LIST OF OFFICERS

IN THE

SURVEY DEPARTMENTS

COBRECTED TO

1st JULY 1885.

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List of Officers of the Senior Division, Survey of

No. sanctioned.	No. existing in	Names of Officers.	Branch to which originally posted.	Passed in Vernacular.	Age.	Date of appointment to the Department.	Date of promotion to the present grade.	*Period of service counting towards pension on lst July'85.
		ADMINISTRATIVE STAFF.			Y. M. D.			Y. M. D.
1	1	Bt. Col. G. C. DePrée, s.c	Topogl.	Р. С. Н.	52 10 28	Oct. 20, 1854	Jan. 12, 1884	
1	1	Bt. LtCol. H. R. Thuillier, R.E.	G. T. S.	Р. Н.	47 3 5	May 21, 1859	Oct. 1, 1884	
1	1	Bt. Col. J. Sconce, s.c	Rev.	Р. Н.	49 2 29		_,	
		Bt. Col. C. T. Haig, R.E.	G. T. S.	Not passed	50 8 20	Oct. 21, 1859	Jan. 1, 1879	* • •
	1	Major C. Strahan, R.E.	Topogl.	Not passed	42 1 25	Sep. 22, 1859	Nov. 1, 1883	
1	2	LtCol. J. Waterhouse, s.c.	Topogl.	P. H.	42 1 25	Sep. 26, 1863	Jan. 10, 1884	
	3	Major M. W. Rogers, R.B.	G. T. S.	L. S.	43 4 26	July 23, 1866	Jan. 10, 1884	
			0. 1	J. 5.	40 41 40	July 30, 1866	Aug. 7, 1884	
1		SENIOR DIVISION.						
		DEPUTY SUPERINTENDENTS.						
3		1st Grade.						
- 1	1	Bt. Col. C. T. Haig R.E						
	2	Bt. LtCol. J. Herschel, R.E., F.R.S.	G. T. S.	Р. Н.	47 8 1	Nov. 12, 1859	Jan. 12, 1884	
	3	Major G. Strahan, R.E	Topogl.	Р. Н.	1		Nov. 10, 1884	
8		2nd Grade.		ŀ				
	1	Major T. T. Carter, R.E	G. T. S.	Р. Н.	47 4-22	March 1, 1862	Oct. 1, 1871 }	
	2	Bt. Col. D. Macdonald, s.c	Rev.	Р. Н.	49 6 21	_	Jan. 1, 1878)	
	3	LtCol. F. Coddington, s.c	Rev.	Р. Н.	47 1 10		Oct. 27, 1878	
	4	Major C. Strahan, R.E						.
1	5	LtCol. W. Barron, s.c	Rev.	Р. Н.	47 5 15	June 27, 1862	Aug. 7, 1884	
	6	Bt. Col. H. C. B. Tanner, Bombay s.c.	Rev.	Р. Н.	49 11 15	Oct. 10, 1862	Oct. 1, 1884	
1	7	Major W. J. Heaviside, B. B.	G. T. S.	Р. Н.	44 8 27	March 1, 1866	Nov. 10, 1884	
	8	LtCol. A. Pullan, s.c	G. T. S.	Р. Н.	49 3 0	Jan. 18, 1863	Nov. 28, 1884	
10		3nd Grade.						
}	1	Major D. C. Andrew, s.c	Rev.	Р. Н.	44 3 13	Dec. 30, 1862	Jan. 1, 1878	
1	- i	LtCol. W. H. Wilkins, s.c.	Rev.	Р. Н.	43 8 25	April 27, 1863	Oct. 27, 1878	
	3	Major J. E. Sandeman, s.c	Rev.	Р. н.	41 9 29	Oct. 6, 1864 J	Jan. 1, 1879	
}	4	I.tCol. W. F. Badgley, s.c	Topogl.	Р. Н.	47 7 21	May 3, 1865 I	Dec. 14, 1880	
}	- 1	Major T. H. Holdich, B.E	Topogl.	L. S.	42 4 16	July 23, 1866	April 29, 1883	
	6	LtCol. J. Waterhouse, s.c				• • • •		· · ·
	7	Major M. W. Rogers, B.E						
	8	" J. Hill, R.E	G. T. S.	Not passed	44 6 7	Dec. 18, 1866	Oct. 1, 1884	
	9	Mr. H. Horst	Topogl.	Not passed		·	Vov. 10, 1894	27 1 27
	10	" W. H. Cole, M.A	G. T. S.	н. s.	47 6 16	Jan. 3, 1867A Sep. 1, 1867B	Nov.29, 1884	17 5 29
1	- 1	1						

India Department, as it stood on 1st July 1885.

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No. existing in each grade.	Consolidated Salary.	Extra allowances, if any.	Survey Party or Office to which at present attached.	Remarks.
	R a. p.			
1	3,000 0 0		Surveyor General of India.	
1	2,200 0 0		Deputy Surveyor General in charge, Revenue Survey	
1			Branch. On furlough	For 2 years, from 14th March 1884.
1			Dehra Dun	Officiating Deputy Surveyor General, in charge Trigonometrical Survey
	2,000 0 0		. Assistant Surveyor General .	Branch and Onces.
1	1,600 0 0	(a) Presidency, R60	Ditto	Officiating Deputy Superintendent, Inc. Cartographic Offices, Head Quarters, Calcutta. Officiating Deputy Superintendent, 2nd Grade. In charge Lithographic and Photographic Offices, Head Quarters, Calcutta.
2	1,300 0 0	(b) Special local, #200	Ditto	and Protographic Omers, Acta Carde. In charge Mathematical Instrument Office and Correspondence Office, Head Quarters, Calcutta.
3	1,182 10 0	(a) Presidency, R60	Ditto	Office and Correspondence Omee, Head Quarters, Outcome,
1 2 3			Dehra Dun . On duty, Europe. On furlough .	Officialing Deputy Surveyor General, in charge Trigonometrical Survey Branch and Offices. For 1 year, from 7th May 1984. Extension for 6 mos.
				Com (II) December 1984
	1		On furlough	For 1 year, from 6th December 1884.
	2		Ditto	For 2 years, from 7th March 1884.
	3 1,600 0	0	In charge Punjab Travers and Riverain Survey, Simla. Head Quarters, Calcutta.	Officiating Deputy Superintendont, 1st Grade. Ditto ditto. Assistant Surveyor General.
	5		On furlough	For 2 years, from 9th November 1893.
	6 1,300 0	0	In charge Himalaya Topog	A.
	7 1,482 10	0	Survey, Mussoorie. In charge Nos. 1 and 2 Astronomical Parties, Poona.	0-
	8 1,300 0	0	In charge Cutch Survey, Poor	na.
	1,000			
			In charge Deccan Topograph	officialing Deputy Superintendent, 2nd Grade.
	1 1,300 0	O Co Presidence RGO	cal Survey, Poona.	. Ditto ditto.
	2 1,300 0	0 (a) Presidency, R60	In charge Gorakhpur Distri	ict Dillo dilto.
	3 1,300 0	0	(Cadastral) Survey, Naini I In charge Guzerat Topograph	fal. di- Ditto ditto.
	4 1,300 0	0	cal Survey, Poona. Alghan Boundary Commission	
	5 1,482 10	0	Head Quarters, Calcutta .	. Ditto ditto. Assistant Surveyor General
	6		Dilto	· Assistant Surveyor General.
	7		In charge South Marat	ha
	8 1,182 10	1	Topographical Survey, Pool In charge Burma Topo	ona.
	9 1,000 0	_	Survey, Rangoon. In charge Computing Par	reckoned under new rules.
	ll.			23. dated 14th May 1876.

(a) Department of Agriculture, Revenue and Commerce Memorandum No. 213, dated 14th May 1878.

Ditto
(d) Department of Revenue and Agriculture, No. 171, dated 6thMay 1880.

					7			the Senior	Division
No. sanctioned	No. existing	= -	Branch t which originally posted.	Passed	Age	~	Date of appointment to the Department.	Date of promotion to the present grade	*Period of service counting towards pension on lst July '85
11		SENIOR DIVISION—concid. DEPUTY SUPERINTENDENTS-concid.			Y. M.	D.			Y. M. D.
	1	4TH GBADE. Mr. H. B. Talbot	Rev.	L. S.	54 8	5 A ₁	oril 1, 1866	July 1, 1862	36 7 0
	2	Major A. W. Baird, B.E., F.R.S., A.I.C.E.	G. T. S.	Р. Н.	42 8	5 De	c. 4, 1868	July 1, 1882	
	3	., J. R. McCullagh, R.E.	G. T. S.	L. S.	43 3	5 Fe	b. 12, 1869	,,	
	4	LtCol. J. R. Wilmer, s.c.	Topogl.	H. S.	44 5		g. 24, 1869	July 1, 1882	1 '1
	5	Mr. J. McGill .	G. T. S.	Not passed	54 8	1	g. 24, 1869 rch 1, 1871	July 1, 1882	' '
	6	Major S. H. Cowan, s.c.	Rev.	Р. Н.	43 9		. 19, 1867	Feb. 1, 1883	VI
	7	"E. H. Steel, s.c.	Rev.	н. s.	41 1 2	- 1		April 29, 1883 Jan. 10, 1884	1 ' '
	8	" H. S. Hutchinson, s.c.	Rev.	Р. Н.	45 2 2	20 Aug	g. 13, 1867	Aug. 7, 1884	
	9	Mr. E. C. Barrett	Rev.	H. S.	42 2 1	6 Dec	. 30, 1868	Oct. 1, 1884	20 6 11
	10	Major R. Beavan, s.c	Rev.	Р. Н.	41 9 1	1 July	17, 1868	Nov. 10, 1884	
	11	Bt. Col. R. G. Woodthorpe, B.E.	Topogl.	1 _	40 9	1	i	Nov. 28, 1884	
11		ASSISTANT SUPERINTENDENTS. 1st Grade.				0 0,		20, 1004	• • •
	1	Mr. G. H. Cooke	Rev.	L. s.	40 7	1 Apri	1 1, 1870	July 1, 1882	16 6 15
	2	" E. J. Jackson	Rev.	Н. S.	41 6 (Nov.	5, 1868	July 1, 1882	16 2 26
	3	Capt. St. G. C. Gore, B.E.	G. T. S.	Not passed	36 4 6	3 Apri	1 11, 1873	Oct. 10, 1882	
- }	4	" J. R. Hobday, s.c	Topogl.	H. S. 5	84 11 16	Sep.	11, 1874	April 15, 1883	
1	5	Mr. E. C. Ryall	G. T. S.	Not passed 4	7 5 15	A pril	1, 1873	Feb. 1, 1883	30 1 10
-	6	Capt. the Hon'ble M. G. Talbot, B.E.	+	H. S. 3	0 9 17	Marc	h 15, 1880	April 29, 1883	.
	7	Lieut. F. B. Longe, R.E.	†	l	8 8 2			Jan. 10, 1384	
	8	Capt. R. A. Wahab, R.E.		ие .					
	- 1	Mr. W. H. Patterson	† Rev.		0218 696	1	į.	Aug. 7, 1884 Oct. 1, 1884	23 5 15
	10	" F. W. Kelly	Rev.		1 10 5			,	90 0 OA
ا ۔	11	ieut. H. M. Jackson, R.E.	t	H. S. 2	7 3 5	June	11, 1883 N	ov. 28, 1884	
	- 1	ieut. W. H. Pollen, B.E.	+	L. S. 25	5 8 20	Annil	26, 1884 A	pril 26, 1894	
	2	" G. B. Hodgson, s.c.	'		3 8 20 3 8 4	1		рги 26, 1884	
	3	" S. G. Burrard, R.E.	+		1019	Sep.	1	р. 2, 1884	
	4	Ir. A. D'Souza			10 15	Oct.		1	24 7 15в
	5	, G. B. Scott	Rev.	H. S. 40	11 1	Nov.	10, 1884 N	ov. 10, 1884	22 2 0
	6	, J. Eccles, M.A.	+		9 23	Мау		ay 30, 1885	0 1 2

J									
No. existing in each grade.	Con	solidate alary.	d	Extr	a allowances, if any.	Surv	rey Party or Office to whi at present attached.	ich	Remades.
	R	a. 1		(a) '	Burma, R 200 .	In	charge Akyab District ((ciating Deputy Superintendent, 2rd Grade. Joined the Junior Division, 1st December 1849.
1	1,00	JU U	İ			da	istral) Survey, British Bur keab	ma,	ciating Deputy Superintendent, 3rd Grade.
2	1,18	32 10	0	(b) ·	Deputation, R100 .	0	charge Tidal and Leveli perations, India, Burr eylon, &c., Poona.		
9	1,18	32 10	0			In S	charge Mysore Topo	-	Dieto
4	1,10	0 0	0	(c)	Inclusive of person- al, R100.	In S	charge Mirzapur Topo urvey, Mussoorie. furlough	For	r 1 year 11 months and 10 days, from 7th November 1893. Joined
5				(3)	Ditto, R100	1	charge Basti District (Cad		the Junior Division, 18: October 1997. July 1870. Service reckoned under new rules. Icinting Deputy Superiutendent, 3rd Grad e.
6	1,1		0	(c) (c)	Ditto, R100	In	charge Ajmere District T	Fra-	Ditto dilto.
8		50 0			Burma, R200 and (c) inclusive of person al. R100.	ii v In (ng detached parties work n NW. P. and Central I inces, Mussoorie. charge Henzada Dist Cadastral) Survey, Bri Burna Rangoon.	Pro- trict itish	sined the Junior Division, 18th November 1862. Furlough for 2 years,
10) ;	950 0 950 0 990 0		(c)	Inclusive of person al, R100.	. In	charge Kamrup Dist Cadastral) Survey, Ass Shillong. charge Rajputana Topo phical Survey, Mussoorie, a special duty.	sam, ogra-	sined the Junior Division, 18th November 1892. Sick leave for 1 month, from from 27th August 1890 to 12th July 1892. Sick leave for 1 month, from 20th June 1869.
-	1 2	850 0 850 0		i		. 1	easti District (Cadastral) vey, Naini Tal. n charge Shwegyin Di Survey, British Burma, goon.	Strict Ran-	Officiating Deputy Superintendent, 4th Grade. Joined the Junior Division, 6th December 1866. Furlough for 2 years, from 22nd May 1880; extension for 12 days without pay. Difficiating Deputy Superintendent, 4th Grade. Joined the Junior Division, 26th September 1863. Sick leave from 4th July to 3rd August and from 19th August to 30th November 1867. Europe, medical certificate. from 23rd July 1871 to 10th November 1873. Farlough to Europe from 1st May 1880 to 3rd December 1881. Officiating Deputy Superintendent, 4th Grade.
	3	990 () ()		- 1	Afghan Boundary Commis n charge Andaman Top	- 1	Ditto ditto.
	5	850 (600 (0 (0		- 1	phical Survey, Mussoorie Simla Hill States Survey	e] J	Joined the Junior Division, 25th April 1865. Two hundred and twenty- five days' sick leave included under old rules. Sick leave for 20 days, from 10th December 1883, excluded.
	6	990	0	0		1.	Afghan Boundary Commis	ssion .	Officiating Deputy Superintendent, 4th Grade.
	7	920	0	0			Fidal and Leveling Opers India, Burma, Ceylon,	ntions, &c.,	Ditto ditto.
	8	990	0	0 0	(c) Baluchistan, R100		Poona. In charge Baluchistan Top	pogra-	Ditto ditto.
	9		0	0			phical Survey, Mussoor In charge Malwa Topogra Survey, Poona.	- 1	Officiating Deputy Superintendent, 4th Grado. Joined the Junior Division, 1st December 1851. Leave on private affairs from 1st May to 31st August 1892. Dilto to Europe from 20th July 1872 to 18th January 1873, and from 1tth July 1870 to 2nd January 1880.
	10	850	0	0	(a) Burma, R200		Akyab District (Cadustra vey, British Burma, Ab	ıl) Sur- kyab.	Officiating Denuty Superintendent, 4th Grade. Joined the Junior Division, 4th December 1854. (A) Service recknored under old rules. Special leave for 4 months, from 21st January 1858, which was overstoped from 21st May to 10th August 1858. Commencement of second service, 37th August 1866.
	11	670	0	0		.	Head Quarters, Simla.		
	1	670	0	0			Rajputana Topographic	al Sur-	Officiating Assistant Superintendent, 1st Grade.
	2	600	0	0			Guzerat Topogl. Survey,		Dilto ditto.
	3	670	0	0			Trigl. Branch Office, Del		Toined the Innier Divi
	4	600	0	0	(f) Charge R100		In charge Coast Triang Survey, Mussoorie.	gulation	leave on medical cortificate, and 33 days preparatory leave under new
	5	600		0	(g) Presidency, RI	00 -	On duty with Inte Branch, Quartermaster ral's Department. Head Quarters, Calcutte	r Gene-	Officiating Assistant Superintendent, lat Grade. Joined the Junior Divi-
	0	000			(y) Fresidency, ici		<u> </u>	tod 15th At	Dril 1842.

Applies only to officers who are under the Uncovenanted Service Rules.
 Joined the Department after the amplicamation on the lat January 1978.

⁽a) Department of Finance and Commerce, No. 256, dated 15th April 1882.
(b) Department of Royenue and Agriculture, No. 2118., dated tht January 1884.
(c) Ditto dilto No. 3938., dated tht January 1882.
(d) Ditto dilto No. 77, 3, dated 15th September 1882.
(d) Ditto dilto No. 77, 3, dated 15th December 1892.
(d) Ditto dilto No. 822-23-05., dated 15th December 1892.
(d) Department of Agriculture, Revenue and Commerce Memorandum, No. 731, dated 31st October 1873.
(g) Ditto Memorandum, No. 213, dated 14th May 1878

List of Officers of the Junior Division, Survey

No. sanctioned.	No. existing in each grade.	Names of Officers.	Branch to which originally posted.	Passed in Vernacular.	Age.	Date of appointment to the Department.	Date of promotion to the present grade.	*Period service countin toward pension lst July'
		JUNIOR DIVISION.		!	Y. M. D.			Y. M. 1
		SURVEYORS.						
8	١	lst Grade.						
		Sulary R500.						
	1	Mr. J. Peyton	G. T. S.		54 0 0	Feb. 3, 1860	April 1, 1874	25 4.2
		"G. A. McGill	Topogl.	L. S.	47 2 7	April 8, 1855	March 7, 1882	25 4 2 30 2
		"D. Atkinson	Topogl.		48 1 24	Aug. 4, 1856	Jan. 22, 1883	28 10 2
	2	"F. Grant	Rev.		49 3 6	July 11, 1856	Feb. 22, 1883	28 11 2
	3	" C. Wood	G. T. S.	L. S.	42 11 10	May 6, 1858	April 1, 1883	26 11 1
	4	" H. E. T. Keelan	G. T. S.		42 3 1	Aug. 17, 1858	Oct. 29, 1883	19 3
	5	"P. A. G. Cowley	Rev.	L. S.	43 5 15	Sep. 1, 1859	Nov. 1, 1883	24 6 2
	6	,, A. J. Wilson	Topogl.	L. S.	42 10 0	Oct. 1, 1860	June 2, 1884	25 0
Ì	7	"G. W. E. Atkinson	G. T. S.		41 8 20	Aug. 1, 1859	Nov. 10, 1884	25 8 2
	8	" J. A. May	Topogl.		44 1 16	Oct. 1, 1860	March 1, 1885	25 в
0		2nd Grade. Salary R400.						
	1	Mr. L. H. Clarke	G. T. S.		51 0 27	Nov. 26, 1855	Dec. 1, 1872	29 7
	2	" W. Todd	G. T. S.		46 7 21	Jan. 11, 1856	June 1, 1874	27 4 9
i	Э	"James Todd	Rev.		51 1 19	Dec. 27, 1863	Feb. 22, 1883	19 9 1
į	Ì	" S. M. Smylie	Rev.	L. S.	44 7 7	July 24, 1860	April 1, 1883	24 7
	4	" J. S. Pemberton	Rev.	L. S.	41 11 23	Oct. 6, 1860	Sep. 23, 1883	24 8 2
i	5	"H.R. Littlewood	Rev.	•	41 7 25	Oct. 6, 1860	Oct. 29, 1883	24 8 2
	6	,, W. A. Wilson	Rev.	L. S.	42 1 12	Jan. 1, 1861	Nov. 1, 1883	24 6
į	7	,, A. M. Lawson	Rev.	L. S.	46 5 29	Nov. 18, 1862	June 2, 1884	22 7 1
	8	,, A.D. Smart	Rev.		54 8 17	Oct. 1, 1870D	Nov. 10, 1894	14 9
. :	٠ ٠	" E. S. P. Atkinson	Topogl.		39 11 4	Aug. 13, 1861	March 1, 1885	16 7
1	9	"A. J. Gibson	Rev.		43 7 0	May 1, 1861	March 1, 1885	24 1 2
-	10	,, F. Adams	Topogl,	• • •	49 2 6	Oct. 1, 1860	April 1, 1883	28 7 2
1	. ,	3RD GRADE.						
ļ	1	Salary #350. Mr. W. S. Buttress	Rev.		41 4 12	Sep. 1, 1860	Nov. 13, 1879	24 10
l	2	" M. J. Ogle	Topogl.	1	1		Jan. 1, 1883	20 3 2
-						, , , , , ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
į	3	" W. R. Vyall	Rev.		46 6 2	June 13, 1856	Jan. 23, 1893	27 1 1
	4	"A.G. Wyatt	Topogi.	ļ				22 8
1	5	" H. W. Peychers	G. T. S.		42 6 18	April 8, 1862	March 12, 1883	23 2 2
	6	"G. Belcham	G. T. S.	н. s.	40 4 15	Nov. 1, 1862	April 1, 1883	22 8
İ	7	" H. Dowmau	Rev.		39 0 20	Oct. 16, 1862 S	Sep. 5, 1883	22 8
-	S	" E. G. Little	Rev.		39 8 19	Jan. 1, 1860 S	Sep. 23, 1883	17 8 19

of India Department, as it stood on 1st July 1885.

each grade.	solidated Salary	Extra al	lowances, if any.	Survey Party or Office to w at present attached.	hich	Remarks.
1 50 60 60 60 7 8 1 2 3 3 4 4 4	300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(a) Bo (b) D . (c) C . (d) I . (d) I . (e) C . (d) I . (e) C . (d) I . (e) C .	arma, R100 ehra Office, R50 Chargo, R50 Dehra Office, R50 Presidency house-R30.	Himalaya Topographical S Chief Draftsman, Head ters, Calcutta. Doing duty, office of Di General of Statistics. Shwegyin District Surve tish Burma. Computing Party No. 1 Astronomical Part In charge, Sambalpur St Rajputana Topographic vey. Trigonometrical Branch Dehra Dun. Malwa Topographical S Trigonometrical Branch Dehra Dun. On duty at Head Quart cutta. Punjab Traverse and Survey. Hend Draftsman. He ters, Calcutta. Basti District (Cadastr Henzada District Rev	Gurvey Servi Quar- Sick rector Serv y, Bri- App Office, Ser urvey App h Office, Ser urvey Ap h Office, Ser al) Survey Cadastral)	ce reckoned under new rules, leave from 1st November 1871 to 23th February 1872. Service koued under old rules. lee reckoned under old rules. lustve of 11 months and 13 days' furlough and 13 days' sick leave under new rules. lough from 1st July 1882 to 0th October 1883. rentice Draftsman, from 1st January 1860. rice reckoned under old rules. prentice Draftsman, from 1st January 1860. vice reckoned under old rules. prentice Draftsman, from 1st January 1800. vice reckoned under old rules. prentice Draftsman, from 1st January 1800. vice reckoned under old rules. urlough in India, from 16th April 1883 to 30th September 1884. Overstayed privilege leave by one day in August 1874. verstayed privilege leave by five days in Jane 1809.
5 6 7 8 9 10	400 0	0 (e) 0 . 0 (f 0 0) Burma, R100) Charge, R50) Charge, R50) Presidency 1 rent, R30.	Survey, British Burin charge, Dehra Dur Survey, South Maratha Tope Survey. In charge, Raipur Party. Doing duty, Settleme ment, Punjab. Ajmere District Trave	n District pgraphical Training nt Depart- erso Survey	(B) Commencement of second service. On half-pay list from 1st January 1880 to 28th October 1884. Furlanch for 1 year 3 months and 13 days, from 26th July 1876 to 8th November 1877, and sick leave for 19 days in September 1807. Absent without leave for 3 days in January 1806. (C) Inclusive of service as Sub-Surveyor from 3rd November 1866 to 30th September 1809.
- 1	3 350	0 0	d) Presidency rent, H30. (d) Presidency rent, R30. (b) Dehra Office, (a) Burma, R100	R50 . Computing Party Tidal and Leveling India, Burma, Co	Frontier ordered to lcutta. narters, Cal- coperations ylon, &c. ot Survey	Service reckoned under old rules. Service reckoned under old rules. Absent without leave 3 days, sick leave 2 days in October 1865, 4 days December 1865, and from 11th to 16th December 1868.

⁽a) Department of Home, Revenue and Agriculture, No. 171, dated 6th May 1890.
(b) Financial Resolution No. 8990, dated 23nd December 1804, and No. 2679, dated 30th November 1871.
(c) Department of Revenue and Agriculture, No. 8028, dated 11th July 1894.
(d) Financial Resolution No. 704, dated 23nd Petruary 1860.
(e) Department of Revenue and Agriculture, No. 409—190-9, dated 30th October 1889.
(f) Surveyor General's No. 21983., dated 17th December 1884.

No. sanctioned.	No. existing in	Names of Officers.	Branch which	to Passed	a	Date of	Date of	*Period of
No.	No.		origina posted	11y V 1	Age.	appointment to the Department.	promotion	counting towards pension on let July '85.
		JUNIOR DIVISION contd.		İ	Y. M. D.			
		SURVEYORS-concld.						Y. M. D.
		3RD GRADE-concld.						[·
		Salary #350-concld.	1					
	9	Mr. H. T. Hanby	. Rev.	L. S.	38 8 12	,		
	10	" L. J. Pocoek	. G. T. S.		41 9 5		Oct. 29, 1883	1 , 10
	11	" A. Christie	. G. T. S.		39 9 1	July 10, 1863	7 = 300	19 6 74
	12	" W. J. O'Sullivan	. G. T. S.		. 41 4 17	Aug. 7, 1863 Oct. 1, 1863	, =====	* * 1
1	13	" W. W. MoNair	. Topogl.	L. S.	34 9 18	_,	-, 1001	
	14	" N.C. Gwynne	. G. T. S.	1	. 42 3 25	Sep. 1, 1867 Oct. 19, 1863	,	11 9 10
						Oct. 19, 1003	March 1, 1885	20 3 25
18		Ann China						•
		4TH GRADE.						
	1	Salary R300. Mr. W. C. Price .						
	2	" C. H. McA'Fee	G. T. S.		1	Nov. 1, 1863	Oct. 1, 1874	17 0 8
	3	" C. F. Hamer	G. T. S.	L. S.	35 7 15	Sep. 6, 1864	Aug. 1, 1875	13 6 15
	4	" J. H. O'Donel	Topogl.		1	Aug. 3, 1863	July 13, 1878	16 8 24
			Rev.		39 11 20	Oct. 1, 1863	Oct. 22, 1879	17 11 20
- 1	5	" T. E. M. Claudius	Topogl.		39 1 0	Aug. 10, 1863	Jan. 1, 1880 1	7 1 0
	6	" A. J. James	Topogl.	L. S.	38 7 12 J	June 15, 1864		16 7 12
	7	"T. H. Rendell	G. T. S.	• • •	40			8 11 9
	8	"J. T. U. Coxen	Rev.		44 9 22 A	May 16, 1863	Feb. 22, 1883	21 1 25
1	9 .	, D. A. King ,	Rev.		38 7 26 A	pril 12, 1864	April 1, 1883 1	6 7 25
-		, W. Stotesbury	Topogl.	L. S. Cana.	37 11 6 O	oct. 4, 1864	July 21, 1883 1	5 11 6
10) ,	, R. B. Smart	Rev.	L.s.	38 0 2 J	an. 1, 1864 S	Sep. 5, 1883 1	602
11	ı "	F. Kitchen	Topogl.		39 3 7 O	ct. 1,1864 S		1 3
12	<u>.</u> ا	Hugh Todd	G, T. S.	1 1				7 1 7B 5 9 160
13	۱, ا	E. J. Connor	G. T. S.	[- 1			18
14	, ,,	J. Connor	Rev.					1 4 10p
15	,,	T. H. Dunne	Rev.					9 24
16	,,	J. Bond						5 24
17	1 "	C. D. Potter	G. T. S.				,	5 418
18	"	J. Newland	G. T. S. Rev.	_	1	1	ov. 10, 1884 17	
		Applies only to	nev.	D. S.	17 10 26 Oct	t. 22, 1863 M	arch 1, 1885 21	8 10

of India Department, as it stood on 1st July 1885 -continued.

No. existing in each grade.	Consolidate	Ī	Extra allowances, if any.	Surve	ey Party or Office to which at present attached.	REMARKS.
9	₹ a. 2	0		Му	ti District(Cadastral) Survey sore Topogl. Survey . •	y. (A) Exclusive of 89 days' sick leave.
11 12 13 14		0 0 0		Hir	zerat Topogl. Survey. malaya Topogl. Survey. mputing Party tch Topogl. Survey.	Furlough for 1 year, from 28th March 1989. On duty in England for 9 months, from 28th March 1894. Extraordinary leave for 6 weeks, from 28th June 1884.
	1 300 G 2 300 G		(b) Dehra Office, R50	. T	asti District (Cadastral) Surve rigonometrical Branch Offic Dehra Dun. firzapur Topogl. Survey.	Sick leave for 1 month, from 30th December 1832. Passed the Poons C. E. College Examination in 1864.
	5 300 6 300	0	(a) Baluchistan, R100 (b) (d) Deputation, R500	O . I	Kamrup District (Cadastri Survey, Assam. Baluchistan Topogl. Survey. Mysore Topogl. Survey. Fidal and Leveling Operatio India, Burma, Ceylon, &c.	one,
	9 300		0 (c) Assam, R50 .		On leave without allowances Kamrup District (Cadastr Survey, Assam.	trai) Apprentice, from 12th April to 30th June 1864.
	10 300	0	0 (e) Burma, R100	- 1	Draftsman and Compiler, H Quarters, Calcutta. Henzada District (Cadast Survey, British Burma.	
	11 300 12 300 13 300	0			Mysore Topogl. Survey Ditto Tidal and Leveling Operati India, Burma, Ceylon, &	. (C) Exclusive of 30 days' sick leave. (D) Exclusive of 6 months and 5 days' leave on private affairs under new
	14 300		0 0 (c) Assam, R50 . 0 0 (e) Burma, R109		Kamrup District (Cadas Survey, Assam. Henzada District (Cadas Survey, British Burma.	Absent without leave 1 day, and sick leave for 10 days in October 1865.
	16 30 17 30 18 30	0	0 0 0		Rajputana Topogl. Survey Mirzapur Topogl. Survey. South Maratha Topogl. Su	(F) Exclusive of 33 days' sick leave.

⁽a) Department of Revenue and Agriculture, No. 5328., dated 16th December 1882.
(b) Financial Resolution No. 3990, dated 22nd December 1864, and No. 2579, dated 30th November 1871.
(c) Department of Revenue and Agriculture, No. 278., dated 18th January 1884.
(d) Department of Home, Revenue and Agriculture, No. 487, dated 20th October 1879.
(1) Ditto ditto No. 171, dated 5th May 1880.

В

	No. existing in	Names of	f Officers.	Branch to which originally posted.	Passed in Vernacular	Age.	Date of appointment to the Department.	Date of promotion to the present grade.	Period or service counting towards pension or lst July '8
		JUNIOR DI	VISION—contd.			Y. M. D.			Y. M. D.
		ASSISTANT S	SURVEYORS.					•	1 11 11. 1),
	٠.,	ler G	RADE.						
		Salary R200, r	rising to R250.		}	[
	1	Mr. C. Tapsell		Topogl.	L. S.	40 7 17	Aug. 2, 1864	Oct. 1, 1872	18 7 17
	2	" J. A. Barker		Topogl.		39 2 18	Sep. 1, 1865	Jan. 1, 1878	17 2 18
	3	" E. A. Wainright		Topogl.		37 0 23	May 1, 1866	July 13, 1878	15 0 23
ļ		" R. C. D. Ewing		Rev.	H. S.	37 0 20	June 9, 1866	Aug. 1, 1878	15 0 20
	4	" W. J. Cornelius		Topogl,	L. S.	36 3 1	Aug. 15, 1866	July 8, 1879	14 3 1
Ì	5	" G. W. Jarbo		Rev.	L. S.	37 9 15	Nov. 1, 1866	Jan. 1, 1880	15 9 0
	٠.١	" P. J. W. Doran		Topogl.	L. S.	36 1 27	Feb. 1, 1867	July 6, 1880	13 5 3
1	6	" J. R. Scott		Rev.	L.S.	36 3 27	Jan. 19, 1867	Nov. 22, 1880	14 3 27
l	7	" J. McHatton		Rev.	L. S.	35 11 14	July 1, 1867	April 1, 1881	12 11 14
l	8	" H. T. Kitchen		Topogl.		37 0 23	Nov. 1, 1867	April 1, 1881	15 0 23
l	9	" J. H. Wilson	•	Topogl.	L. S.	39 0 23	April 1,18684	April 1, 1881	16 10 231
	10	" J. Hickie		G. T. S.	L. S.	36 5 17	April 29, 1868	April 1, 1881	13 11 17
1	11	" W. A. Fielding		G. T. S.	L. S.	37 1 13	May 3, 1868	April 1, 1881	15 1 13
1	2	" S. O. Madras		Rev.		34 10 16	July 6, 1868	April 1, 1881	12 10 16
1	3	" G. D. Cusson		G. T. S.	L.S.	38 9 7	May 8, 1868		15 9 7 0
1	4	" T. F. Freeman		Rev.	L.S.	34 3 27	Sep. 9, 1868	April 1, 1881	9 8 27
1	5	" G. C. Swiney		Rev.		36 0 4	Sep. 17, 1868	April 1, 1881	14 0 4
1	6	" W. H. Lilley		Topogl.		36 6 28	May 1, 1868	April 1, 1881	14 1 71
1	7	" J. S. Swiney		Rev.		34 6 12	Jan. 5, 1869	April 1, 1881	12 6 12
1	8	" C. P. Torrens		G. T. S.		34 0 12	_ 1	-	12 0 12
1	9	" W. Robert .		Topogl.		34 10 2	Aug. 21, 1869	April 1, 1881	12 10 2
20	0	"T. Shaw .		Rev.	L. S.	32 7 15	April 21, 1869	April 1, 1881	10 7 15
2	1	" C. W. Wilson		Rev.	L. S.	39 7 22	June 21,1867B	pril 1, 1881	17 2 22
2	2	" E. J. Martin		Rev.		34 4 15	Sep. 16, 1867 A	pril 1, 1881	11 8 15
2	3	" C. W. F. Seyers		Rev.		41 10 15	_		19 10 15
2	4	" W. H. Penrose		Rev.	L. S.	33 8 24	Aug. 11, 1869 N	lov. 1, 1882	11 7 17
2	5	,, G. E. Parker		Rev.		35 4 18]	Nov. 18, 1870 J	an. 17, 1883 1	13 4 18
26	6	" G. Campbell		Rev.	;	36 11 19 J	Jan. 1, 1864 J	ın. 22, 1883 1	3 11 9
2	7	" W. C. G. Barckley		Topogi.					1 8 9r
28	s	" G. T. Hall .		G. T. S.	L. S.			pril 1, 1883 1	1 2 24
29	0	,, G. Vander Beck		Topogi.			·		3 9 15
30	o	"R. Todd .		Topogl,	1	1	· '		7 11 19
3)	,	" J. Marphy .		Rev.	1			* '	0 11 19
32	.	,, R. A. Gibson		Topogl.			Dec. 1, 1870 Se	-	8 11 26
38	9	"A. W. Smart		Rev.		14 4 1 D	Dec. 1, 1871 Oc	et. 6, 1883 I	2 4 1
34	- 1	,, W. M. Kelly		Rev.	}	l l			8 10 25

-		1					
	olidal dary.	ed	Ext	ra allowances, if any.	Survey Party or Office to at present attached	which	Remarks.
;	₹ a.	<i>p</i> .					
30	0 0	0	{		ľ	1	Melating Surveyor, 4th Grade.
25	0 0	0				L L	
25	0 0	0	(a)	Baluchistan, R100 .	Baluchistan Topogl. Su	rvey.	
32	25 0	_			Calcutta.	Juarters,	
			(b)	Burma, R100	Akyab District (Co	na.	Sick leave for 15 days, from 28th May 10 9th June 1969.
30	00 0	0			Calcutta		
				. 50.00	vey, British Burma. Shwegyin District	Survey,	Furlough for 1 year, from 1st January to 31st December 1879.
2	50 () (,]		Mirzapur Topogl. Surv	ey.	
2	250	0 () (8) Ditto .	1	1	(A) Commencement of second service. (B) Exclusive of 2 months' sick leave, from 1st July 1869. Appointed draftsman from 15th May 1803.
) 2	250	0	o (6	e) Half scale local, R1	1		Exclusive of six months' sick leave.
	250	0 (o (c) Ditto .	1		
,	250	0	0 (rters, Cal-	•
, ;	250	0	0	rent, 100.	Andaman Topogl, Su	rvøy ·	(C) Exclusive of furlough for 304 days, from 1st November 1870 to 30th October 1880.
ı l			1		Survey.	Cadastral)	Sick leave for 2 years, from 1st May 1880; extension for 9 months without psy, up to 31st January 1883.
1			- }]	rvey .	(D) Exclusive of leave on medical certificate, from 14th December 1877 to 3rd June 1878. Provious service as apprentice, from 1st November 1879.
1		0			Akyab District (Cada	astral) Sur- 1.	
8	250	0	0	(b) Ditto .	1		
9	250	0	0				
0	250	0	0		Survey		(C) Commencement of second service. Sick leave for 3 months, from 1st
11	250	0	0		Que von		March 1869, and 2 mouths from 160 mag and 160 m
22	250	0	0				18th September 1807 to 31st July 1870.
23	240	0	0		WOV.		1
24	220	0	0	(b) Burma, R100	. Burma Topogl. Surv		Leave on medical certificate, from 22nd October to 28th November 1889.
25	220	0	0	(b) Ditto .	tich Rurma.		· - · · · · · · · ·
26	220	0	0		Punjab Traverse at		
27	22 0	0	0		. Himalaya Topogl. S	Survey	(F) Inclusive of special leave to Europe on full pay for 1 year, 10 months and 26 days, from 26th April 1676 to 2nd March 1878.
28	220	0	0	1 (0) 11	cal, Cutch Topogl. Surv	ey.	
29	220) (0	(c) Half scale lo	cal, Malwa Topogl. Sur	vey .	Apprentice Draftsman, from 11th October 1870 to 30th July 1872.
30	250) (0	1613-3-2.	. Mysore Topogl. Sur	rvey .	Suspension from 11th May to 0th June 1883.
31	210) (0			(Cadastra	l) Office Assistant from 22nd November 1863 to 31st October 1871.
32				(b) Burms, R100.	Burma Topogl. Sur		Previous service on probation in G. T. S. from 1st October 1963 to 30th June 1870. Apprentice Draftsman, Surveyor General's Office, from 10th October to 80th November 1870. Probationary Assistant Surveyor 1st December 1870.
33	21	0 (0	(b) Ditto .	vov British Burn	us.	1
37	21	0	0	(c) Hulf scale le R12-9-7.	South Maratha Top	ogl. Surve	y Ro-appointed to the Department, 1st October 1978, after employment in the Forest Department, from 1st November 1877 to 30th September 1878.
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	300 25 25 26 26 26 27 28 29 30 31 32 33	300 0 250 0 250 0 250 0 250 0 250 0 250 0 250	250 0 0 0 250 0 0 0 250 0 0 0 250 0 0 0	300 0 0 0 250 0 0 6 250 0 0 6 250 0 0 6 250 0 0 6 250 0 0 6 250 0 0 0 0 6 250 0 0 0 0 6 250 0 0 0 0 6 250 0 0 0 0 6 250 0 0 0 0 6 250 0 0 0 0 6 250 0 0 0 0 0 6 250 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	300 0 0 0	250 0 0 0 0 0 0 0 0 0	Deccan Topogl. Survey Deccan Topogl. Survey Deccan Topogl. Survey Draftaman, Head Quarters, Calcutta. Computing Party Computin

⁽a) Department of Revenue and Agriculture, No. 5228., dated 16th December 1882.
(b) Department of Home, Revenue and Agriculture, No. 171, dated 6th May 1880.
(c) Financial Resolution No. 705, dated 22nd February 1890.

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No. sanctioned.	No. existing in each grade.	Names of Officers.		Branch to which originally posted.	Passed in Vernacular.	Age.	Date of appointment to the Department.	Date of promotion to the present grade.	Beriod service countin toward pension lst July'	e ng is on
		JUNIOR DIVISION- ASSISTANT SURVEYORS				Y. M. D.			Y. M.	D,
		1st GRADE-conclu							-	
		Salary R200, rising to R250	O—concld.							
	35	Mr. A. Kitchen		Topogl.		32 5 4	Oct. 1, 1872	Dec. 1, 1883	10 5	4
	36	" E. P. S. Hill		Rev.	H. S., L. S.,	31 0 17	Nov. 16, 1872	June 2, 1884	9 0 1	
	37	"R. R. Dickinson		Rev.	Persian, L. S.	33 11 6	April 16, 1873	Sep. 1, 1884	11 11	е
	38	" P. White		Topogl.	L. S.	34 8 23	Oct. 1, 1872	Oct. 1, 1884	10 6 1	15
				Ì						
	39	" E. Graham		Topogl.	L. S.	31 8 0	Aug. 11, 1873	Nov. 10, 1884	9 8	C
	40	" G. A. Knight .		Topogl.		31 2 9	Aug. 11, 1873	March 1, 1885	9 2	
	41	Vacant.								
2 2	'	2nd Grade.								
		Salary R160, rising to	R200.							
	1	Mr. B. M. Wilson .		Rev.		37 2 17	Nov. 15, 1872	April 1, 1881	13 5	
	2	. ,, H. Corkery, B. A., L L. B.		G. T. S.	L. S.	33 10 10	Nov. 20, 1873	April 1, 1881	8 2	1
		"D, J. Collins		G. T. S.		31 1 27	Oct. 6, 1873	Nov. 1, 1882	8 3	
	3	" D A Delene		Rev.	L, S.	30 6 23	Nov. 1, 1873			
	5	D F D		G. T. S.		30 6 6	May 9, 1874			į
	6	" J. Keating		G. T. S.		31 1 27	June 1, 1874	Feb. 22, 1883	9 1	. :
	7	" C. S. Kranl		Rev.	L. S.	31 8 6	July 24, 1874	April 1, 1883	9 7	r
	8	"S. F. Norman		G. T. S.		30 10 23	Sep. 1, 1874	April 30, 1883	8 10)
	9	" C. Norman		G. T. S.	L. S.	29 1 12	Oct. 12, 1874	Oct. 6, 1883	7 1	Ĺ
	10	" D. Campbell .		Topogl.		32 7 13	Nov. 1, 1874	Nov. 1, 1883	10 7	7
	11	" L. F. Berkeley .		Rev.	L. S.	30 10 3	Aug. 16, 1875	1	i i)
	12	"G. P. Tate		†	L. S.	28 11 9	March 12, 1878	I'		
	13	" J. M. Kennedy		G. T. S.		28 7 28	Aug. 19, 1875	1		
		" P. C. H. Smart .		+		29 9 15	April 18, 1878	I	1	9
	14	"C. George · ·		·	• • •	32 6 24	Sep. 5, 1878			
	15	" R. F. Warwick .		G. T. S.	L. S.	30 3 6	July 2, 1875	March 1, 1884	6 1	
	16	" E. B. M. Drew .		Rev.		31 2 10	May 5, 1873	April 1, 1884	7 3	3
	17	" J. C. Kelly		+	L. S.	27 8 23	Oct. 11, 1878	Sep. 1, 1884	1 5 8	8
	18	, A. Georgo		. +		30 5 19	Oct. 15, 1878	Sep. 25, 188	6 8	8
	19	" R. W. Senior		. +	L. S.	24 7 18	Dec. 21, 1878	Oct. 1, 188	1 2 7	7
	20			. +		27 10 7	April 15, 1878	Nov. 10, 188		8
	21	" J. A. Higgs .		. +		25 3 0	Sep. 12, 1881		_	3
	22	1		. +		27 9 15	Oct. 1, 1881	March 1, 188	5 5 7	7

of India Department, as it stood on 1st July 1885 -continued.

No. existing reach grade.	Cons Su	olid lary	nted	Ext	ra alle	owances, if any.	Survey	Party or Office to which t present attached.		Remarks.
	R	a	ı. p.							
					\ D-1	uchistan, R 100	Baluc	histan Topogl. Survey.		
35	21		0 0	.	r) Dai	delinitary	Hima	laya Topogl. Survey.	1	April 1979
36	2	10	0 (- I		rele local - R :l	- 1	1 Maratha Topogl. Survey	Appro	enlics from 1st April 1872 to 15th April 1873.
37 38	١.	00 00	0 (<i>6</i>) На	lf scale local, R1	1	an Topogl, Survey .	(A) F	Circlusive of sick leave for 3 months, from 31st October 1878. Leave tended for 3 months; further extension of leave without pay up to tended for 3 months; further extension of leave without pay up to 1870. On half-pay list, from 18th August 1872 to 18st, 18th August 1872, from 17th October 1881. Exugust 1890. On sick leave for 3 months, from 5th presented the 1881 of 1884. On sick leave for 3 months, from 5th 1881 of 1881. Extension to 28th January 1883.
1						P100 .	Burr	na Topogl. Survey	. Prev	forember 1855 to Man 2000, from 1st November 1872.
39) 2	00	0			ırma, R100 .	- 1	erat Topogl. Survey.	1	•
40	o s	900	0	0	(b) H	alf scale local, R	12 0		1	
	-						1			prentice from 1st February to 14th November 1872.
	1 2	18	1. 0	0	(b) :	Presidency h nt, R20.	1 6	duty at Head Quarte Calcutta. a extraordinary leave .	. Fo	or 8 months, from 12th October 1884; extension for 7 weeks. Leave our control of the control of
	- \						. 0	n furlough · ·	. F	months. (B) Exclusive of leave without the November 1878. November 1878. or 1 year from 1st October 1884. (C) Exclusive of 49 days' leave on or 1 year from 1st October 1884. (C) Exclusive of 49 days' leave on medical certificate, from 2nd July to 19th August 1878.
	3			•		n 19100		wegyin District Survey, Br		
- 1	4	1	76) () (c)	Burma, R100 .		Burma. o. 1 Astronomical Party.	1	
1	5	1	76) ()			andaman Topogl. Survey.	- 1	
1	6	1	76	0 ()			Kamrup District (Cadas	tral)	Sick leave, from 6th to 22nd February 1879.
1	7	3	76	0	- 1	Assam, R40		Survey, Assam. Juzerat Topogl. Survey.		
	8)	76	0	1 3) Half scale R10-9.	ļ		1	e e
	9	:	168	0	0 (6) Ditto R10-1-	• 1	Ditto.		Joined as a sub-surveyor on 3rd July 1872.
	10		168	0	0			Andaman Topogl. Survey	1	
	111		168	0	0			Basti District (Cadastral)S	urvey.	Apprentice from let March 1874.
	12		168	0	0		1	Rajputana Topogl. Survey	•	дурганич .
	13	1	168	0	0		. }	Mysore Topogl. Survey.	. '	Sick leave, from 8th April to 14th September 1883.
			220	0	0		. }	Map Curator, Head Qua Calcutta.		the og one surveyor, from 18th August 1874.
		. \	168			(b) Half scale	local,	Malwa Topogl. Survey		Previous service as a service a
٠	1	- }	168			Ŕ10-1-3.		Mirzapur Topogl. Survey		Previous solvice as saturations of the saturation of the saturation of the saturation of the saturation of the saturation of the saturation of the saturation of the saturation of satur
	1	6			. \		•	On leave without allows		from 17th April 1877 to 31st March 1881.
		7	16) (, 0	(d) Assam, R40		Kamrup District (Cac Survey, Assam.		. (E) Exclusive of previous service as sub-surveyor.
	1	18	16	0 (0	(b) Half scal	e local,	Deccan Topogl. Survey		· (u) sacres
	- 1	19	16	0	0 0	R9-9-7.		Coast Triangulation Sur		(F) Exclusive of 2 months and 1 day's suspension, from 28th May to 1
			ι					Henzada District (Ca	dastral	(F) Exclusive of 2 months and 1 day's suspension, non- July 1880, and sick leave from 2nd to 28th July 1880.
,	,	2 ∩	16	0	0 0	(c) Burma, R10	υ.	Correy British During	D.	Appentice Draftsman, from 31st July 1878.
الرحة	<i>k</i> -	2 0 2 1	16		0 0	(c) Burma, R10	Ю	Survey, British Burm Malwa Topogl. Survey Gorakhpur District (C		Previous service as Apprentice Draftsman, from Size July 1979.

⁽a) Department of Revenue and Agriculture No. 5228., dated 16th December 1882.

(b) Financial Resolution No. 70t, dated 23nd February 1866.

(c) Department of Home, Revenue and Agriculture No. 171, dated 6th May 1860.

(d) Department of Bevenue and Agriculture, No. 278., dated 18th January 1834.

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List of Officers of the Junior Division, Survey of

No. existing i	4		Names of	Office	rs.			Branch to which originally posted.	Passed in Vernacular.	Age.	Date of appointment to the Department.	Date of promotion to the present grade.	Period of service counting towards pension of lat July'8
			JUNIOR DIV	/IBIO	N —co	nold.				Y. M. D.			Y. M. D
		AS	SISTANT SUR	VEYO	RS —	-concl	đ.		1		!		*4-
	ĺ		3nd 6	BADE.									٠.
	1		Salary R120,	rising	to R	160.							
1	М	r.	A. Ewing .					+		23 6 0	Nov. 16, 1881	Nov. 1, 1882	1 6
2		,,	M. Gastaud					+ 5		23 3 24	May 1, 1882	Jan. 17, 1883	
3	١,	,,	P. Beechey					+		23 11 14	Dec. 1, 1882	Jan. 22, 1883	1 3 2
4		,,	G. S. Willis				.	+		21 0 4	Feb. 25, 1883	Feb. 25, 1883	1 11 1
5		,,	E. F. Berkeley					†		20 8 10	Sep. 1, 1883	Sep. 1, 1883	٠.
6	}	,,	B. R. Hughes					+		19 0 18	Oct. 15, 1883	Oct. 15, 1883	
7		,,	F. W. Moore				.	+		20 6 11	Dec. 13, 1883	Dec. 13, 1883	
8	١,	,,	J. P. Barker					t		19 10 10	Dec. 23, 1883	Dec. 23, 1883	
ĝ		,,	N. Bedford					+		23 11 15	Jan. 10, 1884	Jan. 10, 1884	1 5
10	١,	,,	T. W. Babonau					†	L. S.	18 11 21	Jan. 15, 1884	Jan. 15, 1884	
11		,,	T. J. J. Mills				.	+		21 6 1	March 14,1884	March 14, 1884	
12	١,	,,	H. A. Charrier					†	L, S.	20 8 8	April 21, 1884	April 21, 1884	
13		,,	P. J. Serrao				.	+		23 11 28	April 24, 1884	April 24, 1884	1 2
14	۱,	,	J. Smith					t		21 9 17	Aug. 1, 1884	Aug. 1, 1884	١.,
15	١,	,	W. E. Johnson					t		23 9 16	Aug. 18, 1884	Aug. 18, 1884	0 10
16	,	,,	C. G. S. Wood					+	L. S.	17 0 O	Aug. 2, 1884	Aug. 2, 1884	
17	,	,,	W. V. Skilling					†		18 2 6	Nov. 24, 1884	Nov. 24, 1884	١
18		,,	F. E. Warde					+		33 9 24	Nov. 13,1884a	Nov. 13, 1884	0 7
19	,	,,	A. B. Smart					t		19 9 4	Feb. 25, 1885	Feb. 25, 1885	
20		,	G. H. Powell					†		20 6 2	March 18, 1885	March 18, 1985	
21			Vacant .					+					
22			Vacant .				.	t					

Applies only to officers who are under the Uncovenanted Service Rules,
 Joined the Department after the Amalgamation on 1st January 1679.

India Department, as it stood on 1st July 1885-concluded.

eristing in	Consolidat Salary.	ed I	Extra allowances, if any.	Survey Party or Office to which at present attached.	Rемарио.
	136 0 136 0 136 0 136 0 128 0 128 0 128 0 128 0 128 0 128 0 128 0 128 0 128 1 128 1 128 1 128 1 128 1 128 1 128 1 128 1 120 1 15 1 15 1 16 1 17 1 18 1 18 1 18 1 18 1 18 1 18 1 18		(a) Presidency house-ren' R2). (b) Burma, R100 (c) Assam, R40 (d) Presidency house-ren'	t. Late North-East Frontier Topogl. Survey, ordered to Head Quarters, Calcutta. Rajputana Topogl. Survey. Ditto ditto. Akyab District (Cadastral) Survey, British Burma. Sambalpur Survey. Basti District (Cadastral) Survey. Ajmere DistrictTraverse Survey Punjab Traverse and Riverain Survey. Gorakhpur District (Cadastral) Survey. Ajmere DistrictTraverse Survey Mysore Topogl. Survey. Cutch Topogl. Survey. Cutch Topogl. Survey. Kamrup District (Cadastral Survey, Assam. Basti District (Cadastral) Survey. Computing Party. Ditto ditto. Gorakhpur District (Cadastral Survey.	y.
)	1		R20.	Computing Party.	
	20 120	0	0	, Josephania	
	21				
	22			Peopletion No. 704, dated 22ad F	1000

(a) Pinaucial Resolution No. 704, dated 22nd Pebruary 1868.
(b) Department of Home, Revenue and Agriculture, No. 171, dated 6th May 1890.
(c) Department of Revenue and Agriculture, No. 278., dated 18th January 1894.

Names of Administrative and Technical Offices of the Survey of India Department as they stood on 1st July 1885.

	es of Of	fices ar	nd Sect	ions.					Nature of Current Operations.	Administrative Superintendent,
HEAD	QUART	rers,	CALC	TT	ſA.					
	Almi	nistra	tine							1
Surveyor General's' .	214 //10			_					Accounts, Correspondence	
Deputy Surveyor General's	s. Reven	ue Bra	neh	:	:	•		•	Ditto	A. S. G., S. G. O.
Ditto.	Topogr	aphica	l Bran	ch		:			Ditto	D. S. G., Rev.
Map Record and Issue .		,	•	•	•				Correspondence, Receipts and Issues	D. S. G., Topo, D. D. Officer.
	Tec	hnical							•	a substitution of the subs
Drawing and Compiling			٠.				_		Mapping	AGGDG
Engraving		-	:	:	•	•	•	•	On copper by hand	A.S.G., D.O. &E
Engraving Lithographic and Printing			A.	:		·	,	•	Mapping, Litho. and Type Printing	Do., Do.
Mathematical Instrument		:	·	:		•	•	:	Repairing, Storing and Issue	Do., Litho.
Photozincographic .		•				·			Photo. Reproduction and Zinc Printing	Do., M. I. O. Do., Photo.
								_		
TRIGONOMET	Admin	nistrat	ive.			DUN.	•		Assessed Community	D 0 0 0
TRIGONOMET	Admin , Trigon	<i>istrat</i> iometri	ive. ical Br			DUN.			Accounts, Correspondence	D. S. G., Trig.
TRIGONOMET	Admin	<i>istrat</i> iometri	ive. ical Br			DUN.			•	D. S. G., Trig.
TRIGONOMET Deputy Surveyor General's Drawing and Compiling.	Admin , Trigon	<i>istrat</i> iometri	ive. ical Br			DUN.	· · · · · · · · · · · · · · · · · · ·		Accounts, Correspondence	D. S. G., Trig.
TRIGONOMET Deputy Surveyor General's Drawing and Compiling . Meteorological	Admin o, Trigon Technica	nistrati nometri al Sect	ive. ical Br	anch					Mapping	
TRIGONOMET Deputy Surveyor General's Drawing and Compiling . Meteorological	Admin o, Trigon Technica	nistrati nometri al Sect	ive. ical Br	anch					Mapping Photo. Reproduction and Zinc Printing	Do.
TRIGONOMET Deputy Surveyor General's Drawing and Compiling . Meteorological . Photozincography Printing .	Admin o, Trigon Technico	nistrati nometri al Sect	ive. ical Br	anch					Mapping Photo. Reproduction and Zinc Printing Letter-press Printing	Do. Do. Do. Do.
TRIGONOMET Deputy Surveyor General's Drawing and Compiling . Meteorological . Photozincography Printing .	Admin o, Trigon Technica	nistrati nometri al Sect	ive. ical Br	anch					Mapping Photo. Reproduction and Zinc Printing	Do. Do. Do.
TRIGONOMET Deputy Surveyor General's Drawing and Compiling . Meteorological . Photozincography . Printing . Photoheliography .	Admin	nistrat	ive.	anch		:			Mapping Photo. Reproduction and Zinc Printing Letter-press Printing	Do. Do. Do. Do.
TRIGONOMET Deputy Surveyor General's Drawing and Compiling . Meteorological . Photozincography Printing .	Admin	nistrat	ive.	anch		:			Mapping Photo. Reproduction and Zinc Printing Letter-press Printing	Do. Do. Do. Do.
TRIGONOMET Deputy Surveyor General's Drawing and Compiling . Meteorological . Photozincography . Printing . Photoheliography .	Admin	nistrat	ive. ical Brainne.	anch		:			Mapping Photo. Reproduction and Zinc Printing Letter-press Printing	Do. Do. Do. Do.

Names of Field Parties of the Survey of India Department as they stood on 1st July 1885.

Nar	ne of	Surv	ey or	Office			Original Number of Party and Branch.	Abbreviation or Diminution.	Nature of Current Operations.	Administrative Superintendent.
TRIGON Astronomical Do. Coast Computing a Tidal and Le	No. No.	l 2 · · pe P	;	:	NCH.		Secondary Triangulation.	Astr. 1 . Astr. 2 . Coast . Comp Tidal .	Direct Latitude Observation In temporary abeyance Minor Triangulation Reduction, and Publication Automatic Tide Registering and Great Leveling.	D. S. G., Trig. Do. Do. Do. Do.
TOPO	2PAP	HIC	AT. I	RRAN	CH.					
Andaman			A	л.			No. 4 Topographical .	And	Triangulation & Topography	S. G. and D. S. G., Topo.
Baluchistan	:		Ţ				No. 3 do	Bal.	Do.	Do.
Вигта .							No. 7 do	Bur.	Triang., Traverse and Forest	Do.
	-								Topography.	
Cutch .								Cutch .	Triangulation & Topography	Do.
Decean							No. 11 Revenue .	Dec	Triang., Trav. & Topog	D. S. G., Rev.
Guzerat							1	Guz	Do	S. G. and D. S. G., Topo.
Himalaya							Darjeeling Party .	Him	Triangulation & Topography	
Malwa							No. 2 Topographical .	Mal	Do	S. G. and D. S. G., Topo.
Mirzapur							No. 5 do	Mirz	Do	D. S. G., Trig.
Myeore							No. 8 do	Mys	Do.	S. G. and D. S. G., Topo.
Rajputana		•					No. 1 do	Raj	Triangulation & Topography	D. S. G., Trig.
South Marst	ha	•			•	•	No. 10 Revenue .	S. Mar	Triang., Traverse & Topog	Do., Rev.
R	EVE	JUE	BRA	NCH						
Aimere							No. 3 Revenue .	Ajm	Traverse	D. S. G., Rev.
Akvab .								Aky.	Cadastral	Do.
Basti								Basti .	Do.	Do.
Debra .							Detacht. No. 3 Rev	Dehra .	Do	Do.
Gorakhpur								Gorakh	Do	Do.
Henzada							No. 8 Revenue	Henz.	Do.	Do.
Kamrup	•							Kamr	Do.	Do.
Punjab							No. 1 do	Punj	Traverse and Compilation .	Do.
Raipur							Detacht. No. 3 Rev	Raip.	i m a tata a sa	Do.
Sambalpur							Do. do	Samb	Traverse	Do.
Shwegyin							No. 2 Revenue	Shwey	Topographical, late Cadastral	Do.

Disposition List of Officers of the Survey of India Department, attached to the Head Quarters Offices at Calcutta and Dehra, 1st July 1885.

Name of Office.	Administrative Officers.	Officers of the Senior Division.	Officers of the Junior Division.	Class. Grade.	Date of appoint- ment.	Details of superin- tendence and remarks.							
Surveyor General of India. Deputy Surveyor General in charge of Topographical Branch.	Colonel G. C. DePrée, s.c.				Feb. 12, '83 Jan. 1, 83	Direction of all Odices and of Superintendence of Andaman Survey. Baluchistan !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!							
Personal Assistant .		Lieut. H. M. Jackson, a.E.		A. Sup. 1st									
Doing duty .		J. Eccles, Esq., M.	A .	A. oup.									
(Offices, Calcutta and Simla).					<u> </u>								
Deputy Surveyor General, in charge Revenue Branch.	LieutCol. H. R. Thuillid B.B.	r,			. Mar. 5, '8	Superintendence of Ajmere Survey. Akyab ", Daski ", Decean ", Decean ", Devean	Deputy Surveyor General, in charg Trigonometr i co Branch.	ge (Officiating).	В		. D.Sup. 1	st Oct. 1,	Superintendence of Offices at Delira and of Astronomical Party No. 1, Ditto No. 2, Coast Survey, (Himalaya , Mirzapur ,, Rajputaua ,, Tidal ,,
Doing duty		W. H. Cole, E. M.A. Licut. S. G. Burn. R.E.	1	. A.Sup. 5	lst May 1,	In charge Computing Party. Offg. 1st grade. Computing Party. To Drawing Office.							
Offices, Debra Mussoorie.	and		" L. H Clarke " H. W. Peyche " W. W. MoNa " C. H. McA'F " W. J. Cornel " C. G. S. Woo	ers S. S. S. S. S. S. S. S. S. S. S. S. S.	3rd Sep. 1 3rd July 1 4th Feb. 1	, 85 Drawing Office.							
			" W. V. Skillin " G. H. Powel		3rd Nov. 24 3rd Mar. 18	.1							

Disposition List of Officers of the Survey of India Department, attached to the Head Quarters Offices at Calcutta and Dehra, 1st July 1885—concluded.

Name of Office.	Administrative Officers	Officers of the Senior Division	Officers of the Junior Division.	Class.	Grade.	Date of appoint-	Details of super tendence and remarks.
Assistant Surveyo General, Drawing and Engraving	, , , , , , , , , , , , , , , , , , ,			D.Sup.	2nd	July 24, '83	Officiating let and
Offices,			Mr. G. A. McGill .	S.	Ist {	Dec. 20, 82 June 2, 84	Date of joining 8.1. of appointment of Chief Draftsman
			" S. M. Smylie .	s.		 Mar. 12, 83	1
			" F. Adams .	S.	,	June 1,77	
	}		" M. J. Ogle .	S.		July 1, 85	
	1		" A. G. Wyatt .	s.	- 1	Nov. 14, 84	
			" W. Stotesbury .	s.		1	Date of joining 6. I. (,, of appointment as Draftsman,
			" R. C. D. Ewing	A. S.	1st J	June 17, 82	as Draftsmau,
			., P. J. W. Doran	A. S.] } tat	Oct. 25, 83 an. 1, 85	Date of joining 8, 1. (,, of appoluting as Draitsman,
			J	A. S.	1st \	Tay 7,84	ar oranga,
ĺ			" E. J. Martin .	A. S.	1st D	ec. 1, 82	
ffice, Calcutta.			" A. Ewing	A. S. 3	Brd J	uly 1, 85	
ssistant Surveyor General, Surveyor General's Office, and Mathematical Instrument Office.	Major M. W. Rogers, E.E.		D	O. Sup.	Brd A	pl. 19, '83	•
fice, Calcutta.							,
sistant Surveyor Jeneral, Litho- graphic and Pho- cographic Offices.	LtCol. J. Waterhouse, s.c.		· D.	Sup. 3r	d { De	c. '66 o	Ticiating 2nd grade.
ce, Calcutta.							
o, Record and saue Office.		Lieut-Colonel W. H. Wilkins, s.c.	1	Sup. 3re	d .	. 01	cialing 2nd grade.
1]:	J	S. 2nd	d Sep.	. 1, '80	
{	1	1	I .	S. 2nd	l Nov	. 1, 82	
		1	" P. C. H. Smart A.	S. 2nd	l Sep.	15, 83	
e, Calcutta.			,, A. B. Smart . S.	. 3rd	Feb.	25, 85	

List of Technical and Ministerial Officers of the Survey of India Department, drawing Rs. 100 and above, as it stood on 1st July 1885.

Names.		A ge			Designation.		Salar	у.		op	Date of pointment is service.	in lo		nent to ay or of ors to	Remarks.
SURVEY OF INDIA OFFICES.	Y.	М.	D.				R a				. 10		A!1	1 1005	Short drawn Rs. 40.
Mr. T. W. Babonau	41	4,	7	1	Registrar		500	0	0	A	ug. 9, 18	61	Aprii	1, 1669	Short Qfhwb Ms, 40.
SURVEYOR GENERAL'S OFFICE.															•
Correspondence Section. Mr. M. Francis	48	3 4	18	١,	Head Clerk .		250	0	0	J	an. 13,18	355	Aug.	1, 1884	
Mr. M. Francis Babu Bance Madhub Bancrjee	4	1 3	C	,	Clerk		125	0	0	M	Iar. 20, 18	868	Aug.	1, 1884	Short drawn Bs. 10.
Account Section. Mr. E. D. Algar		3 2	13	,	Accountant		150	0	0	ı	Dec. 30, 18	978	Aug.	1, 1884	Short drawn Rs. 20.
General Section.				1										1 1004	
Mr. T. E. Ware	. 3	9 1	1 1	1	Clerk .	1	175			(Sep. 21, 18		1.	1, 1884	Short draws Bo #
"J. A. Vallis	. 3	6 30	2	1	Ditto .		160	0	0	1	April 1, 1	871	Aug.	1, 1884	Short drawn Rs. 5.
REVENUE SURVEY BRANCH OFFICE.															
Mr. A. C. Cunningham .	. 5	1	8	1	Head Clerk		300	0	0	1	Sep. 15, 1	852	Mar.	1, 1871	
Babu Kali Podo Banerjee	. 4	15	8	4	Clerk .	٠	125	0	C	1	Jan. 1, 1	1859	Aug.	1, 1834	Short drawn Rs. 10.
TOPOGRAPHICAL SURVE BRANCH OFFICE.	Y								,				Das	1, 188	
Mr. F. A. D'Rozario .		35 1	1 2	88	Head Clerk	•	200			- {	Oct. 14, 1		1		Short drawn Rs, 5.
Babu Doorga Narain Ghose		38	7	0	Clerk ·		100	0	(`{	April 5, 1	1869	Aug.	1, 100	s Short drawn he, o.
MAP RECORD AND ISSU OFFICE.	E														
Mr. A. E. Byrn		47	7	0	Head Assistant Personal allow		300 100) (0	} Oct. 9, 1			1, 187	
" P. C. H. Smart .		29	9	14	Map Curator		225	C)	0	April 18,	1878	- 1	15, 188	. (-
" H. R. Vallis		35	4	12	Store-keeper		100	0)	0	Mar. 5,	1869	9 Aug.	1, 188	*
DRAWING OFFICE.					1										}
Mr. G. A. McGill .	.				Chief Draftsme	ın	600	()	0					}
" S. M. Smylie					Hend ditto		450	()	0					Sec page 18.
" R. C. D. Ewing					Draftsman		325	()	0					/
EUROPEAN DRAFTSMRN.									_					1 105	
Mr. W. Green		45	9	2 0	Draftsman	•	250			0		186	1	1, 187	1
"J. R. Adels		38	3	16	Ditto		200				Mar. 23,		1	1, 187	
" A. J. Musgrove .	- }	27	4	10	ł		150				April 22,		[_		
"R. Sinclair	. }	23	6	29			100				June 1,				1
" W. P. Smith		23	11	5	Ditto		. 100)	U	U	Nov. 21,	187	B Dec.	. 1, 100	A SHOLD STANK STANK WAS
NATIVE DEAFTSMEN.		٠.		,,	Duefteman		160	0	n	0	Mar. 31,	185	Jan.	1, 187	4
Munshec Sonaullah .		51		7			. 150		0		}	, 185	1		i
" Nabi Baksh .	٠		6				. 12		0		1	, 186 , 186	~ {		}
Babu Hari Hur Sen .			3				10		0		,	, 188 , 188			
" Mohesh Chunder Shav	· ·	45		26	Ditto	_	1	_==	_	_	,	,			19

List of Technical and Ministerial Officers of the Survey of India Department, drawing Rs. 100 and above, as it stood on 1st July 1885—continued.

Names.	Age.	Designation.	Sala	ıry.	appo Gov	Onto of sintment in vernment service.	Date of appointment to present pay or of Surveyors to S. I. Offices.	
ADDITIONAL ESTABLISH MENT, DRAWING OFFICE.	Y. M. D.		R	a. p.				
Mr. W. Stotesbury		Draftsman .	400	0 0				Short drawn Rs. 50.
" P. J. W. Doran		Do	ì	0 0				See page 18.
SUB-SURVEYORS ON DUTY.		1						See page 18.
Babu Madhu Sudun Dutt .		l	100	0 0	Dec.	15, 1858	Oct. 1, 1865	
ENGRAVING OFFICE.			"	•	200.	10, 1000	2, 2000	
Mr. C. W. Coard	54 8 29	Superintendent of	1 000	0 0	Nov.	4 1000	Feb. 1, 1884	R-A
,, W. Donaldson	44 7 23	Engravers.				4, 1868	,	Short drawn Hs. 50.
" G. G. Palmer		2nd Engraver .		0 0	Nov.	•		
"D. L. Mitchell	55 5 9	3rd Do	550	0 0,	Sep.	5, 1872	Dec. 1, 1882	Ba. 50,
" J. Fulford	44 7 5	4th Do	550	0 0	Sep.	21, 1872	Jan. 1, 1884	Ditto ditto, Short drawn Rs. 29.
	41 11 26	5th Do	450	0 0	Oct.	10, 1972	Jan. 1, 1885	Exclusive of house-rent Rs. 50, Short drawn Rs. 50.
" T. B. Rodger	33 9 24	6th Do	350	0 0	Aug.	20, 1872	Aug. 1, 1884	Exclusive of house-rent Rs. 50.
"A. G. Palmer	31 10 1	7th Do	300	0 0	April	1, 1874	May 1, 1880	Ditto ditto.
" S. M. Coard	26 10 11	8th Do	250	0 0	Feb.	1, 1875	May 1, 1885	
" A. W. N. James	25 5 11	9th Do	200	0 0	Mar.	15, 1878	Aug. 1, 1884	Short drawn Rs. 20.
" A. R. Coard	23 8 29	10th Do	150	0 0	Mar.	15, 1878	April 1, 1885	,
" A. D. M. Chamarette .	22 1 26	11th Do	100	0 0	Mar.	15, 1878	April 1, 1882	
" E. C. Ollenbach	24 5 8	12th Do			Aug.	1, 1879	Aug. 1, 1882	On medical leave for 3 months
" W. T. Collins	26 8 1	Conper - plate	150	0 0	Jan.	6, 1880	May 1, 1884	from 6th May 1885.
Babu Russic Lall Roy .	60 11 20	Printer. 1st Native En-		0 0	Sep.	1, 1869	Sep. 1, 1877	,
" Joy Kristo Shaw	36 8 28	graver. 2nd Do		0 0	Ang.	1, 1869	Aug. 1, 1883	
LITHOGRAPHIC OFFICE.		2.1.d 20	100 (0 0	Aug.	1, 1609	1, 1000	•
DRAWING SECTION.								
Mr. H. L. Lepage	42 1 5	Head Assistant .	450 (0 0	July	15, 1871	Dec. 1, 1881	
Vacant		" Draftsman	400 (0 0				
Munshi Mahomed Azim .	54 2 0	Examiner .	100 0	0 0	April	3, 1852	May 1, 1884	Short drawn Rs. 5.
LITHOGRAPHIC PRESS SECTION.								
Mr. D. Deas	29 9 21	Head Lithogra-	300 (0	Nov.	29, 1883	Nov. 29, 1884	Short drawn Re. 40.
"B. Wilson	24 11 28	phic Printer. Asst. Do	100 (Mar.	1, 1883		Short drawn Rs. 20.
TYPOGRAPHIC SECTION.				-		-, 1000	·	
"E. D'Pyvah	35 3 16	Head Printer .	100 0		Aug	1, 1968	Nov. 1, 1884	
MATHEMATICAL INSTRU- MENT OFFICE.			100 0	, 0	Aug.	1, 1808	1, 2002	
WORKSHOP SECTION. Mr. T. Bolton		ĺ						•
arr. 1. Dollon	40 5 21	Mathematical In- strument-maker.	750 0	0	Sep.	16, 1867	Nov. 11, 1878	
" F. Marehall	29 5 23	Assistant Mathe- matical Instru-	5 00 0) 0	Jan.	3, 1881	Jan. 3, 1884	Short drawn Rs. 50.
Cobrespondence Section.	.	ment-maker.		}				
Mr. M. O'Brien ,	52 7 26	Hend Clerk .	200 0	0	λ'ar.	10, 1859	Mnr. 1, 1872	
" W. Campagnao	26 9 10	2nd Clerk .	100 0	0	April	1, 1882	Mar. 20, 1885	Short drawn Its. 25.
STORE SECTION. M1. C. O. Gray	24 4 14	St	150 -				g 03 1004	Ol and design Dr. Of
	24 4 14	Store-keeper .	150 0	0	Feb.	4, 1879	Sep. 21, 1884	Short drawn Re. 25.

List of Technical and Ministerial Officers of the Survey of India Department, drawing Rs. 100 and above, as it stood on 1st July 1885—concluded.

•	unu aooo	,				
Names.	Age.	Designation.	Salary. •	Date of appointment in Government service.	Date of appointment to present pay or of Surveyors to S. I. Offices.	Remarks.
PHOTOGRAPHIC OFFICE.	Y. M. D.		R a. p.		1	
NORMAL ESTABLISHMENT. Negative Section.	48 0 1	Photographer .	330 0 0	June 1, 1862	June 1, 1874	Inclusive of house-rent, Rs. 30.
Mr. J. Mackenzie						
Photo. Transfer Printing Section. Mr. J. Harrold	50 1 8	Ditto	330 0 0	Mar. 19, 187	3 Mar. 11, 1880	Ditto ditto.
Silver Printing Section. Mr. G. G. Dempster	32 6 28	Ditto	. 200 0	July 16, 187	April 1, 1884	Ditto ditto Ba. 20.
Heliogravure and Collotype Section.						
Vacant .		. Draftsman an Engraver.	d 150 0	0		
Zinc Printing Section. Mr. B. Mackenzie	. 44 4	7 Zincographer	. 330 0	0 Nov. 24, 18	67 Nov. 24, 1≻7	9 Inclusive of house-rent, Rs. 30.
General Office Establishmen Mr. W. Moore	at. 26 7 9	Store-keeper	200 0	0 Sep. 15, 18	83 Aug. 1, 188	Short drawn Rs. 100.
CADASTBAL ESTABLISHMENT Negative Section.	l		330 0	0 Mar. 20, 18	April 1, 188	Inclusive of house-rent, Rs. 30.
Mr. C. Marshall	. 49 11	l	200 0	0 Feb. 1, 18		Ditto ditto Rs. 20.
" L. Laguier	. 35 0		100 0		873 July 1, 18	81
" T. Lloyd · ·	. 30 7	24 Ditto	100			
Photo. Transfer Printin Section.	g . 39 1	27 Photographer	. 330 0	0 Feb. 1, 1	876 Feb. 1, 18	[Inclusive of house-rent, Rs. 30. Short drawn 1:s. 80.
Mr. R. George	1 33	The same				
Zinc Printing Section.	. 50 6	17 Zincographer	. 330 0	0 Nov. 24,		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Mr. J. Watson E. A. LeFranc	. 28 6	20 Ditto	. 330 0	, - 1	1876 Jan. 1, 1	
" J. B. Mackenzie	. 20 2	Asst. do.	. 100 (0 Oct. 1,	1880 Aug. 1, 1	Short drawn Its. 40.
General Office Establish	zent. 35	4 20 Head Assists	ant . 500	0 0 Nov. 16,	1883 Nov. 16, 1	Short drawn Re. 150.
TRIGONOMETRICAL BRANCH OFFICE.	L					
Computing Section.	. 44	6 0 Computer	. 240	0 0 Mar. 13,	1857 Feb. 1,	1883
Babu Ganga Pershad .	. 42	2 0 Ditto	. 200	0 0 Nov. 6,	1865 Feb. 1,	1883
,, Cally Mohun Ghose	1	2 0 Ditto	. 120	0 0 Aug. 12,	1865 Feb. 1,	1883
" Cally Coomar Chatt	. 46	1 0 Ditto	. 100	0 0 May 21,	1862 Feb. 1,	1883
" Tarapodo Mukerjee		11 16 Ditto	. 100	0 0 July 26,	1865 Feb. 1,	1883
" Amba Pershad " Umbica Churan Sho	1	11 16 Ditto	. 100	0 0 Feb. 8, 1	867(a) Feb. 1,	(a) Date of appointment to Educational Department. Joined Computing Office, Survey of
Photozinco. Section			200	0 0 Jan. 1, 1	850(b) Feb. 1,	India, 10th April 1866. 1883 (b) Appointed to Survey of India,
Mr. C. G. Ollenbach	54	5 13 Zincograph	1	00	000(0)	1st November 1865.
" C. G. Dyson .	43	O O Asst. do	. 100	0 0 Feb. 26,	1000	
Printing Section Mr. B. V. Hughes	45	6 80 Printer	. 220	0 0 Nov. 1,	1880(c) Aug. 1	c) Date of appointment to Sur- toy of India, Previous Military service excluded.
		<u> </u>				21

Disposition List of Officers of the Survey of India Department, attached to Field Parties, 1st July 1885.

	Party.	Superin- Branch.		i					RDIF		STADL			Ī	
Name of Survey.	Old Number of Party.	D. S. G. and Sul tendent of Bru	Officers of the Senior and Junior Divisions,	Class.	Grade.	Date of appointment to Party	f ent	Sub-Surreyors and Computers	Writers.	Flagmen and Carriers.	Hospital Assistant.	Burku ndazes and Peons.	Apothecary.	Annual Cost of Party.	Bemadus,
	Trigono- metrient.	Trig.	Major W. J. Heaviside, B.E.	D. Sup.	2nd	Dec. 6,	'82.								
Lat. observation)			Mr. H. E. T. Keelan .	S.	lst	July 1,	85				l				
			"P. F. Frunty .	A.S.	2nd	Nov. 1,	84								
tecess quarters, Poona.	_		·					1	1	14	1	6		23,8 00	
stronomical .	2	Trig.	Major W.J. Henviside, и.в.	D. Sup	. 2nd	Apl. 29	, '84								
In temporary abeyance).	-														
Recess quarters, Poons.									1	15		6		7,100	
Coast		Trig.	A. D'Souza, Esq	A.Sup	. 2nd	Oct. 1	, '83								
Triangulation).			Mr. R. W. Senior .	A. S.	2nd	July 1	, 85								
Recess quarters, Mussoorie.									1	56	1	9	ļ	2 6,600	
Tidal and Level-		Trig.	Major A. W. Baird,	D.Sup	. 4th	July 4	, '77		ļ	***					Ong. 3rd grade,
			Lieut. F. B. Longe,	A. Sup	lst	June 19	, 85								Offg. Depy. Supdi
Tide registering and Great Level ing).			Mr. G. Belcham .	S.	3rd	Sep. 1	, 79								
			"T. H. Rendell .	s.	4th	July 4	, 77			!					
			" E. J. Connor .	8.	4th	Dec. 1	, 77								
Recess quarters, Poona.								17	2	64		9		56,900	

Disposition List of Officers of the Survey of India Department, attached to Field Parties,

1st July 1885—continued.

							Scnoi	BD1N	ATR E	STABL	впив	т.		
Name of Burvey.	Old Number of Party.	D. S. G. and Superin- tendent of Branch.	Officers of the Senior and Junior Divisions.	Class.	Grade.	Date of appointment to Party.	Sub-Surveyors and Computers.	Writers.	Flagmen and Carriers.	Hospital Assist-	Burkundazes and Peons.	Apothecary.	Annual Cost of Party.	Вэмлака.
Indaman . (Topo-)	Topographical.	Topo.	Capt. J. R. Hobday, s.c. Mr. G. D. Cusson ,, J. Keating ,, D. Campbell	A. S. A. S. A. S.	1st 2nd	Oct. 1, 83 Oct. 6, 84 Nov. 1, 83 Nov. 1, 85								Offg. D. Sup., 4th grade.
Recess quarters Mussoorie.	,						1	4	90		. '	1	38,000	
Baluchistan (Topo.)	. 3	Торо	Mr. T. E. M. Claudi " E. A. Wainrig " A. Kitchen	us S	S. 1st	Oct. 1, June 10,	83 85	4.		56	1		98,0	offg. D. Sup., 4th grade.
Recess quarter Mussoorie.	·s,										<u> </u>		<u> </u>	_
Burms (Topo.) Recess que Rangoon.	rters,	7 To	Mr. J. H. Wilson " C. P. Torren " W. H. Penr " R. A. Gibso " E. Graham	s ose .	A. S. A. S. A. S. A. S.	rd Dec. 14. 1st Nov. 1 1st Dec. 1 1st Nov. 1 1st Nov. 1	, 77 , 82 , 84 , 83		24 8	541	3 1		11 1 1,2	0,000
Cutch (Topo.)			Topo. LieutColonel Alan, s.c. Mr. N. C. Gwy "W. A. Fiel "G. T. Hall "H. A. Cha	nne . ding .	D. Sup. S. A. S. A. S. A. S.	2nd Apl. 3rd Oot. 1st May 1st Nov. 3rd Oct.	19, 6 3, 6 30,	63 68 74	10	1 1	20	1	28	53,700
Recess q Poons.	uarters,						 =					==-	<u> </u>	23

Disposition List of Officers of the Survey of India Department attached to Field Parties, 1st July 1895—continued.

	Part	Superin- Branch.							BDI!	ETAN	ESTABL	ляпив	NT.		
Name of Survey.	Old Number of Party	D. S. G. and Su tendent of Bra	Officers of the Senior and Junior Divisions.	Cinss.	Grade.	Date of ment	l appoint- to Party.	Sub-Surveyors and Computers.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Burkundazes and Peons.	Apothecary.	Annual Cost of Party,	Вимания.
Deccan (Topo.)	Revenue. 11	Rev.	Major D. C. Andrew, s.c.	D.Sup.	3rd	Nov.	20, '80								Officiating 2nd grad
			"C. Tapsell	A. S.	1st	July	1, 85								1
			" J. Hickie	A. S.	lst	Nov.	1, 79						ĺ		
			"P. White	A. S.	1st	Oct.	1, 83								
			"A. George .	A. S.	2nd	June	1, 85								
Recess quarters,								19	1	171	1	9		54.100	
Suzerat (Topo)		Торо.	LieutColonel W. F. Badgley, s.c.		3rd	Mar.	14, '84								Officiating 2nd grad
			Lieut. G. B. Hodgson, s.c.	A.Sup.	2nd	Sep.	13, 83							•••	Officiating let grad
			Mr. A. Christie .	S.	3rd	Oct.	1, 83								
			"G. A. Knight .	A. S.	1st	1	19, 85								
			" S. F. Norman .	A. S.	2nd	l	1, 74								
	ļ		" C. Norman .	A. S.	2nd	Oct.	12, 74						ĺĺ		
			" P. J. Serrao .	A. S.	3rd	Oct.	1, 84								
Recess quarters, Poona.								31	4	184	1	33	1	86,300	
limalaya . (Topo.)		Trig.	Bt. Colonel H. C. B. Tanner, s.c.	D.Sup.	2nd	Nov.	1, '82								
			E. C. Ryall, Esq	A.Sup.	let	Sep.	1, 81								
			Mr. J. Peyton	S.	let	Nov.	1, 83								
, İ		ĺ	" W. J. O'Sullivan	s.	3rd				İ		İ		İ		
,			" W. Robert .	A. S.	lst	Sep.	1, 78								•
			" W. C. G. Barckley	A. S.		Sep.	1, 82	l		j		į		į	
			" E. P. S. Hill .	A. S.	1st	Мау	23, 85								
Recess quarters, Mussoorie.								5	1	91	1	13		62,300	
Jalwa	Topogra- phical,	Торо.	W H Pottores The	A G	1.4	NT	10.151		Î		Ī	Ì	Ì		
(Торо.)	-	∡opo.	W. H. Patterson, Esq. Mr. J. A. May	A.Sup.	lst lst		19, '84		"						Offg. D. Sup., 6 grade.
			" G. VanderBeck	A. S.	1st		1, 84 1, 77							Į	
			" C. George	A. S.	2nd		1, 77 5, 78							1	
		ļ	" J. A. Higgs	A. B.	3rd	Feb.	1, 84							}	
	l	J		ĺ	ĺ		-		-	1		- 1	ŀ		

Disposition List of Officers of the Survey of India Department, attached to Field Parlies, 1st July 1885—continued.

e pares de elemente desarra	an ample			Ī	<u> </u>			Scuoi	RDIWA		STABLI	энив	т.		es, 22 2
Name of Survey.	Old Number of Party.	D. S. G. and Superin- tendent of Branch.	Officers of the Senior and Junior Divisions.	Class.	Grade.	Date appoint to Pa	of ment rly.	Sub-Surveyors and Computers.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Burkundazes and Peous.	Apotheeury.	Annual Cost of Party.	Remires.
livzapore (Topo.)	Topogro	Trig.	LtCol. J. R. Wilmer s.c Mr. C. F. Hamer , C. D. Potter , H. T. Kitchen , W. H. Lilley , R. F. Warwick	S. S. A. S. A. S.	4(h 4th 1st							10		 58,000	Offg. 3rd grade.
Mussoorie.								20	1	267	1	100	1	1	<u> </u>
Mysore (Topo.) Recess quarter Bangalore.	8	Торо	Major J. R. McCulagh, R.E. Mr. L. J. Pocock "A. J. James "F. Kitchen "Hugh Todd "J. A. Barker "R. Todd "J. M. Kenned "T. J. J. Mills	. S. S. S. A. A.	3rd 4th 4th S. 1st S. 2nd S. 2	Apl. Oct. Oct. Nov. Oct. Nov.	20, '84 8, 83 1, 76 1, 7 1, 7 1, 8 1, 8 1, 7	2 6 5 6 4 4 4 7 5 3 4	10 1	1 20			57	84,00	Offg, 3rd grade.
Rajpulana (Topo.)		1 Tri	g. Major R. Beavan, Lieut. W. H. Pollen, Mr. A. J. Wilson ,, J. Bond ,, G. P. Tate ,, M. Gastaud ,, P. Beechey	B.B. A.S	Sup. 2n S. 1s S. 4t S. 21 S. 31	d Oct. t Oct. h Jul. nd Ma	. 1, . 25, y 1, r. 12, y 1,	84 83 85			-				Offg. 1st grade.
Recess quarter Mussoorie.	'A,								8	1	124	1	23	57,0	000
South Maraths (Topo.)	Re	venue.	ev. Major J. Hill, B.I. Mr. A. M. Lawed ,, J. Newland ,, W. M. Kelly	n .	S. 2 S. 4 A. S. 3	and No	t. 2, ov. 1, ov. 1, ov. 1, ov. 1,	71 79							
Recess quar Pogna.	tera,								20	1	150	1	15	58	25

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Disposition List of Officers of the Survey of India Department, attached to Field Parties, 1st July 1885—continued.

	Party	Superin- Branch.		1		ļ.,	I	1		TATE ES				1	
Name of Survey.	Old Number of Party	D. S. G. and Sur tendent of Bran	Officers of the Senior and Junior Divisions.	Class.	Grade.	Di appo to	ate of intment Party.	Sab-Surveyors and Computers.	Writers.	Flagmen and Carriers.	Hospital Assistant.	Burkundazes and Peons.	Apothecary.	Annual Cost of Party,	Нямарда,
Ajmere [Traverse.]	Revenue. 3	Rev.	Major E. H. Steel, s.c.	D. Sup.	4th	Aug.	7, '84				¹ Ì				Officiating 3rd grade
(= - severse.)	1		Mr. A. J. Gibson	S.	2nd	Oct.	21, 84			1	1	1		¹ l	
	,	1	" C. W. F. Seyers .		lst	`	1, 84	1 1		1	1	($ \cdot $	' I	1
		1	"F. W. Moore .	A. S.	3rd		13, 83	1		'	1	۱ ۱		! I	1
Recess quarters, Mussoorie.		1	" T. W. Babonau	A. S.	3rd	Jan.	15, 84	32	2	323	1	14		50,300	
Akyab (Cydaetral)	7	Rev.	H. B. Talbot, Esq	D. Sup.	4th	Nov.	1, '80						<u> </u>		Offg. 3rd grade,
(Cudastral.)	'	1		A. Sup.		ľ	1, 83	1 1			•••				Offg. Depy. Supdi.
	·	1	Mr. G. W. Jarbo .	A.S.	1st	Nov.	1, 80				1	1		1	Braue.
	1	1 }	" J. R. Scott .	A. S.	lst	Nov.	1, 80	1		1	,	1		1	
	1	1	" J. S. Swiney .	A. S.	lst	Apl.	14, 82			1	1	{ }	ļĺ	!	
	1		" A. W. Smart .	A. S.	lst	May	1, 81			1	1	ŧ į		!	
			"G. S. Willis .	A. S.	3rd	Oct.	1, 84		1	1	1	۱ ،		!	
Recess quarters,	1	1	Professional Establ		t (Perm	anent)	٠.	19	1 1	148	1	14		1,93,900	
Recess quarters, Akyab.		[]	Cadastral Di	itto	(Temp	porary)) .	154		522			<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Basti	4	Rev.	Major S. H. Cowan, s.c.	D. Sup.	4th	Dec.	11, '83		$\left \right $				$\left \right $		Offg. 3rd grade.
(Cadastral.)	l i		G. H. Cooke, Esq	A.Sup.	. lst	Мау	1, 85								Offg. Depy. Supd
			Mr. J. S. Pemberton	S.	2nd	Nov.	. 1, 84			1	1	ļ ,		1	
i			" H. T. Hanby .	S.	3rd	1		ĺ		1	۱ ۱	ļ		Į	
١	1		" W. C. Price .	s.	4th		1, 80			1				ļ	
i		ļ ;	" L. F. Berkeley .		2nd		. 16, 75	1		1				1	
	1	1	"B. R. Hughes	A. S.		l.	15, 83	1		}					
			" W. E. Johnson .			-	. 18, 84								
Recess quarters, Naini Tal.			Professional Estab		,			23		192		16)	} 1,34,900	
·	<u> </u>		Cadastral D.	Oitto -	(Tem	рогату	· · ·	312	<u> </u>	610			-		<u></u>
Dehra Dún .	Detach- ment.	Rev.	Mr. W. A. Wilson .	s.	2nd	Oot.	1, 83	1			,				
(Cadastral.) Recess quarters.			Professional Estab	olishmen	nt (Peru	nanent,)	. 1		8		4	 	8,800	
Recess quarters, Musoorie.			Cadastral Di	itto	(Tem	porary)	·) .	. 21		20			ļ) 3,600	
Gornkhpur . (Cadastral).	5	Rev.	Major J. E. Sande- man, s.c.	D. Sup	3rd	Nov.	. 1,'83	3							Offig.'2nd grade,
			Mr. E. G. Little .	. s.	3rd	Apl.	. 1, 77		11						}
			" T. F. Freeman .	A. S.		Oct.		1	}						1
	-		" T. Shaw	A. S.			. 1, 80		1		1				}
			" J. Murphy .	A. S.		July			1	1					
		}	"O. D. Smart .	. A. S.		Oct.		1							
	1		" N. Bedford .	. A. S.	1	-	. 10, 84		1	1					
			" F. E. Warde	. A. 8.	I .	1	. 1, 85			1					
			Professional Estal					. 17	2	83	1	20		1	
Recess quarters,								1	1 1				1	1,20,200	

Disposition List of Officers of the Survey of India Department attached, to Field Parties,

1st July 1885—concluded.

•				180 0	wy -												S
									Вопов	DINAT	E Est	ADL181	MBNT.		}		
Name of Survey.	Old Number of Party.	D. S. G. and Superin- tendent of Branch.	Officer Jun	s of the Senior and for Divisions,	Class.	Grade.	Date of r ment to	appoint- , Parly.	Sub-Surveyors and Computers.	Writers.	Carriera.	ant.	and Peops.		nual ost Party.	RBMA	REG.
Henzada . (Cadastral.)	Revenue.	Rev.	, R , T , T	S. Hutchinson, R. Littlewood B. Smart H. Dunne W. H. D. Ewing	S. S. S. A. S	2nd 4th 4th 2nd	Nov. Nov. Nov.	26, '82 1, 79 1, 81 1, 80 29, 80)		- [44 660	1	20		1,68,80	0	
Rangoon. Kamrup (Cadastral.) Recess quart Shillong. Punjab (Traverse	. 6		E. C. Mr. "	Barrett, Esq. J. H. O'Donel D. A. King J. Connor C. S. Kraal J. C. Kelly J. Smith Professional E Cadastral eutColonel F. Glington, s.c. r. J. Todd W. S. Buttree C. W. Wilson	. A . A . Ditto	4th 4th 4th 8. 2th 9. 2th 8. 3th ment (I	n Oct h Nort h Oct nd No nd Oc errane Cempors 2nd M 2nd C 3rd I	1ar. 3, 1ct. 1 Nov. 1	83 84 83 79 83 84 	28	1 19		1 1 1		1,39	Office	iating let grade
Recess quar Simla.	ters,			"G. Campbell "J. P. Barker	•		3rd	Sep. 21 Dec. 25 Oct. 2	2, 83	30	1	232	1	16	84	1,700	
Raipur . (Trainin Recess qu Raipur.	g.)	Detach- ment.	Rev.	ir. A. D. Smart	•	S.	2nd	Oct. 2			. 1	62	 	4	1	0,800	
Sambalpur (Travers	se.) uarters,	Dotach- ment.	Rev.	Mr. P. A. G. Co	ey . eley . ıl Estal	S. A. S. A. S.	1st 3rd at (Peru	Oct. 1 Oct. Oct. annent)	1, 83 1, 84	3 4 . 1	.2 50	118	1	6	1 18	35,800	
Nagpur. Shwegyin (To)		Rovenue 2	Rev.	E. J. Jackson, Mr. F. Grant , H. Down , J. McHa ,, G. E. Pa ,, P. A. Pa	Esq	. A. Sup S. S. A. S A. S	3rd 3. let 3. let 3. let	Dec. Nov. Dec. Jan. Dec	4, '1, '1, '1, '1, '1, '1, '1, '1, '1, '1	79 84 80 78	30			1 5	21	1,19,600	Offg. Depp. Supdt., 4th grade.
Recess Range	oon.	18,		Profession Cndastra		Ditto		nporat		·	20		72)	27

Disposition List of Officers of the Survey of India Department temporarily transferred to other Departments, or on furlough, &c., 1st July 1885.

Officers of the Senior Division.	0		s of Divis	the J sion.	unior	_	Class.	Grade.		rtme trans		which 1.	_	I	EMANKS.	
On Deputation.							Ì	•								
Lt. Colonel J. Herschel, n.E.							D. Sup.	1st	India C	office,	Lond	lon.	- }			
Major T. H. Holdich, B.E.							D. Sup.	3rd	Foreign	ı Dep	artm	ent		Offg. Depy. So Boundary Con	ıpdt., 2 08 (grade, Afohan
Bt. Col. R. G. Woodthorpe,			•				D. Sup.	4th	1	Ditto.				Boundary Con Ditto	mission, Ditto	Ditto.
Captain St. G. C. Gore, n.E.							A: Sup.	1st	1	Ditto				Officiating Dep	y. Sup dt., 4 l	
Captain the Hon. M. G.				•			A. Sup,	1st	1	Ditto				Ditto	ditto.	ditto,
Mr. G. B. Scott							A. Sup.	2nd	Quarte Depu			Gener	al'a	Officiating Ass	t. Supdt., 1e	l grade.
	Mr.	D	Atki	nson	:		s.	, 1st	Office of			Gene	eral			
	,,	E.	S. P.	Atki	nson	•	s.	2nd	Settlen Rawa			partme	ent,			
On Furlough, &c.	<u> </u>				•	_		' 	<u></u>							
Bt. Colonel J. Sconce, s.c	١.						D. S. G.							For 2 years, fre	om 14th Mar	roh 1894.
Major G. Strahan, R.E	١.						Rev. D. Sup.	let						For 1 year, fro	m 7th May	1884 ; extension
" T. T. Carter, B.E	١.						D. Sup.	2nd						for six mout! For 1 year, fro		mber 1884.
Bt. Colonel D. Macdonald, s.c							D. Sup.	2nd		•				For 2 years, fro	om 7th Marc	ch 1884.
LieutCol. W. Barron, s.c.							D. Sup.	2nd						For 2 years, ir	om 9th Nove	embe r 1893 .
Mr. J. McGill	١.						D. Sup.	4th						For 1 year, 11	months and	1 16 days, from
	Mr	. w.	R. V	/yall			S.	3rd						7th November For 2 years, fr		ust 1883.
	,,	J.	T. U	. Coxe	en .		S.	4th						Lenve withou	t allowaned	es for 3 month
	,,	н.	Cork	ery, I	3.A., LI	L.B.	A. S.	2nd						Extraordinary 12th October	leave for t	9 months, from
	,,	D.	J. C	ollins			A. S.	2nd						For 1 year, fro		
	۱,,	E.	в. х	I. Dre	w.		A. S.	2nd						On leave with from 19th A	out allowand	es for 3 month

Classified List of Officers of the Mysore Revenue

Number.	NA	MES.					Substantive Appointment. Duty in which at present employed.
1	2						3 4
1 2 3 4	LieutCol. J. P. Grant Major J. Rutherfurd Mr. E. H. Butcher LieutCol. G. Mackenzie						Superintendent, Revenue Survey and Settlement. Deputy Superintendent, Revenue Survey. Assistant Settlement Officer . Survey. Ditto ditto . Ditto ditto
	1st Grade	Assist	ants.				Ditto ditto Ditto ditto
1	Mr. J. P. Barker .	•					Assistant Superintendent Assistant Superintendent .
2	"F. B. Clerk .			•			Ditto Ditto
3	Major D. Cowie	e Assis	tant.	•	•	٠	Ditto Ditto
1	Mr. A. G. Hudson .	e Assis	tant.			٠	Assistant Superintendent Assistant Superintendent .
1	Mr. M. S. Narain Rao .						Assistant Superintendent Assistant Superintendent .

General List of Officers of the Mysore Revenue

1	2		3		4		5		6			7	
Geni. Seniority Number.	Names.		Passed in the Vernacular.		Age	·.	. Rank.		Grade.	_	Sa	lary	٠.
				Y.	Μ.	D.					R	a.	p.
1	LieutCol. J. P. Grant .	\cdot) . /	47	3	0	Superintendent, Revenue Sur Settlement.	vey and			1,527	14	(
2	Major J. Rutherfurd .		ular	43	5	22	Deputy Superintendent				860	0	(
3	Mr. E. H. Butcher .		er a	49	0	2	Assistant Settlement Officer		let Grade		760	0	(
4	"J. P. Barker .		the Vernacular	37	9	16	Assistant Superintendent		Pitto		660	0	(
5	"F. B. Clerk			40	10	13	Ditto		Ditto		660	0	(
6	Major D. Cowie		Based	44	6	15	Ditto		Ditto		660	0	t
7	LieutCol. G. Mackenzie		8 P	43	11	28	Assistant Settlement Officer		Ditto		827	14	C
8	Mr. A. G. Hudson .		All have passed in	27	2	2	Assistant Superintendent		2nd Grade		560	0	(
9	" M. S. Narain Rao .		/ ▼ /	36	11	24	Ditto		Local 3rd G	rnde	200	0	(

Survey Department on the 1st July 1885.

	SA	LARIES, INCLU	DING ALLOWANCE	65 	
		MILITARY OFFIC		To CIVILIANS.	REMARKS.
Milita ar	ry Pay ud rances.	Staff Pay.	Aggregate Pay and Allowances.	Civil Consolidated Salary.	9
		6	7	8	
	5		R a. p.	R a. p.	
			1,752 14 0		
	•		995 0 0		
				895 0 0	
			962 14 0	,	
				795 0) ·
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			795 0	0	
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Survey Department on the 1st July 1885.

	9	10	11	
Date of first appointment to the Department.	Date of appointment to present grade.	• Period of service counting for pension.	Present post.	Remarks.
Nov. 1, 1863 Jan. 25, 1865 Oct. 2, 1865 Jan. 16, 1866 Dec. 3, 1876 Dec. 24, 187 Nov. 23, 187 Nov. 30, 188	April 8, 181 April 1, 185 Dec. 5, 18 Nov. 26, 18 Feb. 8, 18 1 Oct. 24, 11 6 Jan. 1, 1	19 8 29 17 8 15 9 2 17 5 5 182 183 184 11 24	Ditto.	oension (column 10) ha e been arranged in consecutive

31

Disposition List of Officers of the Mysore Revenue Survey Department on the 1st July 1885.

										OHUD
rty.	•		STRENGT	TH OF SO	BORDINA Gr	TE ESTAI	LISHMEN	rs in al	L	Annual cost
Number of Party.	Where employed.	Sub-Surveyors.	English Clerks.	Karkuns.	Learners.	Mappers.	Pressmen.	Peons.	Daftar Bandi.	Annual cost of Parly from lat July 1884 to 30th June 1885.
1	2	3	4	5	6	7	8	9	10	11 ,
		No.	No.	No.	No.	No.	No.	No.	No.	R
1	Mysore Province	. 8	2	61	14	16	6	9	1	48,714
2	Ditto		2	9				4		20,629
3	Kolar District	34		3	4			2		16,103
4		29		3	2			2	··· .	17,905
5	Mysore District	33		3	3			2	· ·	13,418
6	Ditto	43		3	1			2		15,850
. 7	Mysore and Bangalore Districts .	32	***	3	2			2		17,600
8	Mysore District	36		3	2			2		18,119
9	Kolar District	14		1	5			2		18,214
10	Mysore District	18		1	5			2		17,806
11	Bangalore and Kolar Districts .	14		1	3			2		15,600
12	Kolar District	14		1	4			2	 	15,637
12	Total .	275	4	92	45	16	6	33	1	2,35,595

					1	
Officer in charge.			Number in General List.	Rank and Grade.	Date of assuming charge.	Remarks.
12		-	13	14	15	16
LieutCol. J. P. Grant Major J. Rutherfurd Mr. D. Appu Rao " F. B. Clerk " M. S. Narain Rao			2	Superintendent, Revenue Survey and Settlement. Deputy Superintendent, Revenue Survey Assistant Commissioner Assistant Superintendent, 1st Grade Assistant Superintendent, Local, 3rd Grade.	April 8, 1881 Oct. 6, 1882 Nov. 26, 1869	
" H. Ramanujeiengar	G			Amildar	May 28, 1884	Altached to the Burvey Department.
" T. Abdul Karim	н			Assistant Conservator	Nov. 1, 1884	Ditto ditto.
" A. G. Hudson	ľ		8	Assistant Superintendent, 2nd Grade	Jan. 1, 187	В
LieutCol. G. Mackenzie	C		7	Assistant Superintendent, 1st Grade	Aug. 1, 188	1
Mr. E. H. Butcher	E		3	Ditto ditto	. Jan. 1, 186	7
" J. P. Barker	M		4	Ditto ditto .	Aug. 1, 188	02
Major D. Cowie	0		6	Ditto ditto	. June 2, 186	34

Classified List of Officers of the Geological

No. existing in each grade.	Names of Officers, and Name of Substantive Appointment.	Passed in Vernacular.	Age.	Date of Appointment to the Department.	Date of promotion to the present grade.	Period of service counting for Pension
1	H. B. Medlicott, A.M., F. B. S., F.G.S., Superintendent, Geological Survey		Y. M. D. 55 10 29	Mar. 24, 1854	Apl. 1, 1876	Y. M. D
	1st Grade-R700, rising to R1,100.					, ;
1	William King, A.D., D.Sc., Deputy Superintendent, Geological Survey		51 11 16	Mar. 4, 1857	Apl. 21, 1875	28 0 2
2	R. Bruce Foote, F.G.s., Deputy Superintendent, Geological Survey		50 9 9	Sep. 28, 1858	June 14, 1881	26 9
3	F. R. Mallet, F.G.S., Deputy Superintendent, Geological Survey	Oct. 5, 1868	44. 4. 19	Feb. 12, 1859	Apl. 11, 1883	1
4	Theo. W. H. Hughes, A.R.S.M., F.G.S., Assistant Superintendent, Geological Survey	Aug. 3, 1868	41 10 30	Nov. 11, 1862		26 4 1
	2nd Grade—R500, rising to R700.					
1	F. Fedden, A.B.S.M., F.G.S., Assistant Superintendent, Geological Survey.	Oct. 26, 1869	46 3 10	Oct. 1, 1860	Mar. 24, 1878	23 5
2	C. A. Hacket, Assistant Supdt., Geological Survey	Oct. 5, 1868	51 11 20	Nov. 15, 1861	June 14, 1881	22 4
3	C. L. Griesbech, F.G.S., Ditto Ditto .	Sep. 15, 1880	37 6 21	Nov. 11, 1878	Jan. 25, 1883	6 7
4	R. D. Oldham, A.B.S.M., Ditto Ditto .	Aug. 1, 1881	26 11 2	Dec. 17, 1879	Apl. 11, 1883	5 6
5	P. N. Bose, B.sc., F.G.s., Ditto Ditto .	Not required to pass.	30 1 20	July 30, 1880	Apl. 1, 1884	4 11
	3rd Grade—R350, rising to R500.					
1	Tom. H. D. La Touche, A.B., Assistant Superintendent, Geological Survey	June 5, 1882	29 8 2	Nov. 29, 1881	Nov. 29, 1881	3 7
2	Edward James Jones, A B.S.M., Assistant Superintendent, Geological Survey	June 2, 1884		Dec. 29, 1883		ļ
3	i	Oct. 6, 1884		Dec. 29, 1883		1 6
_	Vacant, Asst. Supdt., Geological Survey	, , , , , , , , , , , , , , , , , , , ,				
_	Vacant, Ditto Ditto	l				
-	Vacant, Ditto Ditto					
	Separately graded.					·
	Vacant, Palæontologist, Geological Survey					
	Non-graded Officers.					
1	J. Schaumburg, Artist, Geological Survey .	Not required to pass.	45 11 30	Apl. 12, 1869	July 7, 187	4 16 2
2	W. R. Bion, Registrar, ditto	Do.	. 33 0 15	Dec. 12, 1870	Dec. 31, 187	8 11 0
် 3	Kishen Singh, Sub-Assistant, ditto .	Do.	. 35 4 6	Jan. 7, 187	Apl. 1, 187	9 11 6
4	Hira Lal, Ditto ditto .	Do.	. 33 11 2	Jan. 7, 187	4 Apl. 1, 187	9 11 6
\j 5	Thos. Ramsay Blyth, Museum Asst., Geologica Survey	Do.	26 2 7	Mar. 1, 188	4 Mar. 1, 188	4 1

Survey of India on the 1st July 1885.

rvey of		Travelling,	Total Pay	Where employed at present.	Remarks.
Pay of bstantive pointment.	Acting Allowances.	Conveyance and House Allowances.	and Allowances.	Where only	
R a. p.	R a. p.	R a. p.	R a. p. 2,100 0 0	Office.	
1,100 0 0		60 0 0	1,160 0 0	Chhattisgarh.	
1,100 0 0		. 60 0	l		· Acting Curator.
1,100 0 0	1	. 60& 150 0	1		Bervices placed at the disposal of the Publi Works Department.
700 O 700 O 540 O	0	- 1	0 730 0	O Rajputana. O Afghan Boundary Commiss O NW. Rajputana.	ion-
470 0	0 30	0 0 30	530	1	Offg. in 2nd grade, vice Mr. Feddes.
410 0	1		• •	0 0 Chhindwara.	
380 (0 0	30	0 0 410	0 0 Kumaun.	·
			40	O O Office.	
400			30		
360 200	1		20	00 0 On furlough	
200			2	00 0 Chhattisgarh.	
11	0 0 0		1	10 0 0 Office.	
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Disposition List of Officers of the Geological

Name of Opticials Where employed Rank and Grade Dato of first pointing the Department Dato of first pointing the Dato of first pointing the Dato of first pointing the Dato of first pointing the Dato of first pointing the Dato of first p			· · · · · · · · · · · · · · · · · · ·					i coroß.	
Naus of Opticines. Where complayed: Rank and Grade. Department.					STREE	OF.	op Esi alikas	ADES.	
Survey. Surv	NAMES OF OFFICERS.	Where employed.	Where employed. Rank and Grade. joining the		Separately graded. 1st grade.	2nd grade.	3rd grade.	i lishu	ent.
William King, A.B. D.SC. Chhattisgarh Dept. Sapall., Geological Survey. Ditto Sept. 28, 1888	H. B. Medlicott, A.M., F.B.S., F.G.S.	Office		Mar. 24, 1854	2 4	5	3	5 12	22
Theo.W.H.Hughes, A.R.S.M., F.G.S. 2nd Grade. F. Fedden, A.R.S.M., F.G.S. On furlough Ditto Oct. 1, 1860 C. A. Hacket Rajputana Ditto Nov. 11, 1878 C. L. Grissbach, F.G.S. Afghan Boundary Commission. R. D. Oldham, A.R.S.M. N. W. Rajputana Ditto Dec. 17, 1879 P. N. Bose, B.S.C., F.G.S. Raipur Ditto Nov. 29, 1881 Edward James Jones, A.R.S.M. Chhindwara Ditto Doc. 29, 1883 C. S. Middlemiss, A.R. Kumaun Ditto Ditto Ditto Separately graded. Facunt Non-graded Officers. J. Schaumburg Office Artist, Geological Survey. W. R. Bion On furlough Registrar, Geological Survey. Kishen Singh Ditto Sub-Aast, Geological Survey. Kishen Singh Ditto D		Chhattisgarh		Mar. 4, 1857					
Theo.W.H.Hughes, A.R.S.M., F.G.S. 2nd Grade. F. Fedden, A.R.S.M., F.G.S. On furlough Ditto Oct. 1, 1860 C. A. Hacket Rajputana Ditto Nov. 11, 1878 C. L. Grissbach, F.G.S. Afghan Boundary Commission. R. D. Oldham, A.R.S.M. N. W. Rajputana Ditto Dec. 17, 1879 P. N. Bose, B.S.C., F.G.S. Raipur Ditto Nov. 29, 1881 Edward James Jones, A.R.S.M. Chhindwara Ditto Doc. 29, 1883 C. S. Middlemiss, A.R. Kumaun Ditto Ditto Ditto Separately graded. Facunt Non-graded Officers. J. Schaumburg Office Artist, Geological Survey. W. R. Bion On furlough Registrar, Geological Survey. Kishen Singh Ditto Sub-Aast, Geological Survey. Kishen Singh Ditto D	R. Bruce Foote, F.G.s	Bellary :	Ditto	Sept. 28, 1958	officers.				
Theo.W.H. Hughes, A.B.S.M., F.O.S. South Rewah Ast. Supile, Geological Survey.	F. R. Mallet, F.G.S.	Office	Ditto	Feb. 12, 1859	first grade				
F. Fedden, A.B.S.M., F.O.S. On furlough Ditto Oct. 1, 1860	Theo.W.H.Hughes, A.B.S.M., F.G.S.	South Rewah		Nov. 11, 1862] [4]				
R. D. Oldham, a.B.S.M.		On furlough	Ditto	Oct. 1, 1860					
R. D. Oldham, a.B.S.M.	C. A. Hacket	Rajputana .	Ditto	Nov. 15, 1861	officers.				
P. N. Bose, B.S., F.G.S. Raipur Ditto July 30, 1880	C. L. Griesbach, F.g.s.		Ditto	Nov. 11, 1878		.			
Tom. H. D. La Touche, A.B. Assam Ditto Nov. 29, 1881	R. D. Oldham, A.B.S.M.	N. W. Rajputana	Ditto	Dec. 17, 1879	5 sec	.			
Tom. H. D. LaTouche, a.B. Assam Ditto Nov. 29, 1881 Edward James Jones, A.B. Chhindwara Ditto Dec. 29, 1883 Edward James Jones, A.B. Kumaun Ditto Ditt		Raipur	Ditto	July 30, 1880)	.			
C. S. Middlemiss, A.B. Facant Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Ditto Separately graded. Facant Non-graded Officers. J. Schaumburg Office Artist, Geological April 12, 1869 Survey. W. R. Bion On furlough Registrar, Geological Survey. W. R. Bion On furlough Sub-Asst., Geological Survey. Kishen Singh Ditto Sub-Asst., Geological Survey. Non-graded Officers U		Assam	Ditto	Nov. 29, 1881	e officers.				
Tacant Ditto. Facant Ditto. Facant Ditto. Separately graded. Facant Ditto. Separately graded. Facant Ditto. Separately graded. Falseontologist, Geol. Survey. Non-graded Officers. J. Schaumburg Office Artist, Geological Survey. W. R. Bion On furlough Registrar, Geological Survey. W. R. Bion Ditto Sub-Asst., Geological Jan. 7, 1874 Survey. Kishen Singh Ditto Sub-Asst., Geological Jan. 7, 1874 Survey. Hira Lal Chhattisgarh Ditto Ditto Office Museum Assistant, Mar. 1, 1884	Edward James Jones, A.R.S.M.	Chhindwara .				.			
Ditto. D		Kumaun .		Ditto	. ' 📆 ''				""
Ditto Ditto Ditto Ditto Separately graded Facant Palgeontologist, Geol. Survey. Non-graded Officers Office Artist, Geological Survey. April 12, 1869			}				'		
Paleontologist, Geol. Survey. Paleontologist, Geol. Survey	· • · · ·	.							
J. Schaumburg Office Artist, Geological April 12, 1869	• • •								
Cal Survey. Cal Survey.	-	Office		April 12, 186	9 .				***
Thos. Ramsay Blyth . Office Museum Assistant, Mar. 1, 1881	W. R. Bion	On furlough .		Dec. 12, 187	Heers.				
Thos. Ramsay Blyth . Office Museum Assistant, Mar. 1, 1881	Kishen Singh	Ditto		Jan. 7, 187	o papera-u			,	
Thos. Ramsay Blyth Office Museum Assistant, Mar. 1, 1881	Hira Lal	Chhattisgarh .	Ditto .	Ditto					
Geological Survey.	Thos. Ramsay Blyth	Office	. Museum Assistant Geological Surve	, Mar. 1, 188	1		.		.

Survey of India on the 1st July 1885.

nere employed during last three years.	Annual Cost (Salary and Travel and their Subordinates, if a to March	ling Allowance of Officers ny) from April 1884 1885.	Remares.
	Salary and fixed allowance .	R a. p. R a. p. 12,349 3 10 12,349 3 10	
1882-83. Furlough and Office. 1883-84. Chhattisgarh and Office. 1884-85. Office and Chhattisgarh. 1882-83. Madura and Kurnul	Salary and fixed allowance Travelling allowance Hospital Assistant's pay, &c. Salary and fixed allowance Travelling allowance Hospital Assistant's pay, &c.	17,416 5 0 1,907 0 0 194 7 0 14,494 10 8 1,946 4 6 615 8 3 17,056 7 5	
1884-85. Bellary. 1882-83. Office and Jabalpur 1883-84. Ditto, Andamans and furlough. 1884-85. Furlough, Office & Hazaribagh	Salary and fixed allowance Travelling allowance	. 9,197 12 7 . 367 4 6 9,565 1 1	
1882-83. Furlough and South Rewnh. 1883-84. S. Rewah, Korea & Jhilmilli. 1884-85. South Rewah.	Travelling allowance Hospital Assistant's pay, &c.	1,905 8 0 236 8 0 	4.
1882-83. Kattywar, Gujrat and Office 1883-84. Office and furlough. 1884-85. Furlough.	Salary and fixed allowance Travelling allowance Salary and fixed allowance	8,583 0 . 3,323 13 4 1 362 9 0	
1832-83. Rajputana and furlough 1863-84. Furlough and Rajputana. 1884-85. Rajputana.	Travelling allowance Salary and fixed allowance Travelling allowance	. 6,508 9 11 . 1,672 14 5 8,181 8	4
1883-84. Punjab and Alghansan. 1884-85. Afghanistan. (1882-83. Ditto and Andamaus.	Salary and fixed allowance Travelling allowance	. 7,013 15 3 . 1,882 12 11 8,896 12	2
1883-84. 1884-85. Andaman Islands. 1882-83. Nimar and Chhattisgarh 1883-84. Chhattisgarh. 1884-85. Raipur.	Salary and fixed allowance Travelling allowance	. 6,578 3 7 . 2,344 12 0 . 6,564 6 8	7
1882-83. Assam 1883-84. Ditto. 1884-85. Ditto.	Salary and fixed allowance Travelling allowance	. 1,912 10 0 8,477	8
1883-84. Korea, Jhilmilli & Chhind 1884-85. Chbindwara. (1883-84. Jaunsar and Kumaun.	Travelling allowance	7,838 1 5,829 9 8 2,451 4 0	
1884-85. Kumaun.	Travelling allowance	9,280 1	
\[\begin{align*} 1882-83. Office. \\ 1883-84. Ditto. \\ 1884-85. Ditto. \end{align*}	. Salary		0 0
1882-83. Office. 1883-84. Ditto. 1884-85. Ditto and furlough.	Salary	1,800 0 0	
1882-83. Gwalior 1883-84. Ditto and furlough 1884-85. Furlough	Salary	$\begin{array}{c} \begin{array}{ccccccccccccccccccccccccccccccccc$	9 9 0
1882-83. South Rewah. 1883-84. Korea, Jhihnilli & Chh 1884-85. Chhattisgarh.	attisgarh Travelling allowance Chaprassi ditto	$136 \ 2 \ 6$ 3.13	9 0 1

Index to Survey Lists for 1st July 1885.

Adea, J. R. Algar, E. D. Ditto Amba, Pershad Algar, E. D. Ditto Di					A							
Aden, J. R. Algar, E. D. Ditto Ditto 19 Amba, Perabad Ditto 21 Amba, Perabad Ditto 21 Amba, Perabad Ditto 21 Amba, Perabad Ditto 22 Appurao, D. Akkinson, E. S. Ditto Bakinson, E. S. Ditto Bakinson, E. S. Ditto Bakinson, E. S. Ditto Babonau, T. W. Babonau, G. W. E. Bitto Babonau, G. W. E. Bitto Babonau, G. W. E. Bitto Ball Rabonau, G. W. E. Bancie, Bance Madhub Ditto Bancie, Bance Madhub Ditto Bancie, Bance Madhub Ditto Bancie, W. C. O. Ditto Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barrett, E. C. Survey of India Bervan, Mijor R. Bervan, Mijor R. Beleavan, Mijor R. Beleavan, Mijor R. Beleavan, Mijor R. Beleavan, Mijor R. Beleavan, Mijor R. Beleavan, Mijor R. Beleavan, Mijor R. Beleavan, Mijor R. Bitto Beleavan, Mijor R. Bitto Berkeley, L. F. Ditto Campell, D. Carter, Major R. Botto Berkeley, L. F. Ditto Carter, Major R. Botto Botto Berkeley, L. F. Ditto Carter, Mijor R. Botto Berkeley, L. F. Ditto Campell, G. Camp												B#
Amon, Permand Amon, Permand Amon, Permand Amon, Permand Amon, Permand Andrew, Major D. C. Mysore Survey Atkinson, D. Survey of India 6 28 Atkinson, E. S. P. Diltto 6 17 Babonau, T. W. Babonau, G. W. E. Biltto 6 28 Atkinson, G. W. E. Biltto 6 29 Atkinson, G. W. E. Biltto 6 29 Atkinson, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 22 Barker, J. A. Biltto 19 22 Barker, J. A. Biltto 19 24 Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Biltto 10 26 Barrett, E. C. Survey of India 4 27 Barrett, E. C. Barrett, E.	Adams, F										18	***
Amon, Permand Amon, Permand Amon, Permand Amon, Permand Amon, Permand Andrew, Major D. C. Mysore Survey Atkinson, D. Survey of India 6 28 Atkinson, E. S. P. Diltto 6 17 Babonau, T. W. Babonau, G. W. E. Biltto 6 28 Atkinson, G. W. E. Biltto 6 29 Atkinson, G. W. E. Biltto 6 29 Atkinson, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 22 Barker, J. A. Biltto 19 22 Barker, J. A. Biltto 19 24 Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Biltto 10 26 Barrett, E. C. Survey of India 4 27 Barrett, E. C. Barrett, E.	Adels, J. R.		•	•				•				•••
Amon, Permand Amon, Permand Amon, Permand Amon, Permand Amon, Permand Andrew, Major D. C. Mysore Survey Atkinson, D. Survey of India 6 28 Atkinson, E. S. P. Diltto 6 17 Babonau, T. W. Babonau, G. W. E. Biltto 6 28 Atkinson, G. W. E. Biltto 6 29 Atkinson, G. W. E. Biltto 6 29 Atkinson, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 29 Babonau, G. W. E. Biltto 14 22 Barker, J. A. Biltto 19 22 Barker, J. A. Biltto 19 24 Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Barker, J. P. Biltto 10 26 Barrett, E. C. Survey of India 4 27 Barrett, E. C. Barrett, E.	Algar, E. D.			•				•				
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B Babonau, T. W. Survey of India 19				Ċ							28	
B					Ditto					6	17	
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Statements of the Services of Officers in the Survey of India.

Corrected up to 1st July 1885.

BREVET COLONEL GEORGE CHARLES DEPRÉE, D.S.C., Surveyor General of India.

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 Kyonk-Phyoo for the use 6t 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 clephants 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, Chitagong 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 1857; transferred from No. 1 to No. 2 Ganjam Topographical Party 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 Party being changed to No. 4 Topographical Party, Chota Nagpur Division Survey; appointed exoglicio Assistant Commissioner, Chota Nagpur Division, the designation of No. 2 Ganjam Party being changed to No. 4 Topographical Party, Chota Nagpur Division Survey; appointed exoglicio Assistant Commissioner, Chota Nagpur Division; auring a long period decided

WAR SERVICES.

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

Brevet Lieutenant-Colonel H. R. THUILLIER, Royal Engineers (Bengal), Deputy Surveyor General, in charge Revenue Survey Branch.

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 1869; 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 reorganization 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 reorganization of 1878, 27th October 1878; furlough to Europe for two years from 17th November 1879; Brevet Lieutenant-Colonel, 7th October 1883; Officiating Deputy Surveyor General in charge Revenue Survey Branch from 5th March 1884; confirmed 1st October 1884.

Brevet Colonel JAMES SCONCE, Bengal Staff Corps, Deputy Surveyor General, in charge Revenue Survey Branch.

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 Lieutenant, 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, Calcutta, 5th November 1873; appointed to the charge of the 3rd Division, Lower Provinces 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; Brevet Colonel 9th December 1883; proceeded on furlough to Europe for 2 years from 14th March 18

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 Campore 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."

Brevet Colonel CHARLES THOMAS HAIG, Royal Engineers (Bombay), Offg. Deputy Surveyor General, in charge Trigonometrical Survey Branch.

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 1st 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 1878; Captain, 12th April 1862; Deputy Superintendent, 2nd grade, 1st October 1867; Major, 5th July 1872; Lieutenant-Colonel, 23rd January 1877; Officinting Deputy Superintendent, 1st grade, 1st November 1879; on 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 31st October 1883; substantively promoted to Deputy Superintendent, 1st grade. 1st November 1883. Officiating Deputy Surveyor General in charge Trigonometrical Survey Branch, fr

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, 1st Grade.

Joined at Addiscome, 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 Captain, 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 Lieutenant-Colonel, 10th March 1883; Officiating Deputy Superintendent, 1st Grade, from 1st November 1883 to 11th January 1884; confirmed 12th January 1964. 1884.

MAJOR GEORGE STRAHAN, Royal Engineers (Bengal), Deputy Superintendent, 1st Grade.

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 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; promoted to rank of Captain, January 14th, 1871; appointed Deputy Superintendent, 3rd grade, November 10th, 1867; appointed Deputy 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, Headquarters, Calcutta, from 27th April 1883 to 24th July 1883; received charge of No. 2 Astronomical Party on 1st August 1883; furlough to Europe for one year from 7th May 1884, extension for 6 months; appointed Deputy Superintendent, 1st grade, from 10th November 1884.

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 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 charge of the survey party accompanying the Abyssinian Expedition, 1st December 1867 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 1871; appointed to charge of Levelling 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, 1st January 1878; charge of Kumaon and Garhwal Party, 1st October 1878; assumed charge of No. 2 Topographical Party, 3rd December 1881; Officiating Deputy Superintendent, 1st grade, from 30th April 1884 up to 2nd December 1

WAR SERVICES.

Served in the capacity of Survey Officer with the Sikkim Field Force under Lieutenant-Colonel Gawler in 1861; mentioned in despatches,—vide G. O. G. G., Military Department, No. 440, dated 14th May 1861; served throughout the Umbeyla Campaign under Brigadier-General Sir Neville Chamberlain, K.C.B., and Major-General Garvock, c.D., 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.D., G.C.S.I.; mentioned in despatches,—vide London Gazette of 30th June 1868—medal.

BREVET 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; promoted to Brevet Colonel, 28th October 1883; furlough to Europe for 2 years, from 7th March 1884.

WAR SERVICES.

Nil.

LIEUTENANT-COLONEL F. CODDINGTON, Bengal Staff Corps, Offg. Deputy Superintendent, 1st 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; received charge of the 4th Division, Central Provinces Revenue Survey, on the 27th 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 29th March 1875 to 18th March 1877; appointed to do duty in the Head-quarters Office from 19th March 1877; promoted to Major, 12th June 1877; furlough on urgent private affairs, under Rule XI of 1868, 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, extension for 91 days and further extension for 274 days; promoted to Lieutenant-Colonel, 12th June 1883; returned from furlough and received charge of No. 1 Revenue Party, Hissar and Ferozepore District Survey, 3rd March 1884; Officiating Deputy Superintendent, 1st grade, from 1st October 1884.

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.

MAJOR CHARLES STRAHAN, Royal Engineers (Bengal), Offg. Deputy Superintendent, 1st Grade, Assistant Surveyor General.

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 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 Superintendent, 3rd grade, 5th October 1878; Officiating Deputy Superintendent, 2nd grade, 27th October 1878; reverted to Deputy Superintendent, 3rd grade, 22nd 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 9th January 1884; Brevet Major, 2nd March 1881; promoted to Major, 1st July 1881; officiated as Assistant Surveyor-General in charge Cartographic and Engraving Branches from 24th July 1883; promoted to Deputy Superintendent, 2nd grade, 10th January 1884; confirmed as Assistant Surveyor General, 23rd May 1884; Officiating Deputy Superintendent, 1st grade, from 3rd December 1884 to the present time.

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—medal—brevet of Major.

LIEUTENANT-COIONEL WILLIAM BARRON, Bengal Staff Corps, Deputy Superintendent, 2nd Grade.

Joined the Bengal Artillery as 2nd Lieutenant on 11th December 1858; arrived in the country, 4th February 1859; did duty with the Bengal Artillery at Mecrut 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 continued 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 Revenue 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; surveyed in the Delbi, Peshawur, and Hazara Districts till 15th December 1866; held charge of the 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 trict 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 Dera 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 31st October 1883; furlough, private affairs, from 9th November 1883; confirmed as Deputy Superintendent, 2nd grade, 7th August 1884; promoted to Lieutenant-Colonel, 11th December 1884.

Favourably mentioned in Despatch No. 7, dated India Office, London, 5th May 1870, from the Right 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 Engle's Nest Picket on 26th October 1863—wound pension for life—mcdal with North-West Frontier and Umbeyla clasps.

BREVET COLONEL H. C. B. TANNER, Bombay Staff Corps, 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 ber 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 6th November 1868; became Deputy Superintendents and party and pa ent, 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 on 1st November 1871 to John April 1872; on retent from the Basina Experition was transferred to charge of 4th Division, Central Provinces, from 29th August 1872; the designation of this party was subsequently altered to the 11th Decean 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, Decean Survey, on expiration of furlough on 28th April 1877; 1876; rejoined the Ith Division, Decean Survey, on expiration of Iuriculan 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 furlough for 6 months from 19th April 1882; took charge of Darjeeling and Nepal Boundary Parties, 1st November 1882, Officiating Deputy Superintendent, 2nd grade, from 7th November to 31st December 1882, and from 14th March 1883 to the present time; Brevet Colonel, 8th June 1884; confirmed as Deputy Superintendent, 2nd grade, from 1st October 1884. ent, 2nd grade, from 1st October 1884.

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—clasp—mentioned in despatches, and received the thanks of the Government of India; accompanied Sir Samuel Brown's column, 1st Division, Personal Parkers of Surveyor from the commencement to the termination of heatility Peshawur Valley Field Force, as Surveyor, from the commencement to the termination of hostilities in 1878-79.

Major WILLIAM JAMES HEAVISIDE, Royal Engineers (Bengal), Deputy Superintendent, 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 Miners at Roorkee (about) 15th December 1861; joined Agra and Bombay Road 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, R.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 Khandesh and Bombay Native States Topographical Party, 24th October 1879; received charge of No. 1 Astronomical Party, 18th October 1880; Brevet Major, 2nd March 1881; promoted to Major, 1st July 1881; on furlough to Europe for 7 months from 28th April 1882; received charge of No. 1 Astronomical Party, 6th December 1882, and resumed joint charge of the Longitude operat

WAR SERVICES.

Served with the Left Centre Column, Bhutan Field Force, as Assistant Field Engineer, 1865-66—Frontier medal and clasp for Bhutan; served in 1878-79 with the Southern Afghanistan Field Force on special survey duty; joined Sir Donald Stewart's column at Kandahar, and accompanied the Tal Chotiali Force under Sir M. F. Biddulph on its return to India—mentioned in Tal Chotiali despatches—medal—brevet of Major.

LIRUTENANT-COLONEL AYRTON PULLAN, Bengal Staff Corps, Deputy Superintendent, 2nd Grade

APPOINTED a Cadet of Infantry, February 1856; landed in India, 29th April 1856; date of first commission as Ensign, June 14th, 1856; Lieutenant, 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, Berry's Sikhs, November 1857; Adjutant, Gorukpur Military Police, January 1858; Adjutant, Benares Horse, January 1859; appointed to the Staff Corps, 18th February 1861; attached to Her Majesty's 8th 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 Assistant, Great Trigonometrical Survey, 18th January 1863; promoted to 1st Assistant (designation 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 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; Officiated as Deputy Superintendent, 2nd grade, from 1st November 1883 to 27th November 1884; confirmed 28th November 1884;

WAR SERVICES.

Served as Orderly Officer to Brigadier Johnstone on the march from Jullandur 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, Bengal Staff Corps, Offg. Deputy Superintendent, 2nd
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; returned 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 November 1880; received Personal Allowance of Rs. 100, until promotion to Deputy Superintendent, 2nd grade, 15th February 1883; Officiating Deputy Superintendent, 2nd grade, from 5th to 23rd March 1884, and again from 30th April 1884 to the present time.

WAR SERVICES.

LIEUTENANT-COLONEL WILLIAM HENRY WILKINS, Bengal Staff Corps, Offg. Deputy Superintendent, 2nd 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 April 1863; joined the Fyzabad Revenue 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; Assistant Superintendent in charge of 1st Division, Central Provinces Survey, 3rd August 1870 to 16th December 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 14th (Dearah), now 3rd, Division Survey of India, 7th December 1876; received charge of 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 charge of Rs. 100 until promotion to Deputy Superintendent, 2nd grade, 15th February 1883; on furlough to Europe for 273 days from 8th June 1883; extension for 3 days; promoted to Lieutenant-Colonel, 12th December 1883; returned from furlough and attached to Headquarters, Calcutta, from 14th March 1884; Officiating Deputy Superintendent, 2nd grade, from 7th August 1884 to the present time.

WAR SERVICES.

Major J. E. SANDEMAN, Bengal Staff Corps, Officiating Deputy Superintendent, 2nd 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; held charge of the 2nd Division, Central Provinces Revenue Survey, from 19th June to 10th August 1872; from 1st October 1872 was transferred to the Moradabad 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 from 21st March 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 obtained charge of the Darjeeling Waste Lands Survey, which after two months was converted into Dhanwar Estate Survey; with this party surveyed cadastrally the Dhanwar wards' estate in Hazaribagh, a

1st November 1883; Officiating Deputy Superintendent, 2nd grade, from 24th September 1884 to the present time.

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, Officiating Deputy Superintendent, 2nd 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 9th March 1882, with the exception of a period from October 1874 to August 1875, during which Major Godwin-Austen had charge; Major, 4th April 187; on furlough to Europe for one year from 10th March 1882; extension for 1 year and 3 days; Lieutenant-Colonel, 4th April 1883; returned to duty 13th March 1884, and took charge of Guzerat Party on 25th March 1884; Officiating Deputy Superintendent, 2nd grade, from 1st October 1884 to the present time.

WAR SERVICES.

Mutiny and Lushai Expedition—medals and clasp; minor affairs on Eastern Frontier; four wounds; no recognition of services, except mention in despatches and thanks of Government.

MAJOR T. H. HOLDICH, Royal Engineers, Offg. Deputy Superintendent, 2nd 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 chargo Field Survey Operations in Bhutan, 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 1869, and joined the Gwalior and Central India Topographical Survey; acted in charge of the party 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 Provinces Survey, 15th December 1873; Captain, Royal Engineers, 4th June 1876; left India on furlough to Europe, 14th May 1877; recalled to join Afghanistan Field Force, December 1878; arrived in India, 15th January 1879; officiated as Deputy 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 1880; assumed charge of Kohat Topographical Survey, 15th February 1881; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882; promoted to Deputy Superintendent, 3rd grade, 29th April 1883; assumed charge of Baluchistan Topographical Party, 1st October 1883; on furlough to Europe for one year from 8th March 1884; recalled to duty and reported his arrival on the forenoon of the 25th August 1884, and attached to the Afghan Boundary Commission; appointed to officiate as Deputy Superintendent, 2nd grade, from 3rd December 1884 to the present time.

WAR SERVICES.

Served on special survey duty during Bhutan 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—fronfier medal and clasp for Bhutan; 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 viā 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 Brigadier-General R. Kennedy, Commanding Expedition.

LIEUT.-COLONEL JAMES WATERHOUSE, Bengal Staff Corps, Offg. Deputy Superintendent, 2nd Grade, and Assistant Surveyor General, Photo. Office.

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; left 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; appointed Assistant 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, 9th October 1869; promoted to 1st grade Assistant Superintendent of Survey from 17th June 1870; promoted to Captain, Staff Corps, 10th June 1871; attached to Colonel Tennant, a.E., for duty in observing the Transit of Venus from 10th October 1872 to 1st 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 1875; Officiating Deputy Superintendent of Survey, 3rd grade, from 20th March 1875; reverted to Assistant Superintendent, 1st grade, 19th September 1876; Officiating Deputy Superintendent of Survey, 3rd grade, from 23rd November 1877 to 6th January 1878; reverted to Assistant Superintendent, 1st grade, 7th January 1878; Officiating Deputy Superintendent, 3rd grade, from 1st February 1878; on special duty in Europe from 10th October 1878 to 8th November 1878; Officiating Deputy Superintendent, 3rd grade, from 9th November 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 Office of the Surveyor General's Office, Calcutta, 26th December 1881; Officiating Deputy Superintendent, 3rd grade, from 26th December 1881; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882; continued to officiate as Deputy Superintendent, 3rd grade, up to 9th January 1884; confirmed 10th January 1884; Officiating Deputy Superintendent, 2nd grade, from 3rd December 1884 up to the present time; promoted to the rank of Lieutenant-Colonel, 10th June 1885. moted to the rank of Lieutenant-Colonel, 10th June 1885.

WAR SERVICES.

Nil.

MAJOR MALCOLM W. ROGERS, Royal Engineers, Deputy Superintendent, 3rd Grade, and 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 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 1878; 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; officiated as Assistant Surveyor General, in charge Mathematical Instrument Office and Correspondence Office, Head-quarters, Calcutta, from 19th April 1883; confirmed 23rd May 1884; confirmed as Deputy Superintendent, 3rd grade, 7th August 1884,

WAR SERVICES.

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

Major J. HILL, Royal Engineers, 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 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, 3rd 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 1873; received charge of Bombay Party, 28th October 1874; Local Captain, 25th June 1874; reverted to substant tive appointment of Assistant Superintendent, 1st grade, 28th October 1874; relieved of charge of Bombay Party, 19th October 1879; furlough to Europe from 20th January 1875 to 28th January 1877; assumed charge of the Eastern Frontier Series, 17th March 1877; Officiating Deputy Superintendent, 3rd grade, 1st April 1878; reverted to substantive appointment of Assistant Superintendent, 1st grade, 22nd April 1879; furlough to Europe for 182 days, 26th 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, from 9th April 1880; promoted to Major, 25th June 1882. Deputy Superintendent (new), 4th grade, 1st July 1882; continuing to officiate as Deputy Superintendent, 3rd grade, up to 8th January 1883, and again officiated in the same grade from 12th February 1883 up to 30th September 1884; in charge of Tidal and Leveling Party, 4th April 1884; attached to Afghan Boundary Commission, 1st September 1884; confirmed as Deputy Superintendent, 3rd grade, 1st October 1884; in charge of Konkan Topographical Survey Party, 2nd October 1884.

WAR SERVICES.

Nil.

MR. HENRY HÖRST, Deputy Superintendent, 3rd Grade.

Appointed Librarian and Accountant to the Thomason Civil Engineering College, Roorkee, 1st January 1853 up to September 1854; appointed as a 3rd class Sub-Assistant in the Great Trigonometrical Survey (without break of service), 1st September 1854; transferred to the Topographical Survey on Major-General Sir A. Waugh's retirement; promoted to the Sonior Department, 1st 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 Khandesh 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 2 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 9th November 1884; confirmed 10th November 1884.

MR. WILLIAM HAMMOND COLE, M.A., CANTAB., F.R.A.S., F.R.G.S., Deputy Superintendent, 3rd Grade.

Appril 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, Delnra; 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 superintendent of 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 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, from 4th January 1875 to 27th March 1876; furlough on private affairs from 27th March 1876 to 21st March 1877; on amalgamation and reduction of the three branches of the Survey Department on the 1st January 1878, reverted to the grade of Assistant Superintendent, 2nd grade, officiating in 1st grade; again promoted to 1st grade from 27th October 1878; officiated as Deputy Superintendent, 3rd grade, from 14th December 1880 to 14th June 1881, and again from 24th April to 14th May 1882; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882; officiated as Deputy Superintendent, 3rd grade, from 7th November to 5th December 1882, and again from 20th April 1883 up to 27th Novembe

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-Saugor 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 Barce 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, 29th November 1865; appointed to the Senior Branch at the re-organization on 1st April 1866, as Probationary Assistant Superintendent; promoted to 1st grade on 12th September 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 1878; promoted to 1st grade Assistant Superintendent, 22nd December 1878; appointed to charge of Tharawaddy, subsequently Prome and Akyab Districts, British Burma Survey, from 1st November 1880; Deputy Superintendent (new), 4th grade, 1st July 1882; Officiating Deputy Superintendent, 3rd grade, from 29th April 1883.

MAJOR ANDREW WILSON BAIRD, F.R.S., A.I.C.E., Royal Engineers, Officiating Deputy Superintendent, 3rd Grade.

Jones the service, 18th December 1861, as Lieutenant, Royal Engineers; arrived in India, when, having passed the colloquial examination in Hindustani, was appointed to the Bombay Public Works Department as Probationary Assistant Engineer; joined the Bombay Defences Division on 16th May 1864; gazetted Special Assistant, while employed in the Bombay Defences, on 27th May 1864; passed the departmental examination, and gazetted Assistant, 2nd class, on 28th March 1865; promoted to Assistant, 1st 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. C. 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 1868; 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 Engineer, 1st grade, 24th November 1868; services placed at disposal of Government of India, 1st December 1868; appointed to the Great Trigonometrical Survey of India as Assistant Surveyor (corresponding to present Assistant Superintendent), 2nd grade, 4th December 1869; placed in charge Bombay Leveling Party on its formation, 27th September 1869; in consequence of reduction in the Survey this party was suspended; transferred to Guzerat Party as Assistant Superintendent, 1st March 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 the Foly proceeded to England on medical cer

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, Officiating Deputy Superintendent, 3rd 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; passed Lower Standard, Hindustani; permanent Doing Duty Officer, 4th July 1867; Officiating Adjutant and 2nd-

in-Command, B. S. and M., 17th April 1868; appointed to the Public Works Department, 6th November 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 Superintendent, 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; furlough 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, 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; Officiating Deputy Superintendent, 3rd grade, from 1st November 1883 to 23rd March 1884, and again from 4th April to the present time; assumed charge of Mysore Topographical Survey, 20th March 1884.

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.

LIEUT.-COLONEL JOHN RANDAL WILMER, Bengal Staff Corps, Officiating Deputy Superintendent, 3rd Grade.

Joined the service as Lieutenant in the Royal Artillery on the 22nd June 1859; joined the Battery at Guernsey, 1st August 1859; arrived in India on 27th October 1860; Acting Adjutant, 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 to Brevet Captain, 22nd June 1871; promoted to Assistant Superintendent, 1st 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, 2nd grade, on amalgamation of the Surveys; Officiating Assistant Superintendent, 1st grade, 24th April 1882; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882. Officiating Deputy Superintendent, 3rd grade, from 5th to 13th March, 30th April to 8th May, 7th to 24th August, and from 24th September 1884 up to the present time; promoted to the rank of Lieutenant-Colonel, 22nd June 1885.

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.; privilege 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 August 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 1873; promoted to 1st grade Assistant Superintendent, 1st April 1873; officiated in charge of Kattywar Party 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 29th Mar

Party for two months from 9th April 1876; officiated in charge of Bombay Tidal and Leveling Party for three months, from 29th March 1877 to 1st July 1877; 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, from 1st July 1882 up to 31st January 1883; in charge of Secondary Triangulation Party, 1st November 1882 to 15th October 1883; promoted to Deputy Superintendent, 4th grade, from 1st February 1883; proceeded on furlough (with subsidiary leave) on 25th October 1883.

MAJOR S. H. COWAN, Bengal Staff Corps, Offg. Deputy Superintendent, 3rd 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 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 Head-quarters Office, Photographic 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; assumed charge of Benares and Basti Districts (Cadastral) Survey, North-Western Provinces, from 11th December 1883; Officiating Deputy Superintendent, 3rd grade, from 6th to 13th March 1884, and again from 16th September 1884 to the present time.

MAJOR EDWARD HARRIS STEEL, Bengal Staff Corps, Offy. Deputy Superintendent, 3rd 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 Assistant 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 Surveyor General, 17th March 1878 to 9th October 1879; Officiating Assistant Superintendent, 1st grade, from 20th June to 10th October 1879; in charge of No. 1 Gwalior and Central India Topographical Party from 20th October 1879 to 18th October 1880; promoted to Major, 8th June 1880; Officiating Assistant Superintendent, 1st grade, from 1st November 1879 to 7th December 1881; personal allowance of Rs. 100, 1st April 1881; transferred to charge of Bassein District Survey from 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; returned from furlough, 22nd October 1883; Officiating Deputy Superintendent, 4th grade, from the same date; assumed charge of Aligarh and Etah Districts Topographical Survey, North-Western Provinces, 27th October 1883 to 26th January 1884; resumed charge of Aligarh and Etah Districts Topographical Survey, North-Western Provinces, 7th August 1884; Officiating Deputy Superintendent, 3rd grade, from 3rd December 1884 up

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, Deputy Superintendent, 4th Grade.

CADET at the Military College, Addiscombe, from January 1858 to December 1859; appointed a Lieutenant 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 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 Assistant Superintendent of Survey on 13th August 1868; served 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 Decean 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 Superintendent (new), 1st grade, 1st July 1882; personal allowance of Rs. 100 from 1st April 1881; Officiating Deputy Superintendent, 4th grade, from 29th October 1882 up to 6th August 1884; 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; confirmed in the 4th grade of Deputy Superintendent, 7th August 1884.

WAR SERVICES.

Nil.

MR. EDWIN CLIFFORD BARRETT, 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 Provinces (Chanda District) Survey, 1st February 1865; passed the examination prescribed for the Senior Department, and appointed Assistant Superintendent, 2nd grade, 30th December 1868; sick leave for one month from 20th June 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 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-Western Provinces, from 1st December 1878; transferred to Ghazipar 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 duty in the Head-quarters Office, Calcutta, from 24th July to end of October 1882; Assistant Superintendent (new), 1st grade, 1st July 1882; officiating Deputy Superintendent, 4th grade, from 24th July 1682 up to 30th September 1884; transferred to Burma Topographical Survey, British Burma; assumed charge of Kamrup District (Cadastral) Survey, Assam, 25th July 1883; confirme

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, 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 Meernt, held this appointment till 15th April 1865; leave on private affairs to the hills; 12th July 1865, took up the appointment of Quarter Master, 22nd Punjab Native Infantry, 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 1869, 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, 29th 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, promoted to 2nd grade (third time); 27th October, officiating 1st grade; 28th November, reverted to 2nd grade; 22nd December, officiating 1st grade; 4th February 1879, reverted to 2nd grade; promoted to Major, 4th May 1880; organized and took charge of the Baluchistan Topographical Survey from 27th July 1880; Officiating Assistant Superintendent, 1st grade, from 17th November 1880 to 30th June 1882; Assistant Superintendent (new), 1st grade, 1st July 1882; Officiating Deputy Superintendent, 4th grade, from 1st July 1882 up to 9th November 1884; assumed charge of No. 1 Topographical Party, 1st October 1883; promoted to Deputy Superintendent, 4th grade, from 10th November 1884.

WAR SERVICES.

Attached to the Army operating in Southern Afghanistan from October 1878—medal; accompanied General Biddulph's Division to Girishk; mentioned in Lieutenant-General D. M. Stewart's despatches, and in Field Force Order by General Biddulph, dated 6th March 1879; engaged surveying in Southern Afghanistan and Baluchistan till 1st April 1880, and again from 27th July 1880; accompanied the Marri Field Force under Brigadier-General C. MacGregor in October and November 1880; accompanied the Bozdar Field Force under Brigadier-General H. C. Wilkinson, in November and December 1881.

BREVET COLONEL ROBERT GOSSET WOODTHORPE, Royal Engineers, 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 season 1872-73; accompanied Captain Badgley in the Naga Hills Survey during field season 1873-74; Officiating Assistant Superintendent, 1st grade, 11th August 1873; re-spointed Assistant Superintendent, 3rd grade, 1st April 1874, on amalgamation with Revenue Survey; separate charge, Naga Hills Survey Party, during field season 1874-75; re-spointed 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); charge of North Lakhimpur Topographical Survey, 1876-77 (thanks of the Governor General in Council); charge of North Brahmaputra Topographical Survey, 1877-78; Captain, 22nd May 1878; Officiating 1st grade Assistant Superintendent, 28th May 1878; reverted to officiating 2nd grade, 12th August 1878; transferred from No. 6 Topographical Party, September 1878; charge of survey party with the Frontier Expeditionary Field Force, Kuram Column; substantive 2nd grade Assistant Superintendent, 22nd Morember 1879; and to Brevet Licutenant-Colonel, 2nd March 1881; appointed to charge of No. 6 Topographical Party from 3rd December 1880; promoted to rank of Brevet Major, 22nd November 1879, and

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 Kariz Mir on 10th, and Charda, 11th December 1879; attack of Takhti-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; 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 1872; 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=1 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 1876, transferred to 1st or 10th Deccan Survey; held charge of the survey from 22nd August 1877 to 2nd January 1878; Officiating Assistant Superintendent, 2nd grade, from 1st January 1878; again took over charge of 1st or 10th Deccan 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, North-Western Provinces, and joined 9th June 1882; Assistant Superintendent (new), 1st grade, 1st July 1882; Officiating Deputy Superintendent, 4th grade, 1st July to 31st October 1882, 2nd and 3rd November 1882, from 7th idem up to 31st December 1882, 14th March 1883, and from 20th April 1883 up to the present time; transferred to Benares, &c., Districts (Cadastral) Survey, North-Western Provinces, 17th October 1883; appointed to do duty at the

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 Columns 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, from 6th December 1882; Officiating Deputy Superintendent, 4th grade, from 6th December 1882; Officiating Deputy Superintendent, 4th grade, from 29th April 1883 up to the present time; in charge of No. 2 Revenue Party, Hanthawaddy District Survey, British Burma, from 19th February 1884.

CAPTAIN ST. GEORGE CORBET 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 and attached to the Dehra Dun Survey Party; 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, and attached to the Bhopal and Malwa Survey; transferred to Guzerat 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 Captain, 8th January 1882; Assistant Superintendent (new), 2nd grade, 1st July 1882; promoted to Assistant Superintendent, 1st grade, 10th October 1882; appointed to do duty at Head-quarters, Calcutta, from 13th December 1882;

Officiating Deputy Superintendent, 4th grade, from 29th May 1883 up to the present time; attached to the Afghan Boundary Commission, 26th August 1884.

WAR SERVICES.

Served with the Afghanistan Field Force, Quetta Column, from 9th February 1879 to 15th May 1880; accompanied Sir D. Stewart's column in its march from Kandahar to Kabul as Officer in charge of Survey; present at the action of Ahmed Khel, near Ghuzni, and of Urzu Shabiz at Ghuzni.

CAPTAIN JAMES RAMSAY HOBDAY, Bengal Staff Corps, Officiating Deputy Superintendent,
4th 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; Officiating 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, Bhutan, 16th March 1873 to 18th September 1874—G. O. C. C., 5th April 1873, p. 170; Officiating 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; Officiating Assistant Superintendent, 2nd grade, Survey of India, from 1st to 10th January 1879, 1st to 5th February 1878, 15th February to 28th April 1878, 15th January 1879 to 3rd February 1879, and from 3rd April 1881 to 30th June 1882; promoted to the rank of Captain, 13th January 1881; Assistant Superintendent (new), 2nd grade, 1st July 1882; Officiating Assistant Superintendent, 1st grade, from 1st July 1882 to 14th April 1883; promoted to Assistant Superintendent, 1st grade, 15th April 1883, (Officiating Deputy Superintendent, 4th grade, from 25th October 1883 to 23rd March 1884, and from 4th April 1884 to the present time; in charge Andaman Topographical Party, from 1st November 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.

CAPTAIN THE HONOURABLE MILO GEORGE TALBOT, Royal Engineers, Offg. Deputy Superintendent, 4th 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 1882; reverted to Officiating Assistant Superintendent, 2nd grade, from 15th May 1882; Assistant Superintendent (new), 2nd grade, 1st July 1882; 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 30th September 1883; Officiating Deputy Superintendent, 4th grade, from 1st November to 10th December 1883, from 5th to 13th March and from 30th April to 8th May 1884; in charge No. 3 Topographical Party, Baluchistan Survey, from 29th April 1884 to 18th August 1884; Officiating Deputy Superintendent, 4th grade, from 7th August 1884 to the present time; attached to Afghan Boundary Commission, from 25th August 1884; promoted to the rank of Captain, 8th January 1885.

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 commencement; present at battle of Charasia, 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.

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 Head-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 Debra 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; sick leave from 10th December 1883 to 4th January 1884.

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 Civil 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, from 1st November 1879; Assistant Superintendent (new), 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.

LIEUTENANT FRANCIS BACON LONGE, Royal Engineers, Offg. Deputy Superintendent, 4th Grade.

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; officiated as Assistant Superintendent, 1st grade, from 13th September 1882 to 9th July 1884; confirmed 10th January 1884; officiated as Deputy Superintendent, 4th grade, from 6th to 13th March 1884, and again from 26th August 1884 to the present time; appointed to do duty at Head-quarters, Calcuta, 17th January 1885; in charge Suakim Expeditionary Survey, from 4th March 1885; attached to the Tidal and Leveling operations, 19th June 1885.

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; served as Survey Officer with Suakim Expeditionary force, from 4th March 1885 to 1st June 1885.

CAPTAIN ROBERT ALEXANDER WAHAB, Royal Engineers, Offg. Deputy Superintendent. 4th 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 6th August 1884; promoted to Assistant Superintendent, 1st grade, from 7th August 1884; in charge No. 3 Topographical Party, Baluchistan Survey, from 19th to 31st August 1884; Zhob Valley Expedition from 1st September 1884; in charge Zhob Valley Expedition, from 14th September 1884; in charge No. 3 Topographical Party, Baluchistan Survey, from 17th December 1884; Officiating Deputy Superintendent, 4th grade, from 26th August 1884 up to the present time; promoted to the rank of Captain, 8th January 1885.

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; 2nd 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, Offy. Deputy Superintendent, 4th Grade.

Appointed Junior Sub-Assistant Revenue Survey; 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 (Transladus) Survey, 1st July 1856; promoted to 2nd grade, 1st May 1857; promoted to 1st grade, 1st January 1859; honourable 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 January 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 April 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, from 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 recognised by the Chief Commissioner, Assam, in Land Revenue Administration Report of District Darrang, season 1875-76; services placed at the disposal of the Chief Commissioner, Assam, for employment un

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 1880.

Special rowers.—Vested with powers of a Deputy Collector under Regulation IX of 1833 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 robels—medal.

MR. FREDERICK WILLIAM KELLY, Offg. Deputy Superintendent, 4th 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 Bundelcund 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; transferred to Prome and Akyab Districts Cadastral Survey, British Burma; promoted to Assistant Superintendent, 1st grade, 10th November 1884; Officiating Deputy Superintendent, 4th grade, from 3rd December 1884 to the present time.

LIEUTENANT HUGH MILBOURNE JACKSON, Royal Engineers, 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 Roorkee, Calcutta, in the Naga Hills and at Rawal Pindi, from May 1st, 1881, to June 7th, 1883; appointed to Survey of India Department as Assistant Superintendent, 2nd grade, with effect from the 11th June 1883, and to officiate as Assistant Superintendent, 1st grade, from the same date; officiating in charge of Mysore Topographical Survey from 13th February to 19th March 1884; confirmed as Assistant Superintendent, 1st grade, 28th November 1884; on duty, Surveyor General's Office, Simla, from 6th May 1885.

LIEUTENANT WALTER HUNGERFORD POLLEN, Royal Engineers, Officiating Assistant Superintendent, 1st Grade.

LIBUTENANY, April 6th, 1879; appointed to Indian Establishment, 20th January 1883; arrived in India, 7th March 1883; served with the Bombay Sappers and Miners up to 6th April 1883; Extra Aide-de-Camp to the Governor General of India, from 6th April 1883 to 25th April 1884; appointed Assistant Superintendent, 2nd grade, Survey of India, 26th April 1884; Officiating Assistant Superintendent, 1st grade, from the same date; transferred to No. 1 Party, Central India and Rajputana Topographical Survey, from 1st October 1884.

WAR SERVICES.

Served with the 26th Company, Royal Engineers, in the Egyptian Campaign, August 9th to October 10th, 1882.

LIEUTENANT GODFREY BECKET HODGSON, s.c., Offg. Assistant Superintendent, 1st Grade.

Obtained his first commission on 10th May 1878 as 2nd Lieutenant in Her Majesty's 22nd Cheshire Regiment; Lieutenant in the same regiment, 13th November 1878; appointed on probation to the Bengal Staff Corps and attached as Wing Officer to the 4th Goorkhas, 15th September 1880; appointed permanently to the Bengal Staff Corps and confirmed in his appointment to 4th Goorkhas on 15th September 1881, but to date from 13th November 1878 (date of Lieutenancy); Officiating Quarter Master, 4th Goorkhas, from 23rd December 1880 to 10th February 1883; exchanged at his own request into 3rd Goorkhas as Wing Officer, 21st March 1883, where he remained till appointed to the Survey of India as Assistant Superintendent, 2nd grade (on probation); date of appointment, 12th September 1883; confirmed as Assistant Superintendent, 2nd grade, and Officiating Assistant Superintendent, 1st grade, 23rd July 1884.

WAR SERVICES.

Left Peshawur on 3rd August 1880 to join the 4th Goorkhas on field service in Afghanistan; joined that regiment eventually at Kila Abdulla in the Pishin Valley, 15th September 1880; returned to India, 9th October 1880—medal.

LIEUTENANT SIDNEY GERALD BURRARD, Royal Engineers, Officiating Assistant Superintendent, 1st Grade.

RECEIVED commission in Royal Engineers, 6th April 1879; Assistant Secretary to Ordnance Committee for Gunnery Experiments, April 3rd, 1881, to December 8th, 1882; transferred to Indian Establishment, 8th December 1882; landed in India, 10th January 1883; attached to Bengal Sappers and Miners up to 24th March 1883, when appointed to P. W. D., Baluchistan Agency; Porsonal Assistant to Superintending Engineer and Secretary to Governor General's Agent for Baluchistan, from 2nd April 1883 to 1st September 1884; appointed Assistant Superintendent, 2nd grade, Survey of India, 2nd September 1884; Officiating Assistant Superintendent, 1st grade, from the same date.

WAR SERVICES.

Nil.

MR. ANGELO D'SOUZA, Officiating Assistant Superintendent, 1st Grade.

Joined the Topographical Survey as 3rd class Sub-Assistant on the 19th February 1856, and was appointed to the Ganjam Topographical Survey; took part in the Survey of Sumbulpore and Boad Districts, and assisted in the triangulation of the coast from Pooree to False Point in 1857-58; promoted to 2nd class Sub-Assistant on the 19th February 1859; suffered severely from jungly fever; took privilege leave for 3 months, one of which was cancelled on being transferred to the Assam Series, Trigonometrical Survey, 1st September 1859; carried on a minor series, with a view of fixing the position of Gaulati, and completed a Topographical Survey of the Cossya plateau of about 1,000 square miles in area, on the scale of 4 miles to 1 inch; transferred to the Astronomical Party, Andaman Islands, on 23rd October 1861; promoted to 1st class Sub-Assistant on 8th January 1862; promoted to Senior Sub-Assistant on 18th September 1863; transferred to the Kattywar Party in October 1863; was employed in training the new hands for the Topographical Survey of that country under Captain, now Colonel, C. T. Haig, R.E.; on account of the severe famine in Kattywar, the survey was placed in abeyance in 1864-65, and was then employed on the approximate work of the triangulation of Nasik District, Bombny Presidency, under Lieutenant-Colonel D. J. Nasmyth, R.E.; and in the following season (1865-66) was employed on the approximate work of the triangulation of the Island of Bombay, and also in executing a number of traverses as basis for the Cadastral Survey of Bombay; promoted to Civil 2nd Assistant, junior grade, on 1st January 1865; promoted to Civil Assistant, 4th grade, on the re-organisation of the Department on 1st April 1866; was employed in Kattywar in 1866-67, on the resumption of that survey under Captain C. T. Haig, R.E., and continued in the party till 1869; promoted to Surveyor, 3rd grade, in September 1869; furlough from October 1869 to September 1870; transferred to the George at Party on the 27th September 1870; promoted to Sur

MR. G. B. SCOTT, Officiating Assistant Superintendent, 1st Grade.

JOINED North-Western Frontier Revenue Survey, Murree, as a Junior Sub-Assistant on 1st May 1863; Season 1863-64, triangulated portion, Salt Range, District Shahpur; 1864-65, Revenue Survey, District Eusufzai; 1865-66-67, triangulating in District Hazara; promoted to Sub-Assistant, 4th grade, on 1st January 1866, and to 3rd grade on 1sth December 1866; 23rd April 1867, repulsed grade, on 18th January 1800, and we still grade in 18th December 1802, 25th April 1807, repulsed independent hill tracts of Allahi Nandehar, Tikari, and eastern slopes of Black Mountain; May to August 1868, plane-tabling sections of Kaghan; 11th August 1868, repulsed attack of Allahiwals, presented with sword by Punjab Government; October and November 1868, accompanied Black Mountain Expedition; services acknowledged by Punjab Government-medal; 1869, reconnoitred independent hill country between Kaghan and River Indus; promoted to Sub-Assistant, 2nd grade, Revenue Survey, on 15th December 1869; 1869-70, Revenue Survey, District Peshawur, reconnoitred neighbouring independent hill country, fired on by Hassan Khel; 1870-71, Revenue Survey, District Dehra Ghazi Khan; October 1871, transferred to 1st Division, Lower Provinces, Assam, passed examination for senior division in Calcutta; 1871-72, charge of camp, surveyed portion Mekis Hills in Nowgong; promoted to Sub-Assistant, Revenue Survey, 1st grade, on 15th December 1871; 1872-73, Darrang Revenue Survey. nue Survey, charge of camp, reconnoitred small portion of neighbouring independent hills; 1873-74-75; Topographical Survey of District Goalpara in Assam; promoted to Surveyor, 4th grade, on 15th December 1874; November 1875, 16-inch Survey of Cinchona Gardens, Darjeeling; 1875-76, transferred to Cadastral Survey of Dhanwar Estate, District Hazaribagh; October 1876, transferred to 1st Division, Revenue Survey, Ramal Pindi; 1876-77, triangulated portion of Murce and Kahuta Tahsils; passed higher standard examination in 1877; 1877-78, plane-tabled portion of Murce and Kahuta Tahsils; accompanied Jowaki Expedition—clasp; services acknowledged by Punjab Government and Commander-in-Chief, mentioned in despatches; 1878-79, accompanied Afghan column in Khyber, present at attack on Ali Musjid, actions of Det Sarak and Fattelubad, accompanied 1st and 2nd Bazar Valley Expeditions, mentioned in despatches; attacked by Mohmands near Michni; ascended summit of Sikaram, Safed Koh, 29th May 1879, received congratulatory telegram from Commander-in-Chief, as having been the first European who had done so; services during campaign acknowledged by Secretary of State for India, Viceroy and Governor General, Commander-in-Chief, acknowledged by Secretary of State for India, Viceroy and Governor General, Commander-in-Chief, and Punjab Government—medal and clasp; promoted to Surveyor, 3rd grade, on 8th July 1879; personal allowance of Rs. 100 per month, special grant of Rs. 1,000; recommended by Viceroy and Commander-in-Chief for direct Captaincy in Staff Corps (disallowed by War Office); 1879-80, attached to Quarter Master General's Department during 2nd Afghan Campaign; completed reconnaisance of Afridi and Mohmand countries; accompanied General Tytler's Expedition against the Zaimukhts; services acknowledged by Commander-in-Chief—mentioned in despatches; rejoined 1st Division, Revenue Survey, in June 1880; 1880-81, 12-inch Survey of Hutted Camps in "The Gullies;" surveyed portion of territory disputed between District Scalkot and His Highness the Maharajah of Jamu, on the Chenab; triangulated portion of Kala Chitta Range, District Rawal Pindi; 1882 to 1884, attached to Forest Settlement Department, Punjab, to lay down Reserve Boundaries; promoted to Surveyor, 1st grade, on 5th September 1883; 1st August 1884, transferred to No. 3 Baluchistan Topographical Party; 10th November 1884, promoted to the Senior Division; October and November 1884, accompanied Zhob Valley Expedition, services acknowledged by Governor General in Council; January 1885, deputed to Intelligence Branch, Quarter Master General's Department, to compile Military and Railway Map of India.

MR. JOHN ECCLES, M.A., Assistant Superintendent, 2nd Grade.

Appointed by Her Majesty's Scoretary of State for India as an Assistant Superintendent, 2nd grade, Survey of India; landed at Calcutta, afternoon, 29th May 1885; joined Head quarters Office from the 30th idem.

Statements of Services of Geological Survey Officers.

Corrected up to 1st July 1885.

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, Nar-bada Valley; 1855-56, Sub-Himalayas; 1856-57. Bundelkhand; 1857 to 1862, Sub-Himalayas; in October 1862 left Roorkee and rejoined the Geological Survey as Deputy Superintendent for Bengal; 1862-63, South Rewalt; 1863-64, Behar; 1864-65, Assam; officiated as Superintendent from 21st August to 13th November 1864; leave on private affairs from 10th May to 9th November 1865; 1865-66, Central India and Rajputana; 1866-67, Chota Nagpur, Chhattisgarh, Sumbalume, placed in the 1st grade on the introduction of grading in May 1866: 1867-68. November 1865; 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, Sirgujah, Sohagpur, 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 16th 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; Fellow of the Calcutta University, and Member of the Faculty of Arts and Engineering, 17th April 1876; 1876-77, Mohpani and Satpura coal-borings; 1877-78, Reh Committee, and Nahan; 1878-79, Office, Calcutta; 1879-80, Office, Calcutta; 1880-81, Nahan, and Office, Calcutta; 1881-82-83-84, Office, Calcutta; extension of service for two years from 2nd August 1884; special leave from 9th May to 8th November 1884; 1884-85, Office, Calcutta.

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 Kistan Districts; appointed Deputy Superintendent for Madras, 15th November 1868; furlough from 17th September 1869 to 16th December 1870; 1870-71, Raichur Doab and Bhimm 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 Vizagapatam 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; 1883-84, Chhattisgarh; Fellow of the Madras University, and Member of the Faculty of Engineering, 1884; officiated as Superintendent from 7th May to 12th November 1884; 1884-85, Chhattisgarh.

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 paleontological 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, Kaladgi, Belgaum, Ratnagiri, Kolhapur; 1872-73, in Bellary, Dharwar, Kaladgi, Sholapur; deputed to Vienna Exhibition in joint charge of the survey collections; officiated in the 1st grade from 16th July 1873 to 17th December 1874; 1873-74, in Kaladgi, Belgaum, Kolhapur, Dharwar, examined the Dambal gold region; 1874-75, in Nellore; 1875, 1876, and 1877, in Nellore and Kistna; promoted to the 1st grade on 1st April 1876; 1877, 1878, and 1879, Trichinopoly, Tanjore, Pudukotta, Madura; furlough from 13th May 1879 to 6th December 1880; 1880-81; Madura, Tinnevelly, officiated as Deputy Superintendent from 7th December 1880 to 13th June 1881; appointed Deputy Superintendent from 7th December 1880 to 13th June 1881; appointed Deputy Superintendent from 7th December 1880 to 13th June 1881; appointed Deputy Superintendent from 7th December 1880 to 13th June 1881; appointed Deputy Superintendent from 7th December 1880 to 13th June 1881; appointed Deputy Superintendent from 7th December 1880, finally be 22nd October 1882; 1882-83, Madura and Kurnul; 1883-84 ENGAGED in England for the Geological Survey; joined as Assistant on the 28th September the Madras University and Member of the Faculty of Engineering, 1884; 1884-85, Bellary.

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 Tehri 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 poing; 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 Blutan 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 25t

MR. THEODORE WILLIAM HUGHES HUGHES, A.R.S.M., F.J.S.

Appointed in England by the Secretary of State on 16th October 1862; joined the Survey as Assistant on the 11th November 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, Karanpura, Deogarh, Karanpura, Deogarh, Santhalbári, Hthkuri and Daltonganj coal-fields; 1808, 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 boravracks, Ranikhet, 1869; accompanied Government (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 ent 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. Bancrman, visiting the iron deposits of the Central Provinces; officiated as Deputy Superintendent from 9th November 1872 to 17th December 1874; during 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. Apear 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 Snperintendent durin

$M_{R},\ FRANCIS\ FEDDEN,\ _{A,R,8,M,\gamma}$ F.G.8.

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 Manbhum 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; officiated in the 2nd grade from 1st November 1876; transferred to survey of Kattywar, 1877-78; officiated in the 2nd grade from 1st November 1876; transferred to survey of Kattywar, 1877-78; officiated 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, Kattywar; 1882-83, Kattywar, Guzrat, and Museum; officiated in the 1st grade from 8th June 1882 to 22nd February 1883, and from 28th March to 10th May 1883; 1883-84, Museum; acted as Curator from 21st January to 7th March 1884; officiated in 1st grade from 29th April to 12th November 1884; acted as Curator from 29th April to 7th November 1884; furlough from 22nd November 1884.

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 to 17th November 1884

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 Afghanistan to report on gold at Kandahar and petroleum at Sibi; passed in the Vernacular on 15th September 1880; officiated in the 2nd grade from 17th 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; accompanied Takht-i-Suleiman Expedition in December 1883; 1883-84-85, Punjab; attached to Afghan Boundary Commission officiated in 1st grade and as Deputy Superintendent from 7th May to 7th November 1884.

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 Sccretary 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; passed in the vernacular on 1st August 1881; 1881-82, on special service to Manipur; officiated in 2nd grade from 14th June 1881 to 10th April 1883; 1882-83 to 1883-84, Jaunsar and Andamans; promoted to 2nd grade on 11th April 1883; 1884-85, Andamans.

MR. PRAMATHA NATH BOSE, B.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 and Chhattisgarh; officiated in 2nd grade from 2nd March 1882 to 31st March 1884; promoted to 2nd grade from 1st April 1884; 1883-84, Chhattisgarh; 1884-85, Raipur.

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

APPOINTED in Europe by the Secretary of State on 11th October 1881; joined in India as 3rd grade Assistant on 29th November 1881; 1881-82, Garo Hills; passed in the Vernacular on 5th June 1882; officiated in 2nd grade from 8th June 1882 to 17th November 1884; 1882-83 to 1883-84, Assam: officiated in 2nd grade from 22nd November 1884; 1884-85, accompanied North-East Frontier Exploration party.

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MR. EDWARD JAMES JONES, A.R.S.M.

APPOINTED in Europe by the Secretary of State on the 20th September 1883; joined in India as 3rd grade Assistant on the 29th December 1883; 1884, Koren, Jhilmilli, and Ohhindwara; passed in the vernacular on 2nd June 1884; officiated in 2nd grade from 29th April to 12th November 1884; 1884-85, Chhindwara; deputed to Kashmir to report on carthquake.

MR. CHARLES STEWART MIDDLEMISS, B.A. (Cantab.)

APPOINTED in Europe by the Secretary of State on the 20th September 1883; joined in India as 3rd grade Assistant on the 29th December 1883; 1884, Jaunsar and Kumaun; officiated in 2nd grade from 7th May to 7th November 1884; passed in the Vernacular on 6th October 1884; 1884-85, Kumaun.

MR. JULES SCHAUMBURG.

Joined the Survey as Chief Draftsman on 12th April 1869; gazetted as Artist on 7th July 1874; officiated as Principal, Government School of Arts, Calcutta, from 5th June 1882 to 18th November 1884; to supervise the preparation of models and casts for London Exhibition.

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; compiled and carried through the press a catalogue of the books in the library of the Geological Survey of India. 1884; furlough from 18th April 1885.

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 1883-84, Gwalior; furlough from 1st October 1884.

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; 1883-84, Korea, Jhilmilli, and Chhattisgarh; 1884-85, Chhattisgarh.

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MR. THOMAS RAMSAY BLYTH.

Joined the Survey as Museum Assistant on 1st March 1884.