.	Rank and Grade.	Date of assuming charge.	REMARKS.
		Sub-Surveyors.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Barkundazes.	Apothecary.						
		No.	No.	No.	No.	No.	No.	Rs.					
6	Nágá Hills on the Eastern Frontier, Assam, Topographical Survey.	6	1	137	1	9	...	68,000	Major W. F. Badgley, s. c. (in charge). Mr. A. W. Chennell... " J. McCay ... " A. W. Smart ... " D. Campbell ...	27 64 116 121 146	Asst. Supdt., 1st grade, Offg. Deputy Supdt., 3rd grade. Asst. Surveyor, 1st grade. Assistant Surveyor, 3rd grade. Ditto, 3rd grade. Ditto, 4th grade.	Aug. 11, 1873.	
7	Meywar, Marwar, Godwar, Shahpura, Mhairwara and Ajmere, in the Rajputana Agency, and at Simla; Topographical Survey.	6	2	128	1	18	...	60,000	Lieut.-Col. G. C. Deprec, s. c. (in charge). Mr. G. A. McGill ... " E. S. P. Atkinson ... " J. H. Wilson ... " W. C. G. Barckley ... " R. W. Senior ...	5 7 38 93 120 157	Depy. Supdt., 1st grade ... Surveyor, 2nd grade. Ditto, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 3rd grade. Prob. Asst. Surveyor, 4th grade.	Nov. 1, 1877.	
8	Mysore Topographical Survey ...	5	...	100	...	23	...	72,000	Captain G. Strahan, R. E. (in charge). Captain J. R. McCullagh, R. E. ... Mr. R. W. Chew ... " L. J. Pocock ... " A. James ... " F. Kitchen ... " W. Stotesbury ... " Hugh Todd ... " G. L. Fleming ... " G. A. Knight ... " J. M. Kennedy ...	16 46 18 48 65 68 69 77 134 137 143	Depy. Supdt., 2nd grade ... Asst. Supdt., 2nd grade, offg. in 1st grade Surveyor, 2nd grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 1st grade. Ditto, 1st grade. Ditto, 4th grade. Ditto, 4th grade. Ditto, 4th grade.	Nov. 1, 1879.	
9	Mysore Topographical Survey ...	5	1	100	1	23	...						

## Disposition List of the Officers of the Survey

India as it stood on the 1st January 1880—continued.

Number of Party. Revenue Branch.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party. Rs.
		Sub-Surveyors, &c.	Writers.	Levellers.	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. 1	No. ...	No. 200	No. 1	No. 15	...
2	Hanthawaddy District (Cadastral) Survey, British Burma.  Recess quarters at Rangoon.	19	1	...	176	1	10	...
3	Saharanpur and Muzaafarnagar Districts [Topogl. Survey], North-Western Provinces.  Recess quarters at Mussoorie.	30	1	...	200	1	17	...
4	Ghazipur District [Cadastral Survey], North-Western Provinces.  Recess quarters at Nynce Tal.	31	1	...	140	1	13	...
5	Banda and Mirzapur Districts [Cadastral Survey], North-Western Provinces.  Recess quarters at Nynce Tal.	25	1	...	188	1	17	...
6	Jaunpur District [Cadastral Survey], North-Western Provinces.  Recess quarters at Hazaribagh.	30	1	...	200	1	14	...

Officers in charge, Surveyors and Assistant Surveyors.	Number in General Lists.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
Lieut.-Colonel D. MacDonald, s. c. in charge. Captain H. Lees Smith, s. c., M. A. LL. B. Mr. W. S. Buttress ... " A. J. Gibson ... " R. Todd ... " P. A. Peters ... " J. C. Kelly ...	12 30 29 37 53 139 155	Depy. Supdt., 2nd grade. Asst. Supdt., 1st grade. Surveyor, 4th grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 4th grade. Proby. ditto, 4th grade.	Dec. 6, 1879.	
Captain J. E. Sandeman, s. c. (in charge). Mr. F. Grant ... " H. Dowman ... " C. A. R. Scanlan ... " D. A. King ... " J. Murphy ... " B. M. Wilson ...	26 15 41 52 63 102 127	Depy. Supdt., 3rd grade ... Surveyor, 2nd grade. Ditto, 4th grade. Ditto, ditto. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade.	Dec. 1, 1878.	
Major W. H. Wilkins, s. c. (in charge). E. C. Ryall, Esq. ... Mr. J. Todd ... " R. C. D. Ewing ... " C. W. Wilson ... " C. W. F. Seyers ...	23 56 60 79 87 71	Depy. Supdt., 3rd grade. Asst. Supdt., 3rd grade, offg. in 2nd grade Surveyor, 3rd grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade.	Dec. 1, 1877.	
Major W. Barron, s. c. (in charge). Mr. W. A. Wilson ... " H. T. Hanby ... " S. O. Madras ... " W. D. Corbett ... " L. F. Berkeley ... " W. H. D. Ewing ...	15 36 43 99 103 149 153	Depy. Supdt., 3rd grade ... Surveyor, 3rd grade. Ditto, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 3rd grade. Asst. Surveyor, 4th grade. Proby. ditto, 4th grade.	Nov. 12, 1873.	
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 ... " E. P. S. Hill ... " P. C. H. Smart ...	1 43 5 26 62 100 128 152	Depy. Supdt., 1st grade ... Asst. Supdt., 2nd grade. Surveyor, 2nd grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade. Proby. ditto, 4th grade.	Nov. 1, 1871.	
E. T. S. Johnson, Esq. (in charge) Mr. J. S. Pemberton ... " P. A. G. Cowley ... " J. H. O'Donel ... " J. S. Swiney ... " E. J. Martin ... " E. H. S. Gasper ... " C. S. Kraal ...	19 34 24 54 105 90 129 143	Depy. Supdt., 3rd grade ... Surveyor, 3rd grade. Ditto ditto. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 4th grade.	Oct. 1, 1872.	

*Disposition List of the Officers of the Survey of India as it stood on the 1st January 1880—concluded.*

Number of Party. Revenue Branch.	WHERE EMPLOYED.	STRENGTH OF LOWER SUBORDINATE ESTABLISHMENT IN ALL GRADES.						Annual Cost of Party.
		Sub-Surveyors, &c.	Writers.	Levellers.	Chainmen or Measurers.	Hospital Assist- ant.	Burkundazes.	
		No.	No.	No.	No.	No.	No.	Rs.
7	Khorda Estate [Cadastral Survey], Pooree District, Orissa, Bengal.  Recess quarters at Cuttack.	31	1	...	180	1	16	...
8	Bassein District, British Burma.  Recess quarters at Rangoon.	9	1	...	176	1	10	...
9	Cuttack District [Irrigation Survey], Orissa, Bengal ...  Recess quarters at Cuttack.	8	...	...	14	1	4	...
10	North Deccan [Topog. Survey] Districts, Ahmednagar, Poona and Konkan, Bombay Presidency.  Recess quarters at Poona.	18	1	...	165	1	16	...
11	South Deccan [Topog. Survey] Districts, Sholapur, Satara and Konkan, Bombay Presidency.  Recess quarters at Poona.	16	1	...	165	1	12	...

Officers in charge, Surveyors and Assistant Surveyors.	Number in General Lists	Rank and Grade.	Date of assum- ing charge.	REMARKS.
J. Campbell, Esq., in temporary charge ... W. R. Vvall, Esq. ... Mr. T. H. Dunne ...	28 14 73	Asst. Supdt., 1st grade ... Surveyor, 4th grade. Asst. Surveyor, 1st grade.	Oct. 10, 1879.	
Major D. C. Andrew, s. c. (in charge). E. C. Barrett, Esq. ... Mr. H. R. Littlewood ...  " P. Ford ... " C. W. J. Ford ... " G. Campbell ...	20 45 35  59 119 61	Depy. Supdt., 3rd grade ... Asst. Supdt., 2nd grade. Surveyor, 3rd grade.  Asst. Surveyor, 1st grade Ditto, 3rd grade. Ditto, 3rd grade.	Nov. 1, 1879.	
H. B. Talbot, Esq. (in charge) ... Mr. G. W. Jarbo ... " J. R. Scott ...	32 84 85	Asst. Supdt., 1st grade ... Asst. Surveyor, 2nd grade. Ditto, 2nd grade.	Nov. 28, 1878	This party will be abolished on completion of office computations.
Colonel J. Macdonald, s. c. (in charge). G. H. Cooke, Esq. ... Mr. A. M. Lawson ... " J. Newland ... " W. M. Kelly ... " R. R. Dickenson ...	2 48 44 56 123 132	Depy. Supdt., 2nd grade ... Asst. Supdt., 3rd grade, offg. in 2nd grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade. Ditto, 3rd grade. Ditto, 3rd grade.	May 6, 1879.	
Major H. S. Hutchinson, s. c. (in charge). Mr. S. M. Smylie ... " J. Hickie ... " G. C. Swiney ... " W. H. Pentrose ... " G. A. Knight ...	40 28 94 101 110 137	Asst. Supdt., 2nd grade, offg. in 1st grade Surveyor, 3rd grade. Asst. Surveyor, 2nd grade. Ditto, 2nd grade. Ditto, 2nd grade. Ditto, 4th grade.	Oct. 27, 1878.	

Classified List of Officers of the Mysore Revenue

Survey Department as it stood on the 1st January 1880.

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	...
<i>1st Grade.</i>			
1	Major J. Rutherford ...	Assistant Superintendent	Offg. Deputy Superintendent
2	" G. Mackenzie ...	Ditto	Assistant Superintendent
3	Captain J. B. Lawrence ...	Ditto	Ditto
4	Mr. E. H. Butcher ...	Ditto	Ditto
5	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
9	Mr. G. F. Meiklejohn ...	Ditto	Ditto
<i>2nd Grade.</i>			
1	Captain D. Cowie ...	Assistant Superintendent	Assistant Superintendent
2	Mr. W. E. A. James ...	Ditto	Ditto
3	" F. B. Clerk ...	Ditto	Ditto
4	Captain A. McCally ...	Ditto	Ditto
<i>4th Grade.</i>			
1	Mr. A. G. Hudson ...	Assistan* Superintendent	Assistant Superintendent
2	" E. W. Laseron ...	Ditto	Ditto

SALARIES, INCLUDING ALLOWANCES.				REMARKS.
TO MILITARY OFFICERS.			TO CIVILIANS.	
Military Pay and Allowances.	Staff Pay.	Aggregate Pay and Allowances.	Civil Consolidated Salary.	
5	6	7	8	9
		Rs. A. P.	Rs. A. P.	
		500 0 0	.....	
		1,565 14 0	.....	
		995 0 0	.....	On furlough to Europe, from 28th March 1879.
		995 0 0	.....	
		795 0 0	.....	
		795 0 0	.....	On furlough to Europe, from 1st November 1879.
		.....	795 0 0	
		795 0 0	.....	
		795 0 0	.....	Returned to Military duty on the 27th July 1879.
		795 0 0	.....	
		.....	795 0 0	On furlough to Europe for one year, from 16th September 1879.
		695 0 0	.....	
		.....	695 0 0	On furlough to Europe on medical certificate, from 26th May 1879.
		.....	695 0 0	
		695 0 0	.....	
		.....		
		.....	460 0 0	
		.....	460 0 0	

General List of Officers of the Mysore Revenue

Survey Department on the 1st January 1880.

1	2	3	4	5	6	7
Genl. Seniority Number.	NAMES.	Passed in the Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			Rs. A. P.
1	The Hon'ble Col. W. C. Anderson ...	All have passed in the Vernacular.	57 5 5	Survey and Settlement Commissioner	...	500 0 0
2	Major J. P. Grant ...		41 9 0	Superintendent	...	1,340 14 0
3	" J. W. M. Anderson ...		42 2 10	Deputy Superintendent	...	860 0 0
4	" J. Rutherford ...		37 11 22	Offg. Deputy Superintendent	...	860 0 0
5	Mr. E. H. Butcher ...		43 6 2	Assistant Superintendent	...	660 0 0
6	Captain M. F. Coussmaker ...		36 7 20	Ditto	...	660 0 0
7	Mr. J. P. Barker ...		32 3 16	Ditto	...	660 0 0
8	" G. F. Meiklejohn ...		31 8 0	Ditto	...	660 0 0
9	" W. E. A. James ...		37 6 25	Ditto	...	660 0 0
10	" F. B. Clerk ...		35 4 13	Ditto	...	560 0 0
11	Captain J. B. Lawrence ...		38 2 3	Ditto	...	660 0 0
12	" A. H. Macintire ...		31 10 11	Ditto	...	560 0 0
13	" D. Cowie ...		39 0 15	Ditto	...	560 0 0
14	" A. McCally ...		36 1 24	Ditto	...	560 0 0
15	" R. L. Price ...		37 0 20	Ditto	...	660 0 0
16	Major G. Mackenzie ...		38 5 28	Ditto	...	660 0 0
17	Mr. A. G. Hudson ...		21 8 2	Ditto	...	355 0 0
18	" E. W. Laseron ...		35 8 7	Ditto	...	355 0 0

8	9	10	11	12
Date of first appointment to the Department.	Date of appointment to present grade.	Period* of service counting for pension.	Present Post.	REMARKS.
		Y. M. D.		
Sept. 28, 1863	Sept. 28, 1863	...	Survey and Settlement Commissioner.	
Nov. 1, 1863	Jan. 15, 1868	...	Superintendent.	
Nov. 27, 1863	Nov. 1, 1869	...	Deputy Superintendent.	On furlough to Europe, from 29th March 1870.
Feb. 1, 1865	July 8, 1877	...	Offg. Deputy Superintendent.	
Oct. 2, 1865	Mar. 26, 1876	14 2 29	Assistant Superintendent.	
Dec. 24, 1865	Feb. 5, 1879	...	Ditto	
Dec. 22, 1866	Dec. 5, 1878	10 3 2	Ditto	Returned to Military duty on the 27th July 1870.
Nov. 30, 1867	June* 1, 1879	8 11 23	Ditto	
Dec. 1, 1867	June 8, 1876	10 7 9	Ditto	* Vide Government of India Notification No. 1573, dated 30th August 1879.
Jan. 16, 1868	Nov. 26, 1875	11 11 15	Ditto	
Jan. 15, 1869	Mar. 10, 1876	...	Ditto	
Dec. 6, 1869	Jan. 8, 1879	...	Ditto	
Dec. 3, 1870	Dec. 2, 1874	...	Ditto	On furlough on medical certificate to Europe, from 25th May 1879.
Jan. 18, 1872	May 1, 1878	...	Ditto	
Nov. 1, 1872	Aug. 25, 1878	...	Ditto	
Oct. 31, 1873	Nov. 1, 1873	...	Ditto	On furlough to Europe, from 1st November 1879.
Nov. 23, 1876	Oct. 25, 1877	...	Ditto	
March 22, 1877	May 24, 1878	10 8 0	Ditto	

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

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 have been arranged in consecutive order.



Disposition List of Officers of the Mysore Revenue Survey Department on the 1st January 1880.

Number of Party.	Where employed.	STRENGTH OF SUBORDINATE ESTABLISHMENTS IN ALL GRADES.						Annual Cost of Party from 1st Jan. 1879 to 1st Jan. 1880.
		Sub-Surveyors.	English Clerks.	Karkoons.	Learners.	Mappers.	Peons.	
1	2	3	4	5	6	7	8	9
		No.	No.	No.	No.	No.	No.	Ra.
1	Mysore and Bombay Provinces ...	...	1	1	...	...	2	8,856
2	Mysore Province ...	4	2	66	...	28	9	30,555
3	Ditto ...	...	3	9	...	...	4	21,109
	<b>TOTAL</b> ...	<b>4</b>	<b>6</b>	<b>76</b>	<b>...</b>	<b>28</b>	<b>15</b>	<b>69,520</b>
<i>Measuring Establishments.</i>								
4	Kolar District ...	30	...	2	8	...	2	16,762
5	Hassan ditto ...	27	...	2	11	...	2	15,628
6	Kolar ditto ...	19	...	2	6	...	2	15,385
7	Ditto ditto ...	24	...	2	8	...	2	14,216
8	Hassan ditto ...	27	...	3	13	...	2	18,174
9	Tumkur ditto ...	21	...	2	6	...	2	12,321
10	Hassan ditto ...	25	...	3	8	...	2	11,473
11	...	...	...	...	...	...	...	12,804
12	...	...	...	...	...	...	...	8,341
	<b>TOTAL</b> ...	<b>173</b>	<b>...</b>	<b>16</b>	<b>60</b>	<b>...</b>	<b>14</b>	<b>1,25,094</b>
<i>Classing Establishments.</i>								
13	Bangalore District ...	11	...	1	6	...	2	11,134
14	Hassan ditto ...	12	...	1	7	...	2	14,408
15	Tumkur ditto ...	9	...	1	5	...	2	13,307
	<b>TOTAL</b> ...	<b>32</b>	<b>...</b>	<b>3</b>	<b>18</b>	<b>...</b>	<b>6</b>	<b>38,849</b>
	<b>GRAND TOTAL</b> ...	<b>209</b>	<b>6</b>	<b>95</b>	<b>78</b>	<b>28</b>	<b>35</b>	<b>2,33,463</b>

Officer in charge.	Number in General List.	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.	
Major J. Rutherford	4	Offg. Deputy Superintendent	July 8, 1877.	
Mr. J. P. Barker	A. ... 7	Assistant Supdt., 1st grade	Aug. 18, 1878.	
Captain J. B. Lawrence	B. ... 11	Ditto, 1st do.	Oct. 28, 1880.	
Mr. F. B. Clerk	D. ... 10	Ditto, 2nd do.	Nov. 26, 1869.	
Captain A. McCally	F. ... 14	Ditto, 2nd do.	May 2, 1878.	
" A. H. Macintire	G. ... 12	Ditto, 1st do.	Nov. 1, 1879.	
Mr. E. W. Lasecon	H. ... 18	Ditto, 4th do.	Jan. 20, 1879.	
" A. G. Hudson	L. ... 17	Ditto, 4th do.	Jan. 1, 1878.	
	K. ...			
	I. ...			
Mr. W. E. A. James	C. ... 9	Assistant Supdt., 2nd grade	July 27, 1879.	
" E. H. Butcher	E. ... 5	Ditto, 1st do.	Jan. 26, 1867.	
Captain R. L. Price	M. ... 15	Ditto, 1st do.	Nov. 1, 1879	

(These two Establishments have been absorbed.)

### Classified List of Officers of the Coorg Survey

No. of Officers in each grade.	NAME.	Substantive Appointment.				Duty on which at present employed.
		3				
		4				
1	C. R. Hanumant Rao	...	...	...	...	Manager
2	W. Muttanah	...	...	...	...	Head Surveyor
3	T. Rungasawmy Pillay	...	...	...	...	Depy. ditto
4	Razamah	...	...	...	...	Depy. ditto
5	Venketrao	...	...	...	...	Head Peon
6	Goolam Hoossain	...	...	...	...	Guard Peon
7	Sannah	...	...	...	...	Peon
8	Erappah	...	...	...	...	Do.
9	Ramah	...	...	...	...	Do.
10	Thimiah	...	...	...	...	Do.
11	Kumbuh	...	...	...	...	Do.
12	Govindu	...	...	...	...	Do.
13	Khasim	...	...	...	...	Do.
14	Issur	...	...	...	...	Do.
COORG DISTRICT OFFICE ESTABLISHMENT AND OFFICERS.						
<i>Nil.</i>						
COORG CENTRAL SURVEY OFFICE.						
3	J. Rathnam Moodaly	...	...	...	...	Draftsman
	E. Chengalroya Moodaly	...	...	...	...	Ditto
	Syed Azinzullah	...	...	...	...	Ditto
	A. Kristnasawmy Moodaly	...	...	...	...	Computer
	C. P. Ramasawmyer	...	...	...	...	Ditto
	Anantha Ramiah	...	...	...	...	Ditto
						Plotting Maps
						Ditto
						Ditto
						Computation of areas, &c.
						Ditto
						Ditto

### Department as it stood on the 1st January 1880.

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	
Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	9
.....	.....	.....	60 0 0	
.....	.....	.....	60 0 0	
.....	.....	.....	15 0 0	
.....	.....	.....	20 0 0	
.....	.....	.....	8 0 0	
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				7 0 0
				7 0 0

*N. B.*—The Topographical Survey field operations of the Coorg Province being completed, the District Office has been broken up, and a permanent Survey Establishment has since been attached to the Superintendent of Coorg's Office.

### General List of Officers of the Coorg

1	2	3	4	5	6	7
Genl. Seniority List.	NAME.	Passed in the Vernacular.	Age on the 15th March or the 15th October.	Rank.	Grade.	Salary.
						Rs. A. P.
<i>Nil.</i>						

### Survey Department on the 1st January 1880.

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.
<i>Nil.</i>		Y. M. D.		

### Disposition List of Officers of the Coorg

Number of Party.	Where employed.	STRENGTH OF SUBORDINATES.								Annual Cost of the Party from 1st April 1879 to 31st March 1880.
		Sub-Assistants.	Head and Deputy Surveyors.	English Clerks.	Karkoons.	Computers.	Mappers or Draftsmen.	Peons, &c.	Rs. A. P.	
		3	4	5	6	7	8	9		
Coorg Topographical Survey Party.	In the Coorg Province	...	...	...	...	...	...	...	...	} 29,880 0 0
	In the Central Survey Office, Madras	...	...	...	...	3	3	...		
Coorg Survey.	In the Coorg Province	...	...	3†	1†	...	...	...	10	.....

### Survey Department on the 1st January 1880.

Officer in charge.	Number in General List.	Rank and Grade.	Date of assuming charge.	REMARKS.
11	12	13	14	15
31st December 1878.				
.....	.....	.....	.....	.....
Superintendent of Coorg	.....	.....	.....	* Passed Budget Grant for Topographical Survey Establishment of Coorg for 1878-80. This Establishment and grant ceases to have effect from 1st April 1880, the Topographical Survey of the District being completed and a permanent Survey Establishment being attached to the Office of the Superintendent of Coorg.  (†) 1 Head Surveyor. 2 Depy. Surveyors. 3 (‡) 1 Manager. 1 Clerk vacant.

Classified List of the Officers of the Geological

Survey of India on the 1st January 1880.

No. of Officers in each grade.	NAMES.	Substantive Appointment.	Duty on which at present engaged.
1	W. T. Blanford, A. B. S. M., F. R. S., F. G. S. ...	Senior Depy. Supdt. for Bombay ...	On furlough ...
2	William Theobald ...	Deputy Superintendent for Bengal ...	Punjab ...
3	William King, Jr., A. B., F. G. S. ...	Ditto for Madras ...	Godavari Valley ...
4	R. B. Foote, F. G. S. ...	Assistant, Geological Survey ...	On furlough ...
	<i>2nd Grade, Rs. 500, rising to Rs. 700.</i>		
1	A. B. Wynne, F. G. S. ...	Assistant, Geological Survey ...	Upper Punjab ...
2	F. R. Mallet, F. G. S. ...	Ditto ...	On furlough ...
3	Theo. W. H. Hughes, A. B. S. M., F. G. S. ...	Ditto ...	South Rewah ...
4	V. Ball, A. M., F. G. S. ...	Ditto ...	On furlough ...
5	F. Fedden, A. B. S. M., F. G. S. ...	Ditto ...	Office ...
	<i>3rd Grade, Rs. 350, rising to Rs. 500.</i>		
1	C. A. Hacket ...	Assistant, Geological Survey ...	Rajputana ...
2	R. Lydekker, A. B. ...	Ditto ...	Office ...
3	C. L. Griesbach, F. G. S. ...	Ditto ...	Ditto ...
4	R. D. Oldham A. B. S. M. ...	Ditto ...	Godavari Valley ...
	2 Vacancies ...	Ditto ...	
	<i>Separately Graded.</i>		
	O. Feistmantel, M. D. ...	Palaeontologist, 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 ...	Punjab ...
4	Hira Lall ...	Ditto ...	Office ...

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; and as Depy. Supdt., vice Mr. W. T. Blanford.
700	0 0	130	0 0	.....	.....	830	0 0	Acting in 1st Grade, vice Mr. W. T. Blanford.
700	0 0	130	0 0	.....	.....	830	0 0	
700	0 0	130	0 0	.....	.....	830	0 0	Offg. Curator.
700	0 0	130 & 150	0 0	.....	.....	980	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.
380	0 0	130	0 0	.....	.....	510	0 0	
350	0 0	130	0 0	.....	.....	480	0 0	
600	0 0	130	0 0	.....	.....	730	0 0	
375	0 0	.....	.....	.....	.....	375	0 0	
260	0 0	.....	.....	.....	.....	260	0 0	
150	0 0	.....	.....	.....	.....	150	0 0	
150	0 0	.....	.....	.....	.....	150	0 0	

General List of the Officers of the Geological

Survey of India on the 1st January 1880.

Genl. Seniority Number.	NAMES.	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
1	W. Theobald ...	...	50 8 14	Depy. Supdt. for Bengal ...	1st grade ...	1,100
2	H. B. Medlicott, A. M., F. R. S., F. G. S. ...	...	50 4 29	Supdt., Geological Survey ...	Separately graded.	1,800
3	W. T. Blanford, A. B. S. M., F. R. S., F. G. S. ...	...	47 2 25	Senior Depy. Supdt. for Bombay ...	1st grade ...	1,400
4	William King, Jr., A. B., F. G. S. ...	...	46 5 16	Depy. Supdt. for Madras ...	Ditto ...	1,100
5	R. B. Foote, F. G. S. ...	...	45 3 9	Asst., Geological Survey ...	Ditto ...	1,000
6	F. R. Mallet, F. G. S. ...	Oct. 5, 1868	38 10 19	Ditto ...	2nd grade ...	700
7	F. Fedden, A. B. S. M., F. G. S. ...	Oct. 26, 1869	40 9 10	Ditto ...	Ditto ...	700
8	C. A. Hacket ...	Oct. 5, 1868	46 5 20	Ditto ...	3rd grade ...	600
9	T. W. H. Hughes, A. B. S. M., F. G. S. ...	Aug. 3, 1868	36 4 30	Ditto ...	2nd grade ...	700
10	A. B. Wynne, F. G. S. ...	Nov. 9, 1868	44 2 17	Ditto ...	Ditto ...	700
11	V. Ball, A. M., F. G. S. ...	Oct. 1, 1867	36 5 14	Ditto ...	Ditto ...	700
12	R. Lydekker, A. B. ...	Apl. 5, 1875	30 5 7	Ditto ...	3rd grade ...	600
13	O. Feistmantel, M. D. ...	Oct. 4, 1875	31 1 10	Palaeontologist ...	Separately graded.	380
14	C. L. Griesbach, F. G. S. ...	...	32 0 21	Asst., Geological Survey ...	3rd grade ...	350
15	R. D. Oldham, A. B. S. M. ...	...	*	Ditto ...	Ditto ...	...
	<i>Non-graded Officers.</i>					
	Vacant ...	...	...	Mining Geologist ...	No grade.	375
1	J. Schaumburg ...	...	40 5 30	Artist ...	Ditto ...	260
2	W. R. Bion ...	...	27 6 15	Registrar ...	Ditto ...	150
3	Kissen Singh ...	...	29 10 6	Sub-Asst. ...	Ditto ...	150
4	Hira Lall ...	...	28 5 2	Ditto ...	Ditto ...	150

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	Apl. 1, 1876	31 2 0	Punjab.	
Mar. 24, 1854	Ditto ...	25 9 8	Office.	
Oct. 1, 1855	Ditto ...	23 5 0	On furlough.	
Mar. 4, 1857	Apl. 21, 1875	22 9 28	Godavari Valley.	
Sept. 28, 1858	Apl. 1, 1876	21 2 19	On furlough.	
Feb. 12, 1859	May 1, 1872	20 10 17	Ditto.	
Oct. 1, 1860	Mar. 24, 1878	16 6 16	Office.	
Nov. 15, 1861	May 1, 1866	16 10 16	Rajputana.	
Oct. 16, 1862	Apl. 21, 1875	13 10 24	South Rewah.	
Oct. 16, 1862	Mar. 31, 1869	14 6 23	Upper Punjab.	
Oct. 29, 1864	Apl. 1, 1876	13 8 3	On furlough.	
Nov. 5, 1874	Nov. 5, 1874	5 1 26	Office.	
Mar. 25, 1875	Mar. 10, 1877	4 9 7	Ditto.	
Sept. 26, 1878	Sept. 26, 1878	1 3 5	Ditto.	
Nov. 6, 1879	Nov. 6, 1879	0 1 25	Godavari Valley ...	* Not known yet.
Apl. 12, 1869	July 7, 1874	10 8 19	Office.	
Dec. 12, 1870	Dec. 31, 1878	4 9 0	Ditto.	
Jan. 7, 1874	Apl. 1, 1879	5 11 25	Punjab	
Ditto ...	Ditto ...	5 11 25	Office.	

Disposition List of the Officers of the Geological Survey of India on the 1st January 1880.

NAMES OF OFFICERS.	Where employed.	No. in General List.	Rank and Grade.	Date of assuming charge.	STRENGTH OF SUBORDINATE ESTABLISHMENT OF ALL GRADES.								Office Establishment.	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.		Separately graded.	Non-graded Officers.					Office Establish-ment.
					No.	No.	No.	No.	No.	No.							
H. B. Medlicott, A. M., F. R. S., F. G. S. <i>1st Grade.</i>	Office	2	Supdt., Geological Survey.	Mar. 24, 1854	4	5	4	2	4	10	20	1876-77. Office and Satpura 1877-78. Office 1878-79. Ditto	Salary and allowance ... 24,000 0 0 Travelling do. ... 193 12 0	24,193 12 0			
W. T. Blanford, A. B. S. M., F. R. S., F. G. S.	On furlough	3	Senior Depy. Supdt., Bombay.	Oct. 1, 1855								1876-77. Office and Sind 1877-78. Office 1878-79. Ditto and furlough	Salary and allowance ... 13,657 0 0 Travelling do. ...	13,657 9 0			
William Theobald	Punjab	1	Depy. Supdt., Bengal.	Nov. — 1848								1876-77. Sub-Himalaya 1877-78. Ditto 1878-79. Ditto	Salary and allowance ... 15,318 13 11 Travelling do. ... 756 6 4	16,075 4 3			
William King, Jr., A. B. F. G. S.	Godaveri Valley	4	Dy. Supdt., Madras	Mar. 4, 1857	4 first grade officers.								1876-77. Godaveri District 1877-78. Ditto 1878-79. Ditto	Salary and allowance ... 14,985 0 0 Travelling do. ... 1,076 5 0 Hospital Assistant's pay, &c. ... 966 0 0	17,027 5 0		
R. B. Foote, F. G. S.	On furlough	5	Asst., Geological Survey.	Sept. 28, 1858	4 first grade officers.								1876-77. Kistna and Godaveri 1877-78. Godaveri & Trichinopoly 1878-79. Trichinopoly, Madura & fur...	Salary and allowance ... 6,201 4 6 Travelling do. ... 380 3 6 Hospital Assistant's pay, &c. ... 174 0 0	6,755 8 0		
A. B. Wynne, F. G. S. <i>2nd Grade.</i>	Upper Punjab	10	Asst., Geological Survey.	Nov. 13, 1862								1876-77. Rawalpindi 1877-78. Upper Punjab 1878-79. Ditto	Salary and allowance ... 12,526 2 0 Travelling do. ... 572 0 0 Hospital Assistant's pay, &c. ... 596 13 0	13,694 15 0			
F. R. Mallet, F. G. S.	On furlough	6	Ditto	Feb. 12, 1859	5 second grade officers.								1876-77. Office 1877-78. Ditto and Kyook Phyoo 1878-79. Office and furlough	Salary and allowance ... 7,695 12 10 Travelling do. ...	7,695 12 10		
T. W. H. Hughes, A. R. S. M., F. G. S.	South Rawah	9	Ditto	Nov. 11, 1862	5 second grade officers.								1876-77. Godaveri & Pranhita Valley 1877-78. Ditto and furlough 1878-79. Furlough	Salary and allowance ... 1,476 3 8 Travelling do. ... 321 3 0 Hospital Assistant's pay, &c. ... 94 8 0	1,891 14 8		
Ball, A. M., F. G. S.	On furlough	11	Ditto	Oct. 29, 1864	5 second grade officers.								1876-77. Bastar and Jaypur 1877-78. Palamow Coal Field 1878-79. Ditto and furlough	On furlough.			
F. Feilden, A. R. S. M., F. G. S. <i>3rd Grade.</i>	Office	7	Ditto	Oct. 1, 1860	5 second grade officers.								1876-77. Sind 1877-78. Kattywar 1878-79. Ditto and furlough	Salary and allowance ... 10,857 4 0 Travelling do. ... 864 11 0	11,721 15 0		
C. A. Hackett	Rajputana	8	Asst., Geological Survey.	Nov. 15, 1861	4 third grade officers.								1876-77. Rajputana 1877-78. Ditto 1878-79. Ditto	Salary and allowance ... 10,117 8 0 Travelling do. ... 1,041 4 3	11,158 12 3		
R. Lydekker, A. B.	Office	12	Ditto	Nov. 26, 1874	4 third grade officers.								1876-77. Himalaya 1877-78. Ditto 1878-79. Office and Himalaya	Salary and allowance ... 8,133 5 4 Travelling do. ... 1,199 12 0	9,333 1 4		
C. L. Giesbach, F. G. S.	Ditto	14	Ditto	Nov. 11, 1878	4 third grade officers.								1878-79. Sirgajah and Himalaya	Salary and allowance ... 6,020 0 0 Travelling do. ... 1,717 6 3 Hospital Assistant's pay, &c. ... 326 3 6	8,063 9 9		
R. D. Oldham, A. R. S. M. 2 Vacancies. <i>Separately graded.</i>	Godaveri Valley	15	Ditto	Dec. 17, 1879	4 non-graded officers.								1878-79. Godaveri Valley	Salary and allowance ...	690 0 0		
O. Feistmantel, M. D. <i>Non-graded Officers.</i>	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 ... 8,685 7 9 Travelling do. ...	8,685 7 9		
Vacant			Mining Geologist.		4 non-graded officers.												
J. Schaumburg	Office	1	Artist	April 12, 1869	4 non-graded officers.								1876-77. Office 1877-78. Ditto 1878-79. Ditto	Salary ...	4,397 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 ...	2,860 0 0		
Kissen Singh	Punjab	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 ... 1,600 0 0 Travelling allowance ... 357 0 11 Chaprasai do. ... 42 13 4	1,999 14 3		
Hira Lall	Office	4	Ditto	Ditto	4 non-graded officers.								1876-77. Sind 1877-78. Satpura and Office 1878-79. Office and Sirgajah	Salary ... 1,600 0 0 Travelling allowance ... 286 14 7 Chaprasai do. ... 33 1 0	1,919 15 7		

\* From 1st December 1879

to 30th November 1879.



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