LIST OF OFFICERS

IN THB

SURVEY DEPARTMENTS

ON THE

1st JULY 1883.

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No. sanctioned.	A Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party or Office to which at present attached.	No. existing in each grade.	Consolidated Salary.	Extra allowances, if any.	Rem
1	1 Bt. Col. G. C. DePrée, s.C., P.G. T. S.] 1 Bt. Col. G. C. DePrée, s.C., P.G.H. [Topogl.] 1 LtCol. J. Sconce, S.C., P.H. [Topogl.] 1 LtCol. J. Sconce, S.C., P.H. [Topogl.] Mr. J. B. N. Hennessey, M.A., F.E.S. [G.T.S.] Major G. Strahan, R.E., P.H. [Topogl.] 1 "R. V. Riddell, E.E., P.H. [Topogl.] 2 Mr. J. O. N. James [Topogl.] 3 Major J. Waterhouse, S.C., P.H. [Topogl.]	Depy. Supdt. 2nd grade . Asst. Survr. Genl.		1 1 1 2 3	R a. p. 2,666 10 8 2,200 0 0 2,000 0 0 1,482 10 0 1,100 0 0 1,182 10 0	 (a) Presidency allowance (b) Special local and (c) Inclusive of personal (a) Presidency (a) Presidency 	 For 6 months, from 12th February 18 Officiating Surveyor General of India Officiating Deputy Surveyor General, Officiating Assistant Surveyor General, Officiating Mint Master, Bombay. In charge Lithographic and Photogeutta. Officiating Deputy Superintendent 3 regor General. In charge Math Correspondence-Dranch, Head Qu
4	SENIOR BRANCH. DEPUTY SUPERINTENDENTS. lst GRADE. 1 Mr. J. B. N. Hennessey, M.A., F.B.S. [G. T. S.] I 2 Bt. Col. F. C. Andersme, e.o., P. [Rev.] 3 Maj. H. R. Thuillier, B.E., P.H [G. T. S.]	Ditto . 1	Head Quarters, Dehra Dun In charge Mirzapur and Goruckpur Districts [Cadastra] Survey, N. W. P., Naini Tal In charge Mysore Topographical Survey, Bangalore	1 2 3	2,000 0 0 1,627 14 0 1,600 0 0	(b) Inclusive of personal.	. Officiating Deputy Surveyor General,
. 8	2 Bt. LtCol. J. Herschel, B.E., F.B.S., P.H. [G. T. S.] 3 LtCol. B. R. Branfill, B. C., P. H. [G. T. S.] 4 Major G. Straban, B.E., P.H. [Topogl.]	Ditto . O Ditto . O Ditto . H	n oharge Guzerat Survey, Poona	1 2 3 4	1,600 0 0 1,482 10 0	(d) Half scale local	. Officiating Deputy Superintendent, For I year, from 10th November 188 . Officiating Assistant Surveyor Gener
6 7 8 9	6 LtCol. D. Macdonald, 8.C., Ρ.Π. [Rev.] 7 ,, F. Coddington, 8.C., Ρ.Π. [Rev.] 8 Bt. LtCol. W. M. Campbell, B.B. Passed [G T S.]	Ditto O Ditto O	n charge Khandesh and Bombay Native States, Topogl. Survey, Poona n charge Hissar districts Survey, Punjab, Murree n furlough n furlough n deputation	5 6 7 8 9	1,482 10 0 1,300 0 0	(d) Haif scale local.	 For 183 days, from 9th November 18 extension for 274 days. For 1 year and 1 day, from 24th Marc. Officiating Mint Master, Bombay.
∳ 8 j: 4	Mr. J. O. N. James . [Topogl.]	Ditto . In Ditto . In Ditto . In	charge Central India and Rajputana Copogl. Survey, Mussoorie charge Meerut, &c., District Survey, North-Western Provinces, Mussoorie charge Benares, &c., Districts [Cadastral] Survey, N. W. P., Naini Tal. charge Darjeeling and Nepal Boundary arties charge Nos. 1 and 2 Astronomical Parties	1 2 3 4 5	1,492 10 0 1,300 0 0 1,300 0 0 1,300 0 0 1,492 10 0	(d) Full scale local	. Officiating Deputy Superintendent, 2 Assistant Surveyor General, and Offi grado. Officiating Deputy Superintendent, 2 Ditto ditto.

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No. existing in each grade.	Consolidated Salary.	Extra allowances, if any.	Rемав қе.
	R a. p.		•
1 1	2,666 10 8		for 8 months, from 12th February 1889, Extension for 8 months. Melating Surveyor General of India.
1	2,200 0 0		•
	2,000 0 0		• Officiating Deputy Surveyor General, in charge Trigonometrical Surveys.
	1,482 10 0	(a) Presidency allowance	Dening Assistant Surveyor General. In charge Engraving and Carto-
1			graphic Dranches, Head Quarters Calcutta. Officiating Mint Master, Bombay.
2			
3	1,100 0 0	(b) Special local and (c) Inclusive of personal . 1	In charge Lithographic and Photographic Branches, Head Quarters Cal- culta.
	1,182 10 0	(a) Presidency	Officialing Deputy Superintendent 3rd grade. Officialing Assistant Sur- veyor General. In charge Mathematical Instrument Department, and Correspondence-Dranch, Head Quarters, Calentta.
1	2,000 0 0		Officiating Depaty Surveyor General, in charge Trigonomotrical Surveys.
2	1,627 14 0	(b) Inclusive of personal.	
3	1,600 0 0		
		, ,	
·			
1	1,600 0 0	(d) Half scale local	Officiating Deputy Superintendent, 1st grade.
2			· · ·
3			For I year, from 10th November 1682.
4	1,482 10 0	(a) Presidency	Officiating Assistant Surveyor General.
5	1,482 10 0	(d) Half scale local	
6	1,300 0 0	(d) Half scale local.	
7			For 183 days, from 9th November 1892. Extension for 01 days. Further extension for 274 days.
8			For 1 year and 1 day, from 24th March 1883.
9	· · · ·	l	Officiating Mint Master, Bombay.
1	1,482 10 0		Officiating Deputy Superintendent, 2nd grade.
2	1,300 0 0		Assistant Surveyor General, and Officiating Deputy Superintendent, 2nd
3	1,300 0 0		grado. Officiating Depu ty Superintendent, 2nd grade.
		•	
4 5	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	(d) Full scale local	Ditto ditto. Ditto ditto.
1	1	1	

Department of Agriculture, Revenue and Commerce, No. 213, dated 14th May 1878. Department of Revenue Agriculture, and Commerce Memorandum No. 731, dated 31st October 1873. Department of Revenue and Agriculture, No. 3035, dated 16th Soptember 1882. Pinandal Machinica No. 2014, dated South Science 1882.

Classified List of the Officers of the Senior Department of the

Survey of India as it stood on the 1st July 1883-concluded.

No. sanctioned .	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party or Office to which at present attached.			No. existing in each grade.	Consolidated Salary.	Extra allowances, if any.	Вемарк я.
	BENIOR BRANCH-concid. DEPUTY SUPERINTENDENTS-concid. Sud Grade-concid.	•			-		R a. p.	•	э. с
ľ	7 Major D. C. Andrew, в.С., р.н [Rev.] 8 ,, W. H. Wilkins, в.С., р.н •[Rev.]	Depy. Supdt., 3rd grade . Ditto . Ditto . Ditto .	In charge Kattywar and Cutch Survey, Poona In charge South Deccan Topogl. Survey, Poona Ou furlough			6 7 8	1,100 0 0 1,100 0 0	allowance. (a) Ditto Ditto.	For 273 days, from 8th June 1889.
-10		Ditto Ditto .	Head Quarters Calcutta On furlough In charge Kohnt Frontier, Topographical Survey, Mussoorie			9 10 11	1,100 0 0 1,182 10 0	(c) Presidency. (b) Inclusive of personal.	For 1 year, from 10th March 1992. Extension for one year.
	2 " M. W. Rogers, B.E., L.S [G. T. S.]	Depy. Supdt., 4th grade . Ditto . Ditto .	Head Quarters Calcutta		· 	1 2	1,100 0 0 1,182 10 0	personal. (c) Presidency	Officialing Deputy Superintendent, 2rd grade, Assistant Surveyor Gener. Officialing Deputy Superintendent, 3rd grade. Officialing Assistant S veyor General.
-4 6 6	4 Mr. H. Horst [Topogl.] 5 "W. H. Cole, м.л., н.з [G. T. S.]	Ditto Ditto Ditto	In charge Konkan Topogl. Survey, Poona In charge Burma Topogl. Survey, Rangoon Offg. in charge Head Quarters Office, Dehra Dun In charge Tharawaddy and Prome Dis- tricts [Cadastral] Survey, British Burma,			9 4 5	1,182 10 0 1,000 0 0 1,000 0 0	(a) Half scale local	Ditto ditto. Ditto ditto. Ditto ditto.
8	Major A. W. Baird, B.E., P.H [G. T. S.] ,, J. R. McCullagh, B.E., I.S [G. T. S.]	Ditto . Ditto .	Rangoon In charge Tidal and Leveling operation India and Burmah, Poona. In charge Pegu and Shuaygheen Districts [Cadastral] Survey, and Burma Party, British Burma, Rangoon			6 7 9	1,000 0 0 1,182 10 0 1,032 10 0	(g) Burma	Dilto dilto. Ditto ditto.
9 10 11		Ditto . Ditto . Ditto .	In charge Mirzapur Topogl. Survey, Mussoorie In charge Secondary Triangulation Party, Mussoorie In charge Hooghly River Survey, Calcutta	1 41		9 10 11	950 0 0 850 0 0 950 0 0	(e) Inclusive of personal.(c) Inclusive of personal.	
11	ASSISTANT SUPERINTENDENTS. . JST GBADE.				,				
1 2 3 4	р. П. S. Hutchinson, в.с., р.н. [Rev.]	Asst. Supdt., 1st grade . Ditto . Ditto . Ditto .	On furlough In charge Bassein and Henzada Districts [Ca- dastral] Survey, British Burma, Rangoon Burma Topgl. Survey, Rangoon In charge Beluchistan Topogl. Survey		*	1 2 3 4	 950 0 0 850 0 0 950 0 0	 (g) Burma and (e) Inclusive of personal (g) Burma (e) Inclusive of personal and (i) Local 	For one year, from 8th December 1891. Extension for 6 months. Furth extension for 4 months and 10 days. Officiating Deputy Superintendent, 4th grade. Ditto ditto. Ditto ditto.
6 7	[Topogl.] Mr. G. H. Cooke, L.e [Rev.] ,, E. J. Jackson, H.s [Rev.]	Ditto . Ditto . Ditto .	In charge North-East Frontier Topogl. Sur- vey, Shillong Meerut, &c., Districts Survey, N. W. P. Pegu and Shuaygheen Districts [Cadastral] Survey, British Burma, Rangoon Head Quarters Simla		>	5 6 7	990 0 0 850 0 0 850 0 0 850 0 0	(j) Assau	Titto ditto. Ditto ditto. Ditto ditto. Ditto ditto.
9 10 11	Captain St. G. C. Gore, B.B	Ditto . Ditto . Ditto . Ditto .	Darjeling Survey Guzerak Survey, Poona Central India and Rajputana Topogl. Sur- vey, Mussoorie		-	8 9 10 11	600 0 0	(c) Presidency (a) Full scale, local. (a) Half scale, local.	
6 1 2 3 4	I Lieut. F. B. Longe, B. E. . . 2 . R. A. Wahab, B. B., H. S. . . 3 Mr. W. H. Patterson, L. S. . . .	Asst. Supdt., 2nd grade . Ditto . Ditto . Ditto .	Mysore Topogl. Survey, Bangalore Central India and Rajputana Topogl. Sur- vey, Mussoorie Mirzapur Topogl. Survey, Mussoorie Tharawaddy and Prome Districts, [Cadas-			1 2 3	670 0 0 · 670 0 0 600 0 0		Officiating Assistant Superintendent, 1st grade. Ditto ditto. Ditto ditto.
_ ⁻	5 Lieut. H. M. Jackson, B. S., H. S *	Ditto	tral] Survey, British Burma, Rangoon Kohat Frontier Topogl. Survey, Mussoorie	•		4 5 6	600 0 0 670 0 0	(g) Burma	Ditto ditto. Ditto ditto.
	• Joined the Department sft	er the amaigamation on the lat Janu	ıry 1978.		- -		(a) Fiuat (b) Depa (c) Depa (d) Depa (f) Depa (f) Depa (g) Depa (k) Depa (k) Depa	Incial Resolution No. 704, dated 22nd February 1866, numeral of Revenue and Agriculture, No. 116, dated 13th March 1 artiment of Agriculture, Revenue and Commerce Memorandum N artiment of Agriculture, Revenue and Commerce Memorandum N artiment of Revenue and Agriculture, No. 3938, dated 16th Septi triment of Revenue and Agriculture, No. 171, dated 4th M structure of Finance and Commerce, No. 2014, dated 16th Agril 1828 virtuent of Finance and Commerce, No. 3238, dated 16th Agril 1828 virtuent of Revenue and Agriculture, No. 3238, dated 16th Agril 1828 virtuent of Revenue and Agriculture, No. 3238, dated 16th Agril 1828 neue and Agriculture, No. 3252, dated 16th Decomi- neial Resolution No. 3202, dated 31th October 1808.	(a. 213, dated 14th May 1678. , 731, dated 51st October 1573. mher 1982. , 1980. , 1980. , 1980.

No. eristing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party or Office to which at present attached.			No. existing in each grade.	Consolidated Salary.	Extra allowances, if any.	Remabre.
	JUNIOR BRANCH. • SURVEYORS. 1st Grade. Sulary Rs. 500.						R a.p.		e
· · · 2 3 4	,, d. d: Brailes	Surveyor, 1st grade Ditto Ditto Ditto Ditto Ditto	On duty at Head Quarters, Calcutta Chief Draftsman, Head Quarters, Calcutta North-East Frontier Topogl. Survey Guzerat Survey Mirzapur and Goruckpre Districts [Cadastral] Survey, N. W. P.			1 2 3	500 0 0 600 0 0 500 0 0 500 0 0 500 0 0	 (a) Presidency house-rent (b) Assam. (a) Half scale, local. 	Transferred to the Office of Director General of Statistics.
5 6 7 8	,, G. A. McGill, L.s	Ditto Ditto Ditto Ditto	Mirzapur and Goruckpre Districts [Cadastral] Survey, N. W. P. On duty at Head Quarters, Calcutta Nepal Boundary Party Pegu and Shuaygheen Districts [Cadastral] Survey, British Burma Computing Office, Head Quarters Dehra Dun			4, 5 6 7 8	500 0 0 500 0 0 500 0 0	 (a) Presidency house-rent. (c) Burma. (d) Dehra Office. 	· ·
• •	2ND GBADE. Salary Rs. 400.								
2 3 4 5 6 7 8 9	-	Surveyor, 2nd grade Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto	On duty at Head Quarters, Dehra Dun Ditto ditto, Calcutta On furlough No. 2 Astronomical Party On furlough On duty at Head Quarters, Calcutta Drawing Office, Head Quarters, Calcutta On furlough Draftsman, Head Quarters, Calcutta On duty Ditto, Calcutta			1 2 3 4 5 6 7 8 9 10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(a) Presidency house-rent.	Doing duty as Solar Photographer. For 1 year 5 mouths and 20 days, from 21st April 1882. For 2 years, from 1st July 1882. For 2 years, from 16th April 1883.
	Brd Grade.								
2 3	"J. S. Pemberton, L.S [Rev.] "H. R. Littlewood [Rev.]	Surveyor, 3rd grade Ditto Ditto	On half-pay Hooghly River Survey, Bongal Bassein and Henzada Districts [Cadastral] Survey, British Burma			1 2 3	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	(c) Burma.	. On half-poy list, from 1st January 1930.
4 5	,, W. A. Wilson, L.s [Rev.] "G. B. Scolt, п.s [Rev.]	Ditto Ditto , .	Benares, &c., Districts [Cadastral] Survey, N.W.P. Hissar District Survey, Punjab; tempora- rily detached under Settlement Officer,	[And a state	4	350 0 0		
6 7 8 9 10 11	,, A. M. Lawson, L.8. . [Rev.] ,, W. S. Buttress . [Rev.] ,, E. S. P. Atkinson . [Topogl.] ,, A. J. Gibson . [Rev.] ,, M. J. Ogle . . ,, W. R. Vyall . .	Ditto · · · Ditto · · Ditto · · Ditto · · Ditto · · Ditto · ·	Rawal Pindi, Punjab Konkan Topogl. Survey, Poona Hissar District Survey, Punjab Mysore Topogl. Survey Hissar District Survey, Punjab North-East Frontier Topgl. Survey Tharawaddy and Prome Districts [Cadastral] Survey. British Burma			5 6 7 8 9 10 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	 (c) Includes personal. (a) Half scale, local. (b) Assam. (c) Burma. 	
	,, A. G. Wyatt [Topogl.] ,, H. W. Peychers [G. T. S.]	Ditto	Khandesh and Bombay Native States Topogl. Survey Computing Office, Head Quarters, Dehra		4. 2. 2. 4.	12	350 0 0	(a) Half scale, local.	
14	"G. Belcham, н.в [G. T. S.]	Ditto	Dun Tidal and Leveling Operations, India and Burma			13	850 0 0 350 0 0	(d) Dehra Office. • (a) Half scale, local.	

(a) Financial Resolution No. 703, dated 22nd February 1866,
(b) Financial Resolution No. 3202, dated 31st October 1968,
(c) Home, Bervane and Agricultural Department, No. 171, dated 0th May 1880.
(d) Financial Resolution No. 3060, dated 22nd December 1605, and No. 2510, dated 301b November 1971.
(e) Revenue and Agricultural Department, No. 77, dated 23rd Maguel 1831.

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Classified List of the Officers of the Junior or Subordinate

Department of the Survey of India as it stood on the 1st July 1883.

Classified List of the Officers of the Junior or Subordinate Department

of the Survey of India as it stood on the 1st July 1883 -continued.

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No. existing i each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party or Office to which at present attached.			No. existing each grad	Consolidated Salary.	Extra allowances, if any.	Remarks.
	JUNIOR BRANCH contd.						R a. p.		
	SURVEYORSconcld.						· · ·		• e
	4th Grade.							•	
	Salary Rs. 300.						•		•
1	-	Surveyor, 4th grade	Pegu and Shuagyheen Districts [Cadastral]				••		
2	"E.G Little [Rev.]	Ditto .	Survey, British Burma Mirzapur and Goruckpore Districts [Cadastral] Survey, N. W. P.			1	300 0 0	(a) Burma allowance.	
3	"H. T. Hanby, L.9 [Rev.]	Ditto .	Benares, &c., Districts [Cadastral] Survey	1		2	. 300 0 0		
4	,, L. J. Pocock, н.s [G. T. S.]	Ditto .	N. W. P. Mysore Topogl. Survey	[34	300 0 0 300 0 0		
5	" A. Christie, п.s [G. T. S.]	Ditto .	. Tidal and Leveling Operations, India and					•	
6	" W. J. O'Sullivan [G. T. S.]	Ditto .	Burma Darjeeling Survey			5	300 0 0 300 0 0	 (b) Half scale, local. (b) Full scale, local. 	
7	" N.C. Gwynne [G. T. S.]	Ditto .	. Kattywar and Cutch Survey		4	7	300 0 0	(b) Half scale, local.	
8	"W.C. Price [G. T. S.]	Ditto .	Benares, &c., Districts [Cadastral] Survey		1	.			
•	,, C. H. McA'Fee, L.S. [G. T. S.]	Ditto .	N. W. P. Guzerat Survey			89	300 0 0 300 0 0	(b) Half scale, local.	
,	"C.F. Hamer [Topogl.]	Ditto .	Mirzapur Topogl. Survey .			10	300 0 0		
	"J. H. O'Donel [Rev.]	Ditto .	Officiating Draftsman, Head Quarters, Cal-		•				
	"A. W. Chennell [Topogl.]	Ditto	cutta North-East Frontier Topogl. Survey		e h	jii	375 0 0 300 0 0	(c) Assem.	``````````````````````````````````````
	" T. E. M. Claudius [Topogl.]	Ditto .	Kohat Frontier Topogl. Survey	¥.		12	300 0 0		
	"A. J. James [Topogl.]	Ditto .	Mysore Topogl. Survey		4	13	300 0 0		
Ľ	" T. H. Rendell [G. T. S.]	Ditto	Tidal and Leveling Operations, India and	•	1	1.0		· · ·	•
	"W. W. McNair, L.S [Topogl.]	Ditto	Burma On furlough.		}	14 15	300 0 0	(d) Deputation and (b) Half scale, local.	+ For 1 year, from 20th March 1883.
	Ir. R. Todd [Topogl.]				j.	16	300 0 0		For 1 year, nom 2011 march 1000.
		Ditto	South Deccan Topogl. Survey, Poona.			17			For 6 months, from 28th May 1893.
			On furlough.		. 1.	1			
	"D. A. King [Rev.]	Ditto	Pegu and Shungyheen Districts [Cadastral] Survey, British Burma		· / .	18	. 300 0 0	(a) Burma.	
	ASSISTANT SURVEYORS						-		
	ASSISTANT SURVEYORS.								
	1st GBADE.]				•
	Salary Rs. 200, rising to Rs. 250.								
a l	Ir. R. B. Smart, L.S [Rev.]	Asst. Surveyor, 1st grade .	Bassein and Henzada Districts [Cadastral] Survey, British Burma			1	300 0 0	(a) Burms.	Offg. Surveyor, 4th grade.
	"F. Kitchen [Topogl.]	Ditto .	Mysore Topogl. Survey			2	300 0 0	· .	Ditto.
1	, W. Stotesbury, H.S., L.S., Canarese [Topogl.]	Ditto .	Ditto		1	3	300 0 0		Ditto.
	"Hugh Todd [G. T. S.]	Ditto .	Ditto			4	300 0 0		Ditto.
	"E. J. Connor, L.S [G. T. S.]	Ditto	Tidal and Leveling Operations, India and			5	300 0 0	(b) Half scale, local.	
			Burma · · ·				325 0 0	· ·	Ditto.
1	Ir. J. Connor [Rev.]	Ditto .	Draftsman, Head Quarters, Calcutta		, J	··			
	"T. H. Dunne, L.8 [Rev.]	Ditto • .	Bassein and Henzada Districts [Cadastral] Survey, British Burma		1	6	250 0 0	(a) Burma.	
	"J. Bond . [G. T. S.]	Ditto .	Computing Office, Head Quarters, Dehra Dun			7	250 0 0	(e) Dehra Office.	
1	,, C. D. Potter, L.8 [G. T. S.]	Ditto .	Secondary Triangulation Party	•		8	2000		· · ·

Classified List of	the	Officers of	the .	Junior	0r	Subordinate	Department
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of the Survey of India as it stood on the 1st July 1883 -continued.

No. sanctioned	No. existing in each grade.	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party or Office to which at present attached.			No. existing in each grade.	Consolidated Salary.	Extra allowances, if any.	REMARKS.
•		JUNIOR BRANCH-contd.	• .			1 1			· · · · · · · · · · · · · · · · · · ·	-
		ASSISTANT SURVEYORS—contd.						R a. p.		
		· · · · · · · · · · · · · · · · · · ·					••			
		1st GBADE—concld.								
		Salary Rs 200, rising to Rs. 250-coueld.			1	1				•
	1		Asst. Survey, 1st grade .	Guzerat Survey		ŧ.	9	250 0 O	(a) Half scale, local.	
	10	"T. Kinney, L.S [G. T. S.]	Ditto .	On half pay		\$	10	125 0 0		On half-pay list, from 7th December 1879.
	11	,, J. Newland, L.S [Rev.]	Ditto .	Konkan Topogl. Survey, Poona			11	250 0 0	(a) Half scale, local.	
	12	"J.A. Barker [Topogl.]	Ditto .	Khandesh and Bombay Native States Topogl, Survey			12	250 0 0	(a) Ditto ditto.	
1		" E. A. Wainright [Topogl.]	Ditto .	Mirzapur Topogl. Survey	•		13	250 0 0		
·		" R. C. D. Ewing, н.з. [Rev.]	Ditto .	Draftsman, Head Quarters, Calcutta				300 0 0		· · · · · ·
· [1	4	"W. J. Cornelius, L.S [Topogl.]	Ditto .	Central India and Rajputana Topogl. Survey			14	250 0 0		
16	ő	"G. W. Jarbo, L.S [Rev.]	Ditto .	Tharawaddy and Prome Districts [Cadastral] Survey, British Burma			15	250 0 0	(b) Burms.	
16	6	" P. J. W. Doran, L.S [Topogl.]	Ditto .	Central India and Rajputana Topogl. Survey		1	16	250 0 0		
17	7	,, J. R. Scott, L.S [Rev.]	Ditto .	Tharawaddy and Prome Districts [Cadastral]	•	l ·		i		•
18	8	"J. McHatton, L.S [Rev.]	Ditto .	Survey, British Burma Pegu and Shuagyheen Districts [Cadastral]		i a	17	2 50 0 0	(b) Burma.	
19	9	"H.T. Kitchen . [Topogl.]	Ditto	Survey, British Burma Mirzapur Topogl. Survey	. 1	,)	18 19	$ \begin{array}{ccccccccccccccccccccccccccccccccccc$	(b) Ditto.	
20	0	"J. H. Wilson, L.S [Topogl.]	Ditto .	Burma Topogl. Survey, Rangoon			20	250 0 0	(d) Ditto.	
21	1	, J. Hickie, L.S [G. T. S.]	Ditto .	South Deccan Topogl. Survey, Poona			21	250 0 0	(a) Half scale, local,	•
22	2	" W. A. Fielding, L.S [G. T. S.]	Ditto .	Kattywar and Cutch Survey			22	250 0 0	(a) Ditto ditto.	
29	3 .	" S. O. Madras . [Rev.]	Ditto .	Benares, &c., Districts [Cadastral] Survey,						
24	r	" G. D. Cusson, L.S [G. T. S.]	Ditto .	N. W. P. Guzerat Survey			23 24	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(a) Half scale, local.	
25	5	" T. F. Freeman, L.S [Rev.]	Ditto .	Mirzapur and Goruckpur Districts [Cadastral]				ļ		
26	3	"G.C. Swiney [Rev.]	Ditto .	Survey, N. W. P. South Deccan Topogl. Survey, Poona			25 26	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(a) Half scale, local.	
27	7	"W. H. Lilley [Topogl.]	Ditto .	Mirzapur Topogl. Survey	- 1	-	27	250 0 0		
28	3	"J. S. Swiney [Rev.]	Ditto .	Tharawaldy and Prome Districts [Cadastral]	1		Í			
29	,	"C. P. Torrens [G. T. S.]	Ditto .	Survey, British Burma Burma Topogl. Survey, Rangoon			28 29		(b) Burma. (b) Ditto.	
30)	"W. Robert [Topogl.]	Ditto .	Darjeeling Survey			30		(a) Full scale, local.	
31		" T. Shaw, L.S [Rev.]	Ditto .	Mirzapur and Goruckpore Districts[Cadastral]			31	240 0 0	•	
32		,, C W. Wilson, L.9 [Rev.]	·	Survey, N. W. P. Meerut, &c., Districts Survey, N.W.P.			32	230 0 0		
33		"F. E. Warde [Topogl.]	Ditto .	Kohat Frontier Topogl. Survey .		-	33	230 0 0		
. 34	۱Ì	" E. J. Martin [Rev.]	Ditto .	On duty, Head Quarters, Calcutta .	1		34	230 0 0	(a) Presidency house-rent.	
35		"C. W. F. Seyers [Rev.]	Ditto .	Meerut, &c., Districts Survey, N.W.P.			35	220 0 0		•
36		"W.H. Penrose [Rev.]	Ditto	Bassein and Henzada Districts (Cadastral] Survey, British Burma		,	36	200 0 0	(b) Burms.	
37	•	"G. E. Purker [Rev.]	Ditto .	Pegu and Shunghyeen Districts [Cadastral Survey, British Burma	1		37	200 0 0	(b) Burma.	
38		"G. Campbell [Rev.]	Ditto .	Hissar Districts Survey, Punjab			38	200 0 0		•
39		" W. C. G. Barkley . [Topogl.]		Darjeeling Survey	1	•	39	200 0 0 ((a) Full scale, local.	
40		"G. T. Hall, L.S	Ditto .	Kattywar and Cutch Survey			40	200 0 0 ((a) Half scale, locul.	
• 41		"G. Vunder Beck, L.S [Topogl.]	Ditto .	Khandesh and Bombay Native States Topogl. Survey		*	41	200 0 0 (a) Ditto ditto.	•

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Financial Resolution No. 704, dated 22nd February 1800.
 Home, Revenue and Agricultural Department No. 171, dated 6th May 1880.

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Classified List of the Officers of the Junior or Subordinate Department

of the Survey of India as it stood on the 1st July 1883 - continued.

led.	· · · · · · · · · · · · · · · · · · ·			1	•		<u> </u>		
No: sanctioned No. existing in each crade	Names of Officers and Branch to which originally posted.	Substantive Appointment.	Survey Party or Office to which at present attached.		• o. existing	ench grade. O	nsolidated Salary.	Extra allowances, if any.	REMARKS.
~	JUNIOE BRANCH-cont.d.					-	₩ a.p.		·
22	2nd Geade.			1					
	Salary Rs. 160, rising to Rs. 200.								
1	Mr. J. McCay . [Topogl	Asst. Surveyor, 2nd grade	North-East Frontier Topogl. Survey						
2	"J. Murphy [Rev] Ditto .	Pegu and Shuagyheen Districts [Codestan]]			1	200 0 0	(a) Assam.	
3	" C. W. J. Ford [Rev] Ditto .	Bassein and Henzoda Districts (0.1. ())			2	2 00 0 0	(b) Burma.	
4	"A. W. Smart [Rev.] Ditto .	Tharawaddy and Prome Districts [Cadastral]	4	-	3	200 0 0	(b) Ditto.	
5	,, W. M. Kelly [Rev.] Ditto .	Survey, British Burma Konkan Topogl. Survey, Poons			4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(b) Ditto.(c) Half scale, local.	
6	"A. Kitchen [Topogl] Ditto .	Central India and Rajputana Topogl. Survey	·		6	200 0 0		
7	"P. White, L.S [Topogl] Ditto .	Beluchistan Topogl. Survey			7	192 0 0		Rejoined from half-pay list on 1st September 1880.
. 8	" B. M. Wilson [Rev.] Ditto .	On duty, Head Quarters, Calcutta			8		(c) Presidency house-rent.	
9	" Е. Р. S. Hill, н.s. [Rev.	Ditto	Mirzapur and Goruckpore Districts [Cadas-				-		
1	"R. A. Gibson [Topogl.] Ditto .	tral] Survey, N. W. P. Map Curator, Head Quarters, Calcutta	•		9	$\begin{array}{cccc} 192 & 0 & 0 \\ 220 & 0 & 0 \end{array}$		
10	"R. R. Dickinson, L.s [Rev.] Ditto .	Konkan Topogl. Survey, Poona		• /~				
11	"J.F. Macarthy, L.S [G. T. S.] Ditto .	Extraordinary leave on private affairs .	j.	"	10	192 0 0	(r) Half sçale, local.	Pour descutte unique affaire from let Osteber 1891. Estrandicare la
12	" E. Graham, L.s [Topogl.] Ditto .	Burma Topogl. Survey, Rangoon			11 .		···· · · · ·	For 0 months private affairs from 1st October 1881. Extraordinary le without allowances, for one year, from 1st April 1882; extension 0 months.
13	"H. Corkery, L.8 [G. T. S.	Ditto .	On sick leave	,	1	12	184 0 0	(b) Burma.	
· 14	"G.L.Fleming [Topogl	Ditto	Extraordinary leave on private affairs	.]	1	13 .			For 1 year, from 12th April 1862; extension for 6 months.
15	"G. R. Copping [Topogl.	Ditto .	Beluchistan Topogl. Survey	•		14 .			For 8 months, from 9th October 1882 ; extension for 6 mouths.
16	"G.A. Knight [Topogl.	Ditto .	South Deccan Topogl. Survey, Poona .	1	1	15	168 0 0		
17	"D. J. Collins [G. T. S.	Ditto .	Tharawaddy and Prome Districts [Cadastral] Survey, British Burma	4		16	168 0 0	(c) Half scale, local.	
18	" P. A. Peters, L.S [Rev.	Ditto .	Pegu and Shuaghyeen Districts [Cadastral] Survey, British Burma			17	160 0 0	(b) Burma.	
19	" P. F. Prunty [G. T. S.	Ditto .	Kattywar and Cutch Survey	1		18 19		(b) Ditto.	
· 20	"J. Keating . [G. T. S.	Ditto .	North-East Frontier Topogl. Survey .		•	20		(r) Half scale, local. (a) Assam.	
21	,, C. S. Kraal, L.8 [Rev.	Ditto .	Hooghly River Survey, Dengal			21	160 0 0		
22	"S.F. Norman [G. T. S.	Ditto	Guzerat Survey			22		(r) Hulf scale, local.	
				ry)	>			() fian sent, nom	
22	3ed Grade.								
	Salary Rs. 120, rising to Rs. 160.								
1		Asst. Surveyor, 3rd grade .	Khandesh and Bombay Native States	' I	·				Devined from balf are 11-4 15-6 May 1000
2	,, E. B. M. Drew [Rev.		Topogl. Survey Benarcs, &c., Districts [Cadastral] Survey,			1		(c) Half scale, local	Rejoined from half-pay list on 15th May 1863.
			N. W. P.			2	160 0 0	· · · · · · · ·	Rejoined from half-pay list on 1st April 1883.
3	" C. Norman, L.s [G. T. S.		Guzerat Survey			3		(c) Half scale local.	
4	" D. Campbell [Topogl.]		North-East Frontier Topogl. Survey	∔	•	4	160 0 0	(a) Assam.	
5	" R. F. Warwick, L.s		On sick leave			5 .			For 1 year, from 18th August 1882.
6	" L. F. Berkeley, L.S [Rev.	Ditto	Benares, &c., Districts [Cadastral] Survey, N. W. P.			6	160 0 0		· · · ·

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each grade.	Names of Officers and originally po	Branch osted.	to which	Substantive Appointment.	Survey Party or Office to which at present attached.	4	No. existing in each grade.	Consolidated Sala	ry.	Extra allowances, if any.	REMARKS.
	JUNIOB BRANG ASEISTANT SURVE 3kd Ghade – Salary Rs. 120, risi	YORS - concid	–con c id.				•	₽ a. j			
7	Mr. G. P. Tate, L. s.		. •	Assistant Surveyor, 3rd grad	Central India and Rajputana Topogl. Survey		7	160 0	0		
8	" J. M. Kennedy		. [G. T.		Mysore Topographical Survey	l	8	160 0	- 1		
9	" P. C. H. Smart	•	. •	Ditto	On sick leave	1	9	1			For 6 months, from 8th April 18:3.
10	" C. George	•	. •	Ditto	Khandesh and Bombay Native State Topo- graphical Survey	L	10	152 0	0	(a) Half scale, local allowance.	
11	,, J. C. Kelly, L. s.	•	. •	Ditto	. Hissar District Survey, Punjab	Y	11	152 0	0		
12	" A. George	•	•	Ditto	Guzerat Survey		12	152 0	0	(a) Half scale, local.	•
13	" R. W. Senior, L. 8.		. *	Ditto	Nepal Boundary Party		19	152 0	0		· · · · ·
14	" W. H. D. Ewing		. •	Ditto	Bassein und Henzada Districts [Cadastral] Survey, British Burma		14	152 0	0	(b) Burma.	
15	" J. A. Higgs	-	. •	Ditto	· Mysore Topographical Survey		10	5 128 0) ()		
16	"O. D. Smart	•	•	Ditto	Mirzapur and Gornekpore Districts [Cadas- tral] Survey, N. W. P.		10	6 128 0) 0		
17	" A. Ewing	•	. •	Ditto	North-East Frontier Topogl. Survey	(T	\$	7 120 0	0 0	(c) Assam.	
18	" M. Gastaud	•	. •	Ditto	· Central India and Rajputana Topogl. Survey		1	8 120 0	0 0		
19	,, P. Beechey	•		Ditto	Central India and Rajputana Topographical Survey	ſ	1	9 120 0	0 0		
20	" G. S. Willis	•	. •	Ditto	Benares, &c., Districts [Cadastral] Survey, N. W. P.		2	120 (0 0		
21	Vacant	•	· ·			1	2	1			· ·
23	Ditto						۶ ۲				
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Classified List of Officers of the Junior or Subordinate Department

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of the Survey of India as it stood on the 1st July 1883 -concluded.

* Joined the Department after the amalgamation on 1st January 1876.

(a) Financial Resolution No. 704, dated 22nd February 1966.
 (b) Home, Revenue and Agricultural Department No. 171, dated 6th May 1890.
 (c) Ditto ditto No. 3292, dated 31st October 1863.

General Alphabetical List of the Officers of the Senior Department

of the Survey of India as it stood on the 1st July 1883.

		-]	-		6	7		1.	<u> </u>	8 ·	9	10	• 11.	12
	Names of Officers and Branch to which originally posted.	Passed in Vernscular	Age.	Rank.	Grade.	Salary		4	Number.	Date of first appointment to Department.	Date of appointment to present grade.	* Period of service counting for pension on 1st July 1883.	Present Post.	REMARKS.
			Y. M. D.				p. •				·	Y. M. D.		
•	Anderson, Bt. Colonel F. C., s.c. [Rev.]	Р.	56 0 8	Deputy Superintendent	lut our l								- I - Mi I Convelences Dista	•
	Andrew, Major D. C., s.c [Rev.]	Р. Н.	42 3 13		. 1st grade	1,627 14	-	1	1 1	_	Apl. 1, 1868		In charge Mirzapur and Goruckpore Dists. [Cadastral] Survey, N. W. P., Naini Tal.	
i	Badgley, Lieut. Col. W. F., s. c. [Topogl.]	Р. н.	45 7 21	1	. 3rd grade	. 1,100 0	0	L			Jan. 1, 1878		In charge South Deccan Topographical Survey, Poona.	For 1 year, from 10th March 1082. Extension
I	Baird, Major A. W., B.E. [G. T. S.]	Р. Н.	40 8 5	Ditto	l	· · ·	•		3	May 3, 1865	Dec. 14, 1880		On furlough	year.
I	Barrett, Mr. E. C [Rev.]	н. s.		Assistant Superintendent	. 4th grade	. 1,182 10 . 850 υ		₽	1 1		July 1, 1882	1 .	In charge Tidal and Leveling operations, India and Burma, Poona. Burma Topogl. Survey, Rangoon	Offg. Deputy Superintendent, 3rd grade. Offg. Deputy Superintendent 4th grade. Furlough years, from 37th August 1880 to 12th July 1882. Joined the Junior Branch, 18th November 1862. leave for 1 month, from 20th June 1809.
B	arron, Major W., s.c [Rev.]	•P. H.	45 5 15	Deputy Superintendent					6	Dec. 30, 1803	July 1, 1882			
	eavan, Major R., s.c [Rev.]	_			. 3rd grade	. 1,300 0	0		6	June 27, 1862	April 1, 1870	• . • •	In charge Benares, &c., Districts [Ca- dastral] Survey, N. W. P., Naini Tal.	Offg. Deputy Superintendent, 2nd grade.
		Р. Н.		Assistant Superintendent	. 1st grade	. 950 0	0		7	July 17, 1868	July 1, 1882		In charge Beluchistan Topographical Party.	Offg. Deputy Superintendent, 4th grade,
	ranfill, LieutCol. B. R., B.C. [G. T. S.]	Р. Н.	49 7 8	Deputy Superintendent	2nd grade				8	Oct. 4, 1858	Oct. 1, 1871		On furlough	For 1 year, from 10th November 1882.
	ampbell, Bt. LieutCol. W. M., R.R. [G. T. S.]	Passed.	43 11 12	Ditto	. 2nd grade						1			For 1 year and 1 day, from 24th March 1683.
Ca	rter, Major T. T., B.E. [G. T. S.]	Р. Н.	45 4 22	Ditto	2nd grade	1 400 10	3		9	Jan. 30, 1863	Jan. 1, 1879		On furlough	
Cı	ddington, LieutCol. F., s.c. [Rev.]	Р. Н.	45 1 10	Ditto	2nd grade	1,482 10	X,	• • • •	10	{ Mar. 1, 1862	Oct. 1, 1871 Jan. 1, 1878		In charge Khandesh and Bombay Native States Topographical Survey.	1
~ ~	е, Mr. W. H., м.л. [G. T. S.]					· ·			11	Jan. 17, 1862	Oct. 27, 1878	• • •	On furlough	For 183 days, from 9th November 1883. Extens 91 days. Further extension for 274 days.
	to Mr. G. U.		45 6 16	Ditto	. 4th grade .	1,000 0	0		. 12	Jan. 3, 1867b Sept. 1, 1867c	July 1, 1862	15 5 29	Offg. in charge, Head Quarters Offices, Dehra Dun.	Offg. Deputy Superintendent, 3rd grade. (b) Appointed on probation. Exclusive of ac Professor of Mathematics, Government Colleg from 14th April 1862 to end of February 1884. (c) Brought on the strength of the Department
	run Majou S. H. a.a. (D			Assistant Superintendent	. Ist grade .	850 0	0		13	April 1, 1870	July 1, 1882	14 6 15	Meerut, &c., Districts Survey, N. W. P., Mussoorie.	
	· · · ·	1		Deputy Superintendent	. 4th grade .	950 0	0		14	Jan. 19, 1867	Apl. 29, 188		In charge Hooghly River Survey, Cal	
	Prée, Bt. Col. G. C., s.c [Topogl.]		1	Deputy Surveyor General, in charge Topogl. Surveys.	e	2,666 10	8	()			Jan. 1, 188	1 .	outta. Depy, Survr. General, in charge, Topogl	Offg. Surveyor General of India.
	e, Capt. St. G. C., B.R. [G. T. S.] No	ot passed	34 4 8	Assistant Superintendent	. 1st grade .	990 0	, · ,		Ì	1	Oct. 10, 188		Surveys. On duty, Head Quarters, Calcutta.	Offg. Deputy Superintendent, 4th grade.
		Ditto	48 8 20	Deputy Superintendent	. 2nd grade ,	1,600 0 (· ·			•	Offg. Deputy Superintendent, 1st grade.
	=		12 8 27	Ditto	. 3rd grade ,	1,482 10 0			1	Sept. 22, 1859		•	In charge Guzerat Survey, Poona	
ler	messey, Mr. J. B. N., M.A., F.R.S., No [G. T. S]	ot pa-sed 6	53 11 0	Ditto	Ist grade	2,000 0 (1		6 April 5, 1873		In charge Nos. 1 and 2 Astronomica Parties.	Citated the Junior Branch 14th April 1844.
	schel, Bt. LieutCol. J., R.E., F.R.S.	P. H. 4	5 8 1	Ditto	2nd grade .		.						Offg. Dy. Surveyor General, in charge Trigonometrical Surveys.	·
	, Major J., R.B [G. T. S.] No	ot passed 4	267	Ditto	. 4th grade .	1,182 10 0	}	1 .	20		Oct. 1, 186		On duty, Europe.	• Offg, Deputy Superintendent, 3rd grade.
		н. s. 3	2 11 16	Assistant Superintendent	lst grade .	600 0 0		<u> </u>	21	Dec. 18, 1866	3 July 1, 188	2	In charge Konkan Topographical Sur vey, Poona.	
ole	lich, Major T. H., R.B. [Topogl.]	L. S 4	0 4 16 1	eputy Superintendent	3rd grade	1,182 10 0			22	Sept. 11, 1874	4 Apl. 15, 188	3	Guzerat Survey, Poona.	
0 7 9	st, Mr. H [Topogl 2] Not	.					1	}	23	July 23, 1860	6 Apl. 29, 188	3	In charge Kohat Frontier Topographica Party.	Offer Deputy Superintendent, 3rd grade, On fi
		-	9 1 27	Ditto .	4th grade	1,000 0 0	0		24	April 1, 1868	8 July 1, 188	2 25 1 27	In charge Burma Topographical Party	 from 6th June 1870, and special extension t September 1852, Joined the Junior Branch, tember 1851.
		P. H. 4	3 2 20 A	.ssistant Superintendent .	1st grade	950 0 0			25	Aug. 13, 186	7 July 1,188	2	Rangoon. In charge Bassein and Henzada District [Cadustral] Survey, British Burma	(Service reckoned under new rules. 8 Offg. Deputy Superintendent, 4th grade.
		H.S. 39	960	Ditto .	Ditto .	850 0 0	÷].	26	Nov. 5,786	8 July 1, 188	2 14 2 20	Raugoon. Pegu and Shuagyheen Districte[Cadastra Survey, British Burma, Raugoon.	[] Offg. Deputy Superintendent, 4th gride. Joi Junior Branch 20th Sept. 1861. Sick leave fr July 10 3rd August 1867. Sick leave from 10th to 36th November 1867. Europe, medical co- from 23rd Jely 1871 to 18th November 1872. F to Europe from 18th May 1880 to 37th December 1
			35	Ditto .	2nd grade .	670 0 0		1	27	June 11, 189	3 June 11, 188	3 .	Kohat Frontier Topographical Party	•
8101 e	s, Mr. J. O. N [Topogl.] Not	passed 53	10 25 D	eputy Superintendent	3rd grade . 1	,300 0 0	4			•	6 April 1, 180	ļ	Mussoorie	Angistant Surgeror General and Offer Deputy (
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General Alphabetical List of the Officers of the Senior Department of the

Survey of India as it stood on the 1st July 1883 -concluded.

1	2	3	4	5.	6	7.				8	9	10	. 11	12
Number.	Names of Officers and Braach to which originally posted.	Passed in Vernacular	Age.	. Rank.	Grade.	Salary.	5	-	Number.	Date of first ppointment to Department.	Date of appointment to present grade.	*Period of service counting for pension on 1st Janu- ary 1883.	Present Post.	
,	Kelly, Mr. F. W [Rev.] H. S.	Y. M. D. 49 10 5		2nd grade	R a. p.	1 1			Feb. 22, 1883	Feb. 22, 1883	Y. M. D.	Tharawaddy and Prome Districts [Cadas- tral] Survey, British Burma, Rangoon.	Offr. Assistant Superintendent, 1st grade. (a) Service reckoned under oldrules. Speelal laave 4 months from 21st January 1858, which was everstay from 21st May to 16th August 1868. Commencem
	Longe, Lieut. F. B., B.F.	Not passed	26 8 2	Ditto	2nd grade .	670 0 0			90	Mar. 15, 1880	J uly 1, 1882		Mysore Topographical Survey	of second service 17th August 1659. Joined the Jun Branch 4th December 1854. Offg. Asst. Supdt., 1st grade.
	Macdonald, LieutCol. Donald, s.c. [Rev.	Р. Н.	47 6 21	Deputy Superintendent	2nd grade	1,300 0 0	1		1 1		Jan. 1, 1878		In charge Hissar District Survey, Pun- jab, Murree.	
	McCullagh, Major J. R., B.E. [G. T. S.	L. S.	41 3 5	Ditto	4th grade .	1,032 10 0			32	Feb. 12, 1869	July 1, 1882		In charge Pegu and Shuagyheen Dis tricts [Cadastral] Survey, and Burma Party, British Burma, Rangoon.	•
	McGill, Mr. J [G. T. S.	Not passed	52 8 9	Ditto	4th grade .	850 0 0		ja:	33	Mar. 1, 1871	Feb. 1, 1883	29 8 12	In charge Secondary Triangulation Party	Furlough for 1 year, from 4th July 1879. Joined Junior Branch 1st October 1851. Service reck under new rules.
	Patterson, Mr. W. H. [Rev.]	L. S.	44 9 6	Assistant Superintendent	2nd grade .	600 Q 0			34	Jan. 22, 1883	Jan. 22, 1893	21 5 15	Mirzapur Topographical Survey	Offg. Assistant Superintendent, 1st grade. Johod Junior Brauch 1st December 1861. Leavo on pr nifairs from 1st May to 31st August 1862. Dit Europe from 20th July 1872 to 1sth Asonary 1873 from 11th July 1870 to 2nd Janaury 1888.
	Pullan, LtCol. A., s.c. [G. T. S.]	Р. Н.	47 3 0	• Deputy Superintendent	3rd grade .	1,100 0 0			.35	Jan. 18, 1865	Jan. 1, 187		In chauge Kattywar and Cutch Survey Poona.	7,
	Riddell, Major R. V., B.B. [Topogl.]	Р. н.	43 3 19	Ditto .	2nd grade .				36	Aug. 28, 186	2 Jan. 10, 188	2	On deputation • • •	. Offg. Mint Master, Bombay.
]	Rogers, Major M. W., B.E [G. T. S.]	L. S.	41 4 26	Ditto	4th grade .	1,182 10 0			37	July 30, 186	5 July 1, 188	2	In charge Mathematical Instrument D partment and Correspondence Branc Head Quarters, Calcutta.	e- Offg. Deputy Superintendent, 3rd grade. Offg. A. Surveyor General.
1	Ryall, Mr. E. C [G. T. S.]	Not passed	45 5 15	Assistant Superintendent	1st grade .	600 0 0	•		38	April 1, 187	3 Feb. 1, 188	3 28 2 6	Darjeeling Survey	Joined the Junior Branch 25th April 1655. The dred and twenty five days' sick loave include old rules.
5	Sandeman, Major J. E., s.c [Rev.]	P. H.	39 9 29	Deputy Superintendent .	3rd grade	1,100 0 0					4 Jan. 1, 187		On duty Head Quarters, Calcutta.	
2	aconce, Lieut. Col. J., s.c [Rev.]	. Р. Н.	47 2 29	Deputy Surveyor General, in charge Revenue Surveys.		2,200 0 0			40	Oct. 21, 185	9 Jan. 1, 187	9	Deputy Surveyor General, in charge Rev nue Surveys, Calcutta.	e-
2	Steel, Major E. H., s.c [Kev.]	н. s.	42 1 26	Assistant Superintendent .	lst grade .	• • • •		1+	41	Feb. 1, 186	7 July 1, 186	2	On furlough	• For 1 year, from 6th December 1691. Extens months. Further extension for 4 months 10 d
9	Strahan, Major C., B.B [Topogl.]	Not passed	40 1 25	Deputy Superintendent	3rd grade .	1,482 10 0		-	42	Sept. 26, 186	3 Dec. 1, 186		In charge Central India and Rajputa Topographical Survey.	us. Offg. Deputy Superintendent, 2nd grade.
S	Strahan, Major G., B.B [Topogl.]	р. н.	44 4 24	Ditto	2nd grade .	1,482 10 0			43	July 2, 186	2 Oct. 26, 182	ro	In charge Engraving and Cartograph Branches, Head Quarters, Calcutta.	DIC Offg. Assistant Surveyor General.
1	Calbot, Mr. H. B [Rev.]	L. S.	52 8 5	Ditto	•4th grade .	1,000 0 0	to any second	x	44	April 1, 186	i6 July 1,188	34 7	In charge Tharawaddy and Prome D tricts [Cadastral] Survey, British Bu ma, Rangoon.	is- Offer, Deputs Superintendent, 3rd grade. Jo 1r- Junior Branch 1st December 1849.
т	Calbot, Lt. The Hon'ble M. G., B.B. *	H. S.	28 0 17	Assistant Superintendent	lst grade .	670 0 0	•		45	Mar. 15, 188	30 April 29, 18	33	Central India and Rajputana Topogr phical Survey.	ra-
	Canner, LieutCol. H. C. B., Bombay s.c. [Rev.]	Р. Н.	47 11 15	Deputy Superintendent .	3rd grade .	1,300 0 0	1		46	Oct. 10, 180	32 April 1, 18	70	In charge Darjeeling and Nepal Bour ary Parties.	ld- Offg. Deputy Superintendent, 2nd grade.
Г	Chuillier, Major H. R., B.E. (G. T. S.)	Р. Н.	45 3 5	Ditto	{ lst grade† { lst grade	1,600 0 0 }			47	{ May 21, 18	July 18, 1871 59 Oct. 27, 1878		Iu charge Mysore Topographical Surve	y.
V	Vahab, R. A., Lieut., r. e. *	н. s.	28 2 18	Assistant Superintendent	2nd grade	670 0 0				-	33 Jan. 8,18		Central India and Rajputaua Topog phical Survey.	ra- Offg. Assistant Superintendent, 1st grade.
Ţ	Valker, LieutGenl. J. T., C.B., R.R.,	Р. Н.	56 7 0	• Surveyor General of India					49	Dec. 1, 18	53 Jan. 1, 18	78	On furlough	For 6 months, from 12th February 1883. Ext 6 months.
	F.B.S., L.L.D [G. T. S.] Vaterhouse, Major J., s. c. [Topogl.]	P. Hı	40 11 8	Deputy Superintendent	4th grade * .	1,100 0 0	•	(50	July 23, 18	66 July 1, 18	82	In charge Photographic and Lithograp Branches, Head Quarters, Calcutta.	hic Offg. Deputy Superintendent, Srd grade.
Ţ	Vilkins, Major W. H., s. c. [Rev.]	Р. Н.	41 8 25	Ditto	3rd grade .			• *	51	April 27, 18	63 Oct. 27, 18	78	. On furlough	For 273 days, from 8th June 1983.
	Vilmer, Major J. R., s. c. [Topogl.]		42 5 12	,	4th grade	950 0 0			52	Aug. 24, 18	69 July 1, 18	82	In charge Mirzapur Topographical S	ur-
N	Voodthorpe, Bt. LieutCol. R. G., B.B. [Topogl.]	L. S.	38 9 8	Assistant Superintendent	1st grade .	990 0 0			• 53	July 11, 18	71 July 1, 18	82	. In charge North-East Frontier Topo, phical Survey.	gra- Offg. Deputy Superintendent, 4th grade.

General Alphabetical List of the Officers of the Junior or Subordinate Department of Survey of India as it stood on the 1st July 1883.

1			3	4	5	6	. 7	ון ר		8	9	10	11	
	Names of Officers and Branch to whoriginally posted.	iten ,	Passed in ernacular.	Age.	Rank.	Grade.	.Salary.	- }/	Number.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st July 1883.	Present Post.	Remarks.
				Y. M. D.			R a. p					Y. M. D.		
l	Adams, Mr. F [Topo Atkinson, Mr. D [Topo					. 2nd grade	· 400 0.0		1	Oct. 1, 1860	Apl. 1, 1883	26 7 27a	On duty at Head Quarters, Calcutta	(a) Inclusive of service us Sub Surveyor, from 3rd ember 1856 to 30th September 1860.
	Atkinson, Mr. D [Topo Atkinson, Mr. E. S. P [Topo			46 1 24 37 11 · 4		. 1st grade	500 0 0		2	Aug. 4, 1856	Jan. 22, 1883	26 10 28	Nepal Boundary Survey.	Furlough (or) year 3 months and 19 days, from
		5] ·	•••	57 11 • 4	Ditto	. 3rd grade	. 350 0 0		3	Aug. 13, 1861	Dec. 17, 1880	14 7 2	Mysore Topographical Survey	Furlough for 1 year 9 months and 13 days, from July 1870 to 8th November 1877, and sick leave f days in September 1867.
	Atkinson, Mr. G. W. E [G. T.	s.]	•••	39 8 2 0	Ditto	· 2nd grade	400 0 0		4	Aug. 1, 1859	June 7, 1881	23 8 206	Drawing Office, Head Quarters, Dehra Dun.	(b) Service reckoned under old rules.
	Baness, Mr. J. F [Topo]	gl.]	• •	53 0 1	Ditto	. 1st grade			5	Sept. 5, 1856	May 1, 1870	26 9 260	Transferred to Office of Director General of Statistics.	(c) Service reckoned under new rules.
	Barokley, Mr. W. C. G [Topog	şl.]		31 8 9	Assistant Surveyor	. 1st grade	200 0 0			ļ	Feb. 22, 1883		Darjeeling Survey	(d) Inclusive of special leave to Enrope on full p 1 year 10 mouths and 26 days, from 26th April 10 2nd March 1878.
	Barker, Mr. J. A. [Topog	;1.]	•••	37 2 18	Ditto	· 1st grade .	250 0 0		7	Sept. 1, 186	5 Jan. 1, 1878	15 2 18	Khandesh and Bombay Native States Topographical Survey.	3
]	Beechey, Mr. P		•••	21 11 14	Ditto	3rd grade .	120 0 0		8	Dec. 1, 188	2 Jan. 22, 1883		Central India and Rajputana Topo graphical Survey.	•
]	Belcham, Mr. G [G. T. :	8.] J	H. S.	38 4 15	Surveyor .	. 3rd grade .	350 0 0		5	Nov. 1, 186	2 Apl. 1, 1885	20 8 0	Tidal and Leveling Operations, India and Burma.), (s) Servico reckoned under old rules.
I	Belletty, Mr. N. A [Topog	1.]]	L. S.	54 9 27	Ditto .	. 1st grade .	500 0 0		10	July 16, 184	7 April 1, 186	35 11 16	On duty at Head Quarters, Calcutta	. (f) Ditto ditto.
F	Berkeley, Mr. L. F [Re	•.]	8	28 10 3	Assistant Surveyor	. 3rd grade .	160 0 0	1		1	5 April 1, 189		Benares, &c., Districts [Cadastral] Sur vey, N. W. P.	-
E	Bond, Mr. J [G. T. S	s.] · .		33 5 24	Ditto	. 1st grade .	250 0 0	· ·]		2 Oct. 18, 186	6 Oct. 1, 187	11 5 4	g On duty at Head Quarters, Debra Dun	. (g) Exclusive of 20 days' sick leave. 💣
E	Bryson, Mr. A [G. T. S	5.] F	I. S. 3	B3 10 1	Ditto	. 3rd grade	160 0 0		1:	3 Sept. 20, 186	59 Oct. 1, 187	3 11 10 1	Khandesh and Bombay Native State Topographical Survey.	S On half-pay list from 1st May 1890 up to 14th Ma
в	Buttress, Mr. W. S [Rev	·] .		39 4 12	Surveyor	. Ditto .	350 0 0	•					Hissar District Survey, Punjab .	· Copyist, from 1st to 30th September 1860.
C	ampbell, Mr. C. W [Rev	.] .		2 1 24	Ditto	. 1st grade .	500 0 0						Mirzapur and Goruckpore District [Cadastral] Survey, N. W. P.	:9
С	ampbell, Mr. D [Topogl	.] .	3	0 7 13	Assistant Surveyor	. 3rd grade	160 0 0	e la	1	6 Nov. 1, 18	74 April 1, 188	1 8 7 13	North-East Frontier Topogl. Survey	. Joined as a Sub-Surveyor on 9rd July 1879.
C	ampbell, Mr. G [Rev	.]		4 11 19	Ditto .	. 1st grade .	200 0 0		1	7 Jan. 1, 18	64 Jan. 22, 188	3 11 11 9	Hissar District Survey, Punjab	 Furlough for 1 year, from 22nd September 1891 September 1882. Office Assistant, from 1st 1864 to 20th February 1874.
Ċ	hamarett, Mr. A [Topogl	.] .	5	0718	Surveyor •	. 1st grade .	600-0-0						Chief Draftsman, Head Quarters, Calcutt	
Cl	hennell, Mr. A. W. [Topogl	. [.	3	670	Ditto	. 4th grade .	300 0 0	E	. 1	9 May 1,18	64 Nov. 1, 182	9 13 7 9) North-East Frontier Topogl. Survey	Furlough to Europe for 1 year, from 21st N 1877 to 20th November 1878, Probationer, I November 1802 to 30th April 1864.
CI	bristie, Mr. A [G. T. S.	ј н	. s. 3	791	Ditto	Ditto	300 0 0		2	20 Aug. 7, 18	63 Oct. 1, 18	4 15 9	I Tidal and Leveling Operations, India an Burma.	nd
3 1	arke, Mr. L. H [G. T. S.].	4	9 0 27	Ditto	. 2nd grade .	400 0 0		:	1 Nov. 26, 18	855 Dec. 1, 18	72 27 7	5 On duty at Head Quarters, Dehra Du as Solar Photographer.	b ,
Cl	audiue, Mr. T. E. M. [Topogl.] · .	37	7 1 0	Ditto	4th grade	300, 0 0	· • •	:	22 Aug. 10, 18	363 Jan. 1, 18		0 Kohat Frontier Topogl. Survey.	
Co	ollins, Mr. D. J. [G. T. S.	ן א	29	0 1 27 A	Assistant Surveyor	2nd grade	160 0 0			23 Oct. 6, 18	373 Nov. 1, 18	82 7 0	9h Tharawaddy and Prome Districts [Cada tral] Survey, British Burma.	18- (h) Exclusive of 49 days' leave on medical of from 2nd July to 19th August 1878.
Co	onnor, Mr. E. J [G. T. S.] .] L .	. S. 34	1 10 15	Ditto	lst grade	300 0 , 0						Oi Tidal and Leveling Operations, India a Burma.	nd Offg, Surveyor, 4th grade. (i) Exclusive of (and 5 days' leave on private affairs under new
70	onnor, Mr. J. [Rev.]	. 35	5 9 24	Ditto	Ditto	325 0 0	- ,] ,	1	ŀ			4. Draftsman, Head Quarters, Calcutta.	Previous service as Apprentice, from 1st Octobe
Co	pping, Mr. G. R. [Topogl.]] I.	S. 30	0.6	Ditto	2nd grade .	168 0 0				873 Oct. 11, 18		6 Beluchistan Topogl. Survey	•
	orkery, Mr. H. [G. T. S.]] L.	S. 31	10 10	Ditto •	2nd grade			1		873 April 1, 18		2j On sick leave 1 Central India and Rajputana Topog	. (j) Exclusive of leave without pay, from 21st 13th November 1978, Leave on private aff year from 12th Δpril 1882. Extension for 6 r 78-
Co	rffelius, Mr. W. J. [Topogl.] L .	S. 34	3 1	Ditto	1st grade	250 0 0						phical Survey.	
Ъ	wley, Mr. P. A. G. [Rev.]	L.	S. 41	5 15 St	urveyor .	2nd grade		1		29 Sept. 1, 1	859 Nov. 1, 1	379 22 10	0 On furlough	· For 2 years, from 1st July 1892.

General Alphabetical List of the Officers of the Junior or Subordinate Department

<u> </u>	. 2	· · · · · · · · · · · · · · · · · · ·	3	4			6	7	
Number,	• Names of Officers an originally		Passed in Vernacular.	Age.	Rar	·k.	Grade.	• Saler	,;
	×	•		Y. M. D.				R. 0	
3 0	Coxen, Mr. J. T. U.			42 9 22	Surveyor	· .	. 4th grade		•. p. • .
31	Cusson, Mr. G. D.	. [G. T. S.]	L. S.	3697	Assistant Surveyor		. 1st grade	. 250 (
32	Dickinson, Mr. R. R.	[Rev.]	L. S.	31 11 6	Ditta	•	2nd grade) 0) 0
33	Doran, Mr. P. J. W.	. [Topogl.]	L. S.	34 1 27	Ditto	• •	. 1st grade		0.
34	Dowman, Mr. H.	· . [Rev.]	· · ·	37 0 20	Surveyor	· .	4th grade	. 300 0	. 1
35	Drew, Mr. E. B. M.	· [Rev.]	• • •	29 2 10	Assistant Surveyor	· .	. 3rd grade	. 160 0	0
36	D'Souza, Mr. A.	• [G. T. S.]		45 10 17	Surveyor	•	1st grade	500 0	0
37	Dunne, Mr. T. H.	. [Rev.]	L. Ş.	35 6 5	Assistant Surveyor	·	Ditto	250 0	
39 J	Ewing, Mr. A.	• • *		21 6 Q	Ditto		3rd grade	190 0	
	Ewing, Mr. R. C. D	C====1	H. S.	35 0 20	Ditto		1st grade	120 0 300 0	0
40 H	Ewing, Mr. W. H. D]:	25 10 7	Ditto	•	3rd grade .	152 0	* 2
41 F	fielding, Mr. W. A.	[G. T. S.]	L. S.	35 1 13	Ditto		·		
42 I	Fleming, Mr. G. L. :	. [Topogl.]		29 2 29	Ditto	• • •	1st grade . 2nd grade .	250 0	0
43 F	ord, Mr. C. W. J.	[Rev.]	1	30 3 6	, Ditto	•	Ditto	200 0	
44 F	reeman, Mr. T. F. 🛛	. [Rev.]	L. S. 3	32 3 27	Ditto	· · ·	lst grade .	200 0 250 0	
45 G	astaud, Mr. M.	. *		21 3 24	Ditto		- 9ml - 1		
46 G	eorge, Mr. A.	. *		8 5 18	Ditto	• • •	3rd grade . Ditto .	120 0	- 15
47 G	eorge, Mr. C.			0 6 24	Ditto	· · · ·	Ditto .	152 O 152 O	1.
49 Gi	ibson, Mr. A. J.	[Rev.]	4	170	Jurveyor		Ditto .	350 0	
49 G	ibson, Mr. R. A.	[Topogl.]	2	8 11 26	Assistant Surveyor	·	2nd grade .		0
50 Gr	aham, Mr. E.	. [Topogl.]	L.S. 29	980	Ditto	• • •	Ditto .	184 0 (0
51 Gr	ant, Mr. F.	[Rev.]	43	7365	urveyor	• • •	lst grade • .	500 0 (0
52 G	vynne, Mr. N. C.	[G. T. S.]	40	3 25	Ditto	[4th grade	300 O (
	all, Mr. G. T.	[G. T. S.]	L. S. 31	L 2 24 A	esistant Surveyor		lst grade	200 0 0	
	amer, Mr. C. F.	. [Topogi.]	36	}	urveyor		4th grade .	300 0 0	
55 Ha	mby, Mr. H. T.	. [Rev.]]	L. S. 36	8 8 12	Ditto ·	• • •	Ditto .	300 0 0	
56 Hi	ckie, Mr. J.	[G. T. S.]	L. S. 34	5 17 A	ssistant Surveyor		lst grade	250 0 0	
57 Hi	ggs, Mr. J. A.	. *	23	1	Ditto		Brd grade	128 0 0	1 73
58 Hi	ll, Mr. E. P. S.	[Rev.]]	H. S. 29	0 17	Ditto		2nd grade .	192 0 0	1 3
59 Jai	mes, Mr. A. J.	[Topogl.]]	L.S. 36	7 12 8	urveyor		th grade	300 0 0	
50 Jai	rbo, Mr. G. W.		L. S. 35		esistant Surveyor		Ith grade .	250 0 0	
61 Ke	ating, Mr. J.	[G. T. S.]	29	ļ	Ditto		and grade	160 0 0	(場)
ر <u></u> ا		•	·					-	
	22	-			amation on 1st January 16		فيتستعر المتعادي والتعاق		6 · ·

of the Survey of India as it stood on the 1st July 1883 -continued.

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	Number.	Date o \$ first appointment to Department,	Date of appointment to present grade.	Period of service counting for pension on 1st July 1883.	• • Present Post,	Remarks.
-				Y. M. D.		,
1	30	Мву 16, 1863	Feb.• 22, 1883	19 5 19	On furlough	In India for 6 months, from 28th May 1883. Sick leave, from 8th to 31st October 1878; and 6 months, from 12th November 1878.
1		May 8, 1868 April 16, 1873	April 1, 1881 April 1, 1881	13 9 7a 9 11 6	•	(a) Exclusive of furlongh for 364 days, from 1st Novem- ber 1878 to 30th October 1880. Apprentice, from 1st April 1872 to 16th April 1873.
Ł	33	Feb. 1, 1867	July 6, 1880	11 5 3	Central India & Rajputana Topogl. Survey.	
1	34	Oct. 16, 1862	Oct. 16, 1874	20 8 1	Pegu and Shuagyheen Districts [Cadas- tral] Survey, British Burma.	Absent without leave 3 days. Sick leave 3 days in October 1885, 4 days in December 1885, and from 11th to 10th December 1888.
	35	May 5, 1873	April 1, 1881	5 5 266	Benares, &c., Districts [Cadastral] Sur- vey, N. W. P.	(b) Exclusive of leave without pay, from 17th April 1677 to 31st December 1978. On half pay list, from 6th Nov- ember 1879 to 31st March 1881.
	36	Feb. 19, 1856	Sept. 1, 1875	22 7 15c	Guzerat Survey .	(c) Exclusive of 349 days' furloagh, 77 days' leave on medical certificate, and 33 days' preparatory leave under new rules.
	37	Feb. 15, 1865	Dec. 1, 1874	13 5 24	Bassein and Henzada Districts [Cadas- tral] Survey, British Burma.	Absent without leave 1 day, and sick leave for 10 days in October 1865.
	38	Nov. 16, 1881	Nov. 1, 1882		North-East Frontier Topogl. Survey.	
	3 9	June 9, 1866	Aug. 1, 1878	13 0 20	Draftsman, Head Quarters, Calcutta.	
	4 0 ⁻	April 15, 1878	April 1, 1881	3 8 Ge	Bassein and Henzada Districts [Cadas- tral] Survey, British Burma.	(e) Exclusive of 2 months and 1 day's suspension, from 23th May to 1st July 1880, and sick leave from 2nd to 28th July 1880.
	41	May 3, 1868	April 1, 1881	13 1 13	Kattywar and Cutch Survey.	
	42	Aug. 11, 1873	June 7, 1881	516	Extraordinary leave on private affairs	For 6 months, from 6th October 1862; extension for 6 months.
	43	Nov. 1, 1871	April 1, 1881	836	Bassein and Henzada Districts [Cadas- tral] Survey, British Burma.	
	44	Sept. 9, 1868	April 1, 1883	1 7 8 27	Mirzapur and Gorukpore Districts [Ca- dastral] Survey, N. W. P.	Sick leave for 2 years, from 1st May 1880; extension for 6 months, without pay, up to 31st Jan. 1883.
	45	May 1, 1882	Jan. 17, 188	3	Central India & Rajputana Topogl. Survey.	•
	46	Oct. 15, 1878	April -1, 188	1 4 8 17/	Guzerat Survey	(f) Exclusive of previous service as Sub-Surveyor.
	47	Sept. 5, 1878	April 1, 188	1 8 6 24	Khandesh and Bombay Native States , Topogl. Survey.	Previous service as Sub Surveyor, from 18th August 1876
	48	May 1, 1861	Oct. 11, 188	1 22 1 27	Hissar District Survey, Punjab	Absent without icave for 3 days in January 1886.
	49	Dec. 1, 1870	April 1, 188	1 6 11 26	Map Curator, Head Quarters, Calcutta .	Provious service ou probation in G. T. S., from 1st Oc toher 1868 to 30th June 1870, Apprentice Draftsman, Surreyor General's Office, from 10th October to 30th November 1870, Probabilonary Assistant Surveyor, 1s
	50	Aug: 11, 1875	3 April 1. 188	1 7 8 0	Burma Topogl. Survèy.	December 1870. Previous service as Sub-Surveyor, from 1st Novombe 1872.
	51	July 11, 1850	3 Feb. 22, 188	3 26 11 21	Pegu and Shuagyheen Districts [Qadas- tral] Survey, British Burma.	· · · ·
	52	Oct. 19, 186	3 Oct. 1, 187	4 18 3 25	Kattywar and Cutch Survey.	
	53	Nov. 22, 187	2 April 1, 188	3 9 2 24	Ditto ditto.	
	54	Aug. 3, 186	3 July 13, 187	8 14 8 24	Mirzapur Topogl. Survey.	
	55	Nov. 13, 186	2 Nov. 13, 187	4 20 7 18	Benares, &c., Districts [Cadastral] Survey, N. W. P.	
	56	April 29, 186	8 April 1, 188	81 11 11 17	South Decean Topogl. Survey, Poona .	Exclusive of 6 months' sick leave.
	57	Sept. 12, 188	I Feb. 1, 188	82 1 3 0		Previous service as Apprentice Draftsman, from 31s July 1878.
	58	Nov. 16, 187	2 April 1, 188	81 7 0 17	Mirzapur and Goruchpore Districts [Ca- dastral] Survey, N. W. P.	
	55	June 15, 186	4 Nov. 22, 18	80 14 7 12		
¥	6	Nov. 1, 180	6 Jan. 1, 18	80 13 9 C	Tharawaddy and Prome Districts [Cadas- tral] Survey, British Burma.	Sick leave for 15 days, from 26th May to 91h June 1869.
	61	June 1, 187	4 Feb. 22, 18	83 7 1 27	North-East Frontier Topogl. Survey.	

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General Alphabetical	List of	the Officers	of	the Junior	or	Subordinate	Department
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	2		3	4	5		6	7
Number.	Names of Officers and originally p		Passed in Vernacular	Age.	• Ran	k. '	Grade.	Salary,
			·	V N D				
62	Keelan, Mr. H. E. T	[G. T. S.]	Ì	Y. M. D 40°3 1	J			# a.
63	Kelly, Mr. J. C.	*		25 8 23	}	•	2nd grade	400 0
64	Kelly, Mr. W. M.	. [Rev.]		28 10 25	-	• •	. 3rd grade	152 0
	· · · · · · · · · · · · · · · · · · ·					•	2nd grade	200 0
65 66	Kennedy, Mr. J. M.	. [G. T. S.]	· · •	26 7 28		· ·	. 3rd grade .	160 0
66	King, Mr. D. A.	. [Rev.]	• • •	36 7 26	Surveyor	• •	· 4th grade .	300 0
67	Kinney, Mr. T.	. [G. T. S.]	L. S.	36 1 27	Assistant Surveyor		. 1st grade	125 0
68	Kitchen, Mr. A.	. [Topogl.]	• • • •	30 5 4	Ditto	· •	· 2nd grade .	200 0
69	Kitchen, Mr. F.	. [Topogl.]		87 3 7	Ditta			
	Kitchen, Mr. H. T.	. [Topogl.]		35 0 23	Ditto Ditto	· · ·	Ist grade .	300 0 (
1	Knight, Mr. G. A.	. [Topogl.]	.	29 2 9	Ditto	• •	Ditto .	250 0 (
	Kraal, Mr. C. S.	. [Rev.]	L. S.	29 8 6	Ditto	• •	2nd grade	168 0 (
73	Lawson, Mr. A. M.	. [Rev.]	L. S.	44 5 29	Surveyor	•••	Ditto	160 .0 (
74]	Lilley, Mr. W. H.	. [Topogl.]		34 6 28	Assistant Surveyor		3rd grade .	350 0 0
75]	Little, Mr. E. G.	. [Rev.]		37 8 19	Surveyor		1st grade . 4th grade .	250 0 0 300 0 0
76 1	Littlewood, Mr. H. R.	. [Rev.]		39 7 25	Ditto		3rd grade .	350 0 0
77 1	Madras, Mr. S. O.	. [Rev.]	· · · ·	32 10 16	Assistant Surveyor		lst grade .	250 O Q
78 1	Martín, Mr. E. J.	. [Rev.]		32 4 15	Ditto	• • •	Ditto .	230 0 0
79 N	lay, Mr. J. A.	. [Topogl.]		42 1 16	Surveyor	· · ·	2nd grade	400 0 0
	IcA'Fee, Mr. C. H.	. [G. T. S.]	L. S.	33 7 15	Ditto	· · ·	4th grade	300 O O
1	McCarthy, Mr. J. F.	. [G. T. S.]	L. S.	30 2 2	Assistant Surveyor	· · ·	2nd grade .	• • •
	IcQay, Mr. J.	. [Topogl.]		29 8 23	Ditto	· · ·	Ditto .	200 0 0
	IcGill, Mr. G. A.	. [Topogl.]	í	45 2 7	Surveyor	· · · ·	1st grade .	500 0 0
84 M	IcHatton, Mr. J.	. [Rev.]	L. S.	33 11 14	Assistant Surveyor	· · .	Ditto .	250 0 0
85 Д	IcNair, Mr. W. W.	. [Topogl.]	9 . s. :	32 9 18	Surveyor		4th grade .	•••
86 M	Iurphy, Mr. J.	. [Rev.]		30 11 19	Assistant Surveyor		2nd grade	200 0 0
87 N	Newland, Mr. J.	(B 1		(E 10 00	D:::			
	Jorman, Mr. C.	[Rev.] [G. T. S.]		45 10 26	Ditto Ditto	•••	lst grade	250 0 0
1	forman, Mr. S. F.	[G. T. S.]		27 1 12 28 10 23	Ditto Ditto	· · ·	3rd grade .	160 0 0
	Donel, Mr. J. H.	[G. I. S.]	Í	[Surveyor		2nd grade .	160 0 0 375 0 0
							- ·	•
	gle, Mr. M. J.	[Topogl.]		1 3 27	Ditto '	• • •	3rd grade .	350 0 0
1	'Sullivan, Mr. W. J	. [G. T. S.] .		9 4 17	Ditto		4th grade .	300 0 0
93 P	arker, Mr. G. E.	. [Rev.] .	9	3 4 18	Assistant Surveyor	• • •	lst grade	200 0 0
04 P	emberton, Mr. J. S.	[Rev.]	L. S. 3	9 11 23	Jurveyor		3rd grade	350 0 0
	enrose, Mr. W. H.	·	L. S. 3		Assistant Surveyor			200 0 0
95 Pe	спос, шт. ч. п	[Rev.]	L. 8. 8.	1 8 24	Listatiant Guiveyor	· · · · [lst grade .	200 0 0

of the Survey of India as it stood on the 1st July 1883 -continued.

	8	9	10	11	12
Number.	Date of first appointment to Department.	Date of appointment to present grade.	Period of service counting for pension on 1st July 1883.	Present Post.	Remanus.
-		_	Y. M. D.		,
52	Aug. 17, 1858	July 8, 1879	17 3 Oa	No. 2 Astronomical Party	(a) Exclusive of 11 months and 13 days' furlough and 10
	Aug. 17, 1888 Oct. 11, 1878	April 1, 1881	3 8 23	Hissar Dist. Survey, Punjab.	days' sick leave under new rules.
53 34	Oct. 1, 1878	April 1, 1881	6 10 25	Konkan Topogl. Survey, Poona .	Re-appointed to the Department, 1st October 1878, after
999	000. 1,1072	April 1, 1901			employment in the Forest Department, from 1st Nov ember 1877 to 30th September 1878.
65	Aug. 19, 1875	April 1, 1881	4 7 28	Mysore Topogl. Survey.	
66	April 12, 1864	April 1, 1883	14, 7 25	Pegu and Shuagyheen Districts [Cadas- tral] Survey, British Burma.	Apprentice, from 12th April to 30th June 1864.
67	June 17, 1868	Oct. 1, 1874	13 6 27	On half-pay list, from 7th Dec. 1879.	
68	Oct. 1, 1872	April 1, 1881		Central India and Rajputana Topogra-	
00	000 2,000			phical Survey.	
69	Oct. 1, 1864	April 1, 1874	1	Mysore Topogl. Survey.	Offg. Surveyor, 4th Grade. Exclusive of two months sick leave.
70	Nov. 1, 1867	April 1, 1881	1 .	Mirzapur Topogl. Survey.	
71	Aug. 11, 1873	Mar. 7, 1882	729	South Deccan Topogl, Survey, Poona.	
72	July 24, 1874	April 1, 1883	7 7 19	Hooghly River Survey, Bengal	Sick leave, from 6th to 22nd February 1679.
73	Nov. 18, 1862	Oct. 30, 1879	20 7 13	Konkan Topogl. Survey, Poona.	
74	Мву 1, 1868	April 1, 1881	12 1 76	Mirzapur Topogl. Survey	(5) Exclusive of leave on medical certificate, from 14t December 1877 to 3rd June 1878. Previous service a Apprentice, from 1st November 1867.
75	Jan. 1, 1860	Nov. 5, 1874	23 6 0	Mirzapur and Goruckpur Districts [Cadastral] Survey, N. W. P.	Apprentice, from 1st January 1860 to 4th November 1866
76	Oct. 6, 1860	Jan. 1, 1878	3 22 8 26	Bassein and Henzada Districts [Cadastral] Survey, British Burma.	
77	July 6, 1868	April 1, 1881	10 10 16	Benares, &c., Districts [Cadastral] Sur- vey, N. W. P.	
78	Sept. 16, 1867	April 1, 1881	9815	On duty at Head Quarters, Calcutta .	Furlough from 1st April to 30th November 1892 Office Assistant, from 16th September 1867 to 31st July 1870.
79	Oct. 1, 1860	Jan. 1, 1983	3 23 6 0	On duty at Head Quarters, Calcutta .	Apprentice Draftsman, from 1st January 1860.
80	Sept. 6, 1864	Aug. 1, 1876	5 11 6 15	Guzerat Survey	Sick leave for 1 month, from 30th December 1882.
01	Aug. 1, 1873	April 1, 1881	652	Extraordinary leave on private affairs .	For 6 months, from 1st October 1891. Extraordinar leave, without allowances, for 1 year, from 1st Apr
82	Dec. 1, 1870	Nov. 22, 1880	7 8 23	North-East Frontier Topogl. Survey.	1692. Extension for 6 months.
83	April 8, 1855	Mar. 7, 188	2 28 2 23	On duty at Head Quarters, Calcutta .	Sick leave, from 1st November 1671 to 26th Februar 1872. Service reckoned under old rules.
84	July 1, 1867	April 1, 1891	1 10 11 14	Pegu and Shungyheen Districts [Cadas- tral] Survey, British Burma.	Furlough for 1 year, from 1st January to 31st Decemb 1870.
85	Sept. 1, 1867	Mar. 7, 1885	2 10 7 15	On furlough	For 1 year, from 28th March 1883.
86	Nov. 22, 1868	April 1, 1881	1 8 11 19	Pegu and Shungyheen Districts [Cadas- tral] Survey, British Burma.	Office Assistant, from 22ud November 1888 to 31 October 1871.
87	Oct. 22, 1863	Jan. 1, 1878	8 19 8 10	Konkan Topogl. Survey, Poona.	
88	Oct. 12, 1874	April 1, 188	1 5 1 12	Guzerat Survey.	
89	Sep. 1, 1874	April 30, 188	3 6 10 23	Ditto.	
9 0	Oct. 1, 1863	Oct. 22, 187	9 15 11 20	Officiating Draftsman, Head Quarters, Calcutta.	
91	July 1, 186	3 Jan. 1, 188	3 18 3 27	North-East Frontier Topogl. Survey .	Furlough to Europe for 1 year, from 21st November 1877 to 20th November 1878.
92	Oct. 1, 186	Oct. 1, 187	4 17 4 7	Darjceling Survey.	
93	Nov. 18, 187) Jan. 17, 188	3 11 4 18	Pegu and Shuaygheen Districts [Cadas- tral] Survey, British Burma.	
94	l Oct. 6, 186	Jan. 1, 187	8 22 8 21	Hooghly River Survey, Bengal .	Overstayed privilege leave by 5 days in June 1860.
95	5 Aug. 11, 186	9 Nov. 1, 188	2 9 8 24	Bassein and Henzada Districts [Cadastral Survey, British Burma.	נ
	1	1	1		1 • · ·

General Alphabetical List of the Officers of the Junior or Subordinate Department of the Survey of India as it stood on the 1st July 1883 -continued.

	<u></u>	2				3	4	5	6	7			8	1	9	10	11	12
Number.	Names of Officers origina			to whic	en [Passed in rnacular	Age.	Rank.	Grade.	Salary.		Number.	Date of firs appointment Departmen	to appon		Period of service counting for pension on 1st July 1883.	Present Post.	. Rema bre.
96	' Peters, Mr. P. A.			[Ret	,] :	L. S.	Y.M.D 28 6 23		2nd grade .	R a. p.					17 1993	ү. м. D.	Pegu and Shuaycheen Districts [Cadas-	
97	Peychers, Mr. H. W	r	. [G. T. S				Surveyor		160 0 0		96	Nov. 1, 18	ſ	1)	tral] Sarvey, British Burma. Computing Office, Head Quarters, Dehra	
9 8 1	Peyton, Nr. J.	•	. [G. T. S			52 0 0		3rd grade .	350 0 0		97	1 -				Duu.	, Service reckoned under new rales.
99 1	Pocock, Mr. L. J.			G. T. S.		 I. S.	39 9 5	· · ·	lst grade .	500 0 0		98	Feb. 3, 1	360 April	1, 1874	23 4 27	North-East Frontier Topogl. Survey	
	Potter, Mr. C. D.			3. T. S.			-		4th grade .	300 0 0		99	July 10, 1	869 July	1, 1874	17 6 7a	Mysore Topographical Survey	(a) Exclusive of 69 days' bick leave.
01 F	rice, Mr. W. C.			3. T. S.				Assistant Surveyor	lst grade .	250 0 0		100	Oct. 29, 1	866 Oct.	1, 1874	15 8 24b	Secondary Triangulation Party	(b) Ditto of 33 days' wick leave.
					J .	• •	57 U B	Surveyor	4th grade .	300 0 0	Ţ	101	Nov. 1, 1	863 Oct.	1, 1874	15 0 8	Benares, &c., Districts [Cadastral] Sur vey, N. W. P.	
	ranty, Mr. P. F.	•	• [0	J. T. S .].	• •	28 6 6	Assistant Surveyor	2nd grade .	160 0 0	•	102	May 9, 1	874 Jan.	. 22, 1883	666	Kattywar and Cutch Survey.	
13 R	endell, Mr. T. H.	•	. [0	3. T. S.	J .		98 11 9	Surveyor	4th grade .	300 0 0		103	Oct. 11,	864 Jun	e 7, 1881	16 11 9	Tidal and Leveling Operations, Indi and Burma.	a
4 R	obert, Mr. W.		. ["	[opogl.]	J.		32 10 2	Assistant Surveyor	lat and	840 0 0	ł					10 10 2		
5 So	ott, Mr. G. B.			[Rev.]	.				lst grade .	240 0 0	1	104	Aug. 21,	1869 Apr	0, 1070	10 10 2	Darjeeling Survey. Hisson District Survey, Punjab	. Temporarily detached under Settlement Officer, Bay pindi, Punjab.
6 Sc	ott, Mr. J. R.		•	[Rev.]		-*		Assistant Surveyor	9rd grade .	450 0 0		105	May 1,	1863 July	y 8, 1879	19 9 97	Hissar District Survey, Punjab Tharawaddy and Prome District [Codestral] Survey, British Burma.	
7 50	to M. D. W.						• •,	Lobstant Surveyor	lst grade .	250 0 0		106	Jan. 19,	1867 Nov	v. 22, 1880	12 3 21	[Cadastral] Survey, British Burma.	
	nior, Mr. R. W.			. T. S .]		. s .	22 7 18	Ditto	3rd grade .	152 0 0	1	10	7 Dec. 21,	1878 Api	ril 1, 1881		Nepal Doundary Party.	
1	yers, Mr. C. W. F.	·	•	[Rev.]	• •	•••	39 10 15	Ditto	1st grade .	220 0 0		10	B Dec. 1,	1864 Jur	ne 7, 1881	17 10 15	Meerut, &c., Districts Survey, N. W. 1	P.
Sh	aw, Mr. T.	•	•	[Rev.]	L.	s. :	30 7 15	Ditto	Ditto .	240 0 0		10	9 April 21,	1		1	Mirzapur and Goruckpore Distric [Cadastral] Survey, N. W. P.	ts .
Sin	oclair, Mr. W.	•	. '	[Rev.]			15 9 7	Surveyor	2nd grade .							1	On furlough	For 1 year 5 months and 26 days, from 21st April 16 On furlough, private affairs, from 10th April 16 3 October 1977, inclusive.
Sm	art, Mr. A. D.			[Rev.]			52 8 17	Ditto					})		(c) Commencement of second service.
Sm	art, Mr. A. W.			[Rev.]					Brd grade .	175 0 0		. 11	1 Oct. 1,	1870c Oc	t. 1, 187	0 12 9 0	On half-pay list, from 1st Jan. 1880	the Three months' sick leave, from 8th July 1880.
				[]	• •	• •	2 4 1	Assistant Surveyor	2nd grade .	200 0.0		11	2 Dec. 1,	1871 Ap	oril 1, 188	1 10 4 1	[Cadastral] Survey, British Burma.	Three months' sick leave, from 6th July 1880.
	art, Mr. O. D.		•	.•	· ·	. 2	6 9 15	Ditto	Brd grade .	128 0 0		11	3 Oct. 1	1881 Ma	arch 7, 188	2 1 9 0	Mirzapur and Goruckpore Distri [Cadastral] Survey, N. W. P.	cts
1	art, Mr. P. C. H.		•	.*		. 2	7 9 15	Ditto	Ditto .		•		4 April 18	1878 Ar	oril 1, 188	1 4 11 20	On sick leave	. For 0 months, from 8th April 1883.
Sma	art, Mr. R. B.	• •		[Rev.]	L . :	8, 3	602	Ditto		300 0 0		1	15 Jan. 1	1864 M	ny 27, 187	4 14 0	Bassein and Henzada Districts [Cadast Survey, British Burma.	ral] Offg. Surveyor, 4th grade. Apprentice, from lrilla to 91st December 1804.
Sm	ylic, Mr. S. M.		I	[Rev.]	L. :	S. 4	277	Surveyor 2	nd grade .	450 0 0		1	16 July 24	, 1860 A	pril 1, 188	33 22 7	5 Draftsman, Head Quarters, Calcutta	· Furlough, from 8th November 1882 to 11th March
Stot	tesbury, Mr. W.		[T o	pogl.]	H. H. S. L. S. Dare		5 11 6	Assistant Surveyor	st grade	300 0 0		1	17 Oct. 4	, 1864 A	pril 1, 18	74 13 11	6 Mysore Topogl. Survey	Offg. Surveyor, 4th grade.
Swi	ney, Mr. G. C.	• •	[[Rev.]			4 0 4	Ditto	Ditto .	250 0 0	ł	1	18 Sep. 1	7, 1868 A	pril 1, 18	81 12 0	4 South Deccan Topogl. Survey, Poona	
Swi	ney, Mr. J. S.		[Rev.]		. 32	2 6 12	Ditto	Ditto .	250 0 0		1	1	1		1	2 Tharawaddy and Prome Dista [Cadastral] Survey, British Burma	icts
Tap	sell, Mr. C.		[To	pogl.]	L. 8	s. js	7 17	Ditto		250 0 0	1	1	ł				6 Guzerat Survey.	:
Tate	, Mr. G. P.			•	L.S		11 9	D						1			9 Central India and Rajputana Top	oogl. Apprentice, from 1st March 1874.
JToda	d, Mr. H.		[G. :	r. s.]			10 15						ł	1		1	Survey. 16d Mysore Topogl. Survey	 Officiating Surveyor, 4th grade. (d) Exclusive of 30 days' sick leave.
Tod	d, Mr. J.			Rev.]					, ,	·	Ų.						19 On furlough	 In India, for 2 years from 10th April 1893. Ov privilego leave by one day in August 1874.
Todd	l, Mr. R.			pogl.]			1 19 8									{	19 South Deccan Topogl. Survey, Poon	1
		•	L * V]	~ъ•-1	• •	. 37	11 20	Ditto 41	h grade . 3	00 0 0	. 1							
Todd	l, Mr. W.	•	[G. 7	r. s .j	• •	. 44	7 21	Ditto 2n	d grade . 4	00 0 0	1		125 Jnn.	11, 1856	June 1, 1	874 25 4	23c On duty at Head Quarters, Calcutta	 (c) Inclusive of 2 years, which count as service of years and 28 days on medical certificate under o

General Alphabetical List of the Officers of the Junior or Subordinate Department

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of the Survey of India as it stood on the 1st July 1883 -concluded.

1	2	3	4	5	6	7	ا	τ i		8	9	10	11	12
Number.	Names of Officers and Branch to which originally posted.	Passed in Vernscular.	Age.	Rank.	Grade.	Salary.	1	,	Number.	Date of first ppointment to Department.	Date of appointment to present grade.	Period of service counting for pension ou 1st July 1882.	Present Post.	REMARKS.
	``		Y. M. D.			R s. a.p.		X				Y. M. D.		
26	Torrens, Mr. C. P [G. T. S.]	· · •	32 0 12	Assistant Surveyor	lst grade .	250 0 0	1,	T	126	Dec. 12, 1868	April 1, 1881	10 0 12	Burma Topogl. Survey, Rangoon.	
27	VanderBeck, Mr. G [Topogl.]	L. S.	33 9 15	Ditto	Ditto .	200 0 0			127	July 1,1872	April 30, 1883	11 9 15	Khandesh and Bombay Native States Topogl. Survey.	Apprentice Draftsman, from 11th October 1870 to July 1872.
8	Vyall, Mr. W. R [Rev.]	· · .	44 6 2	Surveyor	3rd grade	350 0 O.	ľ	-	1 1		1	1	Thurawaddy and Prome Districts [Cadas- tral] Survey, British Burma.	1
9	Wainright, Mr. E. A [Topogl.]	•	35 0 23	Assistant Surveyor	lst grade	250 0 0							Mirzapur Topogl. Survey.	
۲ 	Warde, Mr. F. E [Topogl.]	• • •	31 9 24	Ditto	Ditto .	230 0 0		Ο.	130	Sept. 1, 1870	April 1, 1881	9 9 24	Kohat Frontier Topogl. Survey.	
1	Warwick, Mr. R. F [G. T. S]	L. S.	28 3 6	Ditto	3rd grade .	160 0 0			131	July 2, 1875	April 1, 1891	4 3 5	2 On sick leave	(a) For 1 year from 10th August 1892. Exclusive of on medical certificate for 2 months, from 10th OU to 0th December 1877. Also for 0 months, from May to 31st October 1870. Also 4 months and 25
2 1	White, Mr. P [Topogl.]	L. S.	32 8 22	Ditto	2nd grade .	192 0 0			132	Oct. 1, 1872	April 1, 1881	8 7 21	b Beluchistan Topogl. Suryey	from 30th August 1881. (6) Exclusive of sick leave for 3 months, from 21st O 1878. Leave extended for 3 months; further est of leave without pay up to 17th August 1879. O nay list from 18th August 1870 to 31st August
ľ	Willis, Mr. G. S		19 0 4	Ditto	Brd grade .	120 0 0	1		133	Feb. 25, 1883	3 Feb. 25, 1883	3	Benares, &c., Districts [Cadastral] Survey, N. W. P.	of leave without pay up to truth august 1970 to 184 Argust pay list from 18th August 1870 to 18th Argust On sick leave for 1 year, from 17th Octobe Extension to 28th January 1883.
V	Wilson, Mr. A. J [Topogl.]	L. S.	40 10 0	Surveyor •	2nd grade .	400 0 0r	I*	4	134	Oct. 1, 1860	0 June 26, 1880	23 0 0	On duty at Head Quarters, Calcutta	Apprentice Draftsman, from 1st January 1960.
V	Vilson, Mr. B. M [Rev.]	••••	35 2 17	Assistant Surveyor	Ditto .	184 0 0		Ţ	135	Nov. 15, 187	2 April 1, 188	1 11 5 0	Ditto Ditto .	• Apprentice, from 1st February to 14th November
V	Vilson, Mr. C. W [Rev.]	L. S.	37 7 22	Ditto	st grade .	230 0 0		1.	136	June 21, 1862	7c April 1, 189	1 15 2 25	Meerut, &c., Districts Survey, N. W. I	(c) Commencement of second service. Sick le 3 months, from 1st March 1809, and 2 months 1st August 1809.
W	Vilson, Mr. J. H [Topogl.]	L. S.	37 0 23	Ditto	Ditto .	250 0 0			137	April 1, 186	8 April 1, 188	1 14 10 25	d Burma Topogl. Survey, Rangoon .	. (d) Exclusive of 2 months' sick leave, from 1 1869. Appointed as Draftsman from 15th May
W	Vilson, Mr. W. A [Rev.]	L. S.	40 1 12	Surveyor g	rd grade .	350 0 0	•		138	Jan. 1, 186	1 May 1, 187	8 22 6	Benares. &c., Districts [Cadestral], Su vey, N. W. P.	r-
W	Vood, Mr. C [G. T. S.]	L. S.	40 11 10	Ditto • • • 1	st grade .	500 0 0	(139	May 6, 185	58 April 1, 188	33 24 11 1	Computing Office, Head Quarters, Dehr Dun.	ra Service reckoned under old rules,
W	Vyatt, Mr. A. G [Topogl.]	:	38 4 6	Ditto 3	rd grade .	350 0 0	٩	¥.	140	Nov. 1, 180	61 Feb. 22, 188	33 21 8	0 Khandesh and Bombay Native Stat Topogl. Survey.	es
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	• Joined t	he Department	after the amai	gamation on let January 1878,		<u> </u>		1			<u></u>	!		

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Number of Party.	WHERE EMPLOYED.	Sub-Surveyors.	Writers.	Chainmen and Flagmen.	Native Doctors.	Burkundazes.	Havildars.	Annual Cost of Party.
	Secondary Triangulation Party; recess querters at Mussoorie	No.	No.	No. 78	No.	No. 27	No. 	R
	Darjeeling Survey. Special Survey Operations in and around Darjeeling; recuss quarters at Darjeeling		1	54	1	12		32,000
	Nepal Boundary Party ; recess quarters at Darjeeling .	·	<u> </u> . 	••••				
· <u>-</u>	Burma Party ; recess quarters at Rangoon							23,000
	Kottywar and Cutch Survey. The Province of Kattywar and Cutch, Bombay Presi- dency ; recess quarters at Poona	11	1	145	1	27		55,000
	Guzerat Survey. Guzerat ; recess quarters at Poons	20	4	184	1	33	1	98,000
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of India as it stood on the 1st July 1883.

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Officer in charge, Surveyors and Assistant Surveyors,	Rank and Grade.	Date of assum- ing charge.	Remades.
J. McGill, Esq Mr. C. D. Potter	Døpy. Superintendent, 4th grade . Asst. Surveyor, 1st grade.	Nov. 1, 1882	¢
LientCol. H. C. B. Tanner, s.c. E. C. Ryall, Esq Mr. W. J. O'Sullivan " W. Robert " W. C. G. Barckley	Depy, Superintendent, 3rd grade. Offg. in 2nd grale. Asst. Superintendent, 1st grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade. Ditto ditto.	Nov. 1, 1882.	
LieutCol. H. C. B. Tanner, s.c. Mr. D. Atkinson ,, R. W. Senior	Dopy, Superintendent, 3rd grade. Offg. in 2nd grade. Surreyor, Ist grade. Asst. Surveyor, 3rd grade.		
Major J. R. McCullogh, n.E	Depy. Superintendent, 4th grade.		
	•		
LieutCol. A. Pullan, s.c Mr. N. C. Gwynne "W. A. Fielding "G. T. Hall "P. F. Prunty	Depy. Superintendent, 3rd grade Surveyor, 4th grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 2nd grade.	Apl. 26, 1879.	
Col. C. T. Hnig, n.z	Depy. Superintendent, 2nd grade. Oifg. in 1st grade. Asst. Superintendent, 1st grade. Surveyor, 1st grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade.	Oct. 5, 1878.	

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		STRENG	TH OF LO	WER SUB IN ALL (Estadlis	HMENT	
Number of Party.	WHERE EMPLOYED.	Sub-Surveyors and Computers.	Writers.	Chainmen and Flagmen.	Native Doctors.	Burkundazes.	Jemadars.	Annunl Cost of Party.
	No. 1 Astronomical Party.	No.	No.	No.	No.	No.	No.	R
	Carrying on Electric Determinations of Longitude in India; recess quarters at Mussoorie			24	•••	Э		25,000
	No. 2 Astronomical Party. Carrying on Electric Determinations of Longitude in India; recess quarters at Mussoorie.	¥	1	10		3		31,000
	Tidal and Leveling Operations.							<u>+</u>
	Tidal Operations at various ports in India and Burma, also at Aden and Port Blair	16	1	25		10		57,000
	Leveling Operations in Bombay Presidency; recess quarters at Poona	***						

. of India as it stood on the 1st July 1883 -continued.

	•		•
Officer in charge, Surveyors and Assistant Surveyors.	Rank and Grade.	Date of assum- ing charge.	Remarks.
		.	•
			•
lajor W. J. Heaviside, n.r.	Depy. Superintendent, 3rd grade. Offg. in 2nd grade.	Dec. 6, 1882.	
•	·	 	
Major W. J. Heaviside, R. B. Mr. H. E. T. Keelan	• Depy. Supperintendent, 3rd grade. Offg. in 2nd grade. Surveyor, 2nd grade.	Apl. 24, 1883.	
	•		•
Asjor A. W. Baird, R. E. Ar. G. Belcham , A. Christie , T. H. Rendell , E. J. Connor	Depy. Supperintendent, 4th grade. Offg. in 3rd grade. Surveyor, 3rd grade. Ditto 4th grade. Ditto ditto. Asst. Surveyor, 1st grade. Offg. Surveyor, 4th grade.		

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	• •	WHERE EMPLOYE	D.	•	Sub-Surveyors.	Writers	Flagmen and Carriers.	H o s p i t a l Assistants.	Burkundazes.	Apothecary.	Annual Cost of Party.	• • •
—;	Contral Ind	lia and Rajputa Survey Party.	na Topog	, graphical	No.	No.	No	й.	No.		R	-
•		ajputana Agency		•	. 7		19 [.]	1	. 3		51 000	
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Khande		abay Native State		opartera	·							
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Th	Mirzapore	e Topographical	Survey F	Party.								
Mirzapo Musso	re District	forest tracts ;	recess q	uarters at	8		· 19	• 1	3		46,000	
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of India as it stood on the 1st July 1883 -continued.

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	Officers in charge, Surveyors and Assistant	Rank and Grade.	Date of assum-	Ввильке.
	Surveyors.		ing charge.	•
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•	•	•		
Major (C. Strahan, B.B. (in charge) .	Depy. Superintendent, 3rd grade. Ofig. in 2nd grade.	Oct. 18, 1880.•	•
Lieut. I	he Hon'ble M. G. Talbot, H.E.	Asst. Superintendent, 1st grade.		· ·
	R. A. Wahab, B.B.	Asst. Superintendent, 2nd grade. Offg. in 1st grade.		
Уг. W.	J. Cornelius .	Asst. Surveyor, 1st grade.	•	•
"P.	J. W. Doran	Ditto, 1st grade.		
	Kitchen .	Ditto, 2nd grade.		
•	P. Tate .	Ditto, 3rd grade.	•,	
	Gastaud .	Ditto, 3rd grade.		· · ·
	Brechey	Ditto, 3rd grade.		
"г.		Strong ord Bindon		
	• • •	•		
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<u> </u>	•			· · · · · · · · · · · · · · · · · · ·
		•		•
• .	,			
Major I	. T. Carter, B.B. (in charge) .	Depy. Superintendent, 2nd grade	Dec. 3, 1881.	•
Мг. А.	G. Wyatt	Surveyor, 3rd grade.		· .
" J.	A. Barker	Asst. Surveyor, 1st grade	•	
"• G	Vander Beek	Ditto, 1st grade.		
"A.	Bryson	Ditto, 3rd grade.		•
"с.	George .	Ditto, 3rd grade.		
•	· · ·		•	
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	· · ·	<u> </u>		<u> </u>
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Major J	. R. Wilmer, s.c. (in charge) .	. Depy. Superintendent, 4th grade .	Oct. 12, 1874.	
•	Patterson, Esq.	Asst. Superintendent, 2nd grade. . Offg. in 1st grade.		
Mr. C.	F. Hamer •	Surveyor, 4th grade.		
"E.	A. Wainright	Asst. Surveyor, 1st grade.		
" н.	T. Kitchen	Ditto, 1st grade.	· ·	
". W.	H. Lilley	Ditto, 1st grade.	· •	•
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) }		STBENG	ITH OF LO	WER SUB	OBDINATE GRADES.	ESTADLIS	HMBN T		•
Number of Farty	WHEEE EMPLOYED.	Sub-Surveyors.	Writers.	Flagmen and Carriers.	H o s p i t a l Assistants.	Burkundazes and Peons.	Apothecary.	Annual Cost of Party.	ι -
	North-East Frontier Topographical Party.	No.	No. •	No.	 No.	No.	No.		•
6	North-Eastern Frontier, Assam and South Sylhet; recess quarters at Shilloug	. 11	1	74	1	4		71,000	
	•		•		· ·	•	•	, .	•
				•					
		•					•	• . 	
		•							
<u> </u> 	Burma Topographical Party.		<u> </u>	<u> </u>	<u> </u>			•	
7	Forest tracts in Districts Hanthawaddy and Tharrawad- dy, British Burmah; recess quarters at Rangoon .	16	.1		1			50,000	
		. •					• .		t .
	•				(
			•						
•	Mysore Topographical Party.		<u> </u>			• •			
8	Mysore ; recess quarters at Bangalore	. 11	1	116	1	42		79,000	
		•		•				. ·	
				.					•
	•								ļ
•	•			•				•	
 	Beluchistan Topographical Party; recess quarters at Mussoorie	3		56		 	·	37,000	
		•					•		
	Kohat Frontier Topographical Party ; receas quarters at Mussoorie	3	<u> </u>	32	•	4	<u></u>	36,000	

of India as it stood on the 1st July 1883 -continued.

	Officers in charge, Surveyors and Assistant Surveyors.	Rank and Grade.	Date of assnm- ing charge.	В 2мавкя.
) М	, J. McCay , J. Keating , D. Campbell	Asst. Superintendent, 1st grade. Offg. Depy. Superintendent, 4th grade. Surveyor, 1st grade. Ditto, 3rd grade. Ditto, 4th grade. Ditto, 2nd grade. Ditto, 2nd grade. Ditto, 3rd grade. Ditto, 3rd grade. Ditto, 3rd grade.	Dec. 3, 1881.	
E M	. Horst, Esq. (in charge) . C. Baırıtt, Esq Ir. J. H. Wilson . C. P. Torrens , E. Graham	Depy. Superintendent, 4th grade. Offg. in 3rd grade. Asst. Superintendent, 1st grade. Offg. Depy. Superintendent, 4th grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 2nd grade.	Dec. 14, 1882.	
L M ''	Lajor H. R. Thuillier, R.E. (in charge) ieut. F. B. Longe, R.E	Depy. Superintendent, 1st grade Asst. Superintendent, 2nd grade. Offg. in 1st grade. Ditto, 4th grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Offg. Surveyor, 4th grade. Ditto, 1st grade. Ditto. Ditto, 1st grade. Ditto. Ditto, 3rd grade. Ditto, 3rd grade.	Oct. 20, 1881.	
N	Iajor R. Beavan, 5. C. (in charge) Ir. P. White G. R. Copping	Asst. Superintendent, 1st grade. Offg. Depy. Superintendent, 4th grade. Asst. Surveyor, 2nd grade. Ditto, 2nd grade.	July 27, 1980.	· · · · · · · · · · · · · · · · · · ·
I	Major T. H. Holdich, B.E. (in charge Lieut. H. M. Jackson, B.R. Mr. T. E. M. Chudius , F. E. Warde	 Depy. Superintendent, 3rd grade Asst. Superintendent, 2ud grade. Offg. in 1st grade. Surveyor, 4th grade. Asst. Surveyor, 1st grade. 	May 28, 1881.	

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Par Ky nch.		STREN	GTH OF L	OWEB SU	l Grades.	e Estabi	LISUMENT	
Number of Farky, kevenue Branch.	WHERE EMPLOYED.	Sub-Sarveyors, &c.	Writers.	Levellers.	Tindals, Mea- surcrs, &c.	Hospital Assist- ants.	Burkundazes.	Annual Cos of Party,
1	Hissar District, Punjab	No. 25 	No. 1	No. 	No. 240 70	No. 1 	No. 14 	R 59,600 13,000
	Recess quarters at Murree.							
2	Pegu and Shuagyheen Districts, British Burma Professional Establishment (permanent) . Cadastral do. (temporary) . Leveling	25 166 	 1 	 2	 130 540 40	1	21 	97,000 86,000 5,500
	Recess quarters at Rangoon.							
3	Meerut, Bulandshahr and Aligarh Districts, North- Western Provinces.	33	1		210	1	15	6Ĭ,800
	Recess quarters at Mussoorie.							
4	Ballia and Benares Districts, North-Western Provinces .							
	Professional Establishment (permanent) Cadastral do. (temporary)	25 173	1 		320 420	1 	17 	61,800 40,000
	Recess quarters st Naini Tal.							
5	Mirzapur and Goruckpore Districts, North-Western Provinces							
	Professional Establishment (permanont) Cadastral do. (temporary) (Terni)	17 233	2 	 	300 140		15 	65,200 40,000 3,800
	Recess quarters at Naini Tal.							
6	Hooghly River Survey, Bengal	29	1		250	1	8	64,500
1	Recess quarters at Calcutta.							

of India as it stood on the 1st July 1883-continued.

Officers in charge, Surveyors and Assistant Surveyors.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
			· · · · · · · · · · · · · · · · · · ·
LieutColonel D. Macdonald, s.c. (in charge) Mr. G. B. Scott "W. S. Buttress "A. J. Gibson "G. Campbell "J. C. Kelly	Depy. Superintendent, 2nd grade Surveyor, 3rd grade Ditto, 3rd grade. Ditto, 3rd grade. Aest. Surveyor, 1st grade. Ditto 3rd grade.	Dec. 6, 1879.	Temporarily detached under Settleme Officer, Rawalpindi, Punjab.
Major J. R. McCullagh, B.B. (in charge). E. J. Jackson, Esq. Mr. F. Grant	Depy. Superintendent, 4th grade Asst. Superintendent, 1st grade. Offg. Depy. Superintendent, 4th grade. Surveyor, 1st grade. Ditto, 4th grade. Ditto, 4th grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 2nd grade. Ditto, 2nd grade.	Aug. 1, 2881.	· · ·
J. James, Esq. (in charge) . G. H. Cooke, Esq. . . Mr. C. W. Wilson . . ", C. W. F. Seyers . .	Depy. Superintendent, 3rd grade. Offg. in 2nd grade Asst. Superintendeut, 1st grade. Offg. Depy Superintendent, 4th grade. Asst. Surveyor, 1st grade. Ditto, 1st grade.	May 12, 1883.	
Major W. Barron, s.c. (in charge) . Mr. W. A. Wilson .	Depy. Superintendent, 3rd grade. Offg. in 2nd grade	Nov. 12, 1873.	
	Depy. Superintøndent, 1st grade Surveyor, 1st grade. Ditto, 4th grado. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade.	Nov. 1, 1671.	
Mr. J. S. Pemberton	Depy. Superintendeut, 4th grade Surveyor, 3rd grade. Asst. Surveyor, 2ud grade.	April 7, 1982.	

	STEENGT	H OF LO	WER SUI			SHMENT	1. 1.
WHEBE EMPLOYED.	Sub-Surveyors, Éc.	Writers.	Levellers.	Tindals, Measur- ers, &c.	Hospital Assist- ants.	Burkundazes.	Annual Cost of Party.
	No.	No.	No.	No.	No.	No.	R
Tharawaddy and Prome Districts, British Burma .							
Professional Establishment (permanent) . Cadastral do. (temporary) .	23 100	1 	•••	170 450	1 	15 	85,500 86,000
Recoss quarters at Rangoon.							
Bassein and Henzada Districts, British Burma		•••					
Professional Establishment (permanent) Cadastral do. (temporary)	27 144	1 		130 630	1 	18 	89.800 86,000
Recess quarters at Rangoon.				 		<u> </u>	, ;
Thana District, Konkan, Bombay Presidency	22	1		130	1	14	54,800
	•						
Recess quarters at Poona.	<u> </u>		<u> </u>			 	
South Deccan Districts (Satara and others), Bombay Presidency	20	1		170	1	9	52,200
Recess quarters at Poona.							

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of India as it stood on the 1st July 1883 -concluded.

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٢	Officers in charge, Surveyors and Assistant Surveyors.	Rank and Grade.	Date of assum- ing charge.	REMARKS.
	H. B. Talbot, Esq. (in charge) . F. W. Kelly, Esq	Depy. Superintendent, 4th grade. Offg. in 3rd grade. Asst. Superintendent, 2nd grade. Offg. in 1st grade. Surveyor, 3rd grade. Asst Surveyor, 1st grade. Ditto, 1st grade. Ditto, 1st grade. Ditto, 2nd grade. Ditto, 2nd grade.	Nov. 1, 1880.	
ł	Major H. S. Hutchinson, s.c. (in charge) Mr. H. R. Littlewood " R. B. Smart " T. H. Dunne " W. H. Pentose " C. W. J. Ford " W. H. D. Ewing	Asst. Superintendent, 1st grade. Offg. Depy. Superintendent, 4th grade. Surveyor, 3rd grade. Asst. Surveyor, 1st grade. Offg. Sur- veyor, 4th grade. Ditto, 1st grade. Ditto, 1st grade. Ditto, 2nd grade. Ditto, 3rd grade.	May 29, 1883.	
1	Mr. A. M. Lawson	Dopy. Superintendent, 4th grade. Offg. Depy. Superintendent, 3rd grade. Surveyor, 3rd grade. Asst. Surveyor, 1st grade. Ditto, 2nd grade. Ditto, 2nd grade.	June 24, 1882.	
		Depy. Superintendent. 3rd grade Surreyor, 4th grade. Asst. Surveyor, 1st grade. Ditto, 1st grade. Ditto, 2nd grade.	Dec. 24, 1880.	•

Classified List	of	Officers	of	the	Mysore	Revenue	
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	Names.	Substantive Appointment.	Duty in which at present employed.			
	h	3	4			
1 2 3 4	2 LieutCol. J. P. Grant	 Superintendent, Revenue Survey and Settlement. Deputy Superintendent Assistant Settlement Officer Ditto ditto 	Superintendent, Revenue Survey,an Settlement Deputy Superintendent Assistant Superintendent, 1st grade Ditto ditto			
1 2 3 4 5	Ist Grade. Mr. J. B. Lawrence	Assistant Superintendent Ditto Ditto Ditto Ditto Ditto	Assistant Superintendent Ditto Ditto Ditto Ditto			
1	2nd Grade. Mr. W. E. A. James	. Assistant Superintendent .	. Assistant Superintendent			
	3rd Grade. Mr. A.G. Hudson Mr. E. W. Laseron	Assistant Superintendent Ditto	Assistant Superintendent Ditto			

General List of Officers of the Mysore Revenue

					6	7
		3	4	5		
Genl. Seniority Number.	2 	Passed in the Vernacular.	Age.	Rank.	Grade.	Salary.
1	Major J. Rutherfurd	All have passed in the Verna- cular.	$\begin{array}{c} Y. \ M. \ D. \\ 45 \ 3 \ 0 \\ 41 \ 5 \ 12 \\ 46 \ 11 \ 6 \\ 35 \ 9 \ 16 \\ 41 \ 0 \ 25 \\ 38 \ 10 \ 13 \\ 41 \ 8 \ 3 \\ 42 \ 6 \ 15 \\ 39 \ 7 \ 24 \\ 41 \ 11 \ 25 \\ 25 \ 2 \ 2 \\ 39 \ 2 \ 3 \\ \end{array}$	Ditto Ditto Ditto Assistant Settlement Officer Assistant Superintendent	2nd grade 1st grade Ditto - Ditto - Ditto - Ditto - 3rd grade Ditto -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Nors.-In this list the officers have been arranged according to their length of service in the D partment, the officer who has been longe

Survey Department on the 1st July 1883.

_			To CIVILIA			BB6.	OFFICE	FARY (MILI	To		
ate Pay ad ances. Civil Consolidated Salary. REMARKS. 7 8 9 R a. p. R a. p. 52 14 0 95 0 0	Civil Consolidated		Aggregate and Allowanc	4y.	aff Pe	St		tary I and owance				
9			8			7		6			5	
· · · · · ·	<i>p</i> .	a	R	р.	<i>a</i> .	R						
		0	895	0	0	995			•	•		• • •
Returned from leave on the 20th April 1663.	0	0	795 795 	0	0	795 795 795		• • • •	• • •			•
On furlough to Europe, from 13th March 1891.	0	0	695				•					•
		0 0	560 560					:	·	:		· .

Survey Department on the 1st July 1883.

	8		9		10	11	12
appoi	e of first ntment to epartment.	appoir	ate of ntment to nt grade.	of co	Period service unting pension.	Present post.	Remarks.
Nov. Jan. Dec. Jan. Jan. Jan. Oct. Nov. Mar.		Jan. April Mar. Dec. June Nov. Mar. Feb. Nov. Sep. Jan. April	15, 1868 8, 1881 26, 1876 5, 1878 8, 1876 26, 1880 10, 1876 8, 1882 11, 1881 1, 1882 1, 1881 24, 1861	17 13 14	M. D. 8 29 9 2 1 9 5 15 2 2 2 0	Superintendent, Revenue Survey and Settlement. Deputy Superintendent. Assistant Superintendent. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto. Ditto.	Returned from leave on the 20th April 1983.

on the list. Their dates of Bret spipointment to the Department (column 8), and period of service counting for pension (column 10) have been arranged in consecutive order

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Disposition List of Officers of the Mysore Revenue

1	a presidente de la seconda	. Sturi	NGTH OF	Schordi	NATE] BRADES	ESTADLI S.	SHMENT	S IN A		Annual cost of Party	1
Number of Party.	Where employed.	Sub-Surreyors.	English Clerks.	Karkuns.	Learners.		Tappers.	Pressmen.	Peons.	from 1st July 1882 to 30th June 1883.	
	2	3	4	5	6		7	8	9	10	_
1		No.	No.	No.	No.	. 1	No.	No.	No.	R	
	Controlling Officers.			66		8	16	6	9	48,162	,
1	Mysore Province	3	2	. 9					4	19,953	
2	Ditto	3	4		-	8	16	6	13	68,115	5
	TOTAL	·			-						
	The second se										_
	Méasuring Establishments.	. 31		3		4		•	3		
1	Mysore District									3,03	ю
	Ditto ditto	39		2		5			3	3 19,50)2
2	Bangalore District	40		3		3		•••	1 5	2 22,12	
3	Kolar ditto	28		2		3				2 21,26	
4		. 3			2	4				2 17,4	
ŧ	5 Mysore ditto	3			2	4	•••	1		3 17,4	68
(6 Ditto ditto · · ·				4	23	<u> </u>		- ;	1,15,6	355
	• Total	. 19						-			
	Classing Establishments.		22 .		2	4				2 18,	
	1 Mysore District	•			1	5				2 18,	
	2 Ditto ditto	·	l l		1	5				2 15	,28
	3 Ditto ditto					14				6 51	,90
	Total		67		4	14 45	16		6	34 2,36	5,87
	GBAND TOTAL		269	4	93	41U				1	

Survey Department on the 1st July 1883.

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~	Officer in charge.			Number in General List.	Rank and Grade.	Date of assuming charge.	Кем ≁вке.
	11			12	13	14	15
	Lieut-Col. J. P. Grant Major J. Rutherfurd			1	Superintendent, Revenue Survey and Settlement Deputy Superintendent	Jan. 15, 1868 April 8, 1881 Oct. 6, 1882	• Attached to the Marrie Barrier
	Mr. D. Appu Rao		•	•••	-Assistant Commissioner	000. 0, 1862	* Attached to the Mysore Revenuel Survey Department.
		В	·	•••		•••	This establishment having been absorbed from 1st November 1882, cost of four months only has been shown.
	Mr. F. B. Clerk	D	•	-	Assistant Superintendent, Revenue Survey, 1st grade	Nov. 26, 1869	
	Captain A. McCally	F	•	9	Assistant Superintendent, Revenue Survey, 1st grade	May 2, 1878	
•	Major D. Cowie	G	•	8	Assistant Superintendent, Revenue Survey, 1st grade	Aug. 1, 1881	
	Mr. E. W. Laseron	н		1 2	Assistant Superintendent, Revenue Survey,		
	"A.G. Hudson	L		11	3rd grade Assistant Superintendent, Revenue Survey,		
					3rd grade	Jan. 1,1878	
	Major G. Mackenzie	с		10	Assistant Superintendent, Revenue Survey, 1st grade	Aug. 1, 1891	
	Mr. E. H. Butcher	Е	- (3	Assistant Superintendent, Revenue Survey	U .	
	" J. P. Barker •	Μ		4	lst grade Assistant Superintendent, Revenue Survey, lst grade	Jan. 26, 1867 Aug. 1, 1882	

Classified	List	of	the	Officers	of	the	Geological	1
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in each grade.		Names.					Substantive Appointment.	Duty on which	at j	present	engage	уð.
1	H. B. Medlicott, A.M., 1	7 17 G 17	G. 8.				Superintendent, Geological Survey	Office .				
,						•			•	•	•	•
1	1st Grade-Rs. William King, D.SC.			Rs. 1,	000.		Deputy Supdt., Geological Survey	Chhatisgarh				
2	R. Bruce Foote, F.G.s.	• •	•	•	•	•	Ditto ditto	Bellary .	•	•	•	- 1
3	F. R. Mallet, F.G.S.		•	•	÷	÷	Ditto ditto	Office	·	•	·	·
4	Theo. W. H. Hughes, A		F.G.S.	•			Asst., Supdt. ditto	South Rewah	·	•	•	·
	THEO, III II. HUGHES, 2					-	Zioni zapan anto	South Retrain	•	•	•	•
	2nd Grade—R	s. 500, ris	ing to	Rs. 7	00.							
1	F. Fedden, A.R.S.M., F.G	.9.	· ·		•		Assistant Supdt., Geological Survey	Gujrat .				
2	C. A. Hacket .		•	•	•	•	Ditto ditto .	Furlough .				1
3	C. L. Griesbach, F.G.S.	•	•	•	•	•	Ditto ditto .	Himalayas .				
4	R. D. Oldham, A.B.S.M.	•	•	•	•	•	Ditto ditto .	Jaunsar .	•			
5	Vacant	• •	·	·	•	٠	Ditto ditto .	• • •	•	•		
	3rd Grade—Rs.	350, risi	ng to I	Rs. 50	0.							
1	P. N. Bose, B.SC., F.G.S.			_			Assistant Supdt., Geological Survey	Raepur .				Ì
$\hat{2}$	T. H. D. LaTouche, A.B.						Ditto ditto	Assam .	•	•	•	· [
3	Vacant					÷	Ditto ditto	1.00411	•	·	·	·
4	Vacant						Ditto ditto.					
5	Vacant						Ditto ditto.					
6	Vacant		•			•	Ditto ditto.					
	6		ı. ı									
	-	itely grad	iea.									
	O. Feistmantel, M.D.	• •	•	·	·	•	Palæontologist, Geological Survey .	Furlough .	·	•	•	•
	Non-gr	aded Offi	cers.									
1	J. Schaumburg .	~					Artist	Office				
	W. R. Bion .	• •	•	•	•	•	Registrar	Office .	•	•	•	٠ſ
	Kishen Singh		•	:	•	· •	Sub-Assistant, Geological Survey	Gwalior .	•	•	·	٠ſ
~	Hira Lal	• •	•	•	•	•	Ditto ditto	South Rewah	•	·	•	•

General List of the Officers of the Geological

Number.	Names .	Passed in Vernacular.	Age.	Rank.	Grade.	Salary.
			Y. M. D.			R
1	H. B. Medlicott, A.M., F.B.8., F.G.8.	?	53 10 29	Supdt., Geological Survey	. Separately graded.	1,80
2	William King, D.Sc		49 11 16	Depy. Supdt., Geol. Survey	. 1st grade	1,100
3	R. Bruce Foote, F.G.S.	· · · ·	48 9 9	Ditto ditto	Ditto	1,100
4	F. R. Mallet, F.G.S.	. Oct. 5, 1868	42 4 19	Ditto ditto	. Ditto .	1,100
5	F. Fedden, A.B.S.M., F.G.S	. Oct. 26, 1869	44 3 10	Asst. Supdt. ditto	. 2nd grade	700
6	C. A. Hacket	. Oct. 5, 1868	49 11 20	Ditto ditto	. Ditto .	700
7	T. W. H. Hughes, A.B.S.M., FG.S.	. Aug. 3, 1868	39 10 30	Ditto ditto	1st grade	1,000
8	O. Feistmantel, M.D.	. Oct. 4, 1875	34 7 10	Palæontologist, ditto	. Separately graded.	
9	C. L. Griesbach, F.G.S.	. Sept. 15, 1880	35 6 21	Aest. Supdt., ditto	. 2nd grade	500
10	R. D. Oldham, A.R.S.M.	. Aug. 1, 1881		Ditto ditto	. Dilto .	500
$\frac{10}{11}$	P. N. Bose, B.SC., F.G.S.	. Not required	28 1 20	Ditto ditto	3rd grade	410
л ₁	1. 1. DUSC, D.St., F.G.S.	to pass.	1			1
12	T. H. D. LaTouche, A.B.	. June 5, 1882	27 8 2	Ditto ditto	. Ditto .	410
12	Vacant		1.	Ditto ditto.	1	1
13	Vacant .	1	1	Ditto ditto.	- j	1
14	Vacant .			Ditto ditto.	1	۱
16 16	Vacant .		1	Ditto ditto.		,
16	Vacant		1	Ditto ditto.		1
-• i			1			1
I	Non-graded Officers.		1.		<u>,</u> ,	400
3	J. Schaumburg	. Not required	43 11 30	Artist, Geological Survey	. No grade	400
- 1	(to pass.				320
2	W. R. Bion	. Do	31 0 15	Registrar ditto	. Ditto	320
3	Kishen Singh	. Do	33 4 6	Sub-Assistant ditto	. Ditto ·	190
3	Hira Lal	. Do.	31 11 2	Ditto ditto	. Ditto .	190

Survey of India on the 1st July 1883.

			SAL.	ABY IN	CLI	JDIN	G▲	LLOW	ANCES.				
	Pa	y.		Trave ance	e a:	ng, (nd] owar	Lou ices.	3e	Total Pa Allowan				REMABRS.
	R	a.	P .					р.	R				,
	1,800	0	0			3 00	0	0	2,100	0	0		
	1,100 1,100 1,100 1,000	0 0	0 0	150	እ	60 60	Ō	0	1,160 1,160 1,310 1,030	0	0	: 	Acting Curator.
	700 700 500 500	0	Ó			30 30 30 30	Ō	0 0 0 0	730 730 530 530	0			
	410 410						0 0		440 440				Officialing in 2nd grade, Ditto Ditto,
	700	0	0			30	0	0	730	0	0	ļ	
٩	400 320 190 190	0 0 0 0	0 0	•	• • •		•		400 320 190 190	0	0 0 0 0		

Survey of India on the 1st July 1883.

Date of first appointment to the Department.	Date of appointmentto present grade or rank.	Period of service counting for Pension.	Present Post.	REMARKS.
Mar. 24, 1854 Mar. 4, 1857 Sept. 28, 1859 Oct. 1, 1860 Nov. 15, 1861 Nov. 11, 1862 Mar. 25, 1875 Nov. 11, 1878 Dec. 17, 1879 July 30, 1880 Nov. 29, 1881	Apl. 21, 1875 June 14, 1881 Apl. 11, 1883 Mar. 24, 1878 June 14, 1881 Apl. 11, 1883 Mar. 10, 1877 Jan. 25, 1883 Apl. 11, 1883 June 14, 1881 June 10, 1877	Y. M. D. 29 3 8 26 0 27 23 9 13 24 1 19 22 0 16 21 7 16 18 7 13 8 0 3 4 7 20 3 6 15 2 11 2 1 7 2	Office. Cbhatisgarh. Bellary. Office. Guirat. On furlough. South Rewah. On furlough. Himalayas. Jannear. Roipur. Assam.	
Apl. 12, 1869 Dec. 12, 1870 Jan. 7, 1874 Jan. 7, 1874	July 7, 1874 Dec. 31, 1878 Apl. 1, 1879 Apl. J, 1879	14 2 19 11 0 14 9 5 25 9 5 25	Office. Office. Gwalior. South Rewah.	

Disposition List of the Officers of the Geological

Survey of India on the 1st July 1883.

		rel Liet		Date of first			ENGT. ENTS	H OF	GRAI	DES.				
NAMES OF OFFICERS.	Where employed.	No. in General	Rank and Grade.	Jate of hrst joining the Department.	Separately graded.	lst grade.	2nd grade.	Brd grade.	Officers.	Dishme Dishme Lishme Lishme Lishme Lishme Lishme Lishme Lishme Lishme Lishme Lishme	and turner and Servants.	1	and cherr Subordinates, it any).	Rem.
H. B. Medlicott, A.M., F.B.S., F.G.B.	Office	1	Supdt., Geological Survey.	Mar. 24, 1854	2	4	4	2	4	12	22		R a. p. R a. p. 1880-81. Nahun and Office. 1881-82. Office . . Salary and fixed allowance 24,000 0	
1st Grade.													(1882-83. Office.	
William King, D.SC.	Chhatisgar	2	Depy. Supdt., Geo- logical Survey.	Mar. 4, 1857				.	. .			ľ	1880-81. Malabar Coast and furlough . 1881-82. Furlough. 1882-83. Ditto.	
R. Bruce Foote, F.G.s.	Bellary	3	Ditto	Sept. 28, 1858	e officers			.	. .				1880-81. Furlough, Madura&TinnevellySalary and fixed allowance15,50415111881-82. Tinnevelly.Travelling allowance1,255501882-83. Madura.Hospital Assistant's pay, &c.33800	
F. R. Mallet, F.G.s.	Office	4	Ditto	Feb. 12, 1859	first grad			-	. .				1880-81. Furlough, Office and Sikkim. 17,098 4 11 1881-82. Office . . . 1882-83. Ditto and Jabalpur. . . .	
W. H. Hughes, A.B.S.M., F.G.S.	South Rewa	7	Asst. Supdt., Geo- logical Survey.	Nov. 11, 1862	–	u .			•				1880-81. South Rewah Salary and fixed allowance 7,324 2 8 1881-82. Ditto and furlough. Travelling allowance 945 0 1882-83. Ditto and South Rewah. Hospital Assistant's pay, &c. 175 1 3	
2nd Grade. . Fedden, A.B.S.M., F.G.S	Gujrat	Б	Asst. Supdt., Geo- logical Survey.	Oct. 1, 1860					.				(1880-81. Office and Kattywar . Salary and fixed allowance 11,140 0 8,444 3 11 (1881-82. Kattywar . Salary and fixed allowance 11,140 0 0 11,140 0 0 (1891-82. Kattywar . Travelling allowance 766 15 0	
A. Hacket	On furlough	6	Ditto	Nov. 15, 1861	grade officers.	•		,.	.				(1880-81. Rajputana .	
. L. Griesbach, F.G.S	Himalayas	9	Ditto	Nov. 11, 1878	second gr				. .				(1880-81. Kandabar and Himalayas Salary and fixed allowance 6.566 6 8 (1881-82. Himalayas & Duty in Europe. Iter the second	
. D. Oldham, A.B.S.M.	Jaunsar	10		Dec. 17, 1879	4			•••	.	. .	•		{1880-81. Jaunsar, Sirmur, and Manipur. Salary and fixed allowance 6,690 0 {1881-82. Manipur. Travelling allowance 1,139 12 9 {1882-83. Jaunsar. 7,829 12 9	
scant			Ditto									7		
3rd Grade. . N. Bose, B.SC.,F.G.S	Raepur	11	Asst. Supdt., Geo- logical Survey.	July 30, 1880			~		.	•			(1880-81. Nimar	
. H. D. LaTouche, ▲.B.	Assam	12	Ditto	Nov. 29, 1881	2 third				.	. .			{ 1881-82. Garo Hill .	
scant			Ditlo										6.763 15 8	
acant			Ditto											
acant			Ditto											
acant			Ditto											
Separately graded. Feistmantel, m.d.	Furlough	8	Palæontologist, Geol. Survey.	Mar. 25, 1875		.							1880-81. Office and Hazaribagh, Lohar- dugga, and Manbhum. 1881-82. Office. 10,430 0 0	
Non-graded Officers.			acoi, survey.										(1882-83. Ditto South Rewah & furlough. (1880-81. Office Safary 4,800	
Schaumburg (Office	1	Artist	April 12, 1869	1. (.	.						[1881-82. Ditto. [1882-83. Ditto.	
. R. Bion	Ditto	2	Registrar	Dec. 12, 1670	ded officers.	•• .	.						{ 1880-81, Office	
isben Singh	Gwalior	3 8	Sub-Asst., Geological Survey.	Jan. 7, 1874	non-gra	.		•		-			[1880-81, Gwalior .	
ira Lui	South Rewah	4	Ditto	Jan. 7, 1874	-7	-	- -	.					[1880.81. Office and South Rewah Salary 2,120 0 0 [1881-82. South Rewah. Travelling allowance 567 11 10 [1882-83. Ditto. — 2,687 11 10	

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Statements of the Services of Officers in the Survey of India.

Corrected up to 1st July 1883.

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LIEUTENANT-GENERAL J. T. WALKER, C.D., F.R.S., L.L.D., §c., §c., Royal (late Bombay) Engineers, Surveyor General of India.

JOINED the Honourable East India Company's Military Academy at Addiscombe, February 1843; obtained commission as 2nd Lieutenant, 9th December 1844; served at Chatham during 1845; landed in India, 10th May 1846; employed four months at Bombay as Assistant Chief Engineer; leave of absence to Madras for six months from 16th September 1846; Executive Engineer; Upper Sind, May 1847 to October 1848; war services, 1849 to 1853; Lieutenant, 2nd July 1853; appointed 2nd Assistant, Great Trigonometrical Survey of India, 1st December 1853; 1st Assistant, Great Trigonometrical Survey of India, 24th March 1854; Captain, 4th December 1857; conducting trigonometrical operations in the Punjab and Upper Sind, 1854 to 1861; Brevet Major, 19th January 1858; appointed Superintendent, Great Trigonometrical Survey of India, 12th March 1861; leave of absence to Europe on furlough from 10th November 1863 to 29th January 1865; Lieutenant-Colonel, 27th February 1864; Officiating Surveyor General of India, in addition to his duties as Superintendent, Great Trigonometrical Survey of from 9th May 1874 to 4th August 1874; Brevet Colonel, 27th February 1869; furlough to Europe from 10th December 1870 to 31st October 1872, including six months on duty; Regimental Colonel, 11th December 1873; furlough to Europe from 17th April 1876 to 4th January 1877; Companion of the Bath, 2nd June 1877; appointed Surveyor General with direct superintendence over the Great Trigonometrical and the Topographical Surveyo, 1st January 1878; Major-General, 1st January 1879; Lieutenant-General, 10th May 1881; on furlough to Europe for 6 months from 12th February 1883; extension for six months.

WAR SERVICES.

Served throughout the Punjab Campaign of 1848-49 as Field Engineer, and was present at the siege and surrender of Mooltan, the battle of Goojerat, and the subsequent pursuit of the Sikhs and Afghans (medal with two clasps); for five years (1849-1853) was employed in making a military survey of the Northern Trans-Indus Frontier, from Peshawur down to Dera Ismail Khan, during which he served as Field Engineer in many of the encounters with the hill tribes on the frontier; at the attacks of Suggov, Pulli and Yormundi under Colonel Bradshaw; in the affair of the Kohat Pass under Sir Charles Napier; in the actions at Prangzai, Nowadund, Shakkote and Raneezai under Sir Colin Campbell; the attack of Roree under Colonel Boileau; and subsequently, in 1860, in the expedition against the Mahsood Wuzeerees, under Sir Neville Chamberlain (medal with clasp); in 1857, during the mutiny of the Bengal Army, he was at first attached to the staff of Brigadier-General Neville Chamberlain, when that officer was commanding the Punjab moveable column, and subsequently accompanied him to Delhi, where he was also employed during the siege as Field Engineer, and was severely wounded (Brevet of Major, medal with clasp).

BREVET-COLONEL GEORGE CHARLES DEPRÉE, Officiating[®]Surveyor General, and in charge Topographical Surveys.

JOINED the late Honourable East India Company's Seminary at Addiscombe in February 1848; appointed 2nd Lieutenant of the Bengal Artillery on 9th December 1850; arrived in India, 18th June 1851, and joined the Artillery at Dum-Dum; leave on private affairs from 28th June to 15th November 1851; proceeded in December 1851 with the 6th Company, 9th Battalion, Artillery, on service to Arakan with the Pegu Field Force; surveyed on a large scale the station of Kyouk-Phyoo for the use of the Officer Commanding; ordered to examine and report upon the Tonghoop Pass between Arakan and Burma, as to its practicability for the passage of 150 elephants required by the force in Pegu, for which duty received letter of thanks by order of His Excellency the Governor General, Lord Dalhousie; appointed Assistant Executive Officer, Chittsgong and Arakan Road, 30th November 1853; sick leave in India from 17th June to 5th December 1854; appointed Assistant Surveyor, Ganjam Topographical Survey, 20th October 1854; employed on the survey of the Cuttack Tributary Mehals, 12th March 1856; 1st Lieutenant on the 21st January 1856; appointed to the charge of the Ganjam Topographical Survey in March 1856; organised No. 2 Ganjam Topographical Party in 1857; transferred from No. 1 to No. 2 Ganjam Topographical Party in 1858; owing to the mutiny in 1858 employed in running a series of triangles to define the coast line of the Bay of Bengal; 2nd Captain, 27th August 1858; leave on medical certificate to Europe, 10th January 1859 to 2nd April 1860; completed the survey of Cuttack, and commenced that of the Chota Nagpur Division, the designation of No. 2 Ganjam being changed to No. 4 Topographical Party, Chota Nagpur Division Survey; appointed *ex-officio* Assistant Commissioner, Chota Nagpur Division; during a long period decided many boundary disputes botween the estates of the Rajabs of the Tributary Mehals; joined the Staff Corps, 19th February 1861; appointed Deputy Superintendent, 1st grade, Topographical Survey, on 20th October 1860; Majo No. 4 Topographical Party being disbanded, appointed to the charge of No. 7 Topographical Party, Rajputana and Simla Survey; employed on the survey of the cantonments of Subathu and Kasauli on large scale, and on the survey of hill roads about Simla, 1878, as well as of the country of Bickaneer; Lieutenant-Colonel, 9th December 1876; Brevet-Colonel, 1st July 1881; furlough to Europe for one year, from 9th December 1881. Extension for 1 month. Returned to India 28th December 1882 and appointed Deputy Surveyor General in charge Topographical Surveys from 1st January 1883; Officiating Surveyor General from 12th February 1883 up to the present time.

WAR SERVICES.

Served with the Pegu Field Force in 1852-53-medal.

LIEUTENANT-COLONEL JAMES SCONCE, Bengal Stoff Corps, Deputy Surveyor General in charge Revenue Surveys.

JOINED the Honourable East India Company's Military Academy at Addiscombe, February 1852; date of first commission as 2nd Lieutenant, Bengal Artillery, 9th December 1853; landed in India, 2nd April 1854; promoted to 1st Lientenant, 23rd September 1857; appointed to Bengal Horse Artillery, 11th February 1858; appointed Adjutant, 4th Battalion, Bengal Artillery, 15th July 1859; appointed Assistant Revenue Surveyor in the Bundelcund Revenue Survey, 21st October 1859; transferred to the Royal Artillery, May 1861; appointed to the charge of 1st Division, Central Provinces Revenue Survey at Jubbulpore, 27th June 1862; promoted to Revenue Surveyor (now Deputy Superintendent of Survey), 3rd grade, 24th January 1863; promoted to 2nd Captain Royal Artillery, 3rd April 1863; transferred to the charge of 3rd Division, Central Provinces Revenue Survey at Saugor, 13th November 1863; proceeded on furlough to Europe on sick certificate, 25th July 1864; returned from furlough and appointed to do duty in the Office of Superintendent, Revenue Surveys, Calcutta, 16th March 1866; appointed to the charge of 6th Division, Lower Provinces Revenue Survey at Hazaribagh, 3rd November 1866; promoted to Deputy Superintendent of Survey, 2nd grade, 6th November 1868; transferred as Captain to Bengal Staff Corps, 8th March 1869; proceeded on furlough to Europe, 28th March 1872; returned from furlough and appointed to do duty in the Office of Superintendent of Revenue Surveys Revenue Survey at Midnapur, 6th December 1873; promoted to Brevet Major, 9th December 1873; transferred to the charge of the 8th Division, Revenue Survey (Western Soane Irrigation) at Arrah, 16th March 1876; promoted to Major, Bengal Staff Corps, 11th October 1876; appointed Deputy Surveyor General, 1st January 1879; promoted to Lieutenant-Colonel, Bengal Staff Corps, 9th December 1879.

WAR SERVICES.

Served with the 1st Battalion, Bengal Artillery, and No. 17, Light Field Battery, at the siege and capture of Delhi in September 1857; in action with the rebels at Bulundshuhur in October 1857; in action with the rebels at Agra, 10th October 1857; served during the operations leading to the relief of Lucknow by the Army under Sir Colin Campbell in October and November 1857; in action with the rebels at Cawnpore on 5th November 1857; in action with the rebels at Shunshabad, near Futtegarh, in January 1858; at Alumbagh during the capture of Lucknow in March 1858; has received a mutiny medal with clasps for "Delhi," "Relief of Lucknow," "Capture of Lucknow."

JOHN BABONEAU NICKTERLIEN HENNESSEY, M.A. (Cantab), F.U.S., &c., Officiating Deputy Surveyor General, in charge Trigonometrical Surveys.

Junior Branch.

APRIL 14th, 1844, appointed 3rd class Sub-Assistant and posted to Karara Series, with which did duty, chiefly in Oudh, till 1845-46, when transferred to Chendwar Series and shared in operations through Tirhoot, Chumparun, &c., to confines of Gorakhpur, continuing with latter party, in 1846-47; employed in Gorakhpur Terai, where suffered severely from jungle fever; April 14th, 1847, promoted to 2nd class; 1847-48, present at Sonakhoda Base Line, and held charge of a microscope; 1848-49, conducted Approximate Series, Secondary Triangulation and ray clearing on North-East Longitudinal Series through Gorakhpur and Oudh Terais, where again suffered severely from jungle fever, and was in consequence unable to take the field in ensuing season; April 15th, 1850, promoted to 1st class; in 1850-51 proceeded with 2nd Hill Series Party into the Punjab, and carried Secondary Series from Dala along Ravi River to Lahore, and thence across Bari Doab to Beas River, by means of which and other series he fixed the positions of Lahore, Amritsar, Tarn Taran, Wazimbad, Guzent, &c.; 1851-53, attached to Superintendent's Field Office, and employed under the Astronomical Assistant at head-quarters and elsewhere in bringing up varions computations, acting as recorder of the latitude observations, conducting meteorological observations, &c., until October 1853, when, on Captain Renny Tailyour's retirement, was placed in charge of the Branch Computing Office with the Surveyor General; 1853-54, present at Chach Base Line, where acted as Assistant to the Surveyor General during the preliminary arrangements, and subsequently held charge of a microscope and conducted the meteorological observations.

Senior Branch.

April 25th, 1854, promoted to Senior Branch and appointed 2nd Assistant; November 29th, 1855, promoted to Rs. 400; September 4th, 1858, to 1st Assistant; continued in charge of the Branch Computing Office, and was employed in reducing the measurements of Chach and Karachi Base Lines, preparing in manuscript triplicate the general report of the North-East Longitudinal

Series, assisting in various professional investigations, examining candidates for the Department, &c.; September 1st, 1862, placed in charge of the Extra Party Base Line operations, and proceeded with the apparatus, under the orders of the Superintendent, to Vizagapatam, where he assisted in the measurement of the Base Line; March 25th, 1863, to April 10th, 1865, absent on sick leave to Europe; during these two years he entered Jesus College, Cambridge University, as a Fellow Commoner, and worked through a course of mathematical studies under William Walton, Esq., Commoner, and worked through a course of mathematical studies under William Walton, Esq., M.A., and Reverend Percival Frost, M.A., Moderators and Examiners, and Reverend J. Challis, M.A., and J. C. Adams, Esq., M.A., respectively, Plumian and Lucasian Professors, whose certificates were received with much satisfaction by the Secretary of State for India, and elicited the appro-bation of the Government of India; he also proceeded to the Ordnance Survey Office, Southamp-ton, and there studied the process of photozincography under direction from the Secretary of State, with whose sanction he subsequently selected the necessary apparatus and materials for introducing the process into the Great Trigonometrical Survey; also, with the support of the Secretary of State, visited certain field divisions of the Ordnance Survey in England, Scotland and Ireland, in order to acquire a knowledge of their operations; he returned to India with the pendulum apparatus under his care; meanwhile, on 9th December 1863. he was specially promoted to Rs. 868: May 4th. 1865. his care; meanwhile, on 9th December 1863, he was specially promoted to Rs. 868; May 4th, 1865, appointed to charge of amalgamated Computing Office, now designated Head-quarters Offices, and consisting of a Calculating Branch, with small auxiliary branches for Drawing, Printing and Photozincographing, Instrument Depôt, &c., &c., and has continued to act in this capacity with excep-tions hereafter noted; 1865-66, on arrival of the photozincographing apparatus from England, established the process in the Dehra Dun Office, and subsequently instructed (besides others) Captains Melville and Waterhouse, in order to promote its introduction into the Surveyor General's Office, Calcutta; April 1st, 1866, on re-organization of the Department, was graded as Surveyor, 1st grade, on Rs. 1,100; 1866 and subsequently, besides ordinary duties, took a principal share in all the comparisons of standards; also determined the expansion of the Great Trigonometrical Survey, 10-feet Standard Bar; December 1868 to April 1869, directed and shared in the measure-ment of the Bangalore Base Line; September 1st, 1869, designation changed to Deputy Superin-tendent, 1st grade; December 1871, on duty under Colonel J. F. Tennant, C.I.E., R.E., F.R.S., to assist in observation of the solar eclipse at Dodabetta, Neilgherries, where he held general charge of the photographic operations; April 1st, 1874, on consolidation of salaries, placed on Rs. 1,300; December 9th, 1874, observed the transit of Venus across the sun's disc; January 4th, 1875, to October 25th, 1876, on furlough to Europe; November 1st, 1876, to January 13th, 1877, officiated as Superintendent, Great Trigonometrial Survey, during Colonel Walker's absence; April 1st, 1877, attained maximum of grade (Rs. 1,600); Officiating Deputy Surveyor General in charge Trigonometrical Surveys, from 12th February 1883 up to the present time.

BREVET-COLONEL FREDERICK CORTLANDT ANDERSON, Bengal Staff Corps, Deputy Superintendent, 1st Grade.

JOINED the service as Ensign on the 13th December 1845; promoted to Lieutenant, 18th March 1850; Brevet Captain, 13th December 1860; Captain on 18th February 1861; date of appointment to Staff Corps, 18th February 1861; Major on 13th December 1865; Lieutenant-Colonel on 13th December 1871; Brevet-Colonel on 13th December 1876. Posted to do duty with, and joined, the 16th Grenadiers, forming part of the Army of the Sutlej; afterwards attached to 69th Native Infantry, till permanently appointed to 71st Native Infantry, 8th August 1846; appointed Interpreter and Quarter Master, 34th Native Infantry, 17th July 1849, and did the duties until an officer of the 34th passed the Interpreter's examination in 1851; made a survey of the Fort of Michnee and its environs for three miles round, by desire of Sir Henry Lawrence and Captain (Lord) Napier; appointed to the charge of Sapper and Miner Company, and the building of the Fort of Abuzai in 1852; appointed Revenue Surveyor on 10th September 1852, and posted to Bari Doab Survey; transferred as Assistant to Sind-Saugor Doab Survey in Februar**9** 1856; took officiating clarge of this party on 5th December 1856; took charge of Bari Doab Survey Party in November 1857; resumed charge of Sind-Saugor Doab Survey Partyon Major Shortredo's promotion, 28th January 1858; appointed one of the two British Commissioners for the settlement of boundary between Oudh and territory ceded to Nepal in January 1860, in addition to his own duties; received thanks of Government and Rs. 300 a month deputation allowance for this work; granted six monthe' leave, from 29th April to 15th October 1848; recalled in consequence of declaration of 2nd Sikh War, and rejoined 71st Native Infantry on 24th May 1848. Service retained in the Survey Department, conditionally, for one year, from 1st November 1852.

WAR SERVICES.

Served with 16th Grenadiers till commencement of 1st Sutlej Campaign; served with 71st Native Infantry, holding right bank of Beas; marched in charge of siege train for Lord Gough's Army; took part in various skirmishes against Bede Bekram and Ram Singh for protection of North Jullundur Doab in 1848-49; took part in skirmishes with hill tribes in the neighbourhood of Michnee under Sir Colin Campbell, and in the Eusufzai Valley under Major Lumsden in 1851-52; served during Indian Mutiny of 1857-58-medal.

MAJOR H. R. THUILLIER, Royal Engineers (Bengal), Deputy Superintendent, 1st Grade.

SERVICE at Addiscombe from 1st August 1855 to 11th June 1857; date of first commission as 2nd Lieutenant, 12th June 1857; promoted to 1st Lieutenant, 27th August 1858; date of arrival in India, 29th April 1859, but service in India commenced from 16th October 1857; appointed to the Survey Department as 2nd Assistant in the Great Trigonometrical Survey, 21st May 1859; promoted to 1st Assistant, 1st February 1861; designation changed to Surveyor, 3rd grade, 1st April 1866; promoted to 2nd grade, 1st October 1867; designation changed to Deputy Superintendent, 2nd grade, 1st September 1669; promoted to Captain, 10th November 1869; furlough to Europe on private affairs, 14th March 1871; promoted to Deputy Superintendent, 1st grade, 18th July 1871; returned to India from furlough, 9th March 1873; graded as Deputy Superintendent, 2nd grade, under the re-organization of 1874, 1st April 1874; Acting Deputy Superintendent, 1st grade, from 1st April 1874 to 3rd April 1876; officiated as Superintendent, Great Trigonometrical Survey, from 4th April 1876 to 31st October 1876; promoted to Major, 7th October 1876; Acting Deputy Superintendent, 1st grade, from 1st November 1876 to 1st January 1878; promoted to Deputy Superintendent, 1st grade, under the re-organization of 1878, 27th October 1876, furlough to Europe for two years from 17th November 1879.

COLONEL CHARLES THOMAS HAIG, Royal Engineers (Bombay), Officiating Deputy Superintendent, 1st Grade.

OBTAINED his first commission from the Honourable East India Company's Military College at Addiscombe on 8th June 1854; Lieutenant, 24th May 1856; arrived at Bombay, 5th July 1856; commanded a Company of the Bombay Sappers and Miners with the Persian Expeditionary Force, 1856-57; returned to India, October 1857; started same month in independent command of a Company of the Bombay Sappers and Miners to join the Rajputana Field Force, with which he was afterwards appointed Staff Officer of Engineers; in May 1858 was appointed Assistant Executive Engineer at Neemuch; 22nd September 1859, appointed 2nd Assistant in the Great Trigonometrical Survey of India, in which Department he has remained up to date; joined at Rajkot, 15th October 1859, but proceeded at once to join the Okhamandal Field Force; after the taking of Dwarka, employed in the Survey in Cutch and Kattywar till May 1860; then proceeded to Murree in the Punjab; returned to Kattywar in October 1860; promoted to 18t Assistant, Great Trigonometrical Survey, 1st February 1861; variously employed in the Survey Department in Kattywar, Guzerat, Meywar, Malwa, the Deccan, and Kanara, until the present time, with the exception of three breaks by furlough to Europe, viz., from 14th April 1865 to 13th October 1865; from 30th September 1869 to 22nd September 1871, and from 31st March 1877 to 3rd October 1865; from 30th September 1869 to deputation as Commissioner, Venice Geographical Exhibition; promoted to Colonel, 1st July 1881; resumed charge of the Guzerat Party on 27th October 1881; Officiating Deputy Superintendent, 1st grade, from 27th November 1881 to 31st December 1882, and again from 12th February 1883 to the present time.

WAR SERVICES.

Served with Persian Expeditionary Force, 1856-57; present at the battle of Khushab, and at the taking of Mohamera-medal and clasp; served with the Rajputana Field Force, 1857-58; present at the siege and assault of Kota-medal and clasp; served with the Okhamandal Field Force, 1859; present at the siege of Dwarka.

BREVET LIEUTENANT-COLONEL J. HERSCHEL, Royal Engineers (Bengal), F.R.S., &c., Deputy Superintendent, 2nd Grade.

JOINED at Addiscombe, February 1855; public examination, 12th December 1856; first commission, Ensign, Royal Engineers, 12th December 1856; Lieutenant, 27th August 1858; landed at Calcutta, 2nd January 1859; Second Assistant, Great Trigonometrical Survey, 3rd November 1859; First Assistant, 1st February 1861; sick leave to England, 20 months, 23rd April 1866; Surveyor, 3rd grade, 1st April 1866; Surveyor, 2nd grade, 1st October 1867; returned to duty, 8th December 1867; Second Capitain, 10th November 1869; Officiating Surveyor, 1st grade, 1st April 1871; reverted to substantive appointment, 31st October 1872; furlough to England, two years, 22nd August 1873; designation changed to Deputy Superintendent, 2nd grade, 1st April 1874; returned to India, 18th August 1875; Major, 10th March 1876; on special duty in England from 17th November 1879; Brevet Licutenant Colonel, 10th March 1883.

LIEUTENANT-COLONEL BRYDGES ROBINSON BRANFILL, Bengal Cavalry, Deputy Superintendent, 2nd Grade.

MARCH 14th, 1854, sailed from England as Cadet of Cavalry; June 24th, 1854, landed at Calcutta; August and September, with 1st Regiment, Light Cavalry; October 1854, joined 5th Bengal Light Cavalry; 1855, passed in the Vernacular, and in Hindustani 1856; 1855-56, on outpost duty with detachment at Fort Abbazai, present at one or two skirmishes with the Mohmands near Shabkadar; Acting Quarter Master of the Regiment; May 5th, 1856, promoted to Lieutenant; June 26th, 1856, appointed Adjutant of the Regiment; May 5th, 1856, promoted to Lieutenant; June 26th, 1856, appointed Adjutant of the Regiment; April 28th, 1858, doing duty with 7th K. Dragoon Guarda; June 2nd, 1858, medical certificate to Murree; October 4th, 1858, appointed (on probation) to Great Trigonometrical Survey; 1858-59 and 1859-60, leveling in Sind under Major Walker, n.t.; April 7th, 1860, promoted to Captain; April 1860, Assistant Surveyor under Major Walker, with expeditionary force under General N. B. Chamberlain against the Mahsad Waziris, present at the forcing of the Barara Tangi; 1860-61 and 1861-62, in charge of the leveling operations from Sind to Dehra Dun, Attok and Agra, elected to remain "a local" in Her Majesty's Indian Army; May 1st, 1862, transferred to the Coast Series, employed in selecting Vizagapatam Base Line till 14th July; 1862-63, took part in base line measurement, and executed the line of levels for connection with tide gauge, also the connecting triangulation with 24-inch theodolite; 1864-65, completed Series to Madras by 10th June; 1865-66, carried Madras Longitudinal Series to Bangalore; 1866-67, 20 months' leave, medical certificate (eye-sight injured by exposure and overwork); went to England and back, 28th May 1866 to 24th January 1868; 1867-68, resumed charge of the Madras Party, and selected Cape Comorin Base Line; 1868-69, completed principal triangulation in vicinity; 1869-70, Great Arc Series, Salem and Coimbatore; January 11th, 1870, promoted to Brevet Major; 1870-71, Great Arc Series Section over Palaney Mountains, also obtained, by self-registering tide gauge, 13 months' tidal observations at Tuticorin; October 1st, 1871, Deputy Superintendent, 2nd grade; 1871-72, carried Madras and Mangalore Longitudinal Series from Mysore to Mangalore; 1872-73, completed the Mangalore Meridional Series; 1873-74, resumed and completed the Great Arc Series Section; 1874-75, completed Rámnád and Rámeswaram Longitudinal Series; 1875-76, completed Ceylon connection, and commenced Madras Coast Series north of Rámnád; 19th December 1876, promoted to Brevet Lieutenant-Colonel; 1876-77, furlough (1 year and 17 days) to England, May 14th, 1876, to May 31st, 1877; June 1st, 1877, resumed charge of Madras Party; 1877-78, carried the Madras Coast Series across Cauvery Delta, Tanjore; 1878-79, carried the triangulation northwards through South Arcot District; 1879-80, completed the triangulation in Southern India,—at Madras and Cochin; 1st October 1880, in charge Bombay Party; 1880-81, completed the Eastern Sind Series; 1881-82, principal triangulation near Mergui, British Burma, and superintended measurement of the Mergui Base Line; furlough for one year from 10th November 1882; Lieutenant-Colonel, 1st January 1883.

MAJOR GEORGE STRAHAN, Royal Engineers (Bengal), Deputy Superintendent, 2nd Grade, and Officiating Assistant Surveyor General.

JOINED the Corps of Royal Engineers at Chatham, February 1st, 1859; remained under instruction at the establishment there till June 1860; proceeded to India, October 4th, 1860; arrived in the country, November 20th, 1860; remained in regimental employ with the Sappers and Miners at Roorkee from 6th December 1860 till March 1868; employed in the Irrigation Department, Public Works Department, till July 2nd, 1862; appointed on 2nd July 1862 to Survey Department; served as Assistant in the Gwalior and Central India Survey for two years; received charge of

 Fide G. G. O. No. 605, dated 26th September 1863,—vide General Report, 1860 to 1865, page 36, para. 160. No. 7 Party, Rajputana Survey, 1st September 1864;* took sick leave to England for 20 months, from 10th November 1867 to 6th July 1869; promoted to rank of Captain, January

1869; prom 10th November 1867 to 6th July 1869; promoted to rank of Captain, January 14th, 1871; appointed Deputy Superintendent, 3rd grade, November 10th, 1867; appointed Deputy Superintendent, 2nd grade, October 26th, 1870; transferred to charge of No. 8 Party, Mysore Survey, 1st October 1875; furlough to Europe on private affairs, May 1st, 1877; returned to India, April 15th, 1879; received charge of No. 2 Party, Khandesh Survey, June 4th, 1879; received charge of Mysore Topographical Party from 1st November 1879; promoted to rank of Major, 27th May 1881; received charge of No. 2 Astronomical Party from 4th November 1881; Officiating Assistant Surveyor General in charge, Engraving and Cartographic branches, Head-Quarters, Calcutta, from 27th April 1883 up to the present time.

WAR SERVICES.

Nil.

MAJOR THOMAS TUPPER CARTER, Royal Engineers (Bengal), Deputy Superintendent, 2nd Grade.

JOINED the service, 11th December 1857; arrived in India, 12th December 1859; did duty with the Bengal Sappers and Miners; appointed Acting Quarter Master to the same from 9th March 1860, and continued as such till 5th February 1860; ordered 6th February 1860 to join the Sikkim Field Force; appointed Probationary Assistant Engineer, Department of Public Works, 21st May 1861; posted to Peshawur Division, Department Public Works, 22nd June 1861; promoted to 2nd class Assistant Engineer, 16th November 1861; officiated as Executive Engineer, Hazara Division, from 18th December 1861 to 30th April 1862; appointed 2nd Assistant in Great Trigonometrical Survey of India, 1st March 1862; joined the Kashmir Party, 1st May 1862; promoted to 1st Assistant, junior grade, 21st April 1864; nominated to charge of Kashmir Party and Kumaon and Garhwal Party, 3rd February 1865, and remained in charge till 1st May 1867; promoted to Surveyor, 3rd grade, 1st April 1866; appointed to 8th March 1869, when, on completion of the work connected with this survey, returned to India; rejoined the Kumaon and Garhwal Party; October 1869, took charge of detached party, and proceeded to the North-Western Frontier to fix positions of peaks in country north of Peshawur; designation changed to Deputy Superintendent, 3rd grade, 20th August 1869; local Captain, 11th December 1870; furlough to Europe, 18th December 1870 to 16th December 1871; appointed to charge of leveling party, 4th December 1871; promoted to Deputy Superintendent, 2nd grade, 1st October 1871; appointed to charge of the Brahmaputra Party, 13th May 1872; reverted to Deputy Superintendent, 3rd grade, on the introduction of consolidated salaries, 1st April 1874; furlough to Europe, 4th January 1875 to 16th November 1876; appointed to charge of the Madras Party, 20th November 1877; promoted to Deputy Superintendent, 2nd grade, 1879; assumed charge of No. 2 Topographical Party, 3rd December 1881.

WAR SERVICES.

Served in the capacity of Survey Officer with the Sikkim Field Force under Lieutenant-Coloi 1 Gawler in 1861; meutioned in despatches,—vide G. O. G. G., Military Department, No. 440, dat 14th May 1861; served throughout the Umbeyla Campaign under Brigadier-General Sir Neville Chamberlain, K.c.n., and Major-General Garvock, c. n., in 1863 against the Boneyr and other tribes on the North-West Frontier; mentioned in despatches,—*vide* G. O. G. G., Military Department, No. 76, of 29th January 1864—medal and clasp; served in the Abyssinian Expedition under Lieutenant-General Sir Robert Napier, G.C.B., G.C.S.I.; mentioned in despatches,—*vide London* Gazette of 30th June 1868—medal.

LIEUTENANT-COLONEL DONALD MACDONALD, Bengal Staff Corps, Deputy Superintendent, 2nd Grade.

JOINED the service, 20th October 1853; arrived in the country, 1st December 1853; appointed to the 25th Regiment, Bengal Native Infantry; Lieutenant, 18th January 1856; Officiating Quarter Master, May 1857 to April 1858; Adjutant, April 1858; sick leave to Europe, 20th May 1859 to 12th August 1860; appointed to the Survey Department, Revenue Branch, 19th December 1860; Captain, 1st January 1862; joined Staff Corps, 13th August 1864; Revenue Surveyor, 1st January 1865; Deputy Superintendent, 3rd grade, 1st April 1866; furlough, private affairs, to Europe, 18th January 1872 to 14th January 1874; Major, 20th October 1873; Deputy Superintendent, 2nd grade, 1st January 1878; promoted to Lieutenant-Colonel, 20th October 1879.

WAR SERVICES.

Nil.

LIEUTENANT-COLONEL F. CODDINGTON, Bengal Staff Corps, Deputy Superintendent, 2nd Grade.

JOINED the service as a 2nd Lieutenant in the Bengal Artillery on the 12th June 1857; arrived in India, 16th October 1857; promoted to 1st Lieutenant on the 27th April 1858; appointed to the Bengal Horse Artillery on the 23rd October 1858; services transferred to Royal Horse Artillery in May 1861; appointed an Assistant Surveyor in the Survey Department on the 13th January 1862, and transferred to Bengal Staff Corps from same date; appointed to the charge of a survey party, 3rd Division, Oudh, on the 1st January 1864; sick leave to Europe from the 10th December 1865 to 25th July 1867; promoted to Deputy Superintendent of Survey, 3rd grade, on the 26th July 1867; attached to head-quarters office from 26th July 1867 till the 15th November 1867; promoted to Captain, 12th June 1869; raised and received charge of a new survey, 10th Division, Deccan, on the 1st November 1871; furlough to Europe from 19th March 1875; to 18th Major, 12th June 1877; iurlough, on urgent private affairs, under Rule XI. of 1868 Rules, from 16th February 1878; rejoined appointment in head-quarters office, 12th August 1878; promoted to Deputy Superintendent, 2nd grade, on the 27th October 1878; furlough on private affairs for 183 days, from 9th November 1882.

WAR SERVICES.

Served with the Cawnpore Field Force and at intrenched camp at Alumbagh and capture of Lucknow between 30th December 1857 and 23rd April 1858.—(Medal with clasp for Lucknow.)

BREVET LIEUTENANT-COLONEL WILLIAM MAXWELL CAMPBELL, Royal Engineers (Bombay), Deputy Superintendent, 2nd Grade.

JOINED the service, 1st August 1858; landed in India, 26th October 1860; attached to Bombay Sappers and Miners at Poona till 15th April 1861; joined Great Trigonometrical Survey of India on 30th January 1863 as 2nd Assistant; Junior 1st Assistant, 11th March 1865; promoted to 3rd grade Deputy Superintendent on 1st February 1868, and to 2nd grade Deputy Superintendent, 1st January 1879; Captain, December 1869; took two years' furlough, from 12th December 1868, during which he was placed on special duty to assist Colonel Strange in the preparation of survey instruments; returned to India on 3rd September 1871; took six months' leave on urgent private affairs on 8th December 1873, during which he was again placed on special duty with Colonel Strange; returned to India, 23rd September 1874; Major, 1st October 1877; took furlough for one year on 5th February 1878, returned to India on 4th February 1879, and proceeded on survey duty to join the Southern Division, Afghanistan Field Force, under command of Lieutenant-General D. Stewart, c.s.; Brevet Lieutenant-Colonel, 22nd November 1879; received charge of No. 2 Astronomical Party, October 1880; on furlough, private affairs, for six months, from 10th November 1881; on furlough for 1 year and 1 day from 24th March 1883.

WAR SERVICES.

Served with the Southern Division Afghanistan Field Force under the command of Lieutenant-General D. Stewart, c.v., from 12th March to end of November 1879; Brovet Lieutenant-Colonel, 22nd November 1879—medal.

MAJOR ROBERT VANSITTART RIDDELL, Royal Engineers (Bengal), Deputy Superintendent, 2nd Grade, Assistant Surveyor General.

JOINED the late Honourable East India Company's Military Seminary at Addiscombe. February 1858; appointed Lieutenant, Bengal Engineers, 10th June 1859; attached to the Headquarters Royal Engineers. Chatham, from August 1859 to November 1860; landed in India, 16th March 1861; joined the Bengal Sappers and Miners, 23rd May 1861; commanded a European Company of the Bengal Sappers and Miners from August 1861 to August 1862; appointed Military 2nd Assistant, Topographical Survey of India, and joined No. 1 Party; employed in Gwalior and Central India, 28th August 1862; transferred as Military Assistant to No. 5 Party, employed in Rewah, October 1863; appointed to executive charge of No. 6 Topographical Party, employed in the Khasi and Garo Hills, 4th October 1864; transferred to the charge of No. 1 Party, employed in Gwalior and Central India, November 1866; transferred to the charge of No. 5 Party, employed in Gwalior and Central India, November 1806; transferred to the charge of No. 5 Party, employed in Rewah, Bundelcund, Bhopal, and Malwa, from June 1867, and remained in charge of that party until September 1874; appointed Deputy Superintendent, 3rd grade, 1st October 1867; promoted to Captain, 20th January 1871; promoted to Officiating Deputy Superintendent, 2nd grade, from 11th August 1873 to 28th October 1874; attached to the head-quarters office of the Surveyor General at Calcutta from 9th December 1874 to 24th March 1875; furlough to Europe Form 26th March 1875 to 12th September 1876; Assistant Surveyor General from 6th October 1876, with charge of the Mathematical Instrument Department and Workshops, and of the Lithographic Branch, Surveyor General's Office; officiated as Deputy Superintendent, 2nd grade, from 8th November 1876 to 6th May 1879, and from 1st November 1879 to 9th January 1882; promoted to Major, 3rd June 1881; officiated as Mint Master, Calcutta, from 3rd July 1881 to 2nd October 1881; appointed Deputy Superintendent, 2nd grade, 10th January 1882; officiating as Mint Master, Bombay, from 12th October 1882 to 8th January 1883, and again from 4th May 1883 up to the present time.

WAR SERVICES.

Nil

MAJOR CHARLES STRAHAN, Royal Engineers (Bengal), Deputy Superintendent, Officiating 2nd Grade.

DATE of first commission, 8th June 1860; landed at Calcutta, October 1862; appointed to Survey Department as Military 2nd Assistant, and attached to No. 1 Party, 26th September 1863; took charge of reconnoitring party in Bhutan under General Tytler in October 1865; promoted to took charge of reconnoitring party in Bhutan under General Tytler in October 1865; promoted to Assistant Surveyor, 1st grade, 1st April 1866; rejoined No. 1 Party, 16th July 1866; promoted to Surveyor, 3rd grade, 1st December 1867; furlough to Europe from 2nd December 1871 to 27th October 1873; promoted to Captain, 20th August 1872; Officiating Deputy Superintendent, 2nd grade, 4th January 1874; reverted to Deputy Superintendent, 3rd grade, 1st April 1874; Officiating Deputy Superintendent, 2nd grade, 1st February 1878; reverted to Deputy Super-intendent, 3rd grade, 5th October 1878; Officiating Deputy Superintendent, 2nd grade, 27th October 1878; reverted to Deputy Superintendent, 3rd grade, 20nd April 1879; officiated as Deputy Superintendent, 2nd grade, from 1st November 1879 to 13th March 1880; furlough to Europe from 27th March to 10th October 1880; Officiating Deputy Superintendent, 2nd grade, from 18th October 1880 to present date; Brevet-Major, 2nd March 1881; promoted to Major, 1st July 1881 July 1881.

WAR SERVICES.

Served with the Bhutan Field Force, in charge of reconnoitring party under General Tytler, from October 1865 to 16th July 1866—medal and clasp; served with the Peshawur Field Force in Afghanistan under Sir Samuel Brown from March 1879 to end of first campaign in June 1879.

MR. JOHN OWEN NIX JAMES, Deputy Superintendent, Officiating 2nd Grade, Assistant Surveyor General.

APPOINTED to the Great Trigonometrical Survey of India as 3rd class Sub-Assistant, 29th July 1845; promoted to 2nd class Sub-Assistant, 29th July 1848; promoted to 1st class Sub-Assistant, July 1845; promoted to 2nd class Sub-Assistant, 29th July 1848; promoted to 1st class Sub-Assistant, 29th July 1858; appointed Senior Sub-Assistant, 10th July 1854; promoted to Civil 2nd Assistant Surveyor, 1st June 1855; transferred as Officiating Chief Draftsman, Surveyor General's Office, 1st September 1858; appointed Assistant Surveyor and Chief Draftsman, 12th July 1861; promoted to 1st grade Assistant Surveyor, Topographical Survey Department, 1st April 1866; promoted to 3rd grade Surveyor, 1st April 1869; Assistant Surveyor General and Deputy Superintendent, 3rd grade, 1st April 1874; Officiating Deputy Superinteudent, 2nd grade, from 15th May 1876; reverted to 3rd grade Deputy Superintendent, 19th September 1876; Officiating Deputy Superintendent, 2nd grade from 1st April 1878; reverted to 3rd grade from 1st April 1878; approximation 1879; officiating Deputy Superintendent, 2nd grade, from 1st April 1878; 2nd grade as Deputy Superintendent, 2nd grade from 1st April 1878; 2nd grade as Deputy Superintendent, 2nd grade from 1st April 1878; 2nd grade, from 1st April 1878; 2nd grade, from 1st April 1878; 2nd grade as Deputy Superintendent, 2nd grade, from 1st April 1878; 2nd grade, from 1st A 2nd grade, from 14th March to 17th October 1880; officiated as Deputy Superintendent, 2nd grade, from 14th December 1880; reverted to 3rd grade from 27th July 1881; Officiating Deputy Superintendent, 2nd grade, from 5th November 1881; reverted to 3rd grade from 15th May 1882; obtained the Indian Mutiny Medal, 1857; Officiating Deputy Superintendent, 2nd grade, from 2nd November 1882 up to the present time; in charge No. 3 Revenue Survey Party from 12th May 1883.

MAJOR WILLIAM BARRON, Bengal Staff Corps, Deputy Superintendent, Officiating 2nd Grade.

MAJOR WILLIAM BARKON, Bengat Stay Corps, Deputy Superintenaent, Opciating 2na Grade. JOINED the Bengal Artillery as 2nd Lieutenant on 11th December 1855; arrived in the Country 4th February 1859; did duty with the Bengal Artillery at Meerut and Peshawur till end of March 1860; did duty with the Peshawur Mountain Train Battery during April and May 1860; rejoined the Artillery Division at Peshawur, June 1860, and conti-nued there till appointed to the Peshawur Mountain Train Battery on 22nd August 1861; served with it at Murdan and Abbottabad till 3rd July 1862; appointed Assistant Revenne Surveyor in the Revenue Survey, 27th June 1862, and joined on 4th July 1862; joined the Bengal Staff Corps, 4th July 1862; Assistant Superintendent, 1st grade, 27th June 1866; sur-veyed in the Delhi, Peshawur and Hazara Districts till 15th December 1866; held charge of the North-West Frontier Survey from 12th October to 15th December 1866; and took charge of the North-West Frontier Survey from 12th October to 15th December 1866, and took charge of the

2nd Division, Lower Provinces, at Dibrugarh, Assam, on 1st February 1867; Officiating Deputy Superintendent, 3rd grade, 6th November 1868; continued there surveying in the Lakhimpur District till 8th December 1869; leave on medical certificate to Europe from 6th January 1870 to 3rd April 1871; promoted to Captain, 11th December 1870; appointed Deputy Superintendent of Survey, 3rd grade, on 1st April 1870; on return from furlough took charge of the North-West Frontier Revenue Survey on 17th April 1871; surveyed in the Dern Ghazi Khan District till 15th October 1873; transferred to the 4th Division, Revenue Survey, and took charge on the 13th November 1873; continued since then in charge, and surveyed District Moradabad (cadastrally) and District Budaon; Major, 11th December 1878; Officiating Deputy Superintendent, 2nd grade, from 7th November 1882 to 8th January 1883, and from 12th February 1883 up to the present time. Favourably mentioned in Despatch No. 7, dated India Office, London, 5th May 1870, from the

Favourably mentioned in Despatch No. 7, dated India Office, London, 5th May 1870, from the Bight Honourable the Secretary of State for India, to His Excellency the Right Honourable the Governor General of India in Council, for his work in the Lakhimpur District.

WAR SERVICES.

Served with the Peshawur Mountain Train Battery in the Mahsood Wuzeeree Expedition during April and May 1860 and the forcing of the Burrara Pass; served as Assistant Surveyor with the Umbeyla Expedition, October 1863; severely wounded in the action at the Eagle's Nest Picket on 26th October 1863; wound pension for life (medal with North-West Frontier and Umbeyla clasps).

LIEUTENANT-COLONEL H. C. B. TANNER, Bombay Staff Corps, Officiating Deputy Superintendent, 2nd Grade.

APPOINTED to the Bombay Artillery on the 8th June 1854; joined the Survey Department from the E Brigade, Royal Horse Artillery, as Assistant in the Sind Revenue Survey on 10th October 1862; transferred with the Sind Party to Chanda, Central Provinces; the party became the 4th Division, Central Provinces Revenue Survey, in February 1865; took sick leave from 18th February to 13th March 1866; furlough to Europe from 14th March 1866 to 11th May 1867; after rejoining from furlough, doing duty in the head-quarters office, Calcutta, from 11th May to 23rd June 1867; was placed in charge of the 3rd Division, Central Provinces Revenue Survey at Saugor, on 24th June 1867; transferred with the party to the Nimar District in November 1867; became Officiating Deputy Superintendent, 3rd grade, from 6th November 1868; became Deputy Superintendent, 3rd grade, from 1st April 1870; took charge of the Bombay City Survey, in addition to his other duties, in December 1869; transferred with the 3rd Division, Central Provinces Survey, to Bhawalpur; the party became the 1st Division, Bhawalpur Revenue Survey, in November 1870; transferred to the Topographical Party, which accompanied Sir Charles Brownlow's column to the Lushai Hills, on 1st November 1871 to 30th April 1872; on return from the Lushai Expedition was transferred to charge of 4th Division, Central Provinces, from 29th August 1872; the designation of this party was subsequently altered to the 11th Deccan Topographical Party from 1st October 1872; promoted to the rank of Major, 8th June 1874; took furlough on private affairs on 25th August 1876; rejoined the 11th Division, Deccan Survey, on expiration of furlough on 28th April 1877; ordered to join the Khyber column, under Lieutenant-General Sir Samuel Brown, as Surveyor in November 1878; joined the Great Trigonometrical Survey Office at Mussoorie on completion of Afghanistan campaign in June 1879; on special duty to Gilgit from July 1879 to 18th April 1882; promoted to Lieutenant-Colonel, 22nd November 1879; on f

WAR SERVICES.

Accompanied the Persian Expeditionary Force of 1856 as Subaltern in No. 5 Light Field Battery, and was present at the landing at Halila Bay, the taking of Reshire and Bushire, and the action of Kushat—(medal and clasp); accompanied a force despatched after the rebels from Kurrachee to Nugger Parker in May 1859; accompanied Sir Charles Brownlow's column during the Lushai Expedition in November 1871 as Surveyor—(olasp); mentioned in despatches, and received the thanks of the Government of India; accompanied Sir Samuel Brown's column, 1st Division, Peshawur Valley Field Force, as Surveyor, from the commencement to the termination of hostilities in 1878-79.

MAJOB WILLIAM JAMES HEAVISIDE, Royal Engineers (Bengal), Deputy Superintendent, Officiating 2nd Grade.

JOINED Royal Military College, Addiscombe, 1st August 1857; first commission as 2nd Lieutenant, Bengal Engineers, 10th June 1859; joined at Chatham, 1st August 1859; left Chatham in March 1861; granted three months' extension in England to study railway engineering; landed in Calcutta, 1st November 1861; joined Sappers and Minors at Roorkee (about) 15th December 1861; joined Agra and Bombay Rond Division, Department Public Works, as Probationary Assistant Engineer, 15th September 1862; promoted to 2nd grade Assistant (about) 1st May 1863; transferred to 2nd Division, Allahabad, Department of Public Works, in August 1864; left Department of Public Works for field service on 14th February 1865; on return from service joined the Great Trigonometrical Survey, 3rd January 1866, as 2nd grade Assistant; posted to East Calcutta Longitudinal Series, charge of No. 2 Astronomical Party, from September 1866 until taking furlough to Europe on 30th October 1870; promoted to 1st grade Assistant, Great Trigonometrical Survey, 1st March 1868; promoted to Captain, 24th March 1871; promoted to Deputy Superintendent, 3rd grade, Great Trigonometrical Survey, 5th April 1872; returned from furlough, 4th April 1872, to take charge of pendulum operations, and remained in charge until the completion of them; in joint charge of longitude operations with Major W. M. Campbell, a.E., from November 1875 until taking furlough, 16th November, 1877; on return from furlough, 28th November 1878, proceeded to join the Southern Afghanistan Field Force; returned to India, and received charge of Khandesh and Bombay Native States Topographical Party, 24th October 1879; received charge of No. 1 Astro-nomical Party, 18th October 1880; Brevet Major, 2nd March 1881; promoted to Major, 1st July 1881; on furlough to Europe for 6 months from 28th April 1882; received charge of No. 1 Astronomical Party, 6th December 1882 and of No. 2 Astronomical Party, 24th April 1883; Officia-tion Downty Superintendent 2nd Grade from 28th April 1893 up to the present time. ting Deputy Superintendent, 2nd Grade, from 29th April 1883 up to the present time.

WAR SERVICES.

Served with the Left Centre Column, Bhutan Field Force, as Assistant Field Engineer, 1865-66-medal; served in 1878-79 with the Southern Afghanistan Field Force on special survey duty; joined Lieutenant-General Stewart's column at Kandahar, and accompanied the Tal Chotiali Force under Major-General Biddulph on its return to India; specially mentioned in Tal Chotiali Field Force Orders by Major-General Biddulph, No. 427, dated 16th May 1879.

LIEUTENANT-COLONEL AYRTON PULLAN, Bengal Staff Corps, Deputy Superintendent, 3rd Grade.

APPOINTED a Cadet of Infantry, February 1856; landed in India, 29th April 1856; date of first commission as Ensign, June 14th, 1856; Lieutenaut, 26th December 1856; Officiating Quarter Master, 4th Sikh Infantry, July 1857; sick leave from Delhi Field Force, 12th September to 30th November 1857; appointed Adjutant, Benry's Sikhs, November 1857; Adjutant, Gorakpoor Mili-tary Police, January 1858; Adjutant, Benry's Sikhs, November 1857; Adjutant, Gorakpoor Mili-tary Police, January 1858; Adjutant, Benry's Sikhs, November 1857; Adjutant, Gorakpoor Mili-tary Police, January 1858; Adjutant, Benry's Honse, January 1859; appointed to the Staff Corps, 18th February 1861; attached to Her Majesty's 6th Hussars, November 1861; Doing Duty Officer, 14th Bengal Cavalry, January 1862; officiated as Assistant Political Agent, and Bazar Master, Morar, from April to June 1862; Doing Duty Officer, 8th Bengal Cavalry, June 1862; appointed 2nd Morar, from April to June 1602; Bolig Duty Omeer, cut Bengai Cavary, Suite 1602; appointed 2nd Assistant, Great Trigonometrical Survey, 18th January 1863; promoted to 1st Assistant (designa-tion changed to Assistant Surveyor, 1st grade), 1st October 1866; promoted to Captain, 14th June 1868; furlough to Europe for two years, 31st December 1869; Assistant Superintendent, 1st grade, and Officiating Deputy Superintendent, 3rd grade, Great Trigonometrical Survey, 11th December 1871; appointed to the charge of the Kattywar Survey, 6th April 1873; promoted to Major, 14th June 1876; appointed Deputy Superintendent, 3rd grade, Great Trigonometrical Survey, 1st January 1878; furlough to Europe for one year, from 13th May 1878; returned to duty, 19th April 1879; resumed charge of Kattywar Survey, 26th April 1879; promoted to Lieutenant-Colonel, 14th June 1882.

WAR SERVICES.

Served as Orderly Officer to Brigadier Johnstone on the march from Jullundur to Delhi, June 1857; served with the 4th Sikh Infantry throughout the siege of Delhi; severely wounded-medal and clasp; also mentioned in despatches three times during the Indian rebellion, and received the thanks of Sir C. Wingfield, Chief Commissioner of Oudh, for the defence of the town of Bansee when attacked by an insurgent force, July 1858 (horse wounded).

MAJOR DAVID CLAPHAM ANDREW, Benyal Staff Corps, Deputy Superintendent, 3rd Grade.

JOINED the service on the 9th December 1859 as Ensign on the General List of Bengal Infantry; arrived in India, 7th March 1860; by G. O. C. C., dated 9th April 1860, directed to do duty with Her Majesty's 77th Regiment ; promoted to Lieutenant on the 10th September 1861 ; by G. O. C. C., dated 25th March 1862, ordered to join and do duty with the 21st Punjab Infantry, Native Regiment; joined the Revenue Survey Department as Probationary Assistant Surveyor on the 30th December 1862, and confirmed, 18th January 1864; Assistant Superintendent, 1st grade, on the 30th December 1866; joined Bengal Staff Corps, 18th January 1864; promoted to Captain on the 9th December 1871; promoted to Deputy Superintendent of Revenue Survey, 3rd grade, on the 1st January 1878; proceeded on furlough on medical certificate to Europe on the 28th May 1878; returnhuary 1873; proceeded on furning on medical certificate to Burby on the 20th May 1970; returned ed to India on the 12th June 1879, and resumed charge of substantive duties on the 13th June 1879; placed in charge of Bassein District, British Burma Survey, 11th November 1879; promoted to Major, 9th December 1879; transferred to No. 11 South Deccan Survey, 20th Novem-ber 1880; received Personal Allowance of Rs. 100, until promotion to Deputy Superintendent, 2nd grade, 15th February 1883.

WAR SERVICES.

Nil.

MAJOR WILLIAM HENRY WILKINS, Bengal Staff Corps, Deputy Superintendent, 3rd Grade.

JOINED the Bengal Artillery, 12th December 1857 ; arrived in the country, 28th January 1858 ; promoted to 1st Lieutenant, 27th August 1858; joined Thomason College, Roorkee, 12th March 1861; obtained 1st class certificate, &c., 27th August 1862; privilege leave until 1st November 1862, on which date received general leave in India for three months, afterwards extended to six months; commanded the garrison battery in Agra Fort (the 20 days' leave not expended was never cancelled), 11th d the garrison battery in Agne Fort (the 25 days leave not expended was never cancerney), 11th April 1863; joined the Fyzabad Rovenue Survey as Assistant on probation, 27th April 1863; confirmed as Assistant Revenue Surveyor, and appointed to Staff Corps, from 11th May 1864; joined 1st Division, Central Provinces Revenue Survey, 13th November 1864; promoted to Assistant Superintendent, 1st grade, 27th April 1867; Captain, 12th December 1869; Assis-tant Superintendent in charge of 1st Division, Central Provinces Survey, 3rd August 1870 to 20th December 1870, initial the 2nd Division (Parallel Revenue Survey) and August 1870 to 20th December 1870, initial the 2nd Division (Parallel Revenue Survey) and August 1870 to 16th Decomber 1870; joined the 2nd Division (Punjab) Revenue Survey, 1st July 1871; Officiating Deputy Superintendent, 3rd grade, 13th May 1871 to 24th September 1871; received charge of 2nd Division (Punjab) Revenue Survey, 20th October 1871; Officiating Deputy Superintendent, 3rd grade, from 18th January 1872 to 3rd March 1872, and from 28th March 1872 to 18th March 1877; received charge of 12th (Midnapur) Revenue Survey, 1st December 1876; received charge of 14th (Dearah), now 3rd Division Survey of India, 7th December 1877; Major, 12th December 1877; confirmed as Deputy Superintendent, 3rd grade, 27th October 1878; received charge of No. 8 Party, Bassein District, British Burma, on 25th November 1881; received Personal Allowance of Rs. 100, until promotion to Deputy Superintendent, 2nd grade, 15th February 1883; on furlough to Europe for 273 days from 8th June 1883.

WAR SERVICES.

Nil.

MAJOR J. E. SANDEMAN, Bengal Staff Corps, Deputy Superintendent, 3rd Grade.

JOINED the Royal Military College at Addiscombe in 1860; obtained a commission as Ensign in the Bengal Infantry on the 7th June 1861; arrived in India in October 1861; was attached for duty to Her Majesty's 90th Light Infantry; promoted to Lieutenant, 19th May 1862; 10th October 1862, passed the P. H. examination in Hindustani; had leave in India, private affairs; 15th December 1862 to 12th February 1863; by G. O. C. C., dated 23rd March 1863, was permitted to study at the Civil Engineering College at Roorkee; in September 1864 passed the College final examination, and obtained certificate qualifying for employment as an Engineer in the Department of Public Works; was appointed to the Survey Department, and joined appointment at Nagpur on the 6th October 1864; from 17th February 1866 was transferred to 2nd Division, Oudh Survey, and from 13th November 1866 to North-Western Frontier, a survey party in the Punjab; joined the Staff Corps on the 9th May 1867; served in the Punjab till 1870, when, by G. G. O., dated 20th December 1869, No. 1265, he was granted two years' furlough to England; he availed himself of this from 14th March 1870, and reported his arrival at Bombay again on the 16th February 1872; rejoined his appointment at Nagpur, as Assistant Superintendent of Survey, on 21st February 1872; reloined was transferred to Bengal, and took over charge of the Midnapur Survey from 19th June to 10th August 1872; from 1st October 1872 was transferred to the Moradebad Cadastral Survey; in March 1873; was promoted to Captain by G. G. O., dated 18th June 1873, from 7th June 1873, under R. W. of 16th January 1861; made over charge of the Midnapur Survey in December 1873, and proceeded to join the Goalparah Survey in Assam; in October 1874 was appointed to the Behar Irrigation Survey as Assistant Superintendent; from 1st October 1875 was appointed to the Behar Irrigation Survey as Assistant Superintendent, 3rd grade, Survey of India, from 15th May 1876 to 7th November 1878, assumed charge of the British Burna Cadastra

WAR SERVICES.

Served with the Black Mountain Expedition in Hazara under Major-General Alfred Wilde from 15th August to 31st October 1868; was present at the advance from Munna Kaduna, and the taking of the Machai Peak; assisted in surveying the route taken by the force, and the surrounding country. under the direction of Colonel H. C. Johnstone, and compiled a map of the same; received the frontier medal.

LIEUTENANT-COLONEL W. F. BADGLEY, Bengal Staff Corps, Deputy Superintendent, 3rd Grade.

JOINED the service, 4th April 1857; arrived in Calcutta, 15th May 1857; doing duty with Her Majesty's 88th and 53rd Regiments to 25th November 1858; Lieutenant, 18th May 1858; Oudh Military Police, 26th November 1858; Adjutant, 26th Punjab Infantry, to 11th April 1865; appointed to the Topographical Survey on 8th May 1865, and joined No. 5 Party, employed in Rewah and Bundelcund, and remained with that party till October 1868; Assistant Superintendent of Survey, 8th May 1868; Captain, 4th April 1869; furlough, 23rd January 1869 to 21st January 1871; joined and received charge of No. 6 Topographical Party; employed in the Khasi, Garo, and Naga Hills on 8th June 1871, and remained in charge of that party up to the present time, with the exception of a period from October 1874 to August 1875, during which Major Godwin-Austen had charge; Major, 4th April 1877; on furlough to Europe for one year from 10th March 1882; extension for 1 year; Lieutenant-Colonel, 4th April 1883.

WAR SERVICES.

Mutiny and Lushai Expedition-medals and clasp; minor affairs on Eastern Frontier; four wounds; no recognition of services.

MAJOR T. H. HOLDICH, Royal Engineers, Deputy Superintendent, 3rd Grade.

COMMISSIONED Lieutenant. R.E., 17th December 1862; appointed to India, October 1864; arrived in India, 3rd March 1865; appointed Assistant to Lieutenant C. Strahan, R.E., in charge Field Survey Operations in Bhootan, October 1865; gazetted Assistant Superintendent, 2nd grade, Topographical Survey of India, 23rd July 1866, and joined the Rajputana Topographical Party; attached to special party for service in Abyssinia, December 1867; proceeded to England from Abyssinia on special duty, June 1868; Assistant Superintendent, 1st grade, 15th December 1868; returned to India, 4th May 1860, and joined the Gwalior and Central India Topographical Survey; acted in charge of the purty during seasons 1871-72 and 1872-73; Officiating Deputy Superintendent, 3rd grade, from 11th August 1873 to 3rd November 1873, and again from 15th December 1873 to 14th May 1877; appointed to charge of Vizagapatam Agency and Central India, 15th January 1877; captain, Royal Engineers, 4th June 1876; left India on furlough to Enrope, 14th May 1877; preclided to Superintendent, 3rd grade, from 15th January to 13th June 1879, and from 1st November 1879 to 28th April 1883. Brevet Major, 2nd March 1881; special leave to England for three months from 1st November 1869; assumed tharge for Kohat Topographical Survey, 15th February 1891; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882. Promoted to Deputy Superintendent, 3rd grade, 29th April 1883.

WAR SERVICES.

Served on special survey duty during Bhootan Campaign from October 1865 to close of campaign; present with the Buxa column to its farthest advance, and subsequently with the Dewangiri column during advance to the Monas; despatches not published—frontier medal and clasp for Bhootan; served on special survey duty during the Abyssinian Campaign from December 1867 to close of campaign; mentioned in despatches of Sir R. Napier, dated 1st June 1868; services commended by Secretary of State for War-medal; served on special survey duty during first period of Afghan Campaign from February 1879 till close of campaign; present with Sir M. Biddulph's division during march from Pishin to India via Tal Chotiali; mentioned in despatches by Sir M. Biddulph; services specially acknowledged in Field Force Order, No. 427 of 16th May; received acknowledgment of Governor General in Council and Secretary of State for India; served in charge of survey operations in Northern Afghanistan during second period of the campaign; present at several actions fought near Kabul in November and December 1879, siege and defence of Sherpur, occupation of Lughman Valley, expeditions to Kohistan, Logar and Wardak, E. C., mentioned in despatches by Sir F. Roberts; received thanks of Governor General in Council and Secretary of State for India for services in charge of survey operations—medal with clasp for Kabul; served in charge survey operations during expeditions against the Mahsud Waziris in the spring of 1881; present at skirmish on Shaidar Mountain when survey party was attacked; mentioned in despatches by Brevet General R. Kennedy, Commanding expedition.

MAJOR JAMES WATERHOUSE, Bengal Staff Corps, Officiating Deputy Superintendent, 3rd Grade, and Assistant Surveyor General, Photo. Branch.

JOINED the service as 2nd Lieutenant, Bengal Artillery, 10th June 1859; arrived in the Country, 11th October 1859; services placed temporarily at the disposal of the Foreign Department for special duty, 15th November 1861; deft regimental duty, 16th January 1862; returned to regimental duty, 21st December 1862; appointed Officiating Commissary of Ordnance, 3rd class, 13th April 1866; services placed at the disposal of the Government of Bengal, 5th June 1866; appointed Assistant Revenue Surveyor, Lower Provinces, 27th June 1866; services placed at the disposal of the Government of India, Home Department, 7th July 1866; services placed at the disposal of the Government of India, Home Department, 7th July 1866; services placed at the Surveyor with superintendence of the photozincographic operations in the Office of the Surveyor General of India, 18th July 1866; joined the Survey Department, 22nd July 1866; leave on medical certificate to Europe, 25th March 1867 to 17th February 1869; re-appointed Assistant Surveyor, 2nd grade, 17th February 1869; gazetted Lieutenant in Bengal Staff Corps, 10th June 1859; promoted to Captain, Staff Corps, 10th June 1871; attached to Colonel Tennant, R.E., for duty with the Indian Eclipse Expedition from 21st November 1871 to 8th January 1872; attached to Colonel Tennant, R.E., for duty in observing the transit of Venus from 10th October 1874 to 1st January 1875; in charge Indian Eclipse Expedition to Nicobar Islands from 11th March to 18th April 1375; Officiating Deputy Superintendent of Survey, 3rd grade, from 26th March 1875; reverted to Assistant Superintendent, 1st grade, 19th September 1876 to 6th March 1875; reverted to Assistant Superintendent, 1st grade, 19th September 1878 to 6th May 1879, and from 1st February 1878; on special duty in Europe from 10th October 1878 to 6th May 1879, and from 1st November to 11th December 1879; furlough to Europe on private affairs from 12th December 1879; resumed charge of the Photographic Branch of the Surveyor General's Office, Calcutta

WAR SERVICES.

Nil.

MAJOR MALCOLM W. ROGERS, Royal Engineers, Officiating Deputy Superintendent, 3rd Grade, and Officiating Assistant Surveyor General.

JOINED the service as a Gentleman Cadet in February 1860; appointed Lieutenant in the Royal Engineers, 18th December 1861; served as Division Officer, Cork, Ireland, from 1864 to 1865; landed in India, 20th October 1865; served with the Bengal Sappers and Miners until 4th July 1866; appointed Assistant Surveyor, 2nd grade, Great Trigonometrical Survey of India, on 5th July 1866; promoted to Assistant Surveyor, 1st grade, 5th December 1868; Officiating Deputy Superintendent, 3rd grade, from 18th December 1870; reverted to Assistant Superintendent, 1st grade, 1st November 1872; Officiating Deputy Superintendent, 3rd grade, from 6th April 1873; furlough on private affairs from 1st November 1873; Captain, 11th December 1873; returned to India and appointed Officiating Deputy Superintendent, 3rd grade, 28th October 1874; reverted to Assistant Superintendent, 1st grade, from 1st January 1873; Officiating Deputy Superintendent, 3rd grade, from 15th February 1878; reverted to Assistant Superintendent, 1st grade, from 26th April 1879; Officiating Deputy Superintendent, 3rd grade, 12th December 1879; furlough to Europe for 1 year and 4 days, 1st May 1880; returned from, furlough, 15th June 1881; appointed Officiating Deputy Superintendent, 3rd grade, 15th June 1881; promoted to rank of Brevet Major, 2nd March 1881; promoted to Major, 18th December 1881; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882; continuing to officiate as Deputy Superintendent, 3rd grade. Officiating Assistant Surveyor General in charge Mathematical Instrument Department and Correspondence Branch, Head-Quarters, Calcutta from 19th April 1883.

WAR SERVICES.

Served as Survey Officer with the 1st Division of the Quetta Field Force under Lieutenant-General D. Stewart, c.B., from 12th November 1878 to November 1879.

MAJOR J. HILL, Royal Engineers, Officiating Deputy Superintendent, 3rd Grade.

MAJOR JOHN HILL, Royal Engineers, joined the Corps of Royal Engineers as Lieutenant on the 25th June 1862, and after serving at the S. M. E., Chatham, and on the Plymouth Defences, arrived in India on the 10th December 1865; joined Bengal Sappers and Miners at Roorkee, 27th January 1866; appointed 2nd grade Assistant Surveyor, Great Trigonometrical Survey of India, 4th December 1866; posted to Kumaon and Garhwal Series, Great Trigonometrical Survey, 28th December 1866; sick leave to Europe from 11th November 1868 to 30th October 1869; promoted to Assistant Superintendent, 1st grade, Great Trigonometrical Survey, from 30th October 1870; received charge of the Kumaon and Garhwal Series, afternoon of 10th February 1871; Officiating Deputy Superintendent, 1st grade, 1st April 1871; reverted to substantive appointment of Assistant Superintendent, 1st grade, 4th April 1872; Officiating Deputy Superintendent, 3rd grade, 23rd August 1873; relieved of charge of Kumaon and Garhwal Series, 1st October 1874; received charge of Bombay party, 28th October 1874; local Captain, 25th June 1874; relieved of charge of Sombay party, 19th October 1879; furlough to Europe from 20th January 1875 to 28th January 1877; Captain, 16th September 1875; rejoined appointment in India, 28th January 1877; assumed charge of the Eastern Frontier Series, 17th March 1877; Officiating Deputy Superintendent, 1st grade, 22nd April 1878; reverted to substantive appointment of Assistant Superintendent, and provint 1874; multipleave from 17th May; returned from furlough and resumed charge of Eastern Frontier Series, 20th May 1879; subsidiary leave from 17th May; returned from furlough and resumed charge of Eastern Frontier Series, 25th December 1879; Officiating Deputy Superintendent, 3rd grade, 25th June 1882; continuing to officiate as Deputy Superintendent, and resumed charge of Eastern Frontier Series, 25th December 1879; Officiating Deputy Superintendent, 3rd grade, up to 8th April 1880; promoted to Major, 25th June 1882. Deputy Superintendent, mew

WAR SERVICES.

Nil.

MR. HENRY HORST, Officiating Deputy Superintendent, 3rd Grade.

APPOINTED Librarian and Accountant to the Thomason Civil Engineering College, Roorkee, lst January 1853 up to September 1854; appointed as a 3rd class Sub-Assistant in the Great Trigonometrical Survey (without break of service), lst September 1854; transferred to the Topographical Survey on Major-General Sir A. Waugh's retirement; promoted to the Senior Department, lst April 1868; officiated as Surveyor, 3rd grade, from 16th October 1868 to 4th April 1869; promoted to Assistant Superintendent, 1st grade, 1st October 1869; officiated as Deputy Superintendent, 3rd grade, from 1st January to 11th October 1879. Services—Assisted in the Topographical Survey of the Jhelum and Rawal Pindi Districts till its completion; Gwalior and Central India Survey, Rajputana Survey, and in charge of same for nine months; Simla Survey, Bhopal and Malwa Survey; appointed to the charge of No. 2 Topographical Party or Khaudesh and Bombay Native States Survey, 18th October 1874; in charge of picket which repulsed night attack on the Murree Sanitarium in September 1857 (*mutiny medal*); gave information, through Captain W. G. Murray, to the General Commanding the Agra Division in 1862, which led to the seizure of Harbuns Ram, Soubah of Dholpur, and dispersion of 6,000 troops he had quietly collected in the Chumbal ravines for a revolt; furlough to Europe for two years from 5th June 1879; extension for 3 months, with further extension on subsistence allowance, till 12th September 1882; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882; Officiating Deputy Superintendent, 3rd grade, from 13th September up to 31st December 1882, and from 14th March 1883 up to the present time.

·MR. WILLIAM HAMMOND COLE, M.A., CANTAD., F.R.A.B., F.R.Q.S., Officiating Deputy Superintendent, 3rd Grade.

APPOINTED to the Educational Department, North-Western Provinces, direct from England, 14th April 1862, as Professor of Mathematics at the Government College, Agra; sick leave from 9th September to 8th November 1863; permitted to resign appointment from 1st March 1864 on account of continued ill-health; after nearly three years' residence at Mussooree as Mathematical Master at Mr. Maddock's School, was re-appointed to the Government service, 3rd January 1867, as Probationary Assistant Surveyor in the Great Trigonometrical Survey of India, and Assistant to the Officer in charge of the Computing Office, being at the same time placed in charge of the Photozincographic Branch of the Computing Office, Dehra; appointed Assistant Surveyor, 2nd grade, on 1st September 1867; conducted the duties of the Computing Office in all its branches from middle of December 1867 to beginning of April 1868, during the absence of Mr. J. B. N. Hennessey, M.A., the Officer in charge, who was deputed to superintend the measurement of the Bangalore Base Line; designation changed to Assistant Surveys on 1st September 1869; promoted to 1st grade from 4th December 1870; officiated as Deputy Superintendent, 3rd grade, from 1st April 1871 to 16th December 1871; officiated again in this grade from 2nd November 1873 to 30th September 1874; officiated again as Deputy Superintendent, 3rd grade, and held charge of the Computing Office to 21st March 1875, on amalgamation and reduction of the three branches of the Survey Department on the 1st January 1875, reverted to the grade of Assistant Superintendent, 2nd grade, officiating in 1st grade; again promoted to 1st grade from 27th October 1878; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882. Officiated as Deputy Superintendent, 1883 up to the present time. Officiating in charge Head-Quarters Office, Dehra Dun, and Survey Detachment in Kashmir from 12th February 1883.

MR. HENRY BLAQUIRE TALBOT, Officiating Deputy Superintendent, 3rd Grade.

APPOINTED in the Junior Department of the Great Trigonometrical Survey, 1st December 1848; served under the orders of Captains DuVernet and Robinson in the North-Western Himalaya Series and Sind-Sangor Doab, 30th June; resigned, 1852; joined the Revenue Survey as Sub-Assistant, 1st October 1852; Sub-Assistant, 2nd class, 1st January 1854; served under the orders of Captains G. Hunter Thompson, G. Hamilton and A. D. Vanrenen in the Baree Doab, Bharatpur, and Bundelcund Surveys; promoted to Assistant Surveyor, 1st January 1858; appointed to the charge of the Rohilcund Survey in October 1862; transferred to the charge of the 2nd or Upper Assam Survey, 20th November 1865; appointed to the Senior Branch at the re-organization on 1st April 1866, as Probationary Assistant Superintendent; promoted to 1st Greade 1870; transferred to the 6th Division, Cadastral Survey, Agra, 1st October 1872, after the abolition of the 2nd or Upper Assam Survey; reverted to 2nd grade Assistant Superintendent on the amalgamation of the Topographical and Revenue Surveys, 19th March 1877; appointed to Behar Irrigation Survey from 1st October 1876, and in charge of the 9th Division, Cadastral Irrigation Survey, Orissa, 28th November 1876; promoted to 1st grade Assistant Superintendent, 22nd December 1873; appointed to charge of Tharawaddy District, British Burma Survey, from 1st November 1880; Deputy Superintendent (new), 4th grade, 1st July 1882. Officiating Deputy Superintendent, 3rd grade, from 29th April 1863.

MAJOR ANDREW WILSON BAIRD, Royal Engineers, Officiating Deputy Superintendont, 3rd Grade.

JOINED the service, 18th December 1861, as Lieutenant, Royal Engineers; arrived in India, 4th March 1863; served with the Bombay Sappers and Miners from 2nd April till 4th May 1864, when, having passed the colloquial examination in Hindustani, was appointed to the Bombay Defences Division on 16th May 1864; gazetted Special Assistant Engineer; joined the Bombay Defences, on 27th May 1864; passed the departmental examination, and gazetted Assistant, 2nd class, on 28th March 1865; promoted to Assistant, Ist grade, 1st April 1865; appointed Special Assistant to Executive Engineer for Reclamations, 7th December 1865; raised to increased pay, 11th April 1866; placed on seconded list from date of joining the Public Works Department by G. G. O., 31st July 1866; appointed Executive Engineer, 4th grade, 2nd October 1867, but permitted to remain, at his own request, as Special Assistant for Reclamations in Bombay; services placed at the disposal of Military Department for duty in Abyssinia, 30th January 1808; appointed Assistant Field Engineer with the Abyssinia Force, 24th February 1868; retained by the Military Department on return from Abyssinia for special duty in Bombay by G. O. 30th June 1868; services placed at disposal of Chief Engineer, Presidency, when relieved from military duty, and joined Bombay Defences as Assistant Surveyor (corresponding to present Assistant Trigonometrical Survey of India as Assistant Surveyor (corresponding to present Assistant Superintendent), 2nd grade, 4th December 1868; lapcointed, 1870; proceeded to England on medical certificate on 14th May 1870; in July 1871, while on furlough in England, employed specially to study the practical details of tidal observations and their reduction by harmonic analysis, as carried on under the superintendent, 31st March 1873; gazetted local charge of the Bombay toda and leveling party on its formation in November 1873; gazetted local charge of the Bombay toda Assistant Superintendent, 1st grade, October 1871; on return to India, promote assist, as the Indian coasts under the orders of the Superintendent, Great Trigonometrical Survey, by Government of India's Resolution of the 4th July 1877, on the amalgamation of three branches of the Survey Department, 1st January 1878; continued in charge of the tidal and leveling operations, Survey of India; promoted for the third time Assistant Superintendent, 1st grade, on the 1st January 1879; promoted to Major, 18th December 1881; on furlough to Europe for 1 year and 148 days from 16th October 1881; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882. Resumed charge of Tidal and Leveling operations on the 20th April 1883. Officinting Deputy Superintendent, 3rd grade, from 29th May 1883.

WAR SERVICES.

Served with the Abyssinia Field Force in 1868 as Assistant Field Engineer, and appointed Traffic Manager of the Railway; mentioned in the despatches for zeal and management in bringing safely and expeditiously troops and baggage for embarkation—medal.

MAJOR J. R. MCCULLAGH, Royal Engineers, Deputy Superintendent, 4th Grade.

FIRST Commission, 18th December 1861; joined at Chatham, February 1862; joined at Belfast, June 1864; landed at Calcutta, 20th October 1865; joined head-quarters, Bengal Sappers and Miners, Roorkee, 27th October 1865; Officiating Doing Duty Officer, 27th January 1866; Command of Detachment, 1st and 3rd Companies, B. S. and M., at Peshawur, 30th April 1866; jassed Lower Standard, Hindustani; permanent Doing Duty Officer, 4th July 1867; Officiating Adjutant and 2ndin-Command, B. S. and M., 17th April 1868; appointed to the Public Works Department, 6th Novemher 1868; appointed to the Great Trigonometrical Survey of India, 1st March 1869, as Assistant Surveyor, 2nd grade; officiating in charge, Guzerat Party, ten months, 1870-71; Assistant Superintendent, 1st grade, 1st January 1872; Captain, 11th December 1873; under the re-organization, became Assistant Superinteudent, 2nd grade, 1st April 1874; furlough to Europe from 1st November 1873 to 27th October 1874; Officiating Assistant Superintendent, 1st grade, 28th October 1874; charge of No. 1 Extra Party, 13th November 1874; Officiating Assistant Superintendent, 1st grade, in charge No. 9 Party, Mysore Topographical Survey, 1st August 1875; reverted, 12th April 1877; Officiating Assistant Superintendent, 1st grade, in charge No. 8 Party, Mysore Topographical Survey, 27th April 1877; turlough to Europe, with six months' duty at Chatham in addition, from 5th November 1877 to 5th May 1879; Officiating Assistant Superintendent, 1st grade, 6th May 1879, and attached to Mysore Topographical Survey; promoted to Assistant Superintendent, 1st grade, on 14th December 1880; joined Hanthawaddy District Cadastral Survey in British Burma on 2nd June 1881, and received charge of Party on 1st August 1881; promoted to Major, 18th December, 1881; Deputy Superintendent (new), 4th grade, 1st July 1882.

WAR SERVICES.

Appointed Assistant Field Engineer to the Bhutan Field Force, and to Command No. 2 Company, B. S. and M., 3rd January 1866 (medal and clasp).

MAJOR JOHN RANDAL WILMER, Bengal Staff Corps, Deputy Superintendent, 4th Grade.

JOINED the service as Lieutenant in the Royal Artillery on the 22nd June 1859; joined the Battery at Guernsey, 1st Angust 1859; arrived in India on 27th October 1860; Acting Adjintant, 11th Brigade, Royal Artillery, for one month, May 1863; held command of G-11, Royal Artillery, from 22nd September 1864 till 24th March 1866 (one year and six months); leave on private affairs, 7th May 1866 to 7th August 1866 (three months); Acting Adjutant, 11th Brigade; September and October 1867; embarked for England with G-11, Royal Artillery, on 20th November 1867; leave on private affairs, 18th February 1868 to 18th April 1868; returned to India and joined 3-22nd, Royal Artillery, 28th April 1869; officiated as a 3rd class Commissary of Ordnance from 22nd June 1869 to 23rd August 1869; appointed to Staff Corps, 24th August 1869; Assistant Superintendent, Topographical Survey, 24th August 1869; sick leave from 19th December 1871 to 2nd March 1872; promoted Brevet Captan, 22nd June 1871; promoted to Assistant Superintendent, lst grade, Topographical Survey, 28th August 1872; substantive Captain in Staff Corps, 24th August 1873; appointed to charge of No. 5 Topographical Survey Party, 12th October 1874; reverted to Assistant Superintendent, and grade, on amalgamation of the Surveys; Officiating Assistant Superintendent, 1st grade, 1st January 1878; promoted to Major, 22nd June 1879; promoted to Assistant Superintendent, 1st grade, 24th April 1862; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882.

WAR SERVICES.

Nil.

MR. JOHN McGILL, Deputy Superintendent, 4th Grade.

JOINED the Bombay Party, Great Trigonometrical Survey of India, as Sub-Assistant, 3rd grade, on the 1st October 1851; employed on the Aboo Meridional Series under Lieutenant, now General, H. Rivers, R.E.; promoted to Sub-Assistant, 2nd grade, 10th June 1854; triangulation Kattywar, Thar Parkar and Cutch under Lieutenant D. J. Nasmyth, R.E.; privilego leave for three months; Base Line, Karachi, and triangulation in Kutch; promoted to 1st class Sub-Assistant, 1st August 1856; triangulation in Sind, Kutch and Guzerat under Captain D. J. Nasmyth, R.E.; promoted to Senior Sub-Assistant on 1st January 1859; triangulation in Mewar and Guzerat under Captain C. T. Haig, R.E.; privilege leave for two months; promoted to Junior Civil Assistant, 2nd grade, on 1st December 1861; approximate work, Mangalore Series and Bombay Longitudinal Series, under Captain C. T. Haig, R.E.; privilege leave for one month in 1863; promoted to Civil 2nd Assistant, September 25th, 1862; approximate triangulation in Kanara and Mysore; promoted to Junior Civil Assistant on 17th Angust 1864; privilege leave for one month in November 1864; transferred to Northern Bombay Party, 1st November 1865, under Captain D. J. Nasmyth, R.E., and employed in the triangulation and survey of the Island of Bombay; assumed charge of the party for one month on Captain Nasmyth's going on sick leave and made over charge to Captain Haig, R.E., in March 1866; privilege leave for one month, 1st May 1867; promoted to Civil 1st Assistant on 1st September 1867; triangulation for topographical work in Kattywar; privilege leave for one month, 1st May 1870; promoted to Assistant Superintendent, 2nd grade, 1st March 1871; officiated in charge of the Kattywar Party for two months, from 1st September 1871, for Captain H. Trotter, R.E.; privilege leave for two months from 29th March 1873; promoted to 1st grade Assistant Superintendent, 1st April 1873; officiated in charge of Kattywar Party for two months from 25th September 1873; by new organization scheme of 1874, 1st April, Assistant Superintendent, 2nd grade, and officiating in 1st grade; three months, from 9th April 1876; officiated in charge of Kattywar Party from 27th April 1878; furlough for one year from 4th July 1879; Officiating Assistant Superintendent, 1st grade, from 1st July 1880; received charge of South Deccan Topographical Party, on 15th July 1880; received charge of Khandesh and Bombay Native States Party, 18th October 1880; made over charge 3rd December 1881; on duty head-quarters office, Calcutta, from 10th December 1881; Assistant Superintendent (new), 1st grade, 1st July 1882; Officiating Deputy Superintendent, 4th grade,

WAR SERVICES.

Nil.

MAJOR S. H. COWAN, Bengal Staff Corps, Deputy Superintendent, 4th Grade.

JOINED the service, 9th December 1859; arrived in India, 9th April 1860; served with Bengal Artillery Depôt at Meerut, April 1860; posted to 4th Company, 3rd Battalion, Bengal Artillery; served with D Battery, 16th Brigade, Royal Artillery, February 1861; appointed in the Ordnance Department, 4th October 1866; admitted to Staff Corps, 19th January 1867; appointed Assistant Superintendent, 3rd grade, in the 4th Division Survey, Bengal, 19th January 1867; appointed Assistant Superintendent, 2nd grade, 17th March 1868; went on furlough to Europe to 30th May 1870; promoted to Captain (Brevet), 9th December 1871; returned from furlough, 3rd May 1872; transferred to 1st Division (Assam) Survey, 1st June 1872; promoted to Captain, 24th December 1872; went on sick leave to Europe, 16th July 1875; returned from Europe, 7th November 1876; transferred to Behar Irrigation Survey, 30th November 1876; transferred to head-quarters office, 1st March 1878; transferred to take charge of Cachar Survey, 23rd November 1878; transferred to bead-quarters office, Photo. Branch, 14th November 1879; promoted to Major, 9th December 1879; on special duty, Surveyor General's Office, Photographic Branch, Calcutta, from 26th December 1881; assumed charge, Hooghly River Survey, 7th April 1882; Assistant Superintendent, 1st grade (new), 1st July 1882; personal allowance of Rs. 100, 1st April 1881; Officiating Deputy Superintendent, 4th grade (new), from 1st July 1882 up to 28th April 1883, and confirmed in that grade, 29th April 1883.

MAJOR EDWARD HARRIS STEEL, Bengal Staff Corps, Assistant Superintendent, 1st Grade.

JOINED the service on 8th June 1860, and arrived in India, 11th October 1860; leave on medical certificate to hills north of Kumaon from 10th June to 1st November 1861; leave on medical certificate to Europe from May 1865 to June 1866, after Bhutan Campaign; appointed Assistant Superintendent of Survey, 2nd grade, Survey Department, 1st February 1867, in Assam; leave to Europe on medical certificate, December 1867 to December 1868; returned to Regiment of Royal Artillery; re-appointed and rejoined Survey Department as Assistar Superintendent, 2nd grade, on 26th January 1869; admitted to Staff Corps, 26th January 1869; Captain, Staff Corps, 26th January 1873; in charge 2nd Division, Revenue Branch, from 2nd November 1876 to 19th April 1877, and again from 18th July to 18th November 1877; Officiating Assistant Superintendent, 1st grade, from 1st to 11th January 1878, again from 1st February to 6th May 1879; Officiating Assistant Superintendent, Ist grade, from 20th June to 10th October 1879; to 18th October 1880; promoted to Major, 8th June 1880; Officiating Assistant Superintendent, 1st grade, for 1880; personal allowance of Rs. 100, 1st April 1881; transferred to charge of Bassein District Survey form 20th November 1880; furlough on medical certificate from 8th December 1881; personal allowance of Rs. 100, 1st April 1881; transferred to charge of Bassein District Survey form 20th November 1880; furlough on medical certificate from 8th December 1881; extension for 6 months; further extension for 4 months and 10 days; Assistant Superintendent (new), 1st grade, 1st July 1882.

WAR SERVICES.

Served with Khasi and Jaintia Field Force from December 1862 to May 1863; served with Bhutan Field Force from November 1864 to April 1865; present at taking of Dewangiri (medal and clasp).

MAJOR H. S. HUTCHINSON, Bengal Staff Corps, Offg. Deputy Superintendent, 4th Grade.

CADET at the Military College, Addiscombe, from January 1858 to December 1859; appointed a Lientenant in the Bengal Artillery on 9th December 1859; landed in India, 9th April 1860; served with the Artillery at Meerut, Lahore, and Peshawur up to 9th April 1865; appointed to No. 1 Light Field Battery, Punjab Irregular Force, on 10th April 1865, per G. G. O., No. 380 of 1865; served with it at Bannu and Dera Ismail Khan up to 12th August 1867; appointed as of 1865; served with it at Bannu and Dera Ismail Khan up to 12th August 1867; appointed as Probationary Assistant Superintendent of Survey in the 3rd Division, Central Provinces, on 13th August 1867, and appointed to the Staff Corps on the same date; promoted to 2nd grade Assist-ant Superintendent of Survey on 13th August 1868; sorved with the 3rd Division up to 20th May 1870; furlough to Europe on medical certificate from 21st May 1870 to 31st December 1871; promoted to local rank of Captain on 9th December 1871; served with the 4th Division, Central Provinces Survey, from 1st January 1872 to 30th September 1872; appointed to 11th Deccan Topographical Survey on 1st October 1872; promoted to substantive rank of Captain on 25th March 1873; Officiating Assistant Superintendent of Survey, 1st grade, from 1st January 1878; promoted to Major, 9th December 1879; served with Ghazipur Cadastral Survey from 1st January to 3rd April 1881. In temporary charge of the Darjeeling Survey Party from afternoon of the 8th April 1881; on duty head-quarters office, Calcutta, from 2nd to 22nd August 1881; furlough on medical certificate from 29th August 1881 to 27th October 1882; Assistant Superinfurlough on medical certificate from 29th August 1881 to 27th October 1882; Assistant Superintendent (new), 1st grade, 1st July 1882; personal allowance of Rs 100 from 1st April 1881; Officiat-ing Deputy Superintendent, 4th grade, from 29th October 1882 up to the present time; doing duty in the Head-Quarters Office, Calcutta, from 30th October to 25th November 1882; transferred to Bassein District Cadastral Survey, 26th November 1882; received charge of this Survey, 29th May 1883.

WAR SERVICES.

Nil.

MR. EDWIN CLIFFORD BARRETT, Offg. Deputy Superintendent, 4th Grade.

JOINED the Right Bank, Indus-Sind Revenue Survey, as Probationary Assistant Surveyor, 18th November 1862; Sub-Assistant, 3rd grade, 1st January 1864; transferred to Central Pro-vinces (Chanda District) Survey, 1st February 1865; passed the examination prescribed for the Senior Department, and appointed Assistant Superintendent, 2nd grade, 30th December 1868; Division, Central Provinces), 1st November 1869; transferred to the Raipur District Survey (2nd Division, Central Provinces), 1st November 1869; passed the Higher Standard Examination in Hindustani, 20th October 1871; was one of the staff of survey officers who accompanied the right column, Looshai Expeditionary Force, in 1871-72; officiated as Assistant Superintendent, 1st grade, from 30th December 1871 to 3rd March 1872; transferred to the 1st Division, Bahawalpur, from 1st June 1872; transferred to the 4th Division, North-Western Provinces, 1st October 1872; officiated as Assistant Superintendent, 1st grade, from 6th July 1873 to 4th November 1872; officiated as Assistant Superintendent, 1st grade, from oth July 1873 to 4th November 1873, and again from 1st December 1873 to 14th January 1874; transferred to the Khurda Estate Survey, Orissa, 1st November 1876; in charge of the Khurda Estate Survey, from 22nd July to 12th November 1877; Officiating Assistant Superintendent, 1st grade, from 1st April 1878; in charge of the Cuttack District Irrigation Survey from 23rd May to 28th November 1878; transferred to the 6th Division, North-West Provinces, from 1st December 1878; transferred to Ghazipur Survey, 20th July 1879, thence to Bassein Survey, British Burma, 11th November 1879; furlough to Europe, 27th August 1880 to 12th July 1882; subsidiary leave from 13th to 23rd idem : doing daty in the Head-Quarters Office, Calcutta, from 24th July to end of October 23rd idem; doing duty in the Head Quarters Office, Calcutta, from 24th July to end of October 1882; Assistant Superintendent (new), 1st grade, 1st July 1882; Officinting Deputy Superintendent, 4th grade, from 24th July 1882 up to the present time; transferred to Burma Topographical Survey, British Burma.

WAR SERVICES.

Served with the right column, Looshai Expeditionary Force, in 1871-72-(medal and clasp); and received the thanks of the Government of India.

MAJOR REGINALD BEAVAN, Bengal Staff Corps, Offg. Deputy Superintendent, 4th Grade.

APPOINTED as Ensign, 4th May 1860, General List, Infantry; 11th June 1860, arrived in India; attached for duty to 19th Foot at Benares; leave on medical certificate to Europe from 15th October 1860 till 11th October 1862 (exclusive); 1st January 1862, promoted to Lieutenant; in 1861, went through a course of instruction at the School of Musketry, obtained extra first class certificate; on return to India was attached*

• By Presidency Division Order of 4th November 1862. to 23rd Fusiliers at Fyzabad, marched with them to Agra; 27th March 1863, appointed Musketry Instructor to the 19th Hussars at Lucknow, marched with them to Meerut, held this appointment till 15th April 1865; 15th April 1865, leave on private affairs to the bills; 12th July 1865, took up the appointment of Quarter Master, 22nd Punjab Native Infantry, at Umballa; July 1805, took up the appointment of Quarter Sinster, 22nd Funjab Native Infinity, at Umballa; marched to Morar in May 1866; attended the officers' surveying class at Roorkee in the winter of 1867-68, first class certificates for surveying and field engineering; 9th September 1867, appointed to the Bengal Staff Corps; 17th July 1868, appointed to the Topographical Survey Department as Assistant Surveyor, 2nd grade (this appointment was afterwards cancelled and made probationary); joined No. 6 Party, Khasi, Garo and Naga Hills Survey at Cherrapunji 9th November 1860, promoted to Assistant Surveyor, 2nd grade; 1st May 1870, transferred to Revenue Branch and joined Hazaribagh Survey Party; 1st October 1870, transferred to Bahawulpur Party; 1st December 1870, transferred to Dera Ghazi Khan Survey; furlough (medical certificate) to England from 25th November 1871 to 22nd November 1872; joined 1st Division, Central Provinces Survey, 20th November 1872; on detached duty at Chandgurh from February to May 1873; on detached duty at Ahiri, Chanda District, during the field season of 1873.74; transferred to Dera Ismail Khan Survey, 1st October 1874; worked in Dera Ismail Khan, Bunnoo and Rawal Pindi Districts, and in the winter of 1877.78 in the Jowaki country and Kohat Pass; reduced to Assistant Superintendent, 3rd grade, 1st January 1878, by the operation of the new organization of the Survey Department; 13th May 1878, Officiating 1st grade Assistant Superintendent; 5th October, reverted to officiating 2nd grade; 27th October, reverted to 2nd grade; (third time); 27th October, officiating 1st grade; 28th November, from 17th November 1880 to 30th June 1882; Assistant Superintendent (new), 1st grade, 1st Jaly 1882; Officiating Deputy Superintendent, 4th grade, from 1st July 1882 up to the present time.

WAR SERVICES.

Attached to the Kandahar Field Force from October 1878; accompanied General Biddulph's Division to Girishk; mentioned in 2nd Division Field Force Order and by General Biddulph, dated 6th March 1879; during the winter of 1879-80 was engaged exploring the country between Quetta, Thal Chotiali and Sibi up to end of March 1880; from 27th July 1880 to the present time engaged on survey duties in the same tracts.

BREVET LIEUTENANT-COLONEL ROBERT GOSSET WOODTHORPE, Royal Engineers, Officiating Deputy Superintendent, 4th Grade.

JOINED the service, 25th June 1865; left Chatham, November 1867; employed in Works Department Manufacturing District in England till May 1869; arrived in India, 25th November 1869; joined the head-quarters, Bengal Sappers and Miners, at Chakrata, 24th December 1869; served with them till 31st May 1871; joined the Topographical Survey, No. 4 Party, 18th July 1871; transferred to No. 6 Party for service with the Lushai Expeditionary Force, October 1871; had charge of the survey party with the Garo Expedition in field scason 1872-73; accompanied Captain Badgley in the Naga Hills survey during field season 1873-74; Officiating Assistant Superintendent, 1st grade, 11th August 1873; reverted to Assistant Superintendent, 3rd grade, 1st April 1874, on amalgamation with Revenue Survey; separate charge, Naga Hills Survey Party, during field season 1874-75; re-appointed substantive Assistant Superintendent, 2nd grade, with effect from 1st April 1874; employed in Head-Quarters Office, Calcutta, as Assistant Surveyor General, in charge Lithographic Branch, from July till 31st October 1875; separate charge Naga Hills Survey, 1875-76; on death of Captain Butler, Political Agent, in January 1876, appointed Political Officer with the survey (extra allowance, Rs. 200 per mensem, for this additional work, and thanks of the Governor General in Council and Secretary of State for India); charge of North Lakhimpur Topographical Survey, 1876-77 (thanks of the Governor General in Council) ; charge North Brahmaputra Topographical Survey, 1877-78; Captain, 22nd May 1378; Officiating 1st grade Assistant Superintendent, 28th May 1878; reverted to officiating 2nd grade, 12th August 1876; transferred from No. 6 Topographical Party, September 1878; charge of survey party with the Frontier Expeditionary Field Force, Kuram Column; substantive 2nd grade, 1st January 1879; reverted to 2nd grade, 15th January 1879; furlough on private affairs for one year from 30th October 1880; promoted to rank of Brevet Major, 22nd November 1879, and to Brevet L

WAR SERVICES.

Served with the left column, Lushai Expeditionary Force, 1871-72 (frontier medal with clasp for Lushai); served with the Garo Hills Expedition in 1872-73, and with the Naga Hills Punitive Expedition in 1875 (mentioned in despatches); joined the Kuram Column, Frontier Expeditionary Field Force, 1st Afghanistan Campaign at Kohat, 25th October 1878; present at the action on the Peiwar Kotal (slightly wounded); mentioned in despatches; 2nd Campaign from 28th September 1879 to date of evacuation of Kabul; present at Alikhel, 14th October; at Killa Kaviz Mir on 10th and Charda 11th December 1879; attack of Takht-i-shah, 13th; Asmai heights, 14th, and subsequent operations till 23rd December 1879, inclusive; skirmishes at Saidabad, 25th and 26th April 1880 (very slightly wounded); thanks of Governor General in Council and Secretary of State for India; mentioned in despatches of Generals Roberts and Ross.

MR. G. H. COOKE, Officiating Deputy Superintendent, 4th Grade.

CAME to the Country in 1865; joined the Department, as Sub-Assistant, 1st class, under Major James Sconce, 6th December 1866; Assistant Revenue Surveyor, 3rd class, on 6th December 1869; and Probationary Assistant Superintendent, 1st April 1870; Assistant Superintendent, 2nd grade, 10th May 1871; worked in the Hazaribagh District Survey until October 1871; from November 1871 to May 1872, with Lushai Expeditionary Force; examination leave for three months, from 5th June 1872 to 4th September 1872; transferred to head-quarters from 5th September 1972; from 1st November 1872 special duty, Chittagong; in June 1873, transferred sick to Naini Tal, and completed the survey of the Naini Tal Cantonment on the scale of 16-inches=one mile; in November 1873 was transferred to the 9th Bilaspur District Survey, and completed the survey of Aheri Zemindari; under the re-organization of 1st April 1874, Officiating Assistant Superintendent, 3rd grade; in November 1874, commenced work in the Azimgarh District under Mr. W. Lane (Cadastral Survey); on 1st April 1876, transferred to 2nd or Goorgaon District Survey; in November 1877, to 2nd January 1876; Officiating Assistant Survey; held charge of the survey from 22nd August 1877 to 2nd January 1878; Officiating Assistant Survey from the late Captain E. W. Samuells on 12th September 1878; furlough from 22nd May 1880 to 8th June 1882; promoted to Assistant Superintendent, 2nd grade, on 14th December 1880; transferred to No. 3 Party, Meerut, &c., Districts Survey, N.-W. P., and joined, 9th June 1882; Assistant Superintendent (new), lat grade, 1st July 1882; Officiating Deputy Superintendent, 4th grade, 1st July to 31st October 1882, and from 20th April 1883 up to the present time.

WAR SERVICES.

On 1st November 1871 was deputed on special service with right column, Lushai Expeditionary Force; received a medal and thanks of the Government of India; served a second year in the Lushai country with Major Lewin, Political Officer, and connected the work done by the survey officers attached to the right and left column of the Lushai Expeditionary Force.

MR. EDWIN JAMES JACKSON, Officiating Deputy Superintendent, 4th Grade.

ARRIVED in the Country, 26th June 1864; joined the Department as Senior Sub-Assistant Revenue Surveyor, 26th September 1864; Probationary Assistant Superintendent, 1st April 1866; Assistant Superintendent, 2nd grade, 5th November 1868; sick leave from 4th July to 3rd August 1867; sick leave from 19th August to 30th November 1867; sick leave to Europe from 23rd July 1871 to 10th November 1872; in temporary charge of the 2nd Division, Revenue Survey, (Assam), 20th January to 13th February 1873, or about January 1873; special duty, defined the Naga Frontier Boundary common to District Sibsagur, from December 1873 to May 1874; Cachar Tea Grants Survey from 28th November 1874 to April 1875; relaying the old boundaries to the north-west of Faridpur, which had been washed away by the River Ganges during the past 20 years; employed on this work from February 1877 to April 1877; transferred to 5th Division Survey from 1st July 1877; on furlough from 1st May 1880 to 3rd December 1881; transferred to No. 2 Party, Hanthawaddy District, British Burma; Assistant Superintendent (new) 1st grade, 1st July 1882; Officiating Deputy Superintendent, 4th grade, afternoon of 18th November 1882; rewerted to Assistant Superintendent, 1st grade, from 6th December 1862; Officiating Deputy Superintendent, 4th grade, from 29th April 1883 up to the present time.

CAPTAIN ST. GEORGE CORBETT GORE, Royal Engineers, Officiating Deputy Superintendent, 4th Grade.

JOINED the service, 8th January 1870; arrived in India, 15th November 1872; appointed Assistant Superintendent, 2nd grade, Great Trigonometrical Survey of India, 25th March 1873; joined the Great Trigonometrical Survey at Dehra Dun on 11th April 1873; Officiating Assistant Superintendent, 1st grade, from 2nd November 1873; by consolidation scheme of 1st April 1874 became Assistant Superintendent, 3rd grade, officiating 2nd grade; reverted to 3rd grade from 28th October 1874; officiating 2nd grade from 4th January 1875; transferred to Topographical Department for work, 15th October 1875; transferred to Gazerat Party, Great Trigonometrical Survey, 5th January 1878; appointed to officiate in charge Guzerat Party, 2nd September 1878; relieved of the charge of Guzerat Party, October 1878; ordered on service to Afghanistan, 3rd January 1879; reverted to Assistant Superintendent, 3rd grade, 26th April 1879; Officiating Assistant Superintendent, 2nd grade, 16th July 1879 to 10th December 1880; furlough to Europe for two years from 11th December 1880; promoted to Castian, 18th December 1881; Assistant Superintendent (new), 2nd grade, 1st July 1882; promoted to Assistant Superintendent, 1st grade, 10th October 1882; appointed to duty at Head-Quarters, Calcutta, from 13th December 1882. Officiating Deputy Superintendent, 4th grade, from 29th May 1883 up to the present time.

WAR SERVICES.

Served with the Afghanistan Field Force, Quetta Column, from 9th Felgmary 1879 to 15th May 1880; present at the action of Ahmed Khel, near Ghuzni, and of Urzu Shabiz at Ghuzni.

MR. EDWARD C. RYALL, Assistant Superintendent, 1st Grade.

APPOINTED Apprentice Draftsman, Surveyor General's Office, Calcutta, 11th August 1854, and to the Great Trigonometrical Survey Department as 3rd class Sub-Assistant, Great Trigonometrical Survey, on 26th April 1855, and posted to bend-quarters office, Dehra Dun; subsequently, on October 1st of the same year, was attached to the Rahoon Meridional Series; on 1st October 1856, 2nd class Sub-Assistant, transferred to the Jhelum and Rawul Pindi Topographical Survey Party; served with that party up to May 1859; during the recess seasons of 1858 and 1859 of the Jhelum and Rawul Pindi Party was deputed to do field duty with the Kashmir Survey; January 1st, 1860, promoted to 1st class Sub-Assistant; transferred to the Kashmir Survey in June 1859; served with that survey up to 1st October 1864, and was then transferred to the East Calcutta Longitudinal Series; on November 1st, 1865, was posted to the Eastern Frontier Series Party; sick leave from 25th January to 7th September 1866; on return from sick leave was appointed to the Kumaon and Garhwal Topographical Party from 1st May 1867; assisted that party in the large scale surveys of Mussoorie, Ranikhet and Kosi Valley, and subsequently in the survey of the Dehra Dun District; appointed to take charge of the Kumaon and Garhwal Party in March 1875; brought the field operations of that party to a close in September 1877; was relieved of the charge of that party on 1st October 1878, and for a short time posted to Surveyor General's Field headquarters office, Dehra Dun; on the 1st January 1879 was transferred to the 3rd Division, North-Western Provinces Survey, Revenue Branch; Military service—as volunteer during the mutiny; served against the Murree rebels—(medal). Transferred to Darjeeling party, 1st September 1881.

Abstract showing the steps obtained by Mr. E. C. RYALL while in the Survey Department.

Appointed 3rd class Sub-Assistant, 26th April 1855; 2nd class Sub-Assistant, 1st October 1856; 1st class Sub-Assistant, 1st January 1860; Junior Civil 2nd Assistant, 1st July 1862; Senior Jivil 2nd Assistant, 1st January 1863; Surveyor, 2nd grade, 1st April 1869; Surveyor, 1st grade, 1st April 1871; Assistant Superintendent, 2nd grade (subsequently on 1st April 1874 designated 3rd grade), 1st April 1873; Officiating Assistant Superintendent, 2nd grade, 7th September 1879; reverted to 3rd grade on 9th October 1879; Officiating Assistant Superintendent, 2nd grade, 1st July 1882; Officiating Assistant Superintendent, 1st grade, from 1st July 1882 up to 31st January 1883. Promoted to Assistant Superintendent, 1st grade, 1st February 1883.

CAFTAIN JAMES RAMSAY HOBDAY, Bengal Staff Corps, Assistant Superintendent, 1st Grade.

ENSIGN, 2-25th King's Own Borderers, 13th January 1869-G, O. C. C., 3rd March 1869, p. 88; date of arrival in India, 31st March 1869; 2nd Wing Subaltern on probation, 30th Regiment, Bengal Infantry, 20th March 1871-G, O. C. C., 4th April 1871, p. 165; 1st Wing Subaltern on probation, 38th Regiment, Bengal Infantry, 6th May 1871-G, O. C. C., 16th May 1871, p. 242; officiated Wing Officer, 38th Regiment, Bengal Infantry, in addition to his other duties, from 21st November 1872 to 5th January 1873-G, O. C. C., 19th December 1872, p. 609, Station Staff Officer, Buxa, Bhootan, 16th March 1873 to 18th September 1874-G, O. C. C., 5th April 1873, p. 470; officiated Wing Officer, 38th Regiment, Bengal Infantry, in addition to his other duties, from 6th April 1873 to 27th June 1873-G, O. C. C., 9th July 1873; Assistant Superintendent, 3rd grade (on probation), Topographical Survey Department, 11th September 1874-Revenue, Agriculture and Commerce Department No. 538 of 11th September 1874; Assistant Superintendent, 3rd grade, Topographical Survey Department, 7th July 1875-Revenue, Agriculture and Commerce Department No. 505 of 19th July 1875, officiated Assistant Superintendent, 2nd grade, Survey of India, from 1st to 10th January 1878, 1st to 5th February 1878, 15th February to 28th April 1878, 15th January 1879 to 3rd February 1879, and from 3rd April 1881 to the present time; promoted to the rank of Captain, 13th January 1881; Assistant Superintendent (new), 2nd grade, 1st July 1882; Officiating Assistant Superintendent, 1st grade, 15th April 1883.

GENERAL LEAVE.

From 12th July 1873 to 17th November 1873-G. O. C. C., 16th August 1873, p. 330, and G. O. C. C., 23rd December 1873, p. 559.

FURLOUGH.

Two years under rules of 1868 on private affairs—G. G. O. No. 261 of 22nd March 1878; date of leaving Bombay, 29th April 1878; received telegram to join Afghan Field Force, Quetta Column, 15th December 1878; left England, 25th December 1878; arrived at Bombay, 15th January 1879; on medical certificate for one year from 1st December 1879; extended for 120 days.

WAR SERVICES.

Served with Kandahar Field Force, Southern Afghanistan, from 13th February to 31st October 1879.

LIEUTENANT THE HONOURABLE MILO GEORGE TALBOT, Royal Engineers, Assistant Superintendent, 1st Grade.

LIEUTENANT, 29th April 1873; appointed to India Establishment, 1st September 1876; arrived in India, 7th November 1876; appointed Supernumerary Assistant Superintendent, 3rd grade, Survey of India, 15th March 1880; Assistant Superintendent, 3rd grade, 24th April 1882; Officiating Assistant Superintendent, 1st grade, from 24th April to 14th May 1862; reverted to Officiating Assistant Superintendent, 2nd grade, from 15th May 1862; Assistant Superintendent (new), 2nd grade, 1st July 1862; Officiating Assistant Superintendent, 1st grade, from 1st July 1882 to 28th April 1883. Promoted to Assistant Superintendent, 1st grade, 29th April 1883. Officiating in charge No. 1 Central India and Rajputana Topographical Party from 1st May 1883 up to the present time.

WAR SERVICES.

Assistant Field Engineer, Jowaki Expedition, 1877-78; attached to 3rd Company, Bengal Sappers and Miners, 1st Afghan Campaign, November 1878 to conclusion of peace; took part in operations at Ali Masjid, 2nd Afghan Campaign, with General Roberts' Force from commencemont; present at battle of Churasia, 8th October 1879; of Lataband in December 1879; Assistant Field Engineer up to 14th March 1880; marched with the Force under Sir Frederick Roberts from Kabul to Kandahar.

LIEUTENANT FRANCIS BACON LONGE, Royal Engineers, Officiating Assistant Superintendent, 1st Grade, Survey of India.

LIEUTENANT, 2nd February 1876; appointed to India Establishment, 1st November 1878; arrived in India, 15th January 1879; appointed Supernumerary Assistant Superintendent, 3rd grade, Survey of India, 15th March 1880; Assistant Superintendent (new), 2nd grade, 1st July 1882; confirmed in the Survey Department, 13th September 1882; Officiating Assistant Superintendent, 1st grade, from 13th September 1882.

WAR SERVICES.

Assistant Field Engineer, Afghan Field Force, Kabul Division, up to 14th March 1880; marched with the force under Sir Frederick Roberts from Kabul to Kandahar.

LIEUTENANT ROBERT ALEXANDER WAHAB, R.E., Officiating Assistant Superintendent, 1st Grade.

LIEUTENANT, 29th April 1873; appointed to Indian Establishment, 1st January 1876; arrived in India, 8th March 1876; attached to Madras Sappers and Miners from March 1876 till December 1880; appointed Assistant Engineer, 1st grade, Department Public Works, Military Works Branch, January 1881; temporary Executive Engineer, 4th grade, March 1882; appointed Assistant Superintendent, 2nd grade, Survey of India, 8th January 1883; Officiating Assistant Superintendent, 1st grade, from 1st February 1883 up to the present time.

WAR SERVICES.

Served in the 1st Afghan Campaign from 9th January to 9th June 1879 as Assistant Field Engineer and Adjutant, Royal Engineers, Peshawar Valley Field Force; second Afghan Campaign, October 1879 to August 1880; as Assistant Field Engineer; Expedition against Mahsud Waziris in April and May 1881 as Assistant Field Engineer and *in charge of R. E. Park*.

MR. WILLIAM HENRY PATTERSON, Officiating Assistant Superintendent, 1st Grade.

APPOINTED Junior Sub-Assistant Revenue Surveyor 1st December 1851, and posted to the Rechnab Doab (Punjab) Revenue Survey; transferred to the Sindh Sagar Doab Revenue Survey 1st October 1855; promoted to 3rd grade, 1st October 1855; transferred to the Derajat (Trans-Indns) Survey, 1st July 1856; promoted to 2nd grade, 1st May 1857; promoted to 1st grade, 1st Jannary 1859; honorable mention in the Punjab Administration Report for 1859.60; thanks of the Lieutenant-Governor of the Punjab, and of the Government of India. Transferred to the 1st Division (Oudh) Revenue Survey, 1st October 1859; promoted to Assistant Revenue Surveyor, 3rd grade, 1st Jannary 1862; on deputation at Head Quarters Office (Drawing Branch), Calcutta, 1st September 1862; promoted to 1st grade, 1st January 1866; designation changed to Civil Assistant, 3rd grade, 1st April 1866; transferred to 2nd Division (Oudh) Revenue Survey, 18th April 1866; during 1867.68 detached to make a survey of the cantonments, civil station, and city of Cawnpore on the scale of 12 inches to the mile; and revision of the plan of the Lucknow Cantonments with additions of environs 2 miles all round, on the scale of 8 inches to the mile; promoted to Civil Assistant, 2nd grade, 1st January 1868; promoted to Surveyor, 1st grade, 1st January 1871; transferred to the 1st Division, Lower Provinces Survey (Assam), 1st March 1871; appointed to the temporary charge of the 1st Division, Lower Provinces Survey, from 24th April to 12th June 1872; doing duty at the Presidency Office, 29th January 1873; rejoined 1st Division Lower Provinces Survey in Assam in February 1873; appointed to the tomporary charge of the 1st Division Lower Provinces Survey form 25th November 1873 to 7th January 1874; appointed to the charge of the Survey of Lakhiraj holdings in Districts Darrang and Kamrup, with deputation allowance of Rs. 50 per mensem from 1st December 1874 to 18th June 1879; services recognized by the Chief Commissioner, Assam, in Land Revenue Administration Report of District Darra

LEAVE on private affairs from 1st May to 31st August 1862; leave on private affairs to Europe from 20th July 1872 to 18th January 1873; leave on private affairs to Europe from 11th July 1879 to 2nd January 1860. SPECIAL powers. Vested with powers of a Deputy Collector under Regulation IX of 1883 in Districts Kamrup, Nowgong, and Darrang, 11th January 1872; vested with powers of Deputy Collector under Act V of 1875 B. C. (Surveys) in District Cachar, 19th February 1880.

MILITARY SERVICES. As volunteer during the Mutiny of 1857-58; served against the Murree Rebels : Medal.

MR. FREDRICK WILLIAM KELLY, Officiating Assistant Superintendent, 1st Grade.

APPOINTED Junior Sub-Assistant, 4th December 1854; promoted to Sub-Assistant, 1st January 1856, in the Punjab and Sind Surveys; special leave for four months from 21st January 1858, which was overstayed from 21st May to 16th August 1858; employed as Sub-Assistant, 2nd class, in the Bhurtpur and Bundeleund Surveys, 17th August 1858; promoted to Sub-Assistant, 1st class, 1st January 1861; transferred to 2nd Division Oudh Survey, 3rd February 1861; promoted to Assistant Revenue Surveyor, 3rd class, 1st January 1864; promoted to Civil Assistant, 4th grade, 1st April 1866; transferred to Head-Quarters Office, Calcutta, 18th September 1866; promoted to Civil Assistant, 3rd grade, 1st July 1867; promoted to Surveyor, 2nd grade, 1st July 1869; in temporary charge of Midnapur Survey from 2nd March to 19th June 1876; promoted to Surveyor, 1st grade, with personal allowance of Rs. 50, 8th July 1879; promoted to 2nd grade Assistant Superintendent, 22nd February 1883; promoted to officiate as Assistant Superintendent, 1st grade, from the same date.

LIEUTENANT HUGH MILBOURNE JACKSON, Royal Engineers, Officiating Assistant Superintendent, 1st Grade.

BORN, 27th March 1858; received Commission in Royal Engineers, 19th June 1877; under instruction at the S. M. E. Chatham from 19th February 1878 to December 1879; served in the 7th Field Company, Royal Engineers (Chatham), from 20th March 1880 to 1st December 1880; transferred to the Indian Establishment, 1st February 1881; served with the Bengal Sappers and Miners at Rurki, Calcutta, in the Naga Hills and at Rawal Pindi, from May 1st, 1881, to June 7th, 1883; appointed to Department of Survey of India as Assistant Superintendent, 2nd grade, with effect from the 11th June 1883, and to officiate as Assistant Superintendent, 1st grade, from the same date.

WAR SERVICES.

Nil.

Statements of Services of Geological Survey Officers.

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Corrected up to 1st July 1883.

MR. HENRY BENEDICT MEDLICOTT, M.A., F.R.S., F.G.S.

ENGAGED by Dr. Oldham from the Geological Survey of Great Britain; joined appointment in India on 24th March 1854; in August 1854 appointed by Court of Directors as Professor of Geology, Roorkee College; re-attached to Geological Survey for the field season; 1854-55, Narbada Valley; 1855-56, Sub-Himalayas; 1856-57, Bundelkhaud; 1857 to 1862, Sub-Himalayas; in October 1862 left Roorkee and rejoined the Geological Survey as Deputy Superintendent for Bengal; 1802-63, South Rewah; 1863-64, Behar; 1864-65, Assam; officiated as Superintendent from 21st August 1864 to 13th November 1864; leave on private affairs from 10th May to 9th November 1855; 1865-66, Central India and Rajputana; 1866-67, Chota Nagpur, Chhattisgarh, Sumbalpur; placed in the 1st grade on the introduction of grading in May 1866; 1867-68, Garo Hills; 1868-69, Hazaribagh, Sirgujab, Sobagpur, Chanda, Mohpani; 1869-70, Satpuras; 1870-71, Bundelkhand, Narbada Valley; officiated as Superintendent from 20th July to 5th September 1870; sick leave, 13th June to 2nd December 1871; 1871 to 1873, Satpuras; officiated as Superintendent from 10th July 1873 to 15th December 1874; 1873-74, Garo Hills; 1874-75, Betul coal-field. Nimar, Nepal; 1875-76, Nimar, Jamu Hills; appointed Superintendent on 1st April 1876; 1876-77, Mohpani and Satpura coal-borings; 1877-78, Reh Committee, and Nahan; 1878-79, Office, Calcutta; 1879-80, Office, Calcutta; 1830-81, Nahan, and Office, Calcutta; 1881-82-83, Office, Calcutta; 1879-80, Office, Calcutta; 1830-81, Nahan, and Office, Calcutta; 1881-82-83,

MR. WILLIAM KING, D.Sc.

ENGAGED in England by Dr. Oldham, and joined appointment as Assistant on the Geological Survey on 4th March 1857; in May 1858 attached to Madras Party in the Nilgiri Hills and South Arcot; 1859, Trichinopoly and Tanjore; 1860, Salem and Coimbatore; 1861, Kadapah District; 1862, North Arcot, Kadapah and Nellore, arranged the rock collections in the Madras Central Museum; 1863, Madras, North Arcot and Nellore, delivered three public lectures at Nellore on the Geology of the District; 1864, Kadapah, Bellary and Karnul Districts, delivered a course of lectures on Geology at the Civil Engineering College, Madras; 1864-65, Kadapah, Karnul and Raichur Doab; 1865-66, Kadapah and Karnul Districts; placed in the 2nd grade on the introduction of grading in May 1866; 1866-67, Bellary District; 1867, 1868 and 1869, Kadapah and Kistna Districts; appointed Deputy Superintendent for Madras, 15th November 1868; furlough leave from 17th September 1869 to 16th December 1870; 1870-71, Raichur Doab and Bhima Valley; officiated in the 1st grade from 13th June to 3rd December 1871; 1871-72, Godavari District and Nizam's Territories; discovered Singareni coal-field; 1872-73, Godavari and Nizagapatam Districts; deputed to Vienna in joint charge of the survey collections at the Exhibition; officiated in the 1st grade from 19th September 1872 to 20th April 1875; 1873-74, Godavari and Kistna Districts; 1874-75, Wynaad gold-field and Godavari District; promoted to 1st grade on 21st April 1875; 1875, 1876, 1877, 1878 and 1879, Godavari and Sironcha Districts and Nizam's Dominions, also the Wynaad gold-fields; 1880-81, Malabar Coast; furlough from 10th May 1881 to 9th July 1883.

MR. ROBERT BRUCE FOOTE, F.G.S.

ENGAGED in England for the Geological Survey; joined as Assistant on the 28th September 1858, deputed to Madras; 1859, in Trichinopoly, South Arcot and Tanjore; 1860 and 1861, in Salem, Trichinopoly and South Arcot; delivered a course of public lectures on Geology at the Civil Engineering College, Madras; 1862, in Salem, Coimbatore, South Arcot and Chingleput; delivered a course of public lectures on Geology in the Civil Engineering College, Madras; 1863, North Arcot, Salem, Chingleput, arranged the palæontological collections in the Madras Museum; 1864, in Chingleput and North Arcot; 1865, in Kadapah, Karnul, Nizam's Territory; 1866, in Karnul, Nellore; placed in the 2nd grade on the introduction of grading in May 1866; 1867, in Nellore, Karnul, Kistna; leave on medical certificate from 29th May 1867 to 22nd October 1868; 1868-69, in Kistna District and Nizam's Territories; 1869-70, in Bellary, Nizam's Territories, Kaladgi; 1870-71, in Bellary, Nizam's Territories; 1869-70, in Bellary, Nizam's Territorios, Kaladgi, Belgaum, Ratnagiri, Kolhapur; 1872-73, in Belgaum; 1871-72, in Nizam's Territorios, Kaladgi, Belgaum, Ratnagiri, Kolhapur; 1872-73, in Belgaum; 1871-72, in Nizam's Territorios, Kaladgi, Belgaum, Ratnagiri, Kolhapur; 1872-74, in Kaladgi, Belgaum, Kolhapur, Dharwar; examined the Dambal gold region; 1874-75, in Nellore; 1877, 1878 and 1879, in Nellore and Kistna; promoted to the lst grade on 1st April 1876; 1877, 1878 and 1879, Trichinopoly, Tanjore, Pudukotta, Madura; furlough from 13th May 1879 to 6th December 1880; Madura, Tinnevelly, 1880-81; officiated as Deputy Superintendent from 7th December 1880 to 13th June 1881; appointed Deputy Superintendent from 14th June 1881; Tinnevelly, 1881-82; held charge of the current dutics of the Office of the Superintendent, Geological Survey, from 23rd July to 22nd October 1882; 1882-83, Madura.

MR. FREDERICK RICHARD MALLET, F.G.S.

ENGAGED by Dr. Oldham in England; joined the Geological Survey as Assistant on the 12th February 1859, and took up work in the Raniganj coal-field; 1859-60, in the Khargpur Hills; in July 1860 made a trip to Tibet by Niti; 1860-61, Upper Sone Valley; in July 1861 made an excursion in Spiti; 1861-62, on the Upper Vindhyans in Bundelkhand and Rewah; 1862-63, on the Vindhyans in Mirzapur and Shahabad Districts; 1863-64, on the Vindhyans between Rewah and Saugor; June to September 1864, worked with Dr. Stolickza in Spiti and Rupshu; 1864-65, worked the Vindhyan boundary from Jabalpur to Barwai; from 10th May to 9th November 1865, officiated as Deputy Superintendent in Bengal; 1865-66, on the Vindhyan and crystalline rocks between Chunar and Tchri in Bundelkhand; 1866-67, through Bhurtpur, Alwar, Bundi and Guna to the Saugor District; 1867-68, the gneiss of Lower Bundelkhand; 1868-69, on the crystalline and transition rocks in the Mirzapur District; passed in the vernacular on 5th October 1868; on furlough for one year from 13th September 1869, with an extension on duty for three months and nine days to 21st December 1870; on his return journey stopped at Aden to report on the prospects of an artesian boring; 1871-72, in South Mirzapur and Rewah; officiated in the 2nd grade from 13th June to 3rd December 1871; officiated for three months as Curator of the Museum; during the recess seasons of 1871 and 1872, arranged and catalogued a large part of the mineral collections; promoted to the 2nd grade on 1st May 1872; 1872-73, on the crystalline and transition rocks of Northern Hazaribagh; recalled to arrange the mineral collection for the Vienna Exhibition; 1873-74, in the Sikkim Himalayas and Bhutan Duars; 1874, 1875 and 1876; since 12th October 1875 has acted as keeper of the mineral collections, the systematic description of which involves much work in the laboratory; early in 1878 examined and reported on some coal and petroleum localities in Ramri, Cheduba and Baronga Islands; leave on medical certificate from 25th July 1879 to 22nd October 1860; 1880-81, Museum; officiated in the 1st grade from 23rd October 1880 to 24th January 1883; examined and reported on a new copper mine in British S

MR. THEODORE WILLIAM HUGHES HUGHES, A.R.S.M., G.S.S.

APPOINTED in England by the Secretary of State on 16th October 1862, joined the Survey as Assistant on the 11th November 1862; 1862; 1862-63, in the Sone Valley; 1863-64, the Jherria coal-field; 1864-65, the Bokaro coal-field; 1865, 1866, 1867 and 1868, the Káranpura, Deogarh, Kar-harbári, Ithkuri and Daltonganj coal-fields; 1868, 1869, 1870 and 1871, the Wardha Valley coal-fields; passed in the vernacular on the 3rd August 1868; reported for Government, North-Western Provinces, on roofing slates for barracks, Ranikhet, 1869; accompanied Governor General (Lord Mayo) during tour of Wardha Valley coal-field and opening of Mayo colliery, March 1870; reported for Government, Central Provinces, on lead ore at Sleemanabad, June 1870; pointed out over 20 sites for bore holes in the districts of Chanda and Wún—coal proved in all; also assisted officers of His Highness the Nizam to select positions; leave on medical certificate from 1st July 1871 to 8th November 1872; 1872-73, Bandar and Wardha coal-fields; on special duty with Mr. Banerman, visiting the iron deposits of Central Provinces; officiated as Deputy Superintendent from 9th November 1872 to 17th December 1874; in July to September 1873 made a trip in Tibet by Niti and Milam; in October 1873 reported on the Kumaon iron ores; in November 1873 reported for the Bengal Iron Company on the Raniganj Field; 1873-74, Wardha Valley coal-field; recommended and indicated sites for borings in the Bandar Field which proved coal; received thanks of Government, Central Provinces; reported for Messrs. Apcar and Company on boring sites in the Raniganj Field, also for Messrs. Burn and Company on the Birbhum iron ores; 1874-75, the Pranhita and Jangaon Valleys, and the Wún coal-fields; 1873-74-75, indicated more bore sites in Wún District; promoted to the 2nd grade from 21st April 1875; 1875-76, the Godavari Valley; visited the Mohpani coal-field, and the trial borings for coal at Kháppá and Moran River; accompanied the Superintendent, during his observations of underground temperature; 1876-77, completed survey of the Kota-Maleri area; recommended borings for coal at Sandrapali,-Godavari River; reported for Bengal Coal Company on supposed occurrence of coal south of Karharbari Field; leave on furlough from 1st November 1877 to 14th October 1879; officiated in the 1st grade from 15th October 1879 to 6th December 1880; officiated as Deputy Superintendent for Bombay from 3rd April to 6th December 1880; 1879-80, 1880-81, 1881-82-83, South Rewah coalfields; again visited Mohpani coal-field, and inspected new sinking, Angust 1880; officiated in the Ist grade and as Deputy Superintendent from 17th March 1881 to 7th June 1882; urged borings for coal at Umaria-Khalesar, and in valley of Johilla River, pointed out sites which proved coal over large area, January 1882; reported for Government, Central Provinces, on coal outcrops in Mohamatic Libeland District Mon 1999. Mahanadi, Jabalpur District, May 1882; loave on furlough from 8th June 1882 to 22nd February 1883; officiated in 1st grade from 23rd February 1883 to 10th April 1883; officiated as Deputy Superintendent from 23rd February 1883 to 10th May 1883; promoted to 1st grade on 11th April 1883.

MR. FRANCIS FEDDEN, A.R.S.M., F.G.S.

ENGAGED in England by Dr. Oldham; joined the Survey as Assistant on the 1st October 1860; deputed to Burma; employed there until 1864; attached to the Salween surveying expedition in 1864.65; surveyed parts of Maunbhum and Hazaribagh in 1865.66; transferred to Central Provinces in 1866.67; on private affairs leave from 4th May to 5th December 1867; engaged in the survey of Cutch in 1867, 1868 and 1869; passed in the vernacular on 26th October 1869; surveyed parts of Central Provinces, East Berar, and the Nizam's Territories in 1869, 1870, 1871 and 1872; leave on medical certificate from 26th May 1872 to 22nd January 1874; officiated in the 2nd grade from 16th July 1873 to 17th December 1874; resumed work in the Wardha coal-fields, 1874; transferred to the survey of Sind, 1874, 1875, 1876 and 1877; officiated in the 2nd grade from 29th March 1875 to 24th October 1876; transferred to survey of Kattywar, 1877-78; efficiated in the 2nd grade from 1st November 1877 to 23rd March 1878; promoted to 2nd grade on 24th March 1878; leave on furlough from 7th June to 20th November 1878; resumed work in Kattywar, 1878-79; officiated as Curator from 25th July 1879 to 22nd October 1880; officiated in the 1st grade from the 22nd August to the 14th October 1879, and from 3rd April to 15th October 1880; 1880-81, 1881-82-83, Kattywar; officiated in the 1st grade from 8th June 1882 to 22nd February 1883, and from 28th March 1883 to 10th May 1883.

MR. CHARLES AUGUSTUS HACKET.

ENGAGED in England by Dr. Oldham; joined the Geological Survey as Assistant on the 15th November 1861; 1861, 1862, and 1863, in the Sone Valley; 1864, 1865, 1866, and 1867, on the Vindhyans in Central India; 1867, 1868, and 1869, on the Vindhyans and Arvalis between Bhartpur and Neemuch; passed in the vernacular on 5th October 1868; 1869, 1870, 1871, and 1872, on the Transition and Gondwana Rocks in Jabalpur and South Rewah; 1872-73, Narsingpur and Hoshungabad; officiated in the 2nd grade from 3rd June 1873 to 15th December 1874; 1873-74, Rajputana; leave on furlough and medical certificate from 3rd August 1874 to 1st November 1875; 1875, 1876, 1877, 1878, and 1879, the Arvalis in Rajputana and Punjab; officiated in the 2nd grade from 16th March to 26th April 1876, and from 24th March 1878 to 13th June 1881; 1880-81, Rajputana, towards Neemuch and Oodeypore; promoted to 2nd grade from 14th June 1881; 1881-82, Rajputana; leave on furlough from 20th November 1882.

MR. CARL LUDOLF GRIESBACH, F.G.S.

APPOINTED by the Secretary of State in England on 26th September 1878; joined as 3rd grade Assistant on 11th November 1878; took up the survey of the South Rewah coal-fields in November 1878; 1879, Himalaya; 1880, deputed to Afglanistan to report on gold at Kandahar and petroleum at Sibi; passed in the vernacular on 15th September 1880; officiated in the 2nd grade from 13th March to 7th November 1880; officiated in the 2nd grade from 17th March 1881 to 24th January 1883; 1881, Kumaun, Himalayas, and Europe on duty; 1882-83, Garhwal and Himalayas; promoted to 2nd grade on 25th January 1883.

WAR SERVICES.

On 6th March 1880 was deputed on special service under the orders of the General Commanding Southern Afghanistan; was present at the action of Girishk, 14th July, and the battle of Maiwand, 27th July; attached as Lieutenant to the 66th Regiment, Kandahar Field Force, Order No. 271, dated 29th July 1880, and was present throughout the siege of Kandahar and the battle of Kandahar, 1st September 1880; favourably mentioned in despatches; received the acknowledgments of the Government of India—medal and clasp.

MR. RICHARD DIXON OLDHAM, A.R.S.M.

APPOINTED in Europe by the Secretary of State on 6th November 1879; joined as 3rd grade Assistant on 17th December 1879; took up work in the Godavari Valley; 1880-81, Jaunsar and Sirmur and Manipar; passed in the vernacular on 1st August 1881; 1681-82, Manipur; officiated in 2nd grade from 14th June 1881 to 10th April 1883; 1882-83, Jaunsar; promoted to 2nd grade on 11th April 1883.

MR. PRAMATHA NATH BOSE, D.Sc. (Lond.), F.G.S.

APPOINTED in Europe by the Secretary of State on 13th May 1880; joined as 3rd grade Assistant on 30th July 1880; 1880-81, 1881-82, 1882-83, Lower Narbada Valley; officiated in 2nd grade from 2nd March 1882.

MR. THOMAS HENRY DIGUES LATOUCHE, B.A. (Camb.)

APPOINTED in Europe by the Secretary of State on 11th October 1831; joined in India as 3rd grade Assistant on 29th November 1881; 1881-82, Gavo Hills; passed in the Vernacular on 5th June 1882; officiated in 2nd grade from 8th June 1882; 1882-83, Assam.

MR. OTTOKAR FEISTMANTEL, M.D.

APPOINTED in Europe by the Secretary of State on 5th November 1874; joined in India as 3rd grade Assistant on 25th March 1875; took up work on the plant fossils of the Gondwana formation, upon which he has been principally engaged till now; passed in the vernacular on 4th October 1875; appointed Paleontologist on 10th March 1877; in 1875, 1876, and 1877, made short excursions to the Rajmahal Hills, the Karharbari, Raniganj, and the Satpura coal-fields; 1878, 1879, Office and Karlarbari coal-field; 1880-81, Office and Hazaribagh, Lohardugga and Maunbhum; 1881-82, Office and South Rewab; officiated in 1st grade from 25th April 1882 to 27th March 1883; leave on furlough from 28th March 1883.

MR. JULES SCHAUMBURG.

JOINED the Survey as Chief Draughtsman on 12th April 1869; gazetted as Artist on 7th July 1874; officiated as Principal, Government School of Arts, Calcutta, from 5th June 1882.

MR. WILLIAM ROBERT BION.

JOINED the Survey as Librarian on 12th December 1870; appointed Head Clerk as well as Librarian on 1st August 1873; appointed Registrar on 31st December 1878.

LALA KISHEN SINGH.

JOINED the Survey as an Apprentice on 7th January 1874; 1874-1876, Museum, Calcutta; 1876-77, 1877-78, and 1878-79, Sub-Himalaya; appointed Sub-Assistant on 1st April 1879; 1879-80, Punjab; 1880-81 to 1882-83, Gwalior.

LALA HIRA LAL.

JOINED the Survey as an Apprentice on 7th January 1874; 1874 to 1876, Museum; 1876-77, Sind; 1877-78, Satpura and Museum; 1878-79, Museum and Sirgujah; appointed Sub-Assistant on 1st April 1879; 1879-80, Museum; 1880-81 to 1882-83, Museum and South Rewah.

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