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SURVEY DEPARTMENTS

COBBRCTED TO

1st JANUARY 1886.

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Falbot, Capt. t fanner, Bt. C fapsell, C. fate, G. P. Funillier, Bt. J Fold, H Yold, H Yold, R Yordd, W Yorrens, C. P. Yarner, A. W.	Col. H. LtCo	. C. I	۱.		•	• • • • • • •	• • • • • • • • •		28 24 23 25 25 25 25 25 25 23 	44 33 29 	Wahab, Capt. R. A. Wainright, E. A. Warde, F. E. Ware, T. E. Warwick, R. F. Waterhouse, IttCol. J. Watson, J. White, P. Wilkins, LtCol. W. H Willis, G. S. Wilner, I.tCol. J. R. Wilson, A. J. Wilson, B. Wilson, B. M. Wilson, C. W.	:		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	••••••••••••	4 10 14 19 12 2 21 12 2 14 4 6 20 12 10 10	
llis, H. R. Ilis, J. A. nderBeck, C all, W. R.	G.		• • •	•	•	•		19 19 10 6	 27 28		Wilson, W. A. Wood, C. Wood, C. G. S. Woodthorpe, Bt. Col. 1 Wyatt, A. G.		•	•			6 6 14 4 6	

List of Officers of the Senior Division, Survey of

No. sanctioned.	No. existing in each grude.	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 Bervice counting lowards pension on 1st Jan. '86
		ADMINISTRATIVE STAFF.			Y. M. D.			Y. M. D.
1	1	Bt. Col. G. C. DePrée, s.c.	Topogl.	Р. С. Н.	53 4 28	Oct. 20, 1854	Jan. 12, 1884	
1	1	Bt. LtCol. H. R. Thuillier, B.E	G. T. S.	Р. Н.	47 9 5	Muy 21, 1859	Oct. 1, 1884	•••
1	1	Bt. Col. J. Sconce, s.c.	Rev.	Р. Н.	49 8 29			
		" C. T. Haig, B.R.	G. T. S.	Not passed		Oct. 21, 1859	Jan. 1, 1879	•••
	1	Major C. Strahan, B.B.	Topogl.	Not passed		Sep. 22, 1859	Nov. 1, 1883	• • •
	2	LtCol. J. Waterbouse, s.c.	Topogl.	Р. Н.	43 5 8	Sep. 26, 1863 July 23, 1866	Jan. 10, 1884	• • •
						" my 25, 1866	Jan. 10, 1884	
	3	Major M. W. Rogers, B.B	G. T. S.	L.S.	43 10 26	July 30, 1866	Aug. 7, 1884	
		SENIOR DIVISION.	ļ					
		DEPUTY SUPERINTENDENTS.						
3		IST GRADE.						
	1	Bt. Col. C. T. Hnig, B.E						
	2	Bt. LtCol. J. Herschel, B.E., F.B S.	- G. T. S.		48-2-1	Nov. 12, 1859	Jan12, 1984	
	3	Major G. Straban, R.E	Topogl.	P. H.	46 10 24	July 2, 1862	Nov. 10, 1884	
8		2ND GRADE. 1 Grad mer 1	evente					
	1			<u>Р. н.</u>	47-10-22	March 1, 1862	(Oct. 1, 1871.) Jan. 1, 1878 }	
	2	Bt. Col. D. Macdonald, s.c.	Rev.	Р. Н.	50 0 21		Jan. 1, 1878	
	3	LtCol. F. Coddington, s.c.	Rev.	Р. Н.	47 7 10	Jan. 17, 1862	Oct. 27, 1878	
	4	Major C. Strahan, B.R.	•••					
		LtCol. W. Barron, s.c	Rev.	Р. Н.	47 11 15	June 27, 1862	Aug. 7, 1884	
	1	Bt. Col. H. C. B. Tanner, Bombay s.c.	Rev.	Р. Н.	50 5 15	Oct. 10, 1862	Oct. 1, 1884	
		Major W. J. Heaviside, B.B	G. T. S.	Р. Н.	45 2 27	March 1, 1866	Nov. 10, 1884	• • •
	8	LtCol. A. Pullan, s.c.	G. T. S.	, Р. Н.	49 9 0	Jan. 18, 1863	Nov. 28, 1884	· · ·
10		BED GBADE	hun hun h					
	1 2	W H Willing an 7 fronte	Re⊽.	Р. Н.		Dec. 30, 1862		· · ·
	1	LtCol. D. C. Andrew, s.c. ² . ¹	Rev.	Р. Н.	44 2 25	April 27, 1863 (Det. 27, 1878	• • •
	3	Major J. E. Sandeman, s.c	Rev.	Р. Н.	42 3 29 0	Dct. 6, 1864 J	Jan. 1, 1879	
	4	LtCol. W. F. Badgley, s.c	Topogl.	Р. Н <i>.</i>	48 1 21 1	Мау Э, 1865 І	Dec. 14, 1880	
	5	Major T. H. Holdich, B.B	Topogl.	L. S.	42 10 16 J	July 23, 1866 A	April 29, 1883	
		LtCol. J. Waterhouse, S.C	· · · ·		• • •	• • • •		· · ·
		Major M. W. Rogers, B.B	· • • • •	• • •	· • •			· • ·
	8	"J. Hill, B.B	G. T. S.	Not passed	45 0 7 I	Dec. 18, 1866 0	oct. 1, 1884	
	9	M.r. H. Hörst	Topogl.	Not passed	51 7 27 A	April 1, 1868 N	lov. 10, 1894	27 7 27
	10	" ₩. H. Cole, м.л.	G. T. S.	н. s.	49 0 16 5	Jan. 3, 1867A }		17 11 29
				11, 5,	*0 0 10 {	Sep. 1, 1867 B 3	1101.20, 1009	.,

India Department, as it stood on 1st January 1886.

each grade.	Consolid Şalar		E	xtra allowances, if any.	Survey Party or Office to which at present attached.	REMARKS.
-	R	ı. p.				
1	3,000	0 0			Surveyor General of India.	
1	2,200	0 0			Deputy Surveyor General in charge, Revenue Survey	
-					Brauch.	For 2 years from 14th March 1884.
1	• •	·			On furlough	Officiating Deputy Surveyor General. In charge Trigonometrical Survey
••	2,000	0 0				Branch and Omees.
1	1,482 i	0 0	1	a) Presidency, R60 .	Assistant Surveyor General .	and Map Record and issue onces, rich quarter Lithographic and Photo-
2	1,100	0 0	0	b) Special local. R200, and (c) inclusive of	Ditto • • ·	graphic Offices, Read Quarters, Calculte.
3	1,182]	.0 0		personal R100. a) Fresidency, R60 .	Ditto	Deputy Superintendent, 3rd Grade. In charge Mathematical Instrument Office and Correspondence Office, Head Quarters, Calculta.
1					Dehra Dun	Officiniting Deputy Surveyor General. In charge Trigonometrical Survey Branch and Offices. Referred to March 85
2	<u> </u>	• •	+		On duty, Europe.	pare tal.
3	1,600	0 (D	· · · ·	In charge Astronomical No. 2 Party, Mussoorie.	
,					On furlough	For 1 year from 6th December 1994. Batension for 6 months.
-					Ditto · ·	For 2 years from 7th March 1884.
2	1,600		0		In charge Punjab Traverse	Officiating Deputy Superintendent, lat Grade.
3	1,000	U			Survey, Simla. Head Quarters, Calcutta .	Assistant Surveyor General.
4	1 200		0		In charge Mozufferpore Dist	
5	1,300				(Cadastral) Survey, Darjeeling In charge Himalaya Topogl	
6			0		Survey, Simla. In charge Astronomical No. 1	
7	1,482		0	• • •	Party, Mussoorie. In charge Cutch Survey, Poons	
8	1,300	0	0			
					In charge Deccan Topographi	Officiating Deputy Superintendent, 2nd Grade.
1			0		cal Survey, Poona. In charge Raipur Distric	2144-
	1,300	0	0		Traverse Survey and Superin- tending detached Parties working in C. P. and Rajpu	8
					tana, Mussoorie. In charge Gorakhpur Distric	Duus ditto.
:			0		(Codestrol) Survey, Naini Te	
	1,100	0	0	(d) Inclusive of person R100.	cal Survey, Poona.	
	5 1,182	10	0	· · · · ·	Afghan Boundary Commission	• Assislant Surveyor General.
	3		•		Head Quarters, Culcutta .	Ditto.
	,	·	•		Ditto	
	1,182	10	0		Tidal and Leveling operation India, Burma, Ceylon, &c. Poona.	a second and the second s
	9 1,000	0	0	(e) Burma, R125	. In charge Burma Topogl Survey, Rangoon.	reckoned under new rules.
1	1,000	0	0		In charge Computing Party Dehra Dun.	 (A) Appointed on probation. Exclusive of service as references to bank matter, Government College, Agra, from 14th April 1882 to eud February 1863. (B) Brought on the strength of the Department, 257.

17 A

List of Officers of the Senior Divisio

Denormanic round.	No. existing in each grade.	Names of Officers.	Branch to which originally posted.	Passed in Vernacula	Age.	Date of appointment to the Department.	Date of promotion to the present grade.	*Period of service counting towards pension on lst Jan. '66
		SENIOR EMUSION	ł		Y. M. D.			Ү. М. D.
		SENIOR DIVISION-concld. DEPUTY SUPERINTENDENTS-concld.		nece He :	chel			
1		4TH GRADE.	3. prale	pice te				
	1	Major A. W. Baird, R.E., F.B.S., A.I.C.B.	G. T. S.	Р. Н.	43 2 5	Dec. 4, 1868	July 1, 1882	
	2	,, J. R. McCullagh, R.E. 3 14 14	G. T. S.	L.S.	43 9 5	Feb. 12, 1869		
	3	LtCol. J. R. Wilmer, s.c.	Topogl.	H. S.	44 11 12	Aug. 24, 1869	July 1, 1882 July 1, 1882	••••
	4	" S. H. Cowan, s.c.	Rev.	Р. Н.	44 9 20			• • •
ł	5	Major E. H. Steel, s.c.	Rev.	н. s.	44 3 16	Jan. 19, 1867	April 29, 1883	· · .
	6	LtCol. H. S. Hutchinson, s.c.	Rev.	п. s. Р. н.	41 7 26	Feb. 1, 1867	Jan. 10, 1884	•••
	-		A.C Y ,	г. п.	45 8 20	Aug. 13, 1867	Aug. 7, 1884	
	7	Mr. E. C. Barrett	Rev.	H. S.	42 8 16	Dec. 30, 1868	Oct. 1, 1884	21 0 11
	8	Major R. Beavan, s.c.	Rev.	Р. н.	42 3 11	July 17, 1868	Nov. 10, 1884	l
	9	B. Col. R. G. Woodthorpe, B.B.	Topogl.	L.S.			Nov. 28, 1884	•••
ł	10	Mr. G. H. Cooke	Rev.	L. S.			.	17 0 15
	11	,, E . J. Jackson	Rev.	H. S.			Oct. 26, 1885	16 6 29
	1	ASSISTANT SUPERINTENDENTS. 1st GRADE. Capt. St. G. C. Gore, B.B.	G. T. S.	Not passed	36 10 8	April 11, 1873	Oct. 10, 1882	
ļ	2	"J. R. Hobday, s.c.	Topogl.	н. s.			April 15, 1893	
	3	" the Hon'ble M. G. Talbot, R.E.	t	н. s.	í		April 29, 1883	
	4	Lieut. F. B. Longe, R.E	+	Not passed			Jan. 10, 1884	
	5	Capt. R. A. Wahab, R.E	+	H. S.	30 8 18		Aug. 7, 1884	• • •
	6	Mr. E. C. Ryall	G. T. S.	Not passed	47 11 15	April 1, 1873	Feb. 1, 1883	30 7 10
ĺ	7	"W. H. Patterson	Re v .	L. S.	47 3 6 J	Jan. 22, 1883	Det. 1, 1884	23 11 15
	8	"F.W.Kelly	Rev.	H. S.	52 4 5 F	Feb. 22, 1883	Nov. 10, 1884	30 6 OA
	9	Lieut. H. M. Jackson, R.B.	+	H. S.	2795 J	une 11, 1883 1	Nov. 28, 1884	
1	10	"W. H. Pollen, B.E.	+	L. S.			Det. 22, 1885	
1	1	"G. B. Hodgson, s.c.	t	н, s.		ep. 12, 1883 C		
		2ND GBADE.			ĺ			
	1	Lieut. S. G. Burrard, n.z	+	L. S.	25 4 19 S	ep. 2, 1884 S	ep. 2, 1884	
I	2	Mr. A. D'Souza				et. 1, 1884 0		5 1 1 5 B
	3	"G. B. Scott	Rev.	н. s.	41 5 1 N	lov. 10, 1884 N	lov. 10, 1884 2	2 8 0
		"J. Eccles, M.A		Ì	1	1		072
	5 1	Lieuit. J. M. Fleming, s.c	+	- ([uly 3, 1885	
	6 1	Vacant.			[1

Applies only to officers who are under the Uncormanted Service Rules.
 Joined the Department after the amalgamation on the 1st January 1878.

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Survey of India Department, as it stood on 1st January 1886-concluded.

each grade.	Cons Sa	olid lar <u>i</u>	at€ 7•	a	Ex	tta allowances, if any.	Survey Party or Office to which at present attached.		Remarks.
	R	a	1						
						- ··· - 1100	In charge Tidal and Leveling	Officiating Deputy Superir	stendent, 3rd Grade.
1	1,182	10)	0	(a)) Deputation, R100 .	Operations, India, Burma, Ceylon, &c., Poona.		ditto. A francisco de la companya de
2	1,182	10)	0			In charge Mysore Topogi. Survey, Bangalore.	-	ditto,
3	1,100	()	0	(b)) Inclusive of person- al, H100, and (r)	In charge Baluchistan Topogl. Survey, Mussoorie.		
4	1,100) ()	0		Baluchistan, R100) Inclusive of personal, (1)00.	In charge Basti District (Cadws- tral) Survey, Naini Tal.	Ditto	ditto.
5	950) ()	0	(b)	D100	In charge Bilaspur District (Cadastral) Survey, Mussoorie.		
6	950) ()	0	(d) Burma, R200, and (b) inclusive of person	In charge Akyab District (Cadastral) Survey, British		
7	85)	0	0		al, R100.	Burma, Akvab. In charge Kamrup District (Cadastral) Survey, Assam,	Joined the Junior Divisi from 20th June 1869. 12th July 1882.	on, 18th November 1862. Sick leave for 1 month. Furlough for 2 years, from 27th August 1880 to
8	95		0	0	()) Inclusive of person-	Shillong. In charge Rajputana Topogra-		
9	1,03			0		al, R 100.	phical Survey, Mussoorie. On special duty.		۰ T a
10		 0		0			In charge Jubbulpore District Traverse Survey, Mussoorie.	from 22nd May 1880	ion, 6th December 1866, Furland for 2 year ; extension for 12 days without pay.
11		•	•				On furlough .	For 1 year from 4th Nov September 1864. Siel	rember 1885. Joined the Junior Division, 201 k leave from 3th July to 3rd August and from 194 ember 1867. Europe, medical certificate, from 237 vember 1872. Furlough to Europe, from 1st Ma
1	9	90	0	0			Afghan Boundary Commission	• Officiating Deputy Supe	rintendent, 4th Grade.
2	1	50	e	C			In charge Andaman Topogra phical Survey, Mussoorie.		ditto.
3	9	90	0	C			Afghan Boundary Commission		ditto.
4	9	20	0	C			In charge South Maratha Topo graphical Survey, Poona.		dillo.
5	9	90	0	(Gorakhpur District (Cadastra)		dillo.
6	8	ō0	0	(In charge Coast Triangulatio Survey, Mussoorie.	D Ditto sion 25th April 1955 cluded under old : 1993, excluded.	ditto. Joined the Junior Di . Two bundred and twenty-five days' sick leave i rules. Sick leave for 26 days from 10th Decemb
7	ε	50	C	. (In charge Mirzapar Topogra phical Survey, Mussoorie.	 Officiating Deputy Super Ist December 1861, August 1802, Ditte 	rintendent, 4th Grade. Joined the Junior Divisi Leave on private affairs from 1st May to 3 o to Surope from 20th July 1872 to 18th Janua
ε	•	00	(,	0	(d) Burma, R200	. Akyab District (Cadastral) Su vey, British Burma, Akyab.	F- Joined the Junior Div under old rules. 3 which was oversta mencement of seco	, inty 1879 to 2nd January 1880. vision, 4th December 1854. (A) Service reckor special Loave for 4 months from 21st January 18 sycal from 21st May to 20th August 1869. Cu au service, 17th August 1869.
1		570	()	0		Basti District (Cadastral) Su vey, Naini Tal.		under 10 illion R.
10		370	()	0		Himalaya Topographical Su vey, Simla.	r-	
1:	1	5 0 0)	0	(e) Presidency, R100	. Head Quarters, Calcutta		
ĺ	1	67 0	,	0	0		Astronomical No. 1 Part	y, Officiating Assistant S	uperintendent, 1at Grade.
	. (600			0		Mussoorie. Raipur District Traverse Su vey, Mussoorie.		ditto, Joined the Junior D 3 1859. (1), Exclusive of 349 days' furlough, 77 d
		ഒറ	,	n		<u>-</u>	Bilaspur District (Cadastre	Difficiating Assistant	cortificate, and 33 days' proparatory leave under 1 Suporintendent, 1st Grade. Joined the Junior D
	3	600 600		0	0		Survey, Mussoorie. Computing Party, Debra Du	91011, 181 July 1000.	
1	5	500			0	(c) Presidency R100	Head Quarters, Calcutta	• On probation.	1. 1. 1. 1 .
	"	5.51	-			· · · · · · · · · · · · · · · · · · ·			ڭ • ھو
	1		_			1	ovenuo aud Agriculturo, No. 519-81-4, date	ad 18th Sentember 1884.	

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List of Officers of the Junior Division, Survey

of India Department, as it stood on 1st January 1886.

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	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 of service counting towards pension on lst Jan.'86.
					Y. M. D.			Y. M. D.
		JUNIOR DIVISION.		Ì				
		SURVEYORS.						
3		1st GRADE.						
		Salary R500.						
-	-1	Mr. J. Peyton	GT. S		.54.6.0	Feb. 3, 1860	April 1, 1874	-
		"G.A.McGill	. Topogl.	L. S.	47 8 7	April 8, 1855	March 7, 1982	30 8 3
	ĺ	"D. Atkinson	. Topogl.	• • •	48 7 24	Aug. 4, 1856	,	29 4 28
	2	,, F. Grant	. Rev.		49 9 6	July 11, 1856	Feb. 22, 1883	29 5 21
	3	" C. Wood	G. T. S.	L, S.	43 5 10	May 6, 1858	•	27 5 10
	4	"H. E. T. Keelan	. G. T. S.		42 9 1	Aug. 17, 1858	Oct. 29, 1883	
	5	•	Rev.	L. S.	43 11 15	Sep. 1, 1859	Nov. 1, 1883	
	6	"A.J.Wilson	. Topogl.	L. S.	43 4 0	Oct. 1, 1860	June 2,1884	
	7	"G. W. E. Atkinson	G. T. S.		42 2 20	Aug. 1, 1859	Nov. 10, 1884	
	8	"J.A.May	. Topogl.	• • •	44 716	Oct. 1, 1860	March 1, 1895	26 0 0
	,	2ND GRADB. Salary R400.	G. T. S.		£1 6 97	Nov. 26, 1855.	Dec. 1, 1872	
1		Mr. L. H. Clarke	. G. T. S.		51 6 27	Jan. 11, 1856	June 1, 1874	
	2	"W. Todd · · ·	. G. 1. 5. . Rev.		47 1 21 51 7 19	Dec. 27, 1863	Feb. 22, 1883	1
	3	"James Todd	. Rev.	L. S.	51 7 19 45 1 7	July 24, 1860	April 1, 1883	
		"S. M. Smylie				Oct. 6, 1860	Sep. 23, 1883	
	4	"J. S. Pemberton	. Rev.	L. S.	42 5 23	Oct. 6, 1860	Oct. 29, 1983	
	ō	"H. R. Littlewood	. Rev.	· · · ·	42 1 25		Nov. 1, 1883	
	6	"W.A.Wilson	. Rev.	L.S.	42 7 12	Jan. 1, 1861		
	7	"A. M. Lawson	. Rev.	L. S.	46 11 29	Nov. 18, 1862	June 2, 1884	
·		"E. S. P. Atkinson	. Topogl.		40 5 4	Aug. 13, 1861	March 1, 1885	
	8	"A.J. Gibson · · ·	. Rev.		44 1 0	May 1, 1861	March 1, 1885	
	9	"M.J. Ogle · · ·	. Topogl.		43 9 27 49 8 6	July 1, 1863 Oct. 1, 1860	April 1, 1883	
	10	"F.Adams	. Topogl,		49 8 0	000 1,1000	Inpite 1, 2000	
4		3nd Gnade. Salary R350.						
	1	Mr. W. S. Buttress	. Rev.		41 10 12	Sep. 1, 1860	Nov. 13, 1879	25 4 (
	2	,, W. R. Vyall	. Rev.		47 0 2	June 13, 1856	Jan. 23, 1883	27 6 1
	3	" A. G. Wyatt	. Topogl.		40 10 6	Nov. 1, 1861	Feb. 22, 1883	23 2 6
	4	"H. W. Peychers	. G. T. S.		43 0 18	April 8, 1862	March 12, 1883	23 8 23
	5	"G. Belcham	G. T. S.	н. s.	40 10 15	Nov. 1, 1862	April 1, 1883	23 2 0
	6	"H. Dowman .	. Rev.		39 6 2 0	Oct. 16, 1862	Sep. 5, 1883	23 2 1
								1

Applies only to others who are under the Uncovenanted Service Rules.

Survey Party or Office to which REMARKS. Gonsolidated Salary. Extra allowances, if any. at present attached. R a. p. Sal 86 South Maratha Topographical Service reckoued under new rules. Sick leave from 1st November 1871 to 23th February 1873. Service reckoned under old rales. 500 0 .0 Survey. Chiel Draftsman, Head Quar-600 0 0 ters, Calcutta. Doing duty, Office of Director General of Statistics. Service reckoned under old rules. . . . Bilaspur District (Cadastral) 500 0 0 Survey. Service reckoned under old rules. Computing Party . (a) Dehra Office, R50 Exclusive of 11 months and 13 days' furlough and 16 days' sick leave under 500 0 0 Punjab Traverse Survey 0 0 Furlough from 1st July 1982 to 9th October 1893. 500 In charge, Sambalpur Survey (b) Charge, R50 0 500 0 Apprentice Draftsman from 1st January 1060. Trigonometrical Branch Office, • 500 0 0 Dehra Dun. Service reckoned under old rules. ditto Ditto (a) Dehra Office, R50 0 0 500 Apprentice Draftsman from 1st January 1860. ditto Ditto 500 0 0 1.20 171 Trigonometrical-Branch Office, Doing duty as Solar Photographer. (A) Inclusive of 2 years, which count as service out of 4 years 20 days on medical certificate under old rules. -0 ·0 400 Rajputana Topographical Sur-Dehra Dun. Furlough in Indis, from 16th April 1883 to 30th September 1884. Over-stayed privilege leave by 1 day in August 1874. 0 400 0 2 Jubbulpore District Traverse Furlough from 8th November 1682 to 11th March 1889. 400 0 0 3 Survey Head Draftsman, Head Quar-0 ters, Calcutta. Overslayed privilege leave by 5 days in June 1869. 450 0 Punjab Traverse Survey 0 0 400 4 Akyab District (Cadastral) (c) Burma, R100 Survey, British Burma. 400 0 0 5 Mozufferpore District (Cadastral) 0 0 6 400 Survey. South Maratha Topographical Furlough for 1 year 3 months and 13 days, from 20th July 1876 to 8th November 1877, and wick leave for 19 days in September 1807. 400 0 0 7 Survey. Doing duty, Settlement Depart-Absent without leave for 3 days in January 1886. 400 0 0 ment, Punjab. ... In charge Ajmere Survey Furlough to Europe for 1 year, from 21st November 1877 to 20th Novem-ber 1878. (d) Charge, R50 8 400 0 0 Topographical Baluchistan (D) Inclusive of service as Sub-Surveyor, from 3rd November 1866 to 30th September 1860. (e) Baluchistan, R100 0 0 9 400 Survey. On duty at Head Quarters, Cal-(f) Presidency house 0 0 400 10 cutts. rent, R30. Raipur District Traverse Survey Copylat from 1st to 30th September 1880. 350 0 0 Furlough for 2 years from 1st August 1883. 1 Doing duty as Instructor under Furlough from 11th November 1983 to 6th November 1984. C. P. Government. 350 0 0 2 On duty at Head Quarters, Cal-(f) Presidency house 350 0 0 3 cutta. Service reckoned under old rules. rent, **R3**0. Computing Party (a) Dehra Office, R50 0 4 350 0 Service reckoned under old rules. Tidel and Leveling Operations, Absent without leave 3 days, sick leave 3 days in October 1965, 4 days in December 1965, and from 11th to 16th December 1966. (g) Deputation, R50 India, Burma, Ceylon, &c. Jubbulpore District Traverse 350 0 0 5 Approactice from 1st January 1860 to 4th November 1863. (C) Exclusive of 7 years 0 months 11 days' service under 22 years of age. 350 0 0 6 Survey. Gorakhpur District (Cadastral) 350 0 0 7 Survey. Financial Resolution No. 3990, dated 22nd December 1804, and No. 2570, dated 30th November 1871.
Department of Revenue and Agriculture, No. 3023, dated 11th July 1984.
Department of Home, Revenue and Agriculture, No. 171, dated dith May 1880.
Strevyor General's Departmental Order No. 52, dated 7th January 1888.
Department of Revenue and Agriculture, No. 2524, dated 16th December 1868.
Financial Resolution No. 704, dated 22nd February 1888.
Surveyor General's No. 9634-6, dated 20th September 1865. 7

List of Officers of the Junior Division, Surr

of India Department, as it stood on 1st January 1886 -continued.

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 of service counting towards pension on Let Jan. '86.	No. existing in each grade.	Consolida Salary	r.	Extra allowances, if avÿ	Survey Party or Office to which at present attached.	Remarks.
	JUNIOE DIVISIONcontd. SUBVEYORS—concld. 3RD GBADE—concld. Salary R350—concld.			Y. M. D.			Ÿ. M. D.	-	₽₹a.	p.			, *:
8	Mr. H. T. Hanby	Rev.	L. S.	39 2 12	Nov. 13, 1862			8	350 0	0 0		Basti District(Cadastral) Survey.	
9	" L. J. Pocock T.	G. T. S.	H. S.	42 3 5	July 10, 1863	Nor 1 1000	23 1 18	9	350 0	0 0		igneriter - 1.1%	(A) Exclusive of 89 days' sick leave.
10	"A.Christie	G. T. S.	H. S.	40 3 1	Aug. 7, 1863	INOV. 1, 1883	20 0 74	10	350 0	0 0		Bilaspur District (Cadastral) Survey.	
11	"W.J.O'Sullivan .	G. T. S.		41 10 17				11	350 0	0 0		Basti District (Cadastral) Survey	and the second of the In England
12	"W. W. McNair	Topogl.		35 3 18	-,	Oct. 1, 1884		12	350 0	0 0		Astronomical No. 1 Party .	Farlough for 1 year from 28th March 1893. On duty in Englan monthy from 28th March 1895. Estraordicary leave for 8 week 28th Juno 1884.
13	" Ŋ.C. Gwynne	G. T. S.	1 1		Oct. 19, 1863	Nov. 10, 1884	12 3 10	13	350	0 0		Rajputana Topogl. Survey.	
14	" W.C. Price	G. T. S.			Nov. 1, 1863			14	350	0 0		Basti District (Cadastral) Survey.	
	4TH GRADE.	:											•
	Salary #300.											1	
1	Mr. C. H. McA'Fee	G. T. S.	L. S.	36 1 15	a		201	1	300	0 0		Trigonometrical Branch Office,	Sick leave for 1 month from 30th December 1832. Passed th C. E. College Examination in 1864.
		0. 1. 5.	1. 5.	30 1 15	Sep. 6, 1864	Aug. 1, 1875	14 0 15					Mirzapur Topogl. Survey.	
2	"C. F. Hamer	' Topogl.		39 4 24	Aug. 3, 1863	July 13, 1878	17 2 24	2		0 0		-	
3	"J. H. O'Donel	Rev.		40 5 20	Oct. 1, 1863	Oct. 22, 1879	18 5 20		3 300	0 0	(a) Assam, R50 .	. Kamrup District (Cadastral) Survey, Assam.	
4	" T. E. M. Claudius	Topogl.	× .	20 7 0					4 300	0 0	(b) Baluchistan, R100		
5	,, A. J. James .	Topogl.	1		Aug. 10, 1863				5 300	0 0		Mysore Topogl. Survey.	
	"T. H. Rendell	G. T. S.	1		June 15, 1864				6 300	0 0		. On duty, Quarter Master Gene ral's Office, Simla.	-
	"J. T. U. Coxen	Rev.			Oct. 11, 1864 May 16, 1863		ľ		7 300	0 0		Jubbulpore District Travers	e Sick leave from Elh to 31st October 1878, and for 6 months November 1878. On furlough in India for 6 months, from 28 26th October 1883. Ou leave without allowances from 1st Jul
							5.3		8 300	0 0) (a) Assam, R50 .	. Kamrup District (Cadastral Survey, Assain.) Apprentice from 12th April to 30th June 1884.
8	"D.A.King	Rev.		39 1 26 A	April 12, 1864	April 1, 1883	17 1 25		270	0		Draftsman and Compiler, Hea	a
• •	,, W.Stotesbury	Topogl.	H. S. L.S. Cona- resc.	38 5 6 0	Oct. 4, 1864	July 21, 1883	16 5 6	.	370			Quarters, Calcutta.	- Apprentice from lat January to 31st December 1864.
, ,	"R.B. Smart	Rev.	L.S. 3	18 6 2 J	an. 1, 1864	Sep. 5, 1883	16 6 2		9 300	0	0	tral) Survey.	
	F Kitchen								10 300) ()	o · · ·	. Mysore Topogl. Survey .	(B) Exclusive of 2 months' sick leave.
	"F. Kitchen	Topogl.			Oct. 1, 1864				11 300	0 (0 • • •	. Ditto	. (C) Exclusive of 30 days' sick leave.
	, Hugh Todd	G. T. S. G. T. S.		ļ	uly 15, 1865 (12 300	0 0	o	. Tidal and Leveling Operation India, Burma, Coylon, &o.	s, (D) Exclusive of 6 months and 5 deys' leave on private affairs rules.
		_			Iarch 1, 1865 1		· [*		13 300	0 0	0 (a) Assam, R50 .	. Kamrup District (Cadastra Survey, Assam.	1)
	, J. Connor	Rev.	3	9 3 24 J	'eb. 15, 1865 J	une 2, 1884	16 3 24		14 30	0 0	0		er Absentiwithout leave 1 day, and sick leave for 10 days in Octo
'	"T.H.Dumue	Rev.	L. S. 3	805 F	eb. 15, 1865 S	ep. 1, 1884	15 11 24		15 30	0 0	0	. Trigonometrical Branch Offi	ce, (E) Exclusive of 20 days' sick leave.
1	, J. Bond	G. T. S.	31	5'11 24 0	ct. 18, 1866 C	et. 1, 1884	13 11 4 1					Dehrs Dun. Mirzapur Topogl. Survey	. (F) Exclusive of 33 days' slok leave.
Ì.,	, C. D. Potter	G. T. S.	L.S. 40	9 97 0	et. 29, 1866 N	OF. 10 1884	8 9 24			0 0		Guzerat Topogl. Survey.	
,,	J. Newland	Rev.			et. 29, 1866 N				17 30	ю о		. Gancias Tologu arrest.	
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(In: 0) Office Assistant, from \$28.6 November 1808 to 31st October 1871.	Generation District (Cadnet		31 520	6I9 8I	July 21, 1883		_	ъ т	י. קר
. State of the sta	Mysore Topogl. Survey .		30 350	14 312	8881 ,06 ling A		91 8 98	1	-
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(or 1 year, rout ashe occurrent to Europe on (ni) pay for 1 year 10 faontha (F) Inclusive of apeedal leave to Europe on (ni) pay for 1 year 10 faontha and 23 days, from 201h April 1876 to 2 ud 21 acch 1876.	Bolnehistan Topogl. Survey	$\begin{array}{c c} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} \left \begin{array}{c} (b) \\ Balachisten, \\ Bala$	520 250	6971	J ^{80.} 22, 1883		6[9 46		
Office Assistant, from 181 Journation 1891 to 21st September 1882.	C. P. Government.		56 550	81 OT ET	1883, 17, 1883		32 IQ I8		
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Leave on medical certificate, from 28ad October to 28th November 1989.	. Yoving . IgogoT ranual	unta ~	57	SI 4 02	1881 'L aunf	Dec. 1, 1864	91 P 77		
1985 November 1983	Sambalpur Survey.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000	91 8 81	1881,1 lirgA	781, 16, 1867	91 01 48	• • •	
Dinreh 1880, and S mounto the Yorkin Page. Office Assistant from Puriough from 1st April to 30th Xorkinber 1982. Office Assistant from 1stu Scytember 1897 to 31st July 1870.	On duly at Hend Quarters, Ca	-эвпой тольгезиенся ропые-		52 8 4I	1881 , L ling A	a7381,12 enut.	40 I 55	Ъ. S. Л	
(E) Commencement of accord service. Sick lower for 3 months from let blurch 1649, and 2 months from let August 1869. Direch 1649, and 2 months from let August 1892. Office Assistant from the service of the service	Punjab Traverso Survey	0 0	17	9TT 11	1881 ,1 ling A	6981 ,12 fird A	93 J J 2	ъ. з.	
Bick leave for accord service. Sick leave for 3 months from 1st	InstanbaD) toiridaid nughlaroD	00	020	2 9 EI	1881 ,1 ling A	6981 '13 'Suy	32 4 5		.1
	Himalaya Topogl. Survey.	00	61	31 971	1881 'I ling A	Bast ,21 ,55. 1868	8I9 1/6	• • •	. 's
	Burme Topogl. Survey.	Ditto	9 030	5 10 61	1881 ,1 ling A	6981 ,ö .asl.	39 015		
	Akyab District (Cadustral) Sur- voy, British Burna.	· 0 (c) Burma, H100	11	a4 4 PT	1881 'I lind A	8981 'I ÅuK	82 0 48	• • • *	1
per 1907.	Mirzapur Topogi, Survey	0	0 097 21	1 9 FI	1881 'I lind A	8981 '21 -das	P 9 98		1
(D) Exclusive of leave on medical certificate, from 14th Secomber 1957 to the factor of the Norem-	Doing duly as Instructor unuer		19 220 0	42 2 01		8981 '6 'das	47 6 18	I'' 8'	
	Gorakhpur District (Cadastral) Survey		0 092 91	°4 € 91		8981 '8 Avic	2 8 68	's'ग	·s
Bildnom 8 101 moisneitze : 0881 valt tet mort and 1000000	Aanna Bodol, usumpuy		14 520 0	91 7- 81	1881,1 lingA	8981 '9 ÅPT	91 17 56		
(C) Exclusive of furiough for 364 days, from 1st Morember 1879 to 30th	In duly at Head Quarters, Cal-	2	13 520 0	ET 4 91	1881,1 fingA	_	ET 4 4E	's 'I	
•	top Topogl. Survey.		15 520 0	41 9 101		8981 ,02 ling A	21 11 98	ีร บ	
•	Second Topolar magazine	(n)	11 520 0	862 7 41	1881 ,I lingA		82 9 68	·s ·7	. ₁
(B) Exclusive of 8 months, sick least Exclusive of 8 months, sick leave.	-		10 052 01	12 9 50-					
(1) Ըստազուտություն «գտրված աներիչ»։ (1) Արտանությունը հատեսան հարկանություն» (1) Մորտերանությունը (1) հեր հիմ հաշե	irzapur Topogl. Survey.		0 02 6		1881 I. Hirak	2981 'I 'AoN		's 'т	
	and an and an and an and an and an	5 · · IO	8 520 0	FI 9 EI	1881,1 lingA		171 9 96		
urlough for 1 year, from lat lanuary to 31st Decomber 1870.	Meateriet Traverse Sur- ipur District Traverse Sur- (feitenbed) (feitenbed) 1 (feitenbed)		4 520 0		Nov. 22, 1890	4981 '61 'uvf	27 6 96		
• .	Titsman, main incursion	ŭa · · · · ·	300 00		1″JA 6 1880	Eeb. 1, 1867	27 2 98	T S	
·			0 0 027 9		Jan. 1, 1880			I''S''	ļ
ok leave for 16 days, from 26th May to 0th Jane 1900.	yab District (Cadastral) SI	a l	9 0 0 92 9		6481 'β ∡lnr		1	'S 'I	1 1
	gynometrical Branch Office,				8481 'I . 'Suy		03 9 48	.г.н	
Lyear from 176h September 1896.	e la construction de la construc	() was a first (a)	3 520 0 0	1	8481,81 yiul.		83 9 48		l .i
· · · · ·	.Covrad. Survey.		5 520 0 0		8481 'I .nst		818 68		1
	ore Topogli Survey.	otu?) .81H , locale local, H15. Cutc	J 520 0 0	41 1 61	2481 'I .30O	1981,2 .guA	21117	г. з.	1
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میں ایک ایک <mark>ایک می</mark> در ایک			1 1 2 2 1	FDJEALO1	present grade.	Department.		Vernarian	
	at present attached.	Extra allowances, if any orth	E Consolidated	Saivies Saijanoo	Tomotion	appointment fine fit of	.93A	րու Lussed	
Вяльцка.	y Party or Office to which	(971mP	e. s ii	Period of	9- 040(I	Date of .			01
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.bə v ai	1003-9881 montant +	·		l		*			

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• Applies only to officers who are ander the Uncovenanted Bervice Bules.

Department, as it stood on 1st January 1886 -Continued.

No. existing in	Names of Officers.	Branch to which originally posted.	Passed in Vernacular.	Åge.	Date of appointme nt to the Department.	Date of promotion to the present grade.	*Period of service counting towards pension on lst Jan.' 86	No. existing in each grade.	Consoli Sala	idated ry.	Extra allowances, if any.	Survey Party or Office to which at present attached.	REMARKS.
	JUNIOR DIVISION-cont. ASSISTANT SURVEYORS-contd.			Y. M. D.	,		Y. M. D.			a. p.	•		
	1st GRADE-concld.												
	Salary R200, rising to R250-concld.											Baluchistan Topogl. Survey.	
36	Mr. A. Kitchen	Topogl.		32 11 4	Oct. 1, 1872	Dec. 1, 188	3 10 11 4	36	3 210	0 0	(a) Baluchistan, R100 .		
37	" E. P. S. Hill	Rev.	H. S., L. S., Persian.	30 5 15	Nov. 16, 1872	June 2, 188	4 8 * 5 15	3	7 210	0 0	· · · ·	Himalaya Topogn Curry	Apprentice from 1st April 1872 to 15th April 1874.
38	" R. R. Dickinson	Rev.	L. S.	34 5 6	April 16, 1873	Sep. 1, 189	4 12 15 6	3	8 210	0 0 0		Survey. Deccan Topogl. Survey	 Appretation with a start of a s
39	,, P.₩ hite	Topogl.	L. S.	35 2 23	Oct. 1, 1872	Oct. 1, 188	4, 11 0 15,	3		0 0 0			 (A) Exclusive of sick leave for 3 months from 218, Ottomore pay up extended for 3 months; further extension of leave writhout pay to 31 17th August 1879 to 31 17th August 1870 to 31 17th August 1870 to 31 17th (Ottober 1881. Exclusion to 28th January 1833. On sick leave for 3 months; from 5 November 1888 to 4th Fobruary 1884. Previous service as Sub-Surveyor from 1st November 1872.
						N. 10.100					0 . Reluchiston, R100	Baluchistan Topogl. Survey	, Previous service as Sab-Surveyor road of the
40		Topogl.	L. S.		Aug. 11, 1873				40 20		(a) Balucinstein,	2 Guzerat Topogl. Survey.	
41	,, G. A. Knight	Topogl.		31 8 9	Aug. 11, 1873	March 1, 188	5 9 8 9		41 20	ju v	(0) Hall sould roomly at		
1													
	2nd Grade.											-	rs. Apprentice from 1st February to 14th November 1872.
	Sulary R160, rising to R200.			97 9 17	Nov. 15, 1872	Anuil 1 100			1	L81, 0	0 (b) Presidency ho	use On duty at Head Quarte	t leave without pay, from 21st Murch to 13th Nove
		Rev. G. T. S.	L. S.		Nov. 20, 1873		*			192 0	rent, R20 .	Tidal and Leveling Operation India, Burma, Ceylon, &c.	1978, and of period on furlough (with pay) and July 1886.
. 2	"H. Corkery, B.A., LL.B.	0. 1. 5.	D . D .	04 410	11011 20, 10,0	hp in 1,100	× o 2 ab					On deputation, Straits Set	
	, P.A. Peters	Rev.	L, S.	31 0 23	Nov. 1, 1879	Jan. 17, 188	33 9 0 23					ment Survey.	ons,
1.5	, P. F. Prunty	G. T. S.		31 .0 6	May 9, 1874	Jan. 22, 188	3 9 0 6		3	176 0	0	India, Burma, Ceylon, &c. Andaman Topogl. Survey.	· · ·
4	J. Keating	G. T. S.		31 7 27	June 1, 1874	Feb. 22, 188	33 9 7 27	1	1 1	176 0		. Sambalpur Survey .	. Sick leave, from 6th to 22nd February 1879.
1	, C. S. Kraal	Rev.	L.S.	32 2 6	July 24, 1874	April 1, 188	33 10 1 19			176 0	0	ocal, Guzerat Topogl. Survey.	
	3 " S. F. Norman	G. T. S.		31 4 23	Sep. 1, 1874	April 30, 188	33 9 4 23		6	176 0	R10-9.	Ditto.	
1 2	,, C. Norman .	G. T. S.	L. S.	29 7 12	Oct. 12, 1874	Oct. 6, 188	33 7 7 12		7		0 0 (ð) Ditto •	Andaman Topogl. Survey	Joined as a Sub-Surveyor on 3rd July 1872.
8	, D. Campbell	Topogl.		33 1 13	Nov. 1, 1874	Nov. 1, 188	3 11 1 12	ł	. 8	176		Basti District (Cadastral)S	arvey.
) "L.F.Berkeley	Rev.	L.S	31 4 3	Aug. 16, 1875	Nov. 13, 188	33 9 🙀 3		9			Prinutana Topogi. Survey	
10) "G. P. Tate	+	L.S.	29 5 9	March 12, 1878	B Nov. 21, 188	33 7 5 [°] 9		10	176			
1	J. M. Kennedy	G. T. S.		29 1 28	Aug. 19, 1876	Nov. 24, 188	33 7 1 28		11	176		Bilaspur District (Cade	astral) Sick leave from 8th April to 14th September 1883.
1	2 " P. C. H. Smart	+		30 3 15	April 18, 1878	B Dec. 1, 186	83 7 3 6	{	12			Survey.	Previous service as Suu-Survivo interestingate for 2 months
1	3 "C.George	+	L. S.	33 0 24	Sep. 5, 1878	B Dec. 1, 18	83 11 0 24	ł	13	1	R10-1-3.	. Basti District (Cadastral)	(D) Exclusive of leave on medical certificate for 2 months, in Delober to 9th December 1977. Also for 6 months, from 1st Ma Delober 1879, Also for 4 months and 25 days from .30th Aug Oetober 1879, August 1895.
1	4 " R. F. Warwick	G. T. S.	L. S.	30 9 6	July 2, 1876	5 March 1, 188	84 6 7 29D		14	168		Kamrup District (Cad	Also from four role
.		+	L, S.	28 2 23	Oct. 11, 1878	Sep. 1. 18	84 6 2 23		15	168	0 0 (c) Assam, R40	Survey, Assam.	C
1	· ·	' +	L.S.		Oat. 15, 1870				16	168	0 0 (b) Half scale R10-1-9.	local, Deccan Topogr. Survey Const Triangulation Sur	4
1		.	L. S.		Dec. 21, 1874			ł	17	168	00	1	(F) Exclusive of 2 months and 1 and to 28th July 1980.
1		· ·	1 . is.		April 15, 187	1 *		ĥ	18	160	$0 \ 0 \ (d) \ Burma, = 100$	Tubbulpore District	and a set and the set of the set
		· · ·			Sep. 12, 188			l.	11	9 160	, o o o · · ·	Survey South Maratha Topogl.	
	9 ,, J. A. Higgs . 0 ,, O. D. Smart .	+			Oct. 1, 188	1 1			12		0 0 0	Jubbulpore District	
		· ·			Nov. 16, 188				2		0 0 0	Survey. Rajputana Topogl. Sur	
		+	1		May 1, 189			- } -	2	2 16	0 0 0 · ·	-	
1	2 , M. Gastaud		• • •		, 190			Ĩ	l	 	a an an an State r and a state state state.	(a) Department of Revenue and Agricult (b) Financial Resolution No. 704, dated (b) Financial Resolution No. 404 Agricult	and the sease dated 15th Determotion

List of Officers of the Junior Division, Survey of

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dia Department, as it stood on 1st January 1886-concluded.

NO. EXISTING ID	c Names of Officers. Origina poster	ly V	Age.	Date of appointment to the Department.	Date of promotion to the present grade.		E Consolidated Salary.	es, if any. Survey Party or Office to which at present attached.	REMARKS.
	JUNIOR DIVISION -concid. ASSISTANT SURVEYORS -concid. 3nD GRADE. Salary R120, rising to R160. Mr. P. Beechey	L. S. 	 21 6 4 21 2 10 19 6 18 21 0 11 20 4 10 24 5 15 19 5 21 22 0 1 22 0 1 21 2 8 24 5 28 22 3 17 24 3 16 17 6 0 18 8 6 34 3 24 20 3 4 	 Dec. 1, 1882 Feb. 25, 1883 Sep. 1, 1883 Oct. 15, 1883 Dec. 13, 1883 Dec. 23, 1883 Jan. 10, 1884 Jan. 15, 1884 March 14, 1884 April 21, 1884 April 24, 1884 Aug. 1, 1884 Aug. 18, 1884 Aug. 2, 1884 Nov. 24, 1884 Nov. 13, 18844 	Jan. 22, 188; Feb. 25, 188; Sep. 1, 188; Oct. 15, 188; Dec. 13, 188; Jan. 10, 188; Jan. 10, 188; Jan. 15, 188; March 14, 188; April 21, 188; April 24, 188; Aug. 1, 188; Aug. 18, 188; Nov. 24, 188; Nov. 24, 188; Feb. 25, 188;	1 st Jnn, '86, Y. M. D. 2 5 14 1 11 21 1 11 21 1 11 21 1 11 21 1 8 0 3 17 1 4 1 1 19	R a. p. 1 136 0 0 2 136 0 0 (a) 2 136 0 0 (a) 2 136 0 0 (a) 3 136 0 0 . 4 136 0 0 . 5 128 0 0 . 6 136 0 0 . 7 128 0 0 . 9 128 0 0 . 10 128 0 0 . 11 128 0 0 . 12 128 0 0 . 13 128 0 0 . 14 128 0 0 . 15 128 0 0 . 16 120 0 0 . 18 120 0 0 . 19 . . .	 Raipur District Traverse Survey Mozufferpore District (Cadastral) Survey. Bilaspur District (Cadastral) Survey. Punjab Traverse Survey. Gorakhpur District (Cadastral) Survey. Raipur District Traverse Survey. Mysore Topogl. Survey. Cutch Topogl. Survey. Guzerat Topogl. Survey. 	., (A) Date of re-spyolstment
22	Ditto						22	(a) Department of Home, Revenue and Agricult (b) Department of Revenue and Agriculture, No	

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Names of Administrative and Technical Offices of the Survey of India Department as they stood on 1st January 1886.

Surveyor General's Deputy Surveyor General's, Reve Ditto, Topo Map, Record and Issue Drawing and Compiling Engraving Mathematical Instrument Photozincographic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trigo	ninistr enue Br graphic	<i>ative.</i> ranch		TA.					
Surveyor General's Deputy Surveyor General's, Reve Ditto, Topo, Map, Record and Issue Trawing and Compiling Engraving . Tablematical Instrument Photozineographic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trigo Drawing and Compiling Mateorological Photozineography Pringing	enue Br graphic	ranch							
Surveyor General's Deputy Surveyor General's, Reve Ditto, Topo, Map, Record and Issue Trawing and Compiling Engraving . Tablematical Instrument Photozineographic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trigo Drawing and Compiling Mateorological Photozineography Pringing	enue Br graphic	ranch							
Deputy Surveyor General's, Reve Ditto, Topo Map, Record and Issue	graphic	ranch	•					Accounts January January	1.
Ditto, Topo; Map, Record and Issue	graphic	-1 D		•	•	•	•	Accounts, Correspondence	A. S. G., S. G. (
Map, Record and Issue Ta Drawing and Compiling Sugraving Anti- Subtographic and Printing Mathematical Instrument Photozineographic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trigo Trawing and Compiling Cateorological Photozineography Tinging	•		nah	•	•	•	•	Ditto	D. S. G., Rev
Drawing and Compiling Engraving 4 Dithographic and Printing Wathsmatical Instrument Photozincographic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trigo Techni Drawing and Compiling Mateorological Photozincography Tiniping			цец	•	•	•	•		D. S. G., Topo.
Drawing and Compiling Lograving		•	•	·	•	•	•	Correspondence, Receipts and Issues	A. S. G., D.O. & I
Drawing and Compiling Sugraving	echnica	ıl.							
Engraving . Lithographic and Printing Mathematical Instrument Photozinengraphic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trigo Techni Drawing and Compiling . Lateorological Photozineography Tinging .								Mapping	
Vathematical Instrument Photozinčegraphic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trige Techni Drawing and Compiling . fateorological . Photozincography ringing .		:			·	•		On copper by hand	A.S.G., D.O. &
Vathematical Instrument Photozinčegraphic TRIGONOMETRICAL Adm Deputy Surveyor General's, Trige Techni Drawing and Compiling . fateorological . Photozincography ringing .				•	•	•	•	Mapping, Litho. and Type Printing	Do., Do.
Photozineographic TRIGONOMETRICAJ Adm Deputy Surveyor General's, Trigo Techni Drawing and Compiling Mateorological Photozineography Tinping	• •				•	·		Repairing, Storing and Issue	Do., Litho.
TRIGONOMETRICAI Adm Deputy Surveyor General's, Trigo Techni Drawing and Compiling . Interiorological . Photozincography . Tringing .			•				÷	Photo. Reproduction and Zinc Printing	Do., M. I. O. Do., Photo.
Deputy Surveyor General's, Trig Techni Drawing and Compiling . Asteorological . Photozincography Trințing .			, DEH	IRA	DUN.	•			
Techni Drawing and Compiling . Mateorological Photozincography Prințing									
Drawing and Compiling . Asteorological Photozincography Printing	onomet	rical I	Branch	•	•	•	•	Accounts, Correspondence	D. S. G., Trig.
feteorological hotozincography rinting	cal Sec	ctions.							
hotozincography Printing	•							Mapping	Do.
rinting	•							• • • • • • •	Do.
rinting	•		•	•		•	•	Photo. Reproduction and Zinc Printing	Do.
Photoheliography .	•	•	•					Letter-press Printing	Do.
	•			•				Solar Photography	Do.
									1
HEAD QUARTE		FFICE	5, 813	ILA.					
Adm	ERS OF	ative.							
urveyor General's	ERS OI ninistra							Direction and Correspondence	S. G.

Names of Field Parties of the Survey of India Department as they stood on 1st January 1886.

Nan	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 as Fidal and Les	No. 7 No. 9 •	l 2 · · pe P	•	•	NCH. : : :	· · ·	Secondary Triangula- tion.	Astr. 1 . Astr. 2 . Coast . Comp Tidal .	Electro-Longitude Observation Ditto ditto Minor Triangulation Reduction and Publication Automatic Tide Registering and Great Leveling.	D. S. G., Trig. Do. Do. Do. Do. Do.
TOPOG	RAP	піс	AL I	BRAN	сн.					
Andaman					•	•	No. 4 Topographical .	And	Triangulation & Topography	
Baluchistan			•	•	•	•	No. 3 do	Bal	Ditto .	Ditto.
Burma .	•	·	•	·	•	•	No. 7 do	Bur	Triang., Traverse and Forest	Ditto.
a)								Cutch .	Topography. Triangulation & Topography	Ditto.
Cutch .	•	·	·	•	•	•	No. 11 Revenue	Dec.	Triangulation & Topography Triang., Trav. & Topog.	D. S. G., Rev.
Deccan Guzerat	•	•	•	•	•	· ' !	No. 11 Kevenue	Guz.	Ditto	S. G. and D. S. G., Topo.
Himalaya	•	•	•	•	•	•	Darjeeling Party	Him.	Triangulation & Topography	D. S. G., Trig.
Mirzapur	•	·	·	•	:	•	No. 5 do.	Mirz.	Ditto	D. S. G., Trig.
M vsore	·	•	•	•	·	•	No.8 do.	Mvs.	Ditto	8. G. and D. S. G., Topo.
Rajputana	:	•	•	•	÷	•	No. 1 do.	Raj.	Ditto	D. S. G., Trig.
South Maratl		÷	÷	÷	÷	:	No. 10 Revenue .	S. Mar.	Triang., Traverse & Topog	Do., Rev.
	EVEN		BRA	NCII				<u></u>		<u></u>
Aimere					•		Detucht, No. 3 Rev.	Aim	Traverse	D. S. G., Rev.
Akyab .		:					No. 7 Revenue	Aky.	Cadastral .	Do.
Basti .	÷.	•				÷	No. 4 do.	Basti .	Do.	Do,
Bilaspur					•		No. 2 do	Bil.	Do	Do.
Gorakhpur							No. 5 do	Gorakh	Do	Do.
Jubbulpore	:						No. 2 Topographical .	Jab	Traverse	Do,
Kamrup			÷				No 6 Revenue	Kamr.	Cadastral	Do.
Mozufferpore							No. 8 do.	Mozuf.	Do	Do.
Punjab		÷	:		÷		No. 1 do.	Puni	Traverse and Compilation .	Do.
Raipur	•	•			:		No. 3 do.	Raip.	Traverse	Do.
	•	•	•	•	•	•	Detacht. No. 3 Rev.	Samb.	Do.	Do.

Disposition List of Officers of the Survey of India Department, attached to the Head Quarters Offices at Calcutta and Dehra,

lst January 1886. Details of superin-Date of tendence and appoint-ment. Officers of the Class. Grade. Officers of the remarks. Junior Division. Administrative Officers. Senior Division. Name of Office. 783 3 1.6 Feb. 12, '83 Surveyor General of Colonel G. C. DePrée, s.c. Jan. 1, 83 Andaman Balneh India. Burma (Fores Cutch Surveyor Guzerat Mysore Deputy General, in charge of Topographical Branch. Sep. 8, 85 1st A.Sup. Lieut. G. B. Hodg-Personal Assistant son, s.c. . (Offices, Calcutta and Simla). Mar. 5, '84 Ajmere Survey. Akyab " Bastu " Biaspur " Borakapper Jankoupper Jankoupper Morniflerpore " Ponjab " Kanjur " South Maratha ... Lieut.-Col. H. R. Thuillier Surveyor Deputy General, in charge Revenue Branch. R.E.* Office, Calcutta. 1st Oct. 1, '84 Superintendence of Uffices at Debra and of-Astr. No. 1 Party. Do. No. 2 do. Coast Survey. Himaina ... Rajputana ... Tiana and Leveling D.Sup. Surveyor Colonel C. T. Haig, R.E. Deputy (Officiating). General, in charge Trigonometrica l Branch. Operations Jan. 12, 84 In charge Comp. Party. D.Sup. 3rd W. H. Cole, Esq. July 26, 85 Computing Party 2nd A.Sup M.A. J. Eccles, Esq., M.A May 1,65 Ditto. 1st s. Mr. C. Wood Doing duty Oct. 1, 85 Drawing Office. s. 1st A. J. Wilson . . . G. W. E. Atkin Sep. 1, 70 Ditlo. 1st S. 6011. · . Nov. 1,85 Ditto. s. lst . J. A. May Oct. 1, 74 Photoheliography s. 2nd L. H. Clarke tion. Sep. 1, 71 Computing Party 3rd S. H. W. Peychers Feb. 1, 85 Drawing Office 4th C. H. McA'Fee Offices. Dehra and s. Mussoorie. Oct. 1, 85 Ditto. s. 4th J. Bond July 1,85 Ditto. 1st W. J. Cornelius A.S. 3rd Oct. 1, 85 Dilto. " F. E. Warde A. S. · Colonel J. Sennee, Deputy Surveyor General (on furlough). 17

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Disposition List of Officers of the Survey of India Department, attached to the Head Quarters Offices at Calcutta and Dehra, 1st January 1886--concluded.

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.
Assistant Surveyor General, Drawing	Major C. Straban, B.E.		• • • • •	D.Sup.	2ud	July 24, '83	4
and Engraving Offices.			Mr. G. A. McGill .	S.	1st {	Dec. 20, 82 June 2, 84	Date of joining 9, 1, 4 of appointmen as Chief Dratteman
			" S. M. Smylie .	s.	2nd	Mar. 12, 83	
			" F. Adams .	S .	2nd	June 1, 77	
			" A. G. Wyatt .	s.	3rd	Nov. 14, 84	
			" W. Stotesbury .	S.	4th {	June 24, 84 Sep. 1, 84	Date of joining 8.1. ,, of appointments as Draftsman,
			" P. J. W. Dorar	A. S.	1.1	Oct. 25, 89 Jan. 1, 85	Date of joining a r
			" S. O. Madras .	A. S.	lst	May 7, 84	
			" E. J. Martin .	A. S.	lst	Dec. 1, 82	2
Office, Calcutta.					ĺ		
Assistant Surveyor General, Surveyor General's Office, and Mathematical Instrument Office.	Major M. W. Rogers, R.E.	• • •		D. Sup	3rd	Apl. 19, '8:	3
Office, Calcutta.							
Assistant Surveyor General, Litho- graphic and Pho- tographic Offices.	LtCol. J. Walerhouse, s.c.			D. Sup	. 3rd {	Dec. '6 Apl. 19, 8	6
		Licut. J. M. Fle ing s.c.	m	A.Sup	. 2nd	July 3,8	5
Office, Calcutta.							-
Map, Record and Issue Office.	Major C. Strahan, B.E		Mr. B. M. Wilson	D. Sup A. S.	1	Nov. 1,'8	2
Office, Calcutta.							

List of Technical and Ministerial Officers of the Survey of India Department, drawing Rs. 100 and above, as it stood on 1st January 1886.

Date of Date of REMARKO. Government in ppointment to Salary. Designation. present pay. Age. вегтісе. Names. R a. p. Y. M. D. SURVEY OF INDIA 500 0 0 Aug. 9, 1861 April 1, 1885 Short drawn Re. OFFICES. 41 10 7 Registrar . Mr. T. W. Babonau SURVEYOR GENERAL'S OFFICE. 250 0 0 Jan. 13, 1855 Aug. 1, 1884 Correspondence Section. 48 10 18 Head Clerk 125 0 0 Mar. 20, 1868 Aug. 1, 1885 Short drawu Be. 5. Mr. M. Francis 41 9 0 Clerk . Babu Banee Madhub Banerjee 225 0 0 Dec. 30, 1878 Dec. 1, 1885 Short drawn Re. 60 Account Section. 33 8 13 | Head Accountant 100 0 0 Jan. 1, 1859 Dec. 1, 1885 Ditto Bs. 5, Mr. E. D. Algar 48 7 18 2nd " Babu Bama Churn Chuckerbutty 150 0 0 April 1, 1871 Dec. 1, 1885 Short drawn Rs. 40. General Section. 37 4 21 Clerk 100 0 0 April 1, 1883 Aug. 21, 1885 Mr. J. A. Vallis 27 3 7 Ditto "H. R. D'Mello REVENUE SURVEY 300 0 0 Sep. 15, 1852 Mar. 1, 1871 BRANCH OFFICE. 52 2 1 Head Clerk 125 0 0 Jan. 1, 1859 Sep. 1, 1885 Mr. A. C. Cunningham . 46 2 4 Clerk Babu Kali Podo Banerjee TOPOGRAPHICAL SURVEY 175 0 0 Sep. 21, 1871 Aug. 1, 1884 BRANCH OFFICE. 39 7 1 Head Clerk 100 0 U April 5, 1869 Aug. 1, 1884 Short drawu Re. 5. Mr. T. E. Ware · 39 1 0 Clerk Babu Doorga Narain Ghose MAP, RECORD AND ISSUE OFFICE. 48 1 0 Head Assistant Mr. A. E. Byrn 200 0 0 Mar. 5, 1869 Dec. 1, 1885 Short drawn Rs. 40. Personal allowance. 35 10 12 Map Curator "H.R. Vallis DRAWING OFFICE. 600 0 0 Chief Draftsman Sec page 18. Mr. G. A. McGill . 450 0 0 Head ditto . " S. M. Smylie . . 325 0 0 Draftsman . . Vacant 250 0 0 Jan. 1. 1862 Sep. 1, 1874 EUBOPEAN DRAFTSMEN. Draftsman 46 3 20 200 0 0 Mar. 23, 1866 Sep. 1, 1874 Mr. W. Green . Ditto 38 9 16 150 0 0 April 22, 1877 Oct. 1, 1885 Short drawn Rs. 5. "J. R. Adels · Ditto 27 10 10 100 0 0 June 1, 1880 Dec. 1, 1883 " A. J. Musgrove 24 0 29 Ditto Shorl drawn Rs. 10. 100 0 0 Dec. 6, 1882 Sep. 8, 1885 " R. Sinclair Ditto 28 1 26 ., A. S. Bateman . 160 0 0 Mar. 31, 1854 Jan. 1, 1874 NATIVE DRAFTSMEN. Draftsman 51 9 7 150 0 0 Mar. 1, 1859 Feb. 1, 1875 Munshee Sonaullah Ditto 46 0 0 125 0 0 Feb. 5, 1857 May 1, 1876 ,, Nabi Baksh Ditto 54 9 23 100 0 0 Dec. 1, 1856 May 1, 1880 Babu Hari Hur Scu Ditto 49 0 25 Mohesh Chunder Shaw 19

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List of Technibal and Ministerial Officers of the Survey of India Department, drawing Rs. 100 and above, as it stood on 1st January 1886—continued. List of Technical and Ministerial Officers of the Survey of India Department, drawing Rs. 100 and above, as it stood on 1st January 1886—concluded.

Names.	Age.	Designation.	Salary.	Date of appointment in Government service.	Date of appointment to present pay.	REMARKS.
ADDITIONAL ESTABLIS MENT, DRAWING OFFICE.	H- Y. M. I).	R a. p.			** *
Mr. W. Stotesbury .		Draftsman .	400 0 0			
"P.J. W. Doran		Do	300 0 0			Short drawn Rs. 30. See page 18.
SUB-SURVEYORS ON DUTY.						
Babu Madhu Sudun Dutt	. 49 10	Sub-Surveyor .	100 0 0	Dec. 15, 1858	0.6 1 1007	, .
Mr. F. Rencontre	. 27 7 2	-	100 0 0	1	Oct. 1, 1865	
ENGRAVING OFFICE.				Nov. 1, 1880	Nov. 1, 1879	
Mr. C. W. Coard	. 55 2 2) Superintendent of	1.000 0 0	27		
, W. Donaldson	. 45 1 23	Engravers.	1,000 0 0	Nov. 4, 1868	Feb. 1, 1884	Exclusive of house refit Rs. 100, Short drawn Rs. 50.
" G. G. Palmer			700 0 0	Nov. 6, 1868	Jan. 1, 1884	· · ·
	. 55 11 9		550 0 0	Sep. 5, 1872	Dec. 1, 1882	Exclusive of house-rent Rs. 50.
	. 45 1 6		550 0 0	Sep. 21, 1872	Jan. 1, 1886	Ditto ditto
	. 42 5 20		450 0 0	Oct. 10, 1972	Jan. 1, 1886	Exclusive of house-rent Rs 50, Short drawn Rs, 20,
"T. B. Rodger	. 34 3 24	6th Do.	350 0 0	Aug. 20, 1872	Aug. 1, 1884	Exclusive of house-rent Rs. 50,
,, A. G. Palmer	· 32 4 1	7th Do	300 0 0	April 1, 1874	May 1, 1880	Dítto ditto.
" S. M. Coard	. 27 4 11	8th Do	250 0 0	Feb. 1, 1875	May 1, 1885	
"A. W. N. James .	. 25 11 11	9th Do	200 0 0	Mar. 15, 1878	Aug. 1, 1885	
"A. R. Coard .	. 24 2 29	10th Do	150 0 0	Mar. 15, 1878	April 1, 1885	
" A. D. M. Chamarette	. 22 .7 26	11th Do	100 0 0	Mar. 15, 1878	April 1, 1882	
" E. C. Ollenbach	. 24 11 8	12th Do	100 0 0	Aug. 1, 1879	Aug. 1, 1882	
" W. T. Collins .	27 2 1		150 0 0	Jan. 6, 1880	May 1, 1884	
Babu Russie Lall Roy .	51 5 20	Printer, 1st Native En-	125 0 0	Sep. 1, 1869	Sep. 1, 1877	
" Joy Kristo Shaw .	. 37 2 28	graver. 2nd Do	100 0 0	Aug. 1, 1869	Aug. 1, 1883	•
LITHOGRAPHIC OFFICE.			-	g . ,	3 -, 2000	
DBAWING SECTION.		,				
Mr. H. L. Lepage	. 42 7 5	Head Assistant .	450 0 0	July 15, 1871	Dec. 1, 1881	
Munshi Mahomed Azim	. 54 8 0	Examiner .	100 0 0	April 3, 1852	May 1, 1884	Short drawn Rs. 5.
LITHOGRAPHIC PRESS SECTION					1	
Mr. D. Deas	30 3 21	Head Lithogra-	300 0 0	Nov. 29, 1883	Nov. 29, 1885	Short drawn lis, 30,
"B. Wilson	25 5 28	phic Printer. Asst. Do	100 0 0	Mar. 1, 1883	Nov. 1, 1894	Short drawn Rs. 20.
TYPOGRAPHIC SECTION.	1				1	R.
"E. D'Pyvah	35 9 16	Hend Printer .	100 0 0	Aug. 1, 1868	Nov. 1, 1884	, X
MATHEMATICAL INSTRU- MENT OFFICE.					•	
WORKSHOP SECTION. Mr. T. Bolton	40 11 01					
	40 11 21	Mathematical In- strument-maker.	750 0 0	Sep. 16, 1867	Nov. 11, 187:	
"F. Marsball	29 11 23	Assistant Mathe- matical Instru- ment-maker.	500 0 0	Jan. 3, 1881	Jan. 3, 1884 s	Short drawn Its, 50.
CORRESPONDENCE SECTION. Mr. M. O'Drien	53 1 26		800 0 0	11	N., 1 1050	*
" W. Campagnac	27 3 10	Hend Clerk		-	Mar. 1, 1872	Short Jugarn D- ar
• •		Sild Clerk	100 0 0	April 1, 1882	Mar. 20, 185 / 5	500rt drawn (18, 25.
STOBE SECTION. Mr. C. O. Gray	24 1 0 14	Store here	100 0 0			
· · · · ·	1.	Store-keeper .	150 0 0	Feb. 4, 1879	Oct. 1, 1885	

Names.	Age.	Designation.	Salary.	Date of appointment in Government service.	Date of appointment to present pay.	Remarke. ∗*:
PHOTOGRAPHIC OFFICE. Nobmal Establishment.	Y. M. D.		R a. p.	· · ·		
NonMal Established Negative Section. Mr. J. Mackenzie	48 6 1	Photographer	. 330 0 0	June 1, 1862	June 1,1874	Inclusive of house-rent, Rs. 30.
Photo. Transfer Printing Section. Mr. J. Harrold	50 7 8	B Ditto .	330 0 0	Mar. 19, 1873	3 Mar. 11, 1880	Ditto ditto.
Silver Printing Section. Mr. G. G. Dempster	. 33 0 20	5 Ditto .	200 0 0	July 16, 187	3 April 1, 1884	Ditto ditto Ra. 20.
Heliogravuro and Collotype Section. 4 Mr. A. W. Turner	. 33 2 1	2 Photo. Engrave	r. 400 0	0 May 1, 188	5 May 1, 1885	
Zinc Printing Section. Mr. B. Mackenzie	. 44 10	7 Zincographer	. 330 0	0 Nov. 24, 186	57 Nov. 24, 187	9 Inclusive of house-rent, Ra. 30.
General Office Establishmen Mr. W. Moore	. 27 1 3	27 Store-keeper	200 0	0 Sep. 15, 188	3 Aug. 1, 188	5 Short drawn Re. 80.
CADASTRAL ESTADLISHMENT Negative Section. Mr. C. Marshall	. 50 5	11 Photographer	. 330 0			Nut 11- 00
" L. Lagnier · ·	. 35 6		. 200 0 . 100 0	0 Feb. 1, 18 0 July 16, 18		
" T. Lloyd Photo. Transfer Printing Section.	1		330 0	0 Feb. 1, 18	876 Feb. 1, 18	84 { Inclusive of house-real, Rs. 30. Short drawn I's. 80.
Mr. R. George Zinc Printing Section.				0 Nov. 24, 1	867 Mar. 1, 18	380 Inclusive of house-rent, Rs. 30.
Mr. J. Watson 🤣	}	17 Zincographer		0 Nov. 15, 1	1	S86 { Ditto ditto. Short drawn Rs. 60.
" E. A. LeFranc	. 30 0	20 Ditto	•		1880 Aug. 1, 1	885 Short drawn 11s. 30.
"J. B. Mackenzie General Office Establishm Mr. H. Haward	1) 20 Head Assist:	. 100 0		1883 Nov. 16, 1	883 Short drawn Rs. 150.
TRIGONOMETRICAL BRANCH OFFICE.	•					
Computing Section.	. 45	0 0 Computer	240	0 0 Mar. 13, 1	1957 Feb. 1, 1	883
Babu Ganga Pershad		8 0 Ditto	200	0 0 Nov. 6, 2	1865 Feb. 1, 1	1883
" Cally Mohun Ghose	ļ		120		1	1883
" Cally Coomar Chatte	1	-	1	0 0 May 21,		1883
" Tarapola Mukerjce				0 0 July 26,		1883
., Amba Pershad	1	5 16 Ditto	. 100		1	1883 (a) Date of appointment to Edu-
" Umbica Churan Shor	pe · 42	5 16 Ditto	. 100			1883 (a) Date of appointment for an- cational Department, Joined Computing Office, Survey of India, 10th April 1989.
" Soshi Bhooshun Sho	me · 36	2 16 Ditto		0 0 April 15,		1885
" Shiv Nath Saha .	. 35	\$ 1 Ditto	. 100	0 0 Nov. 26,		(1) turninted to Survey of India
Photozinco. Section Mr. C. G. Ollenbach Printing Section.		11 13 Zincograp		0 0 Jan. 1, 18 0 0 Nov. 1, 1		 1883 (b) Alphanica to the top of Lance 1 at November 1965. 1885 (c) Date of appointment to Survey of India. Previous Military service excluded.
Mr. B. V. Hughes Correspondence Secti	46 on.	0 30 Printer	. 230			, 1885 Short drawn Rs. 50.
Mr. F. A. D'Rozario	36	5 28 Head Cler	k . 250	0 0 Oct. 14	, TOLA DULY N	21

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Disposition	List of	Officers	of the	Survey	of Ind	lia Department,
at	tached	to Field	Parties	, lst Ja	nuary	1886.

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	Party.	Superin- Branch.							NATE E			т.	1	
Name of Survey.	Old Number of Party.	D. S. G. and Sup tendent of Brar	Officers of the Senior and Junior Divisions.	Сідяя.	Grade.	Date of appointment to Party.	Sub-Surveyors and Computers.	Writers.	Flagmen and Carriers.	Hospital Assist- ant.	Burke nd azes and Peons.	r l	Annual Cost of Pariy.	BBWABER
	Trigono- metricul. 1		Major W. J. Heaviside, B.E.	D. Sup.	2nd	Dec. 6, '82.							_	
(Electro Longitude observation).			Lieut. S. G. Burrard, B.B.		2 nd	Oct. 9, 85		 					•••	Offg. 1st grade.
an fi Na An			Mr. W. W. McNair .	S.	3rd	Oct. 9,85)
Recess quarters, Mussoorie.							1	1	14		6		36,600	
Astronomical .	2	Trig.	Major G. Strahan, n.e.	D. Sup.	. 1st	Nov. 13, '85								
(Electro Longitude observation).														•
Recese quarters, Mussoorie.							1	1	15		6	•••	14,700	- 2 ⁻¹
Coast		Trig.	E. C. Ryall, Esq.	A.Sup.	 1st	Oct. 6, '85	<u> </u>	 	<u> </u>					Offg. Depy. Supd
(Triangulation).		4		A.Sup.	2nd	July 1, 85								Offg. Depy. Supdi 4th grade.
Recess quarters, Mussoorie.		 				 		1	70	1	9		28,700	<u>.</u>
Tidal and Level- ing.		Trig.	Major A. W. Baird, B.E., F.B.S., A.I.C.B.	D.Sup.	. 4th	July 4, '77								Offg. 3rd grade.
-			Major J. Hill, B.B.	D.Sup.	. 3rd	Dec. 29, 85								Allached,
(Tide registering and Great Level- ing).			Mr. G. Belcham .	8,	3rd	Sep. 1, 79								
ł			"Е. Ј. Совдог .	S.	4th	Dec. 1, 77								
			" Н. Corkery, в.л., L.L.D.	A. 8.	2nd	July 29, 85								
Recran quarters, Poona.			" P. F. l'runty .	A . S .	2nd	Oct. 9, 1885	17	2	{ 34	l) 'emp		ļ	61,100	

_				i			-continu		DINATE E		HEMEN	T.		
ame of Survey.	Old Number of Party.	D. S. G. and Superia- tendent of Branch.	Officers of ar Junior D	the Benior Id Ivisions.	Class.	Grade.	Date of appuintment Lo Party.	Sub-Surveyors and Computers	Writers. Flagmen and Carriers.	Hospital Assist- aut.	Burkundazes	Apotpecary.	nunl st of srty.	B124310.
daman Topo.)	ō Tôpogra- phical. 4		Capt. J. 1 s.c. Mr. G. D. ,, J. Ko ,, D. C.	eating	A.Sup A.S A.S A.S	. 1st . 2nd	Oct. 1, '8 Oct. 6, 8 Nov. 1, 8 Nov. 1, 9	4 33 33	3 1 8					Offg. D. Supdt., 44 grade.
lecess quarter Mussoorie.	9,								3 1 8					
Baluchistan (Topo.) Recess quart. Mussoorie.	. 3		sc. Mr. M. " T. " E ", W " A " I	J. R. Wilm J. Ogle E. M. Claud A. Wainrig 7. C. G. Barc . Kitchen E. Graham	lius tht A kley A A	3. 2n. 5. 4th . S. 1s . S. 1s . S. 1s A, S. 1s	d Nov. 1 h Oct. 1 t June 10 t Oct. t Oct. h Nov.			111	1		75,8	900
Burms (Topo.)	uarlers,		Mr.	J. H. Wilson C. P. Torret W. H. Pen R. A. Gibse W. H. D. J	ns . rose . on .	A. S. Δ. S. A. S.	1st Nov.		5	2 54	18 5	2 11	1,2	24,900
Cutch (Topo.)	1. 		M	eutColonel an, s.c. r. C. Tapsell ,, W. A. Fic ,, G. T. Ha	lding	. A. S.	lst No lst Ma	v. 30,	85 68					

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Disposition List of Officers of the Survey of India Department, attached to India Parties 1st January 1886-continued. 3 . .

	arty.	l Superin- Branch.					Subo	RDI	NATE 1	STARL	ISUNE	Т .		and the second second
Name of Survey.	Old Number of Party	D. S. G. and Sup tendent of Bra	Officers of the Senior aud Jugior Divisions.	Class.	Grade.	Date of appoint- ment to Party.	Sub-Surveyors and Computers.	Writers.	Flagmen and Carriers.	Hospital Assist- ant.	Burkundazes and Peons.	Apotheenry.	Annu al Cost of Pariy,	BBMABES.
eccan . , (Topo.)	Revenue 11	Rev.	LtCol. D. C. Andrew, s.c.	D.Sup.	3rd	Nov. 20, '80			•••			 	•••	Officiating 2nd grade
•			Mr. J. Hickie	A. S.	1st	Nov. 1, 79							4	
			" P. White	A. S.	1st	Oct. 1, 83		Ì		ĺ		ĺ	99 104012	k 7
			"C. George	A. S.	2nd	Nov. 1, 85								\$
			"A. George .	A. S.	2nd	Jume 1,85								
lecess quarters, Poona.						•	18	1	148	1	10			
	<u> </u>		 • .			 	<u>!</u>		 		<u> </u>		2	
uzerat (Topo		Торо.	Lieut. Colonel W. F. Badgley, s.c.	D.Sup.	3rd	Mar. 14, '84		•••	•••				1997 1997 1997	•
-			Mr. J. Newland .	S .	4th	Sep. 1, 85							•	
			" G. A. Knight .	A. S.	1st	June 19, 85	l						ryin X	. • •
			"S. F. Norman	A. S.	2nd	Sep. 1, 74	1	:						
			"C. Norman .	A. S.	2nd	Oct. 12, 74		ļ						
			" P. J. Serrao .	A. S.	3rd	Oct. 1, 84								
					4									
ecess quarters, Poona.							e 7	2	184	1	33	1	83,300	
imalaya (Tapo.)		Trig.	Bt. Colonel H. C. B. Tanner, Bo. s.c.	D.Sup.	2nd	Nov. 1, '82								
•			Lieut. W. H. Pollen, B.E.	A.Sup.	1st	Oct. 1, 85	-							
			Mr. W. Robert .	A. S.	lst	Sep. 1, 78	ŀ				1			
			" E. P. S. Hill .	A. S.	lst	May 23, 85								10 A
			"G. H. Powell .	A. S.	3rd	Oct. 1, 85	s - 1	ŀ						
			•				·							
ecess quarters, Simla.							10	1	{ 60 40	1 Temp	}12		64,700	
	Topogra phical,												97 - 1 197	
lirzapur • (Topo.)	5	Trig.	W. H. Patterson, Esq.			Nov. 11, '85						1	···	Offg, Depy, Sn 4th grade.
-			Mr. L. J. Pocock	S.	3rd	July 1, 85								ļ
			"C. F. Hamer	S.	4th	Aug. 3, 63						İ		
			"C. D. Potter	9.	4th	July 1, 85					İ			5 4
			"H.T. Kitchen		lst	Nov. 1, 66								
iecess quarters, Mussoorie.			,, W. H. Lilley .	A. S.	1st	May 1, 68			0.05		10		<i>27 200</i>	
	1 .	1	1	1	1	1	18	1	200	1	10	1	57,500	1

the second second second second second second second second second second second second second second second se									ESTADL	ISRMENT			l Parties,
amo of Survey.	D, S. G. and Superin- Leudeut of Branch.	Officers Junio	of the Senior and r Divisions.	Closs.	Grade.	Date of appointment to Party.	Sub-Surveyors and Computers.	Writers. Flagmen and	Carricts. Hospital Assist- ant.	Burkundozes and Pcons.	ri l	Annual Cost of Parly.	Rzwinzą.
PIO			• 				-	11					Offg. Srd grade.
sore B Topo.)	Topo.	lagh, 1 Mr. A. ,, F.	J. James Kitchen	. s. . s.	4th 4th	Oct. 1,	84 76 75 76						
		, J , F	ugh Todd . A. Barker . Todd . M. Kennedy f. J. J. Mills	. S. . A. . A. . A.	S. 1st S. 1st S. 2nd	Nov. 1, Oct. 1 Oct. 1	84 , 84 , 75 , 84						
Recess quarters, Bangalore.		- ,,						11 1	128	1 5	53	84,0	00
Receas quarters, Mussoorie.		,, ,, ,,	D Beachev	•	A. S. 2 A. S. 2 A. S. 2	rd Nov. End Mar. 2nd May 3rd Dec. 3rd Oct.	8, 85 12, 78 1, 82 1, 82 1, 83		1 12	0 1	20	0 5	7,300
		M	t. F. B. Long Ir. J. Peyton ,, A. M. Lav ,, W. M. Ka ,, O. D. Smo	9, B.E	A.Sup. S. S. A.S. A.S.	lst Aug 2nd No	. 29, '6 g. 1, ' v. 1, v. 1, t. 1,	85 71 79 85			1		Off Depy. Supd sth grade.
Aimbre (Itraverse.) Receits quarte Mussocie.		Rev.	Mr. A. J. Gi	58011	. 8.	2nd 0	nt. 20	, 85	 9	62		5	 8,400 Detachmen 3 Revenue
	Reven	Rev.	LtCol. H. S son, s.c. F. W. Kelly Mr. H. R. 1	7, E≈q. Littlowo	A.S. od S	up. 1st . 2nd	Det. I Mar. Oct. 2 Nov.	1, 83 4, 83					
A kynb (Cadastrol.)			"G.W.	Jarbo	. Δ.	5. 130	Apl.				1	1 1	1 1

Disposition List of Officers of the Survey of India Department, attached to Field Parties, 1st January 1886—continued.

Disposition List of Officers of the Survey of India Department, attached to Field Parties, 1st January 1886—concluded.

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%. \$	Party	l Superin- Branch.						Sunc	DADI	NATE I	87A BI	.1911 M B	SNT.		
Name of Survey.	Old Number of Party.	D. S. G. and tendent of	Officers of the Scalor and Junior Divisions.	Class.	Gråde.	appoi	te of ntment Party.	Sub-Surveyors and Computers.	Writers.	Flagmen and Carriers.	Hospital Assist- ant.	Burkundazes and Peops.	Apothecary.	Annual Cost of Party.	RBHAREA
Basti (Cadastral.)	Revenu 4	e. Rev.	LtCol. S. H. Cowan, s.c.	-	4th	Deo. 1	1, '83								Offg. 3rd gmde
N= /			Lieut. H. M. Jackson, B.R.	A.Sup.	lst	Sep.	1, 85								
			Mr. H. T. Hanby .	S.	3rd	May	1, 70								
	[" W. J. O'Sullivan .	S.	, 3rd	Aug.	1, 85	ļ							
	Í		" W. C. Price .	s.	3rd	Oct.	1, 80								
	ĺ		" L. F. Berkeley .	A. S.	2nd	Aug. 1	6, 75								
			" R. F. Warwick .	A. S.	2nd	Nov. 1	5, 85								
			,, W. E. Johnson .	A. S.	3rd	Aug. 1	8, 84								
Recess quarters, Naini Tal.			Professional Establi	shment	(Perma	anent)	•	21	1	157	1	17		}	
•			Cadastral Dit	to	(Тетр	orary)	•	304		623				\$1,30,000	
Bilaspur	2	Rev.	Major E. H. Steel,s.c. I	D. Sup.	4th	Nov. 4			Ì	i			Ť		
(Cadastral.)	-		-	A. Sup.	2nd	Oct. 1								•••	
			Mr. F. Grant	s.		Nov.						••••			Offg. 1st grade.
["A. Christie	s.		Nov. 1	,								
				A. S.		Jan. 1									
			-	A. S.	_ 1	Oct. 1									
	Í	· [A. S.		Oct. 1	(
			Professional Establis					25	2	46	1	20	5		
Recess quarters, Mussoorie.			Cadastral Ditt		(Tempo	•				02	_	-• ľ .]}	1,36,200	
		<u> </u>					 	<u> </u>]		1		1		
Gorakhpur . (Cadastral).	5	Rev.	Major J. E. Sande- D man, s.c.	.Sup.	3rd]	Nov.	1, '83			.		.			Offy. 2nd grade.
			Capt. R. A. Wahab, A B.E.	. S up.	lst I	Nov. (3, 85	.				.			Offg. Depy. Supdt 44h grade.
			Mr. E. G. Little .	s .	3rd A	Apl. 1	, 77								
			"T.F.Freeman .	4. S.	lst (Det. 1	, 76								
			"T. Shaw	4. S .	lst I	Nov. 1	, 80	ł							
			"J. Murphy .	A. S.	lst J	July 2	2, 83							· . [•
			,, A. W. Smart .	A. S.	lst C)ct. 1	, 85			İ				.	۰.
1			" N. Bedford . A	A. S.	3rd J	an. 10	, 84		ľ						
	ĺ	1	"W. V. Skilling .	4. 8.	3rd C	Oct. 1	, 85					ł			
D			Professional Establis	hment ((Perman	nent)		14 2	19	95	1 2	80	h		
Recess quarters, Naini Tal.			Cadastral Ditte	b ((Tempor	rary)	. 2	260	. 68	89 .			. }'	1,29,800	
	Topo.			-].		<u></u>	<u></u>	1		, L., 	· ! 			
ubbulpore . (Traverse.)	2			.)ct. 26									
			Mr. J. Todd .				, 85				ĺ				
			"H. Dowman .			∛ov. 1					İ				1
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Disposition List of Officers of the Survey of India Department temporarily transferred to other Departments, or on furlough, &c., 1st January 1886.

Officers of the Senior Division.	Officers of the Junior Division.	Class.	Grade.	Department to which transferred.	REMARKS.		
On Deputation.							
Bt. LtCol. J. Herschel, B.E.		D. Sup.	lst	India Office, London.			
Major T. H. Holdich, B.E.		D. Sup.	3rd	Foreign Department .	Afghan Boundary Commission.		
Bt. Col. R. G. Woodthorpe,							
R.F		D. Sup.	4.th	Ditto	On special doty.		
Captain SL. G. C. Gore, B.E.		A. Sup.	lst	Ditto	Officialing Depy, Sundt., 4th grade Afghan Doundary Commission,		
Captain the Hon. M. G. Talbot, R.E.		A. Sup.	lst	Ditto	Ditto ditto. ditto,		
	Mr. D. Atkinson	s.	lst	Office of Director General of Statistics.			
	"E.S.P.Atkinson .	S.	2nd	Sottlement Department, Rawal Pindi.			
	"W. R. Vyall	S .	3rd	Govt., Central Provinces.			
	"T.H. Rendell	s.	4th	Quarter Master General's Office, Simla.			
	" T. H. Dunne	s.	4th	Govt., Central Provinces.			
	"G. C. Swiney	A. S.	lst	Ditto.			
	"G. E. Parker	A. S.	let	Ditto.			
	,, P. A. Peters	A. S.	2nd	Government, Straits Set- tlement.			
On Furlough, &c.		Ť.					
Bt. Colonel J. Sconce, s.c		D. S. G. Rev.			For 2 years, from 15th March 1884.		
Major T. T. Carter, B.F		D. Sup.	2nd		For 1 year, from 5th December 188 Extension for 6 months.		
Bt. Colonel D. Macdonald, s.c.		D. Sup.	2nđ		For 2 years, from 7th March 1884.		
E. J. Jackson, Esq.		D. Sup.	4th		For 1 year, from 4th November 1895.		
	Mr. R. C. D. Ewing .	A. S.	lst		For 1 year, from 17th September 1885.		

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

Corrected up to 1st January 1886.

BREVET COLONEL GEORGE CHARLES DEPRÉE, B.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 Kyoak-Phyoo for the use of the Officer Commanding; ordered to examine and report upon the Tonghoop Pass between Arakan and Burma, as to its practicability for the passage of 150 elephants required by the force in Pegu, for which duty received letter of thanks by order of His Excellency the Governor General, Lord Dalhousie; appointed Assistant Executive Officer, Chittagong 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, on the same time *ex-oficio* Assistant Commissioner, Cuttack Division, 13th September 1856; organised No. 2 Ganjam Topographical Party in 1857; transferred from No. 1 to No. 2 Ganjam Topographical Party in 1858; owing to the mutiny in 1858 employed in running a series of triangles to define the coast line of the Bay of Bengal i 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 *ex-officio* Assistant Commissioner, Chota Nagpur Division; aluring a long period decided many boundary disputes between the estates of the Rajahs of the Tributary Mehals; joined the Staff Corps, 19th February

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 Licutenant, 12th June 1857; promoted to 1st Licutenant, 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, 1st 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 late October 1884.

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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 India, 2nd April'1854; promoted to 1st Lieutenant, 24rd September 1857; appointed to Bengal 1852; diffe of first commission as and inclusion, bengat Articley, bin 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 1863; 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 1884. 2 years from 14th March 1884.

WAR SERVICES.

Served with the 1st Battalion, Bengel Artillery, and No. 17, Light Field Battery, at the siege and capture of Delbi in September 1857; in action with the rebels at Bulundshuhur in Steps and capture of Denn in September 1657; 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 Cawpore 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 Brunch.

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, commanded a Company of the Bonbay Sappers and Anners with the Ferstan Experitationary Force, 1856-57; returned to India, October 1857; started same month in independent command of a Com-pany 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 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, employ-ed 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; Officiating Deputy Superintendent. 1st grade. 1st November 1879. Colonel, 23rd January 1877; Officiating Deputy Superintendent, 1st grade, 1st November 1879; on deputation as Commissioner, Venice Geographical Exhibition; promoted to Colonel, Ist July 1881; resumed charge of the Guzerat Party on 27th October 1881; Officiating Deputy Super-intendent, 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, from 1st October 1884.

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. BERSCHEL, Royal Engineers (Bengal), F.R.S., &c., Deputy Superintendent, 1st Grade.

JOINED at Addiscome, February 1855; public examination, 12th December 1856; first com-mission, 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; retarned to duty, 8th December 1867; Second Captain, 10th November 1869; Officiating Surveyor, 1st grade, 1st Sth 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 1884.

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

JOINED the Corps of Royal Engineers at Chatham, February 1st, 1859; remained under instruc-tion 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 1861; 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

Vide G. G. O. No. 605, dated 26th September 1669,—vide General Report, 1860 to 1865, page 36, para, 160.

No. 7 Party, Rajputana Survey, 1st September 1864; * took sick leave to England for 20 months, from 10th November 1867 to 6th July

Mereori, 1900 to 1900, page 30, part 190. Mereori, 1900 to 1900, page 30, part 190. 1869; promoted to rank of Captain, January 1869; promoted to rank of Captain, January 1869; promoted to rank of Captain, January 1869; promoted to rank of Captain, January Superintendent, 2nd grade, October 26th, 1870; transferred to charge of No. 8 Party, Mysore Survey, 1st October 1875; furlough to Europe on private affairs, May 1st, 1877; returned to India, April 15th, 1879; received charge of No. 2 Party, Khandesh Survey, June 4th, 1879; received charge of Mysore Topographical Party from 1st November 1879; promoted to rank of Major, 27th May 1881; received charge of No. 2 Astronomical Party from 4th November 1881; Officiating Assistant Surveyor General in charge, Engraving and Cartographic Branches, Head-quarters, Calcutta, from 27th April 1883 to 24th July 1883; received charge of No. 2 Astronomical Party on 1st August 1883; furlough to Europe for one vear from 7th May 1884, extension for 6 quarters, Calcutta, from 27th April 1885 to 24th July 1885; 1885; 1887, 1888, extension for 6 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. On duty in Europe from 10th April to 4th August 1885, inclusive (period to count as service, vide Secretary of State's letter No. 231, [dated 3rd September 1885). In charge Astronomical No. 2 Party from 13th November 1885.

WAR SERVICES.

Nil.

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

Dot Grade. JOINED the service, 11th December 1857; arrived in India, 12th December 1859; did duty with the Bengal Sappers and Miners; appointed Acting Quarter Master to the same from 9th March 1860, and continued as such till 5th February 1860; ordered 6th February 1860 to join the Sikkim Field Force; appointed Probationary Assistant Engineer, Department of Public Works, 21st May 1861; posted to Peshawur Division, Department Public Works, 22nd June 1861; promoted to 2nd class Assistant Engineer, 16th November 1861; officiated as Executive Engineer, Hazara Division, from 18th December 1861 to 30th April 1862; appointed 2nd Assistant in Great Trigonometrical Survey of India, 1st March 1862; joined the Kashmir Party, 1st May 1862; promoted to 1st Assistant, junior grade, 21st April 1864; nominated to charge of Kashmir Party and Kumaon and Garhwal Party, 3rd February 1865, and remained in charge till 1st May 1862; promoted to Surveyor, 3rd grade, 1st April 1866; appointed to charge of the survey party accompanying the Abyssinian Expedition, 1st December 1870 to 8th March 1869, when, on com-pletion 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 1869; Captain, 13th September 1870; furlough to Europe, 18th December 1870 to 16th December 1871; appointed to charge of Leveling Party, 4th December 1871; promoted to Deputy Superintendent, 2nd grade, 1st October 1871; appointed to charge of the Brahmaputra Party, 13th May 1872; reverted to Deputy Superintendent, 3rd grade, on the introduction of consolidated salaries, 1st April 1874; furlough to Europe, 4th January 1875 to 16th November 1876; appointed to charge of the Madrus Party, 20th November 1875 to 31st May 1877; charge of the Guzent Party, 15th June 1877; Major, 1st Oc JOINED the service, 11th December 1857; arrived in India, 12th December 1859; did duty

WAR SERVICES.

Served in the capacity of Survey Officer with the Sikkim Field Force under Lieutenant-Colonel Served in the capacity of Survey Univer which he Sixkin rend rorce 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.B., in 1863, against the Boneyr and other tribes on the North-West Frontier; mentioned in despatches,—*vide* G. O. G. G., Military Depart. ment, No. 76, of 29th January 1864—medal and clasp; served in the Abyssinian Expedition under Lieutenant-General Sir Robert Napier, G.C.B., G.C.S.I.; mentioned in despatches,—vide London Gazette of 30th June 1868—medal.

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; furlongh, 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 Hend-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 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 1878.

WAR SERVICES.

Served with the Campore 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), Deputy Superintendent, 2nd 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; furbough 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; officiated as Assistant Surveyor-General in charge Cartographic and Engraving Branches from 3rd December 1884 to 12th November 1885.

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

zna Graae.

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 Meerut and Peshawur till end of March 1860; did duty with the Peshawur Mountain Train Battery during April and May 1860; rejoined the Artillery Division at Peshawur, June 1860, and 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 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 2nd Division, Lower Provinces, at Dibrugarh, Assam, on 1st February 1867; Officiating Deputy Superintendent, 3rd grade, 6th November 1868; continued there surveying in the Lakhimpur District till 8th December 1869; leave on medical certificate to Europe from 6th January 1870 to 3rd April 1871; promoted to Captain, 11th December 1870; appointed Deputy Superintendent of Survey, 3rd grade, on 1st April 1870; on return from furlough took charge of the North-West Frontier Revenue Survey on 17th April 1871; surveyed in the Dera Ghazi Khan District till 15th October 1873; continued since then in charge, and surveyed District Moradabad (cadastrally) and Distriet 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 1833; continued as Deputy Superintendent, 2nd grade, 7th August 1884; promoted to Lieutenant-Colonel, 11th December 1884; returned from furlough and received charge of No. 8 Revenue Party, Mozufferpore Survey, 16th November 1885. Favourably mentioned in Despatch No. 7, date

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 Burrura Pass; served as Assistant Surveyor with the Umbeyla Expedition, October 1863; severely wounded in the action at the Eagle's Nest Picket on 26th October 1863—wound pension for life—medal with North-West Frontier and Umbeyla clasps.

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 Octo-ber 1862; transferred with the Sind Party to Chanda, Central Provinces; the party became the 4th ary 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, Calcatta, from 11th May to 23rd June 1867; was placed in charge of the 3rd Division, Central Provinces Revenue Survey at Saugor, on 24th June 1867; transferred with the party to the Nimar District in November 1867; became Officiating Deputy Superintendent, 3rd grade, from 6th November 1868; became Deputy Superintendent, 3rd grade, from 1st April 1870; took charge of the Bombay City Survey in addition to his other dutics, in December 1869; transferred with the 3rd Division, Central Provinces Survey, to Bhawalpur; the party became the 1st Division, Bhawalpur Revenue Survey, in November 1870; transferred to the Topographical Party, which accompanied Sir Charles Brownlow's column to the Lushai Hills, on 1st November 1871 to 30th April 1872; on return from the Lushai Expedition was transferred to charge of 4th Division, Central Provinces, from 29th August 1872; the designation of this party was subsequently altered to the 11th Decean Topographical Party from 1st October 1872; parmoted to the rank of Major, 8th June 1874; took furlough on private affairs on 25th August 1876; rejoined the 11th Division, Deccan Survey, on expiration of furlough on 28th April 1877; ordered to join the Khyber column, under Lieutenant-General Sir Samuel Brown, as Surveyor, in November 1878; joined the Great Trigonometrical Survey Office at Mussoorie on completion of Afghanistan campaign in June 1879; on special duty to Gilgit from July 1879 to 18th April 1882; Arginnischt einingen in sune 1979, on special duty to drigte font out, 1979 to toth April 1992; promoted to Lientenant-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.

WAR SERVICES.

Accompanied the Persian Expeditionary Force of 1856 as Subaltern in No. 5 Light Field Battery, and was present at the handing 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 despatchee, and received the thanks of the Government of India; accompanied Sir Samuel Brown's column, 1st Division. Peshawur Valley Field Force, as Surveyor, from the commencement to the termination of hostilities in 1878-79.

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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 Rond Division, Department Public Works, as Prohationnry Assistant Engineer, 15th September 1862; promoted to 2nd grade Assistant (about) 1st May 1863; itnnsferred 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 nuil taking furlough, 16th November 1877; on return from furlough, 28th November 1878, proceeded to join the Southern Afghanistan Field Force; returned to India, and received charge of Khandesh and Bombay Native States Topographical Party, 24th October 1879; received charge of No. 1 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 operations till 29th April 1884, when took over charge of No. 2 Astronomical Party also; Offi

WAR SERVICES.

Served with the Left Centre Column, Bhutan Field Force, as Assistant Field Engineer, 1865-66—Frontier medal and clasp for Blutan; 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.

LIEUTENANT-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, Grent 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 Superintendent, 1st grade, and Officiating Deputy Superintendent, 3rd grade, Great Trigonometrical Survey, 1st January 1878; furlough to Europe for one year, from 13th May 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 Jullundur to Delhi, June 1857; served with the 4th Sikh Infantry throughout the siege of Delhi—severely wounded—medal and clasp—also mentioned in despatches three times during the Indian rebellion, and received the thanks of Sir C. Wingfield, Chief Commissioner of Oudh, for the defence of the town of Bansee when attacked by an insurgent force, July 1858 (horse wounded).

LIEUTENANT-COLONEL 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 Lientenant 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; promoted to Lieutenant-Colonel, 9th December 1885.

WAR SERVICES.

Nil.

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 Angust 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 1ndia 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 Rovenue Survey as Assistant on probation, 27th April 1863; confirmed as Assistant Revenue Surveyor, and appointed to Staff Corps, from 11th May 1864; joined 1st Division, Central Provinces Revenue Survey, 13th November 1864; promoted to Assistant Superintendent, 1st grade, 27th April 1867; Captain, 12th December 1869; 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 12th (Midnapur) Revenue Survey, 1st December 1876; received charge of 14th (Dearah), now 3rd, Division Survey of India, 7th December 1875; received charge of No. 8 Party, Bassein District, British Burma, on 25th November 1881; received personal allowance of Rs. 100 until promotion to Deputy Superintendent, 2nd grade, 15th February 1883; on furlough to Europe for 273 days from 8th June 1883; 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; transferred to charge of Raipur District Survey from 4th Novemb

WAR SERVICES.

Nil.

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; was promoted to Captain by G. G. O., dated 18th June 1873, from 7th June 1873, under R. W. of 16th January 1861; made over charge of the Midnapur Survey in December 1873, and proceeded to join the Goalparah Survey in Assam; in October 1874 was appointed to the Behar Irrigation Survey as Assistant Superintendent; from 1st October 1875 obtained charge of the Dar1st 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 samereceived the Frontier medal.

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

JOINED the service, 4th April 1857; arrived in Calcutta, 15th May 1857; doing duty with Her Majesty's 88th and 53rd Regiments to 25th November 1858; Lieutenant, 18th May 1858; Oudh Military Police, 26th November 1858; Adjutant, 26th Punjab Infantry, to 11th April 1865; appointed to the Topographical Survey on 8th May 1865, and joined No. 5 Party, employed in Rewah and Bundelcund, and remained with that party till October 1868; Assistant Superintendent of Survey, 8th May 1868; Captain, 4th April 1869; furlough, 23rd January 1869 to 21st January 1871; joined and received charge of No. 6 Topographical Party; employed in the Khasi, Garo, and Naga Hills on 8th June 1871, and remained in charge of that party up to 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 1877; 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 1885.

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, Deputy Superintendent, 3rd Grade.

COMMISSIONED Lieutenant, R.E., 17th December 1862; appointed to India, October 1864; arrived in India, 3rd March 1865; appointed Assistant to Lieutenant C. Strahan, R.E., in charge Field Survey Operations in 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 the Afghan Boundary Commission; appointed to officiate as Deputy Superintendent, 2nd grade, from 3rd December 1884 to 12th November 1885.

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—frontier 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 via Tal Chotiali; mentioned in despatches by Sir M. Biddulph; services specially acknowledged in Field Force Order No. 427 of 16th May; received acknowledgment of Governor General in Council and Secretary of State for India; served in charge of survey operations in Northern Afghanistan during second period of the campaign; present at several actions fought near Kabul in November and December 1879, siege and defence of Sherpur, occupation of Lughman Valley, expeditions to Kohistan, Logar and Wardak, E. C.; mentioned in despatches by Sir F. Roberts; received thanks of Governor General in Council and Secretary of State for India for services in charge of survey operations 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, Deputy Superintendent, 3rd 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 Pebruary 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, R.E., for duty with the Indian Eclipse Expedition from 21st November 1871 to 8th January 1872; attached to Colonel Tennant, R.E., for duty in observing the Transit of Venus from 10th October 1874 to 1st January 1875; Officiating Deputy Superintendent of Survey, 3rd grade, from 26th March 1875; reverted to Assistant Superintendent, 1st grade, 19th September 1876 to Ghiciating Deputy Superintendent, 3rd grade, from 1874 to 288 to Assistant Survey, 3rd grade, from 23rd November 1875 to 6th January 1878; neverted to Assistant Superintendent, 1st grade, 7th January 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 1879; resumed charge of the Photographic Office of the

WAR SERVICES.

TAR DERVICE

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; Ianded 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 Surperintendent, 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 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, 12th December 1879; Superintendent (new), 4th grade, 1st July 1882; continuing to officiate as Deputy Superintendent, 3rd grade; officiating Deputy Superintendent, 3rd grade, 15th June 1881; promoted to Deputy Superintendent (new), 4th grade, 1st July 1882; continuing to officiate as Deputy Superintendent, 3rd grade; officiate as Assistant Surveyor General, in charge Mathematical Instrument Office and Correspondence Office, Head-quarters, Calcutta, from 19th April 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.n., from 12th November 1878 to November 1879—mentioned in despatches medal,—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 in India on the 10th December 1865; joined Bengal Sappers and Miners at Roorkee, 27th January 1866; appointed 2nd grade Assistant Surveyor, Great Trigonometrical Survey of India, 4th December 1866; posted to Kumaon and Garhwal Series, Great Trigonometrical Survey, 28th December 1866; sick leave to Europe from 11th November 1868 to 30th October 1869; promoted to Assistant Superintendent, 1st grade, Great Trigonometrical Survey, from 30th October 1870; received charge of the Kumaon and Garhwal Series, afternoon of 10th February 1871; Officiating Deputy Superintendent, 1st grade, 4th 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 substan-

tive appointment of Assistant Superintendent, 1st grade, 29th October 1874; relieved of charge of Bombay Party, 19th October 1879; furlough to Europe from 20th January 1875 to 28th January Bombay Party, 19th October 1879; furlough to Europe from 20th January 1875 to 28th January 1877; Captain, 16th September 1875; rejoined appointment in India, 28th January 1875; as-sumed charge of the Eastern Frontier Series, 17th March 1877; Officiating Deputy Superin-tendent, 3rd grade, 1st April 1878; reverted to substantive appointment of Assistant Superintendent, 1st grade, 22nd April 1879; 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 Level-ing 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 Topo-graphical Survey Party, 2nd October 1884; temporarily transferred to take charge of Tidal and Leveling operations from 6th July 1885, resumed charge of South Maratha Topographical Survey Party on 23rd October 1885; retransferred to Tidal and Leveling operations from 29th December 1885. Ware SERVICES.

WAR SERVICES.

Nil

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

APPOINTED Librarian and Accountant to the Thomason Civil Engineering College, Roorkee, Ist 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 Topo-graphical Survey on Major-General Sir A. Waugh's retirement; promoted to the Senior Depart-ment, 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 Superin-tendent, 3rd grade, from 1st January to 11th October 1879. Services—Assisted in the Topogra-phical Survey of the Jhelum and Rawal Pindi Districts till its completion; Gwalior and Central phical 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 1870. extension for 3 months with further extension on subsistence allowance till 19th Santember 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., CANTAD., F.R.A.S., F.R.G.S., Deputy Superintendent, 3rd Grade.

APPOINTED to the Educational Department, North-Western Provinces, direct from England, 14th April 1862, as Professor of Mathematics at the Government College, Agra; sick leave from 9th September to 8th November 1863; permitted to resign appointment from 1st March 1864 on account of continued ill-health; after nearly three years' residence at Mussooree as Mathematical Master at Mr. Maddock's School, was re-appointed to the Government service, 3rd January 1867, Answer at Mr. Minducker School, was recapponded to the Government survey of India, and Assistant as Probationary Assistant Surveyor in the Great Trigonometrical Survey of India, and Assistant to the Officer in charge of the Computing Office, being at the same time placed in charge of the Photozincographic Branch of the Computing Office, Dehra; appointed Assistant Surveyor, 2nd grade, on 1st September 1867; conducted the duties of the Computing Office in all its branches from middle of December 1867 to beginning of April 1868, during the absence of Mr. J. B. N. Hennessey, M.A., the Officer in charge, who was deputed to superintend the measure-ment of the Bangalore Base Line; designation changed to Assistant Superintendent of Surveys, 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 Commuting 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 and reduction of the three branches of the Survey Department on the 18t 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 November 1884; officiating in charge Head-quarters Office, Debra Dun, and Survey Detachment Webber 1894; officiating in charge Head-quarters Office, Debra Dun, and Survey Detachment in Kashmir, from 12th February 1883; confirmed with effect from 12th January 1884; confirmed as Deputy Superintendent, 3rd grade, 28th November 1884.

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

JOINED the service, 18th December 1861, as Lieutenant, Royal Engineers; arrived in India, 4th March 1863; served with the Bombay Sappers and Miners from 2nd April till 4th May 1864, when, having passed the colloquial examination in Hindustani, was appointed to the Bombay Public Works Department as Probationary Assistant Engineer; joined the Bombay Defences Division on 16th May 1864; gasetted 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 Rechamations, 7th December 1865; raised to increased pay, 11th April 1866; placed on seconded list from date of joining the Public Works Department by G. O., 31st July 1866; appointed Executive Engineer, 4th grade, 2nd October 1867, but permitted to remain, at his own request, as Special Assistant for Rechamations 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 force, 24th February 1868; retained by the Military July, 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 Survey (corresponding to present Assistant Superintendent), 2nd grade, 4th December 1868; 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 Guzoat Party as Assistant Superintendent, 31st 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 their reduction by harmonic analysis, as carried on under thesuperintendent, and what 27th October 1873; on return to India, postel to the Kattywar Party as Assistant Superintendent, 2nd grade, in May 1874; on special duty in England, reducing tidal observations in Judi 1874; on special duty in England, reducing tidal

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 2ndin-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, Guzent Party, ten months, 1870-71; Assistant Superintendent, 1st grade, 1st January 1872; Captain, 11th December 1873; under the re-organization, became Assistant Superintendeut, 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; to 5th May 1879; Officiating Assistant Superintendent, 1st grade, 6th May 1879, and attached to Mysore Topographical Survey; promoted to Assistant Superintendent, 1st grade, on 14th December 1880; joined Hanthawaddy District Cadastral Survey in British Burma on 2nd June 1881; 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. Battery at Guernsey, 1st August 1859; arrived in India on 27th October 1000; 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; from 22nd June 1869 to 25rd August 1809; appointed to Stan 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 Captain in Statt Corps, 24th August 1873; appointed to Charge of 160. 5 Topographical Survey Party, 12th October 1874; reverted to Assistant Superintendent, 2nd grade, on amalgamation of the Surveys; Officiating Assistant Superintendent, 1st grade, 1st January 1878; promoted to Major, 22nd June 1879; promoted to Assistant Superintendent, 1st grade, 24th April 1882; pro-moted to Deputy Superintendent (new), 4th grade, 1st July 1882. Officiating Deputy Superin-tendent, 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 ; appointed to charge of Baluchistan Survey Party from 1st October 1885.

WAR SERVICES.

Nil.

LIEUTENANT-COLONEL S. H. COWAN, Bengal Staff Corps, Offg. Deputy Superintendent, 3rd Grade.

LIEUTENANT-COLONEL 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, and 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, and confirmed in that grade, 29th April 1883; furlough to Europe from 7th August 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; promoted to Lieutenant-Colonel, 9th December 1885.

MAJOR EDWARD HARRIS STEEL, Bengal Staff Corps, Deputy Superintendent, 4th 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 ou medical certificate, December 1867 to December 1868; returned to Assam; leave to Europe ou 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 18th of 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 Superin-tendent, 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; 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 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; confirmed as Deputy Superintendent, 4th grade, from 10th January 1884; superintending detached parties working in Dehra Dun, Chattis-gurh and Ajmere, from 27th 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 to 15th November 1885; transferred to charge of Bilaspur District Cadastral Survey, 4th November 1885.

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.

LIEUTENANT-COLONEL 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 Deccan Topographical Survey on 1st October 1872; promoted to substantive rank of Captain on 25th March 1873; Officiating Assistant Superintendent of Survey, 1st grade, from 1st January 1878; promoted to Major, 9th December 1879; served with Ghazipur Cadastral Survey from 1st January to 3rd April 1881; in temporary charge of the Darjeeling Survey Party from afternoon of the 8th April 1881; on duty, Head-quarters Office, Calcutta, from 2nd to 22nd August 1881; furlough on medical certificate from 29th October 1882 up to 6th August 1884; doing duty in the Head-quarters Office, Calcutta, from 30th October 1882; transferred to Bassein District Cadastral Survey, 20th November 1882; received charge of this Survey, 29th May 1883; confirmed in the 4th grade, from 20th October 1882 up to 6th August 1884; doing duty in the Head-quarters Office, Calcutta, from 30th October 1882, transferred to Bassein District Cadastral Survey, 20th November 1882; received charge of this Survey, 29th May 1883; confirmed in the 4th grade of Deputy Super

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 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 April 1878; in charge of the Cuttack District Irrigation Survey, British Burma, 11th November 1879; furlough to Europe, 27th August 1880 to 12th July 1882; subsidiary leave from 13th to Ghazipur Survey, 20th July 1879, thence to Bassein Survey, British Burma, 11th November 1882; Assistant Superintendeut (new), 1st grade, 1st July 1882; officiating Deputy Superintendeut. 4th grade, from 24th July 1882 up to 30th September 1878; transferred to Burna Topographical Survey, British Burma; assumed charge of Kamrup District (Cadastral) Survey, Assam, 25th July 1883; confirmed in the 4th grade of Deputy Superintendeut, from 1st October 1884.

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 Meerut, 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 Depart. ment 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 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, reverted to 2nd grade (third time); 27th October, officiating 1st grade; 4th February 1879, 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, 1st July 1882; Officiating Deputy Superintendent, 4th grade, from 1st July 1882 up to 9th November 1884; assumed charge of No. 1 Topographic

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; reverted to Assistant Superintendent, 3rd grade, 1st April 1874, on amalgamation with Revenne Survey; separate charge, Naga Hills Survey Party, during field season 1874-75; re-appointed substantive Assistant Superintendent, 2nd grade, with effect from 1st April 1874; employed in Head-quarters Office, Calcutta, as Assistant Surveyor General, in charge Lithographic Branch, from July till 31st October 1875; separate charge, Naga Hills Survey, 1875-76; on death of Captain Butler, Political Agent, in Jannary 1876, appointed Political Officer with the Survey (extra allowance, Rs. 200 per mensem for this additional work, and thanks of the Governor General in Council and Secretary of State for India); charge of North Lakhimpur Topographical Survey, 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 December 1878; Officiating Assistant Superintendent, 1879, and to Brevet Lieutenant-Colonel, 2nd March 1881; appointed to charge of No. 6 Topographical Party from 3rd December 1881; Assistant Superintendent (new), 1st grade, 1st July 1882; Officiating Deputy Supe

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 Takht-ishah, 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, 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 Surreyor, 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, Chitagong; 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 Survey; in November 1876, transferred to 1876, transferred to 2nd or Goorgaon District Survey; in November 1876, transferred to 18t 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 Deccamber 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 1883 up to 21st October 1885; transferred to Benares, &c., Districts (Cadastral) Survey, North-April 1883 up to 21st October 1885; transferred to Benares, &c., Districts (Cadastral) Survey, North-Western Provinces, 17th October 1883; appointed to do duty at the Head-quarters, Calcutta, from 17th August 1885; transferred to the Basti District (Cadastra

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, 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 1571 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 Sibasgur, from December 1873 to May 1874; Cachar Tea Grants Survey from 28th November 1874 to April 1875; relaying the old boundaries to the north-west of Faridpur, which had been washed away by the River Ganges during the past 20 years; employed on this work from February 1877 to April 1877; transferred to 5th Division Survey from 1st July 1877; on furlough from 1st May 1880 to 3rd December 1881; transferred to No. 2 Party, Hanthawaddy District, British Burma; Assistant Superintendent (new), 1st grade, 1st July 1882; Officiating Deputy Superintendent, 4th grade, afternoon of 18th November 1882; reverted to Assistant Superintendent, 1st grade, from 6th December 1885; in charge of No. 2 Revenue Party, Hanthawaddy District Survey, British Burma, from 19th February 1884, confirmed as Deputy Superintendent, 4th grade, 26th October 1885. Furlough to Europe for 1 year, from 4th November 1885.

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, Grent 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 Ghuzui, and of Urzu Shabiz at Ghuzui.

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 1878, 1st to 5th February 1878, 15th February to 28th April 1878, 15th January 1879 to 3rd February 1879, and from 3rd April 1881 to 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 July 1883 to 21st October 1883, from 25th October 1883 to 23rd March 1884, and from 4th April 1884 to the present time; in clarge 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 2883 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 pence; 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 Kandular.



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 20th August 1884 to the present time; appointed to do duty at Head-quarters, Calcutta, 17th January 1885; in charge Suakim Expeditionary Survey, from 4th March 1885; attached to the Tidal and Leveling operations, 19th June 1885. Transferred to the charge of the South Maratha Survey Party, 6th July 1885, re-transferred to the Tidal and Leveling operations, 19th October 1885. Again in charge South Maratha Survey Party, 29th December 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; Incharge No. 3 Topographical Party, Baluchistan Survey, from 19th to 31st August 1884; Incharge No. 3 Topographical Party, Baluchistan Survey, from 19th to 31st August 1884; David 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; transferred to Gorakhpur District (Cadastral Survey) from 8th November 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. EDWARD C. RYALL, Offg. Deputy Superintendent, 4th 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 Heid-quarters Office, Delira 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 Calcuta Longitudinal Series; on November 1st, 1865, was posted to the Eastern Frontier Series Party; sick leave from 25th January to 7th September 1806; on return from sick leave was appointed to the Kumaon and Garhwal Topographical Party from 1st May 1867; assisted that party in the largescale surveys of Mussoorie, Rauikhet 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, Rovenue Branch ; Military service—as volunteer during the mutiny ; served against the Murrce rebels—medal; transferred to Darjeeling Party, 1st September 1881; sick leave from 10th December 1883 to 4th January 1884. Officiating Deputy Superintendent, 4th Grade, from 6th July 1885 up to the present time. In charge Coast Triangulation Survey, 6th October 1885.

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

Appointed 3rd class Sub-Assistant, 26th April 1855; 2ud 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 Soptember 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.

MR. WILLIAM HENRY PATTERSON, Offg. Deputy Superintendent, 4th Grade.

APPOINTED Junior Sub-Assistant Revenue Surveyor, 1st December 1851, and posted to the Rechnab Donb (Punjab) Revenue Survey; transferred to the Sindh, Sugar Doab Revenue Survey, Ist October 1655; promoted to 3rd grade, 1st October 1655; transferred to the Derajat (Trans-Indus) 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 Briston (Outh) Revenue Survey, is october 1009, promote 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 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, in Assam in February 1873; appointed to the temporary charge of the 1st Division, Lower Provinces Survey, from 25th November 1873 to 7th January 1874; appointed to the there of the Survey of Labhier in Distinct Darmary and Kamun with downstrian 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 under the Settlement Officer, Cachar, 3rd January 1880; appointed Chief Draftsman, Surveyor under the Settlement Officer, Cachar, 3rd January 1880; appointed Chief Draftsman, Surveyor General's Office, Calcutta, 8th August 1882; promoted to Assistant Superintendent, 2nd grade, 22nd January 1883; transferred to No. 5 Topographical Party (District Mirzapur), 1st Febru-ary 1883; Officiating Assistant Superintendent, 1st grade, from 1st February 1883 to 30th Septem-ber 1884; promoted to Assistant Superintendent, 1st grade, from 1st Cotober 1884; in temporary charge of No. 2 Party, Bhopal and Malwa Topographical Survey, from 5th August to 27th Octo-ber 1884; re-transferred to No. 5 Topographical Party, Mirzapur District; in charge of No. 2 Party, Bhopal and Malwa Topographical Survey, from 24th November 1884 to 26th October 1885; in charge of Mirzapur Topographical Survey Party, from 11th November 1885; Officiating Deputy Superintendent, 4th grade, from 16th September 1884 up to the present time.

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 POWERS.-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 rebels-medal.

MR. FREDERICK WILLIAM KELLY, Assistant Superintendent, 1st Grade.

APPOINTED Junior Sub-Assistant, 4th December 1854; promoted to Sub-Assistant, 1st January 1856, in the Punjab and Sind Surveys; special leave for four months from 21st January 1858, which was overstayed from 21st May to 16th August 1858; employed as Sub-Assistant, 2nd class, in the Bhurtpur and 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 Districts Cadastral Survey, British Burma; promoted to Assistant Superintendent, 1st grade, 10th November 1884; Officiating Deputy Superintendent, 4th grade, from 3rd December 1884 to 12th October 1885; officiated in charge Burma Topographical Party for 3 months, from 8th July 1885; re-transferred to Akyab District (Cadastral) Survey from 6th October 1885; Officiating Deputy Superintendent, 4th grade, from 26th October 1885 to 15th November 1885. APPOINTED Junior Sub-Assistant, 4th December 1854; promoted to Sub-Assistant, 1st January from 26th October 1885 to 15th November 1885.

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; transferred to Basti District (Cadastral) Survey from 1st September 1885; Officiating Deputy Superintendent, 4th grade, from 5th to 1991 November 1995 12th November 1885.

WAR SERVICES. Nit

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

LIEUTENANT, April 6th, 1879; appointed to Indian Establishment, 20th January 1883; arrived in India, 7th March 1883; served with the Bombay Sappers and Minors 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. Assistant Superintendent, 1st grade, sub. pro tem., from 3rd July 1885; transferred to Himalaya Survey Party, 1st October 1885; confirmed as Assistant Superintendent, 1st grade, 22nd October 1885.

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., 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; appointed to do duty at the head-quarters, Calcutta, from 8th September 1885; confirmed as Assistant Superintendent, 1st grade, 26th October 1885.

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, 1891, 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; Personal 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. Posted to Trigonometrical Branch Office, transferred to Astronomical No. 1 Party, 9th October 1885.

WAR SERVICES.

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 Gauhati, 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, n.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, Bombay Presidency, under Lieutennat-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, 4th grade, on the re-organisation 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 Guzerat Party on the 27th September 1870; promoted to Surveyor, 2nd grade, on 1st December 1863; promoted to Surveyor, 1st grade, on 1st September 1875; transferred to the Const Triangulation Party on 1st Octobe

Nil.

JOINED North-Western Frontier Revenue Survey, Murree, as a Junior Sub-Assistant on 1st May 1863; Season 1863-64, triangulated portion, Salt Range, District Shabpur; 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 15th December 1866; 23rd April 1867, repulsed night attack near Agror border; September 1867, reconnoitred independent hill tracts of Allahi Nandehar, Tikari, and eastern slopes of Black Mountain; May to August 1868, plane-tabling sec-tions 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; bill country, urea on by Hassan Kuer, 1970-71, Revenue Survey, District Denra Gnazi 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 Reve-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 Tahsile; passed higher standard examination in 1877; 1877-78, plane-tabled portion of Murree and Kahnta Kahuta Tahsils; accompanied Jowaki Expedition—clasp; services acknowledged by Punjab Govern-Thent and Commander-in-Chief, mentioned in despatches; 1878-79, accompanied Alghan column in Khyber, present at attack on Ali Musjid, actions of Det Sarak and Fattehabad, accompanied 1st and 2nd Bazar Valley Expeditions, montioned in despatches; attacked by Mohmands near Michni. The conspicuous gallantry displayed on this occasion acknowledged by the Viceroy in Council; ascended summit of Sikuram, 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, 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 Zai-mukhts; 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 Sealkot and His Highness the Maharajah of Jamu, on the Chenab; triangulated between District Sentistication and This Highness the Initiality of Jamu, on the Chenab; triangulated portion of Kala Chitta Runge, 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; transferred to Bilaspur District (Cadastral) Survey, Central Provinces, from 1st October 1885.

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

APPOINTED by Her Majesty's Sccretary 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. Transferred to the Computing Party, Dehra Dun, 26th July 1885; officiated in charge from 23rd September 1885.

LIEUTP.NANT JOHN MURCHISON FLEMING, S.C., Assistant Superintendent, 2nd Grade (on probation).

OBTAINED his first commission on the 13th August 1879, as 2nd Lieutenant, 25th "King's Own Borderers"; Lieutenant in the same Regiment, 21st June 1880; appointed on probation to the Bengal Staff Corps, and attached as Wing Officer to the 22nd Punjab Infantry, 22nd July 1882; appointed as Wing Officer to the 4th Bengal Infantry, October 1882; appointed permanently to Bengal Staff Corps by G. G. O. No. 67 of 8th February 1884, with rank, from 20th June 1880; officiated as Quarter Master, 4th Bengal Infantry, from 4th September 1883 to 15th April 1885; and as Adjutant in same Regiment from 15th April until July 3rd, 1885; appointed to Survey of India Department as Assistant Superintendent, 2nd grade, sub pro tem, 3rd July 1885, and on probation 22nd October 1885.

WAR SERVICES.

Served with 25th King's Own Borderers in the Khyber Line Field Force from 18th December 1879 to August 31st, 1880, Expeditions against Mamunds and into Lughman Valley-Medal.

MYSORE REVENUE SURVEY DEPARTMENT.

Index to Lis	t of	<u>`</u> 0	fficers	of	the	M	ys	ore S	Survey Department fo	or 7	lst Ja	nua	ir y [18	86.
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Barker, J. P. Butcher, E. H.		:	• •		•	•	:	50 50	Hudson, A. G.		•	•	•	•	50
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Clerk, F. B Cowie, Major D.	• •	:	• •		•	•	·	50 50	Mackenzie, LieutCol. G.	•	•	•	•	•	50
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Grant, LieutCol. J.	P.	·	• •		•	•	·	50	Rutherford, LieutCol. J.	·	•	•	•	•	50

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General List of the Officers of the Mysore Revenue

1	2	3	4	5	6	7
Number sanc- tioned.	Number existing in each grade.	Names of Officers and names of substantive appointment.	Passed in the Verpacular.	Age.	Date of first appointment to the Department.	Date of appointment to the present grade.
1	1	LieutCol. J. P. Grant, Superintendent Revenue, Survey .		Y.M.D. 4790	Nov. 1, 1863	Jan. 15, 1868
1	1	"J. Rutherford, Depy. ditto	(43 11 22	Jan. 25, 1865	-7
2	1	Mr. E. H. Butcher, Assistant Settlement Officer		49 6 2	Oct. 2, 1865	
	2	LieutCol. G. Mackenzie, ditto	All have passed	44 5 28	Dec. 24, 1871	1 1
3	1	Nr. J. P. Barker, Assistant Superintendent, 1st grade .	HVe P	38 3 16	Dec. 22, 1866	Dec. 5, 1878
	2	,, F. B. Clerk, ditto ditto ditto .	Allh	41 4 13	Jan. 16, 1868	Nov. 26, 1880
	3	Major D. Cowie, ditto ditto .		45 0 15	Dec. 3, 1870	Feb. 8, 1882
1	1	Mr. A. G. Hudson, ditto ditto 2nd grade .) {	27 8 2	Nov. 23, 1876	Jan. 1,1884

Survey Department on the 1st January 1886.

of service	9 ilitary pay and llowauces.	10 Staff pay.	11 Aggregate pay and allowances.	12 Civil consolidated	13 Where employed	REMARKS.
Period of service counting for pension. all Y. M. D. 	ilitary pay		pay and	consolidated	Where employed	REMARES.
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Nors.-This list does not include officers of the Local Service.

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GEOLOGICAL SURVEY OF INDIA.

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Classified List of Officers of the Geological

Survey of India on the 1st January 1886.

te of notion	Period of service	Pay of substantive appointment.	Allowances.	Travelling, Toto Conveyance and Alouse Allowances.
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Disposition List of Officers of the Geological

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NAMES OF OFFICERS.			Date of first		TRENG		ESTAB GBAD	LISHNE BS.	m	Survey of India on the 1st January 1886.
TABLE OF OFFICERS.	Where employed.	Rank and Grade.	joining the Department.	Separately graded.	lst grade.	Znu grade. 3rd grade.	Non-graded Officers.	Clerks & Drafts- men. men.	stab. put. put. sture. sture. sture.	Where employed during last three years. Where employed during last three years. Annual Cost (Salary and Travelling Allowance of Officers and their Subordinates, if any) from April 1884 to March 1885.
H. B. Medlicott, A.M.,F.B.S.,F.G.S 1st Grade.	Office	Director, Geological Survey.	Mar. 24, 1854	2	4	5 3	5	12	22	R a. p. R a. p. Salary and fixed allowance . 12,349 3 10 12,349 3 10
William King, A.B., D.Sc	Chhattisgarh	Supdt., Geological Survey.	Mar. 4, 1857			.:				1882-83. Office and special leave. 1883-84. Office and special leave. 1884-85. Special leave and Office. 17.416 5 0
R. Bruce Foote, F.G.s	Bellary	Ditto	Sept. 28, 1858	officers.				,		1892-83. Furlough and Chhattisgarh . Salary and fred hilowadce . 1,907 0 0 1893-84. Chhattisgarh and Office. Travelling allowance . 194 7 0 Hospital Assistant's pay, &c
F. R. Mallet, F.G.S., F.C.S	Office	Ditto	Feb. 12, 1859	gr						1882-83. Madura and Kurnul
Cheo.W.H.Hughes, A.B.S.M., F.G.S	South Rewah	Depy. Supdt., Geo-	Nov. 11, 1862	4						1882 83. Office and Jabalpur
2nd Grade. F. Fedden, A.B.S.M., F.G.S.	On furlough	logical Survey.						•••	1.	(1884-85. Furlough and South Rewah (1882-83. Furlough and South Rewah Construction of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
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	Afghan Boundary Commission.	Ditto	Nov. 11, 1878	nd-grade	•					1883-64. Furlough and Rapputana. (1884-85. Rajputana. Sulary and fixed allowance 6,508 9 11 1.672 14 5
. D. Oldbam, A.B.S.M.	N. E. Rajputana .	Ditto D	Dec. 17, 1879	5 seco :	.					1882-85. Hubinstein. 1883-84. Puojab and Afghanistan. 1884-85. Afghanistan. Schemend fixed allowance 7,013 15 3 11
	Chbattisgarh	Ditto J	uly 30, 1880	/			•			1882-83 Jaunsar 1883-84. Ditto and Andamans. 1884-85. Andaman Islauds & Rajputans (1 Jaun and fred allowance . 6,678 3 7
3rd Grade. om. H. D. LaTouche, A.B A	Lesam	Assistant Supdt., N Geological Survey.	ov. 29, 1881	officers.						1882-85. Raipur. [1893-84. Chhattisgarb. [1894-85. Raipur. [1894-85. Raipur. [1894-85. Raipur. [1894-85. Raipur. [1894-85. Raipur.]
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Statements of Services of Geological Survey Officers.

Corrected up to 1st January 1886

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

ENGAGED by Dr. Oldham from the Geological Survey of Great Britain; joined appointment in India on 24th March 1854; in August 1854 appointed by Court of Directors as Professor of Geology, Roorkee College; re-attached to Geological Survey for the field season; 1854-55, Narbada Valley; 1855-56, Sub-Himalayas; 1856-57 Bundelkhand; 1857 to 1862, Sub-Himalayas; in October 1862 left Roorkee and rejoined the Geological Survey as Deputy Superintendent for Bengal; 1862-63, South Rewnh; 1863-64, Behnr; 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, Sambalpur; placed in the 1st grade on the introduction of grading in May 1866; 1867-68, Garo Hills; 1868-69, Hazaribagh, Sirgujah, Sohagpur, Chanda, Molpani; 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; 1371 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, and 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; designation changed to Director of the Geological Survey of India.

MR. WILLIAM KING, A.B., D.SC. (Honoris causa).

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, Trichiropoly and Tanjore; 1860, Salem and Coimbatore; 1861, Kadapab 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 Karnal 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. Kndapah and Kistna Districts; appointed Deputy Superintendent for Madras, 15th November 1868; furlough from 17th September 1869 to 16th December 1870; 1870-71, Raichur Doab and Rhima Valley; officinted in the 1st grade from 13th June to 3rd December 1871; 1871-72, Godavari 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 Vizagapatam 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 Wynand 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 9th July 1883; Res3-84, Chhattisgarh; Fellow of the Madras University, and Member of the 9th Suly of Engineering, 1884; officinted as Superintendent from 7th May to 12th November 1884; 1884-85, Chhattisgarh; designation changed to Superintendent of the Geological Survey of India.

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 Sonth 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 conrse of public lectures on Geology in the Civil Engineering College, Madras; 1863, North Arcot, Salem, Chingleput, arranged the palecontological collections in the Madras Museum; 1864, in Chingleput and North Arcot; 1865, in Kadapah, Karnul, Nizam's Territory; 1866, in Karmul, Nellore; placed in the 2nd grade on the introduction of grading in May 1866; 1867, in Nellore, Karnul, Kistna; leave on medical certificate from 29th May 1867 to 22nd October 1868; 1868-69, in Kistna District and Nizam's Territories; 1869-70, in Bellary, Nizam's Territories, Kaladgi; 1870-71, in Bellary, Nizam's Territories; 1869-70, in Bellary, Nizam's Territories, Kaladgi; Belguum, 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 1879, Trichinopely, Tanjore, Pudukotu, Madura; furloogh 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 14th June 1881; 1881-82, Tinnevelly; held charge of the current duties of the Office of the Superintendent, Geological Survey, from 23rd July to 22nd October 1882; 1882-83, Madura and Kurnul; 1883-84, Kurnul, Hyderabad and Bellary; Fellow of the Madras University and Member of the Faculty of Engineering, 1884; 1884-85, Bellary; designation changed to Superintendent of the Geological Survey of India.

MR. FREDERIC RICHARD MALLET, F.G.S., F.C.S.

ENGAGED by Dr. Oldham in England; joined the Geological Survey as Assistant on the 12th ENGAGED by Dr. Olanam in Englina; joined the Geological Survey as Assistant on the 12th February 1859, and took up work in the Raniganj coal-field; 1859-60, in the Kharakpur Hills; in July 1860 made a trip to Tibet by Niti; 1860-61, Upper Sone Valley; in July 1861 made an ex-cursion in Spiti; 1861-62, on the Upper Vindhyans in Bundelkhand and Rewah; 1862-63, on the Vindhyans in Mirapur 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 pros-pects of an artesian boring; 1871-72, in South Mirzapur and Rewah; officiated in the 2nd grade from 13th June to 3rd December 1871; officiated for three months as Curator of the Museum; during the recess seasons of 1871 and 1872, arranged and catalogued a large part of the mineral collections; promoted to the 2nd grade on 1st May 1872; 1872-73, on the crystalline and transtion rocks of Northern Hazaribagh; recelled to arrange the mineral collection for the Vienna Exhibition; 1873-74, in the Sikkim Himalayas and Blutan Duars; 1874, 1375, and 1876, ex-umined and reported on the coal-fields of Upper Assam, received the thanks of the Assam Governments, officiated in the last grade from 16th March to 25th April 1876; since 12th October 1875 has acted as keeper of the mineral collections, the systematic description of which involves much work in the laboratory; early in 1878 examined and reported on some coal and petroleum localities in Ramri, Cheduba, and Baronga Islands; leave on medical certificate from 25th July 1879 to 22nd October 1880; 1880-81, Museum; officiated in the 1st grade from 23rd October 1880 to 24th January 1883; examined and reported on a new copper mine in British Sikkim; officiated as Deputy Superintendent from 25th April 1882 to 10th April 1883; promoted to the 1st grade on 25th January 1883 and appointed Deputy Superintendent on 11th April 1883; 1882-83, Museum; also examined and reported on iron ores of Jabalpur; 1883-84, Museum, Andamans, Barren Island and Narcondam ; furlough from 2nd May to 3rd November 1884; 1884. 85, Museum and Hazaribagh; designation changed to Superintendent of the Geological Survey of India.

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, Kar-harbári, Ithkuri and Daltonganj coal-fields; 1868, 1869, 1870, and 1871, the Wardha Valley coalfields; passed in the vernacular on the 3rd August 1808; reported for Government, North-Western Provinces, on roofing slates for barracks, Ranikhet, 1869; accompanied Governor General (Lord Mayo) during tour of Wardha Valley coal-field and opening of Mayo colliery, March 1870; reported for Government, Central Provinces, on lead ore at Sleemanabad, June 1870; pointed out over 20 sites for bore holes in the districts of Chanda and Wún-coal proved in all; also assisted officers of His Highness the Nizam to select positions; leave on medical certificate from 1st July 1871 to 8th November 1872; 1872-73, Bandar and Wardha coal-fields; on special duty with Mr. Banerman, visiting the iron deposits of the Central Provinces; officiated as Deputy Superintendent Banerman, 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 Milnm; 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 conl-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 Dwablit and Isuara Valley, and the Win coal fields. 1873-74. 75, the Pranhita and Jangaon Valleys, and the Wún coal-fields; 1873-74-75, indicated more bore sites in Wún District; promoted to the 2nd grade from 21st April 1875; 1875-76, the Godavari Valley ; visited the Mohpani coal-field, and the trial borings for coal at Kháppá and Moran River ; accompanied the Superintendent during his observations of underground temperature; 1876-77. completed survey of the Kota-Maleri area; recommended borings for coal at Sandrapali,-Godavari River; reported for Bengal Coal Company on supposed occurrence of coal south of Karharbari Field; leave on furlough from 1st November 1877 to 14th October 1879; officiated in the 1st grade from 15th October 1879 to 6th December 1880; officiated as Deputy Superintendent for Bombay from 3rd April to 6th December 1880; 1879-80, 1880-81, 1881-82-83, South Rewah coaltields; again visited Molpani coal-field, and inspected new sinking, August 1880; officiated in the 1st grade and as Deputy Superintendent from 17th March 1881 to 7th June 1882; urged borings for Ist grade and as Deputy Superintendent from Frin ander 1904 to 7th June 1902; urged borings for coal at Umaria-Khalesar, Rewah State, and in valley of the Johilla River; pointed out sites which proved coal over large area, January 1882; reported for Government, Central Provinces, on coal outcrops in Mabanadi, Jabalpur District, May 1882; leave on furlough from 8th June 1882 to 22nd February 1883; officiated in 1st grade from 23rd February to 10th April 1883; officiated as Deputy Superintendent from 23rd February to 10th May 1883; promoted to 1st grade on 11th April 1883; superintending Rewah coal explorations from 1st March 1883; 1883-84, Korea and Jhilmilli; officiated as Deputy Superintendent from 29th April to 12th November 1884; in May 1884 reported for Messrs, Scheene, Kilburn and Co. on coal near Jainti river; received thanks of the Central India Agency; services placed at the disposal of the P. W. Department in connection with the Umaria Coal Mines from 18th December 1384; designation changed to Deputy Superintendent of the Geological Survey of India.

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

ENGAGED in England by Dr. Oldham; joined the Survey as Assistant on the 1st October 1860; deputed to Burma; employed there until 1864; attached to the Salween surveying expedition in 1864-65; surveyed parts of 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 1867; 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 1877 to 23rd March 1878; promoted to 2nd grade on 24th March 1878; leave on furlough from 7th June to 20th November 1876; resumed work in Kattywar, 1878-79; officiated as Curator from 25th July 1879 to 22nd October 1880; officiated in the 1st grade from the 22nd Angust 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 22ud November 1884; acted as Curator from 29th April to 7th November 1884; furlough from 22ud November 1884; designation changed to Deputy Superintendent of the Geological Survey of India.

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 Vindbyans in Central India; 1807, 1868, and 1869, on the Vindbyans 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 Rewab; 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; 1884-85, Rajputana; designation changed to Deputy Superintendent of the Geological Survey of India.

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; officinted in the 2nd grade from 13th March to 7th November 1880; officiated in the 2nd grade from 17th March 1881 to 24th January 1883; 1881, Kumaun, Himalayas, and Europe on duty; 1882-83, Garhwal and Himalayas; promoted to 2nd grade on 25th January 1883; 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; designation changed to Deputy Superintendent of the Geological Survey of India.

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 Licutenant 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 montioned in despatches; received the acknowledgments of the Government of India-medal and clasp.

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

APPOINTED in Europe by the Secretary of State on 6th November 1879; joined as 3rd grade Assistant on 17th December 1879; took up work in the Godavari Valley; 1880-81, Jaunsar and Sirmur; passed in the vertacular on 1st August 1881; 1881-82, on special service to Manipur; officiated in 2rd grade from 14th June 1881 to 10th April 1883; 1882-83 to 1883-84, Jaunsar and Andamans; promoted to 2rd grade on 11th April 1883; 1884-85, Andamans, on duty in Australia for 35 days after expiration of privilege leave, and North-East Rajputana; designation changed to Deputy Superintendent of the Geological Survey of India.

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; designation changed to Deputy Superintendent of the Geological Survey of India.

MR. THOMAS HENRY DIGUES LAFOUCHE, 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, Assau; officiated in 2nd grade from 22nd November 1884; 1884-85, accompanied North-East Frontier Exploration parts, and Assam.

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, Korea, Jhilmilli, and Chhindwara; 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 earthquake.

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, deputed to report on the Bengal Earthquake.

MR. JULES SCHAUMBURG.

JOINED the Snrvey 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; 1885, supervised the preparation of models of the wild tribes of India for the Indian and Colonial Exhibition to be held in London in 1886.

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 to 28th September 1885.

LALA KISHEN SINGH.

JOINED the Survey as an Apprentice on 7th January 1874; 1874-1876, Museum, Colcutta; 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 to 30th September 1885; 1885, Malwa.

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.

MR. THOMAS RAMSAY BLYTH,

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