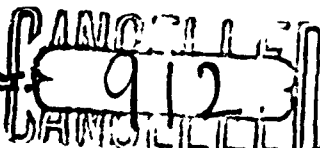


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TECHNICAL AND INDUSTRIAL

INSTRUCTION IN BENGAL.

—◆—
1888-1908.

—◆—
[PART I OF SPECIAL REPORT.]

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TECHNICAL AND INDUSTRIAL INSTRUCTION IN BENGAL, 1838—1908.

(PART I OF REPORT OF OFFICER ON SPECIAL DUTY.)

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APPENDIX I.

LIST OF REFERENCES FOR SPECIAL REPORT, PART I

Progress of Education in India, 1888-92, Chapter VIII; A. N. Nash, Calcutta, 1893.

Progress of Education in India, 1893-97, Chapter VIII; J. S. Cotton, London, 1898.

Progress of Education in India, 1898-1902, Chapter VIII; R. Nathan, C.I.E. Calcutta, 1904.

Progress of Education in Bengal, 1902-1907, Chapter VII; W. W. Hornell, Calcutta, 1907.

Reports on Public Instruction in Bengal, 1886-87 to 1906-07.

Reports of Inspectors of Schools, 1906-1907.

Report on Practical and Technical Education: Sir E. C. Buck, Calcutta, 1901.

Report on Industrial Education; Committee on Industrial Education, Calcutta, 1903.

Papers on Technical Education in India, 1886-1904; Calcutta, 1906.

Papers relating to the maintenance of Schools of Art in India as State Institutions Home Department, Serial No. 23, Calcutta, 1898.

Report on the existing Arts and Industries of Bengal in 1890, from paragraph 53 on Technical Education; E. W. Collin, C.S., Calcutta, 1892.

Calendar of 1907 of the Civil Engineering College, Sibpur.

Annual Reports of the Victoria Technical Institute, Madras, from its inauguration in 1889.

Calendar for 1908 of the Victoria Jubilee Technical Institute, Byculla, Bombay.

Calendar, 1907-08, of the Commission for Government Examinations, Madras, page 64, on Government Technical Examinations.

Hand-book of Information for Indian students relating to Professional studies in the United Kingdom; page 80 onwards regarding Technical Training.

Essays and Lectures by P. N. Bose; Chapters V and VI of section I on Technical Education; Newman & Co., Calcutta, 1906.

Reports of the Association for the Advancement of the Scientific and Industrial Education of Indians, for 1905-06, 1906-07, 1907-08; 6, Old Post Office Street, Calcutta.

Indian Educational Policy, Technical Education, paragraphs 31-34; Resolution of the Governor-General in Council, Calcutta, 1904.

Industrial Education; Sir Philip Magnus: Kegan, Paul, Trench & Co., London, 1888.

Report of the Special Sub-Committee of the London County Council on the application of Science to Industry; Technical Education Board, London, 1902.

Continuation Schools in England and elsewhere, Chapter VIII;—Education of workpeople; Professor Sadler, Manchester University Press, 1907.

Educational System of Japan, Chapter IX on Technical Education; W. H. Sharp, Bombay Government Press, 1906.

Report by His Majesty's Agent and Consul-General on the Administration of Egypt in 1905, paragraph 105 on Technical Education; London, 1906.

Annual Report of the Commissioner of Labour; Trade and Technical Education in various countries; Washington, United States of America; 1902.

Technical Education in America: Sir William Preece; Journal of the Society of Arts, London, for 10th April 1908.

APPENDIX II.

Technical and Industrial Institutions in Bengal, arranged geographically.

NAME.	Date of foundation.	Place.	Subjects-taught.	NUMBER OF STUDENTS BEING TRAINED.						Whether any drawing is taught.	What literary teaching, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY--				REMARKS.	
				Engineer.	Overseer grade.	Sub-overseer grade.	Amin.	Artisan.	Total.				Private source.	District Board.	Government.	Total.		
PROVINCIAL. <i>Engineering College.</i>																		
Civil Engineering College, Sibpur.	1858	Sibpur, Howrah district.	Civil, Mechanical, Electrical, Mining and Sanitary Engineering.	100	90	38+92=130	...	23	242	Yes ... ..	.....	.....	Rs. 29,208	Rs.	Rs. 1,82,621	Rs. 2,11,729	Excluding Agricultural Departments.
<i>Schools of Art in Calcutta.</i>																		
Government School of Art	1864	28, Chowringhee Road	1. Drawing 2. Modelling. 3. Lithography. 4. Engraving.	...	...	.....	...	...	253	Elementary, architectural and mechanical drawing.	Nil	.....	Rs. 5,969	Rs. ...	Rs. 17,223	Rs. 23,191	
Indian Art School	1896	13, Wellington Street	1. Music 2. Painting. 3. Photography. 4. Engraving. 5. Lithography. 6. Printing. 7. Drawing.	...	...	.....	...	...	97	Free-hand drawing, etc.	Nil	.....	Rs. 3,680	Rs.	Rs. ...	Rs. 3,680	Includes grant from the Calcutta Municipality, Rs. 100.
Jubilee Art Academy	1897	92, Bowbazar Street	1. Printing 2. Modelling. 3. Sculpture. 4. Photography. 5. Electro-plating.	...	...	.....	...	...	125	Free-hand and model drawing.	Nil	.....	Rs. 6,360	Rs. ...	Rs. ...	Rs. 6,360	
Albert Temple of Science	1875	337, Upper Chitpore Road.	1. Engraving 2. Lithography. 3. Modelling. 4. Painting.	...	...	.....	...	...	41	Model drawing	Nil	.....	Rs. 2,112	Rs.	Rs. ...	Rs. 2,112	

PRESIDENCY DIVISION.

DISTRICT.	NAME.	Date of foundation.	Place.	Subjects taught.	NUMBER OF STUDENTS BEING TRAINED.			Total.	Whether any drawing is taught.	What literary teaching, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY—				REMARKS.
					Sub-Overseer grade.	Amins.	Artisans.					Private source.	District Board.	Government.	Total.	
24-Parganas ...	Kaurapukur London Missionary Society Industrial School.	1896	Kaurapukur, Tollyganj.	Carpentry and durl weaving.	...	...	13	13		Lower Primary course (night school).	Rs. (1) Pay of establishment. 116 (2) Head mistress "21 (3) Other mistresses and sewers. 110 (4) Materials . 224 (5) Tools 9 480	Rs. 480	Rs. ...	Rs. 40	Rs. 500	Director of Public Instruction's No. 13594, dated the 15th July 1907.
	Church of England Widows' Industrial Home.	1901	Baranagar ...	Setting of loom, washing and dyeing wool and embroidery, yarn making, chutney and curry powder making.	...	...	...	35	No	Simple reading and writing is taught for an hour.	Head Mistress ... 55 2nd " ... 15 3rd " ... 15 4th " ... 10 Head mate teacher 16 Second ditto 15 Cost of maintaining pupils in boarding. 234 Monthly ... 360	Rs. A. 3,840	Rs. ...	Rs. 480	Rs. 4,320	Director of Public Instruction's No. 13071, dated the 20th July 1907.
	Church of England Orphan Boys' Industrial School.	1906	Ditto	Brass moulding, turning, fitting, engineering and lock work.	..	...	...	20	Yes	English, Bengali, arithmetic (Lower Primary course).	Head Master ... 20 0 2nd " ... 10 0 3rd " ... 9 0 Turner " ... 8 0 Coolie " ... 10 0 Head Pandit (night school). 10 0 2nd Pandit (night school). 5 0 3rd Pandit (night school), 4 0 Rent 4 0 Dhobi and cook 18 8 Boys' boarding 68 0 Monthly ... 163 8	Rs. A. 1,590	Rs. ...	Rs. 360	Rs. 1,950	Director of Public Instruction's No. 11678, dated the 29th June 1906.
Calcutta ...	Alipore Reformatory .	1878	Alipore ...	Carpentry, tin-work, printing, cane-work, sewing.	...	...	...	203	Yes	Lower Primary course	.....	Rs. 2,755	Rs. ...	Rs. 31,065	Rs. 34,418	
	Calcutta Orphanage Technical School.	... ..	12-1, Balaram Ghose's Street, Shambasair.	(1) Carpentry ... (2) Tailoring.	...	...	26	26	Free-hand drawing.	Lower Primary course, Bengali.	Masters' salary ... 319 Miscellaneous 42 Students' boarding charges. 135 486	Rs. 126	Rs.	Rs. 360	Rs. 486	Government order No. 271, dated the 30th February 1906.
	Oxford Mission Industrial School.	1896	1, Ballygunge, Calcutta.	(1) Carpentry... (2) Smithery. (3) Weaving.	...	...	59	59	Free-hand model and mechanical.	Up to 3rd class standard of a high school.	Salary of Master and assistant. 2,400 Tools, etc., ... 180 2,580	Rs. 2,220	Rs.	Rs. 360	Rs. 2,580	Director of Public Instruction's No. 6541, dated the 30th April 1906.
	Mubammaden Orphanage Industrial School.	1892	8, Syed Lane. Saleh	(1) Tailoring ... (2) Printing and lithography. (3) Embroidery and wool-work. (4) Sewing (girls).	80	80	Urdu, Persian, elementary English and arithmetic.	Rs. 6,800	Rs. ...	Rs. 600	Rs. 7,500	Includes grant from the Calcutta Municipality, Rs. 600. Director of Public Instruction's No. 20651, dated the 12th November 1907.

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PRESIDENCY DIVISION—continued.

DISTRICT.	NAME.	Date of foundation.	Place.	Subjects taught.	NUMBER OF STUDENTS BEING TRAINED.			Total.	Whether any drawing is taught.	What literary teaching, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY—				REMARKS.
					Sub-Overseer grade.	Amms.	Artisans.					Private source.	District Board.	Government.	Total.	
Calcutta	Anjuman-e-Rafiq ul-Islam Industrial School.	1903	87, Jhawtala Road, Ballygunge.	(1) Tailoring (2) Watch repairing	...	...	30	30	.....	Urdu, English Bengali and Arithmetic.		Rs. 310	Rs. ...	Rs. 360	Rs. 730	Calcutta Municipality, Rs. 50. Government order No. 273, dated the 21st February 1905.
	Mahila Shilpasram for Females.	1906	9, Sibnarayan Das' Lane.	(1) Weaving (2) Tailoring (3) Painting. (4) Engraving. (5) Music. (6) House-hold management.	...	...	70	70	Model and free-hand drawing.	Bengali, English and Arithmetic.	.....	3,648	.....	3,648	7,346	Calcutta Municipality, Rs. 50. Director of Public Instruction's No. 4783, dated the 13th March 1903.
	Industrial Home for the Blind.	1897	68, Elliott Road, Calcutta.	(1) Bamboo and cane work. (2) Chik-making, etc.	...	...	15	15	.....	Bengali, English and Arithmetic.	..	2,400	.....	960	3,360	Calcutta Municipality, Rs. 260. Director of Public Instruction's No. 10312, dated the 30th May 1907.
	Bengal Technical Institute.	1900	92, Upper Circular Road, Calcutta.	Carpentry, smithery, moulding and chemistry.	...	...	...	200	Yes ... ..	.....	.....	.....	.....	...	...
	Bengal National College, Technical Department.	1906	164, Bow Bazar Street.	Mechanical engineering.	...	...	...	...	Yes ... ..	.....	.....	..	..	...	...
	Lalchand Motchand Jain Literary and Technical School.	1907	61, Dhurumtollah Street.	Jewellery	...	...	30	30	Free-hand drawing.	Bengali, Hindi, Sanskrit and English.	.....	.....	.....	...	...
	Calcutta Technical Night School.	1906	Dorseton College	Mathematics, drawing and mechanics.	...	...	...	49	Yes	Nil	Establishment ... 2,150	2,050	.....	450	2,480	Director of Public Instruction's No. 18571, dated the 6th October 1907.
	Railway Technical Institution.	1908	83, Dhurumtollah Street.	Electricity and railway working.	No	Nil	

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BURDWAN DIVISION.

DISTRICT.	NAME.	Date of foundation.	Place.	Subjects taught.	NUMBER OF STUDENTS BEING TRAINED.				Whether any drawing is taught.	What literary teaching, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY—				REMARKS.									
					Sub-Overseer grade.	Amins.	Artisans.	Total.				Private source.	District Boards.	Government.	Total.										
Burdwan	Burdwan Technical School.	1893	Burdwan	Carpentry and smithery work.	47	...	2	49	Yes	Sub-Overseer standard	<table border="0"> <tr><td>Establishment</td><td>Rs. 2,638</td></tr> <tr><td>Contingencies</td><td>611</td></tr> <tr><td></td><td><u>3,204</u></td></tr> </table>	Establishment	Rs. 2,638	Contingencies	611		<u>3,204</u>	Rs. 1,188	Rs. 1,416	Rs. 300	Rs. 3,204	Burdwan Municipality, Rs. 240. Director of Public Instruction's No. 5260, dated the 5th December 1893, and No. 5263, dated the 10th December 1895, and Government order No. 2513T.—G., dated the 24th September 1907.			
	Establishment	Rs. 2,638																							
Contingencies	611																								
	<u>3,204</u>																								
Baniganj Industrial School.	1897	Karsoli, Baniganj.	Carpentry	12	No	Lower standard. Primary	<table border="0"> <tr><td>Head Master</td><td>180</td></tr> <tr><td>Second "</td><td>180</td></tr> <tr><td>Teacher of carpentry</td><td>168</td></tr> <tr><td>Materials, etc.</td><td>900</td></tr> <tr><td></td><td><u>1,428</u></td></tr> </table>	Head Master	180	Second "	180	Teacher of carpentry	168	Materials, etc.	900		<u>1,428</u>	Rs. 1,188	Rs. 240	Rs. 1,428	Director of Public Instruction's No. 14327, dated 30th October 1906.	
Head Master	180																								
Second "	180																								
Teacher of carpentry	168																								
Materials, etc.	900																								
	<u>1,428</u>																								
Bankura	Wesleyan Mission Middle Vernacular Technical School.	1901	Bankura	Carpentry, shoe-making, weaving, cane and bamboo work.	19	Yes	Middle Vernacular standard.	<table border="0"> <tr><td>Establishment</td><td>117</td></tr> <tr><td>Contingencies</td><td>15</td></tr> <tr><td>Monthly total</td><td><u>132</u></td></tr> </table>	Establishment	117	Contingencies	15	Monthly total	<u>132</u>	Rs. 984	Rs. 600	Rs. 1,584	Director of Public Instruction's No. 17655, dated the 13th December 1906.					
	Establishment	117																							
Contingencies	15																								
Monthly total	<u>132</u>																								
Koalpara Weaving School.	1907	Koalpara	Weaving	14	No	Nil	<table border="0"> <tr><td>Establishment</td><td>10</td></tr> <tr><td>Contingency</td><td>15</td></tr> <tr><td></td><td><u>25</u></td></tr> </table>	Establishment	10	Contingency	15		<u>25</u>	Rs. 300	Rs. 300	Rs. 300							
Establishment	10																								
Contingency	15																								
	<u>25</u>																								
Midnapore	Malsadal Raja's Technical School, Midnapore.	1885	Midnapore	Carpentry and smithery work.	41	...	1	42	Yes	Sub-Overseer standard	<table border="0"> <tr><td>Establishment</td><td>192</td></tr> <tr><td>Contingent</td><td>50</td></tr> <tr><td>Expends</td><td>20</td></tr> <tr><td>Extras</td><td>5</td></tr> <tr><td>Monthly Total</td><td><u>267</u></td></tr> </table>	Establishment	192	Contingent	50	Expends	20	Extras	5	Monthly Total	<u>267</u>	Rs. 1,098	Rs. 600	Rs. 1,778	Director of Public Instruction's No. 10324, dated the 30th May 1907.
	Establishment	192																							
Contingent	50																								
Expends	20																								
Extras	5																								
Monthly Total	<u>267</u>																								
Kharagpur Railway Night School.	1906	Kharagpur	Arithmetic, Algebra, Drawing, Geometry, and Applied Mechanics.	Yes										
Howrah	Lilloah Railway Technical School.	1903	Lilloah	Arithmetic, Algebra, Mensuration, Applied Mechanics, Linear Drawings, Projection and Mechanical Drawing.	32	<table border="0"> <tr><td>Head Master</td><td>60</td></tr> <tr><td>and ..</td><td>30</td></tr> </table>	Head Master	60	and ..	30	Rs. 1,650	Rs. 1,650	Rs. 1,650							
Head Master	60																								
and ..	30																								

PATNA DIVISION.

DISTRICT.	NAME.	Date of foundation.	Place.	Subjects taught.	NUMBER OF STUDENTS BEING TRAINED.					Whether any drawing is taught.	What literary training, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY--				REMARKS.
					Overseer grade.	Sub-Overseer grade.	mins.	Artisans.	Total.				Private source.	District Board.	Government.	Total.	
Patna	Bihar School of Engineering.	1896	Mahendra, Bankipur, Patna district.	Mathematics, Surveying, Engineering, Science, Smithery, Fitting, and Carpentry.	8	36	38	...	145	Yes	.....	Rs. 7,383	Rs. 3,432	Rs. 42,700	Rs. 53,525	Patna Municipality, Rs 128.	
Gaya	Fakharpur Industrial School,	April 1906	Fakharpur, thana Arwal subdivision Jahanabad.	Carpenter's trade	.....	...	...	...	10	.....	Elementary Hindi	Cost of wood, tools, etc., and remuneration to mistress, and stipends to pupils at Rs. 2.	468	...	...	468	
Shahabad	.....	.....	.....	.....	.....	...	...	...	...	.....	.....	Rs. ....	.....	.....	.....
Saran	Dome Technical School.	1903	Mirzapur	Bamboo work	.....	...	...	...	14	Elementary Free-hand Drawing.	The three R's	On masters ... 85 Sattu to boys ... 75 160	...	160	...	160	
	Ditto	1903	Manjhi	Ditto	.....	...	...	...	15	Ditto	Ditto	On masters ... 180 Sattu to boys ... 85 Cost of raw materials ... 33 298	...	398	...	398	
	Ditto	1903	Masrakh	Bamboo work and weaving.	.....	...	...	...	10	Ditto	Ditto	On masters ... 156 Sattu to boys ... 89 Cost of raw materials ... 10 255	...	255	...	255	
Champaran	.....	.....	.....	.....	.....	...	...	...	...	.....	.....	.....	.....	.....	.....
Muzaffarpur	.....	.....	.....	.....	.....	...	...	...	...	.....	.....	.....	.....	.....	.....
Darbhanga	Artisan School.	Primary 1905	Samstipur	Carpentry, Smithery and Painting.	.....	...	...	...	16	Free hand Drawing.	Up to Lower Primary standard.	Fifteen stipends to students at Rs. 3 One Literary master ... 10 Contingencies ... 10 Monthly total ... 65	...	780	...	780	

11A

BHAGALPUR DIVISION.

DISTRICT.	NAME.	Date of foundation.	Place.	Subjects taught.	NUMBER OF STUDENTS BEING TRAINED.				Whether any drawing is taught.	What literary teaching, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY—				REMARKS.
					Sub-Overseer grade.	Amins.	Artisans.	Total.				Private source.	District Board.	Government.	Total.	
Darjeeling	Lace School for women.	1905	Kahmpong	Lace making	...	...	100	100	Nil	Teaching one hour in the morning.	...	Rs. A.	Rs.	Rs. A.	Rs.	T. A. and scholarships.
	Embroidery School for women.	1906	"	Embroidery	...	...	41	41	"	Ditto	...	80 0	...	80 0	80	
	Weaving School for women.	1907	"	Weaving, crocheting	...	...	2	2	"	Ditto	...	87 8	...	87 8	175	
	General Industries for women.	1908	"	Sewing, knitting	...	...	207	207	"	Ditto	...	...	...	...	...
	Carpentry and Carving School for boys.	1905	"	Carpentry	...	...	19	19	"	Night school	...	154 0	...	...	...
Monghyr	Jamalpur Railway Night School.	Mechanical drawing, Science, Applied Mechanics, Mensuration, Steam Engine and Algebra.	"	
Bhagalpur	"	
Furnee	"	
Southal Parganas.	"	

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CHHISA DIVISION.

DISTRICT.	NAME.	Date of foundation.	Place.	Subjects taught.	NUMBER OF STUDENTS BEING TRAINED.					Whether any drawing is taught.	What literary teaching, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY—				REMARKS.
					Overseer grade.	Sub-Overseer grade.	Amins.	Artisans.	Total.				Private source.	District Board.	Government.	Total.	
Cuttack ...	Survey School ...	1876 ...	Cuttack ...	Surveying ...	...	50*	55	...	105	Yes ...	English Composition.	Rs. A. Practical surveying and repairs to surveying instruments. 350 0 Purchase of books ... 30 0 School scholarship ... 359 0 Establishment, general ... 4,638 0 Scholarships ... 90 0 Private sources ... 111 0 ----- 5,778 0	Rs. 1,289	Rs. Nil	Rs. 4,489	Rs. 5,778	* Survey final.
Balasore ...	Alalpur Industrial School	1891 ...	Alalpur ..	Carpentry, weaving, blacksmith's work and cane work.	...	...	...	21	...	No ..	Up to standard IV of Vernacular course.	Carpenter ... 13 0 1st Weaver ... 11 0 Literary teacher ... 9 0 2nd Weaver ... 8 0 Blacksmith ... 8 0 Cane worker ... 7 8 Servant ... 1 0 Contingencies ... 1 0 Prize ... 1 8 ----- Monthly ... 60 0	Rs. 540	Rs. ...	Rs. 180	Rs. 720	Director of Public Instruction's No. 1547, dated 19th December 1904.
	Santipur American Free Baptist Mission Industrial School.	1887 ...	Hatigarh ...	Weaving, carpentry, sewing, mat-making, rope-making, rattan work, wood-carving and gardening.	...	...	...	70	...	No ..	No ...	Superintendent ... 24 0 Head weaver ... 10 0 2nd " ... 6 0 3rd " ... 5 0 Head carpenter ... 11 0 2nd " ... 5 0 Time-keeper ... 5 0 Tailor ... 9 0 Stipends to students ... 5 0 ----- Monthly ... 80 0	Rs. 480	Rs. ...	Rs. 480	Rs. 960	Director of Public Instruction's No. 6508, dated 22nd April 1905.
	Balasore American Free Baptist Mission.	1800 ...	Balasore ..	Carpentry, cabinet-making, rattan work, shoe-making, book-binding and tailoring.	...	...	...	33	...	No ...	Evening school four nights in the week.	For teaching ... 67 0 " overnight ... 18 0 " book-keeping ... 6 0 ----- Monthly ... 93 0	Rs. ...	Rs. 1,200	Rs. ...	Rs. 1,200	Sanctioned in District Board's letter dated 18th February 1907.
Furl ...	.....	...	...	.....	...	...	...	Nil	.....	.....	.....	.....	.....	.....	.....	.....	.....
Angul ...	Angul Survey School	November 1899	Head quarters at Angul.	Nil	Nil	...	25	...	...	Both Theoretical and Practical (Printing scales, Geometrical and Map-drawing).	Nil	Teacher's pay ... 300 Contingency .. 120 ----- 420	Rs. 420	Rs. Nil	Rs. Primary grant.	Rs. 420	
Sambalpur	...	...	...	.....	...	...	...	...	...	...	...	.....	.....	.....	.....	.....	.....

11.

CHOTA NAGPUR DIVISION.

DISTRICT.	NAME.	Date of foundation.	Place.	Subjects taught.	NUMBER OF STUDENTS BEING TRAINED.				Whether any drawing is taught.	What literary teaching, if any.	Details of expenditure.	AMOUNT CONTRIBUTED BY—				REMARKS.	
					Sub-Over-seer grade.	Amins.	Artisans.	Total.				Private sources.	District Board.	Government.	Total.		
Hazaribagh	East Indian Railway Collieries Industrial School.	1905	Bennadih	Smithery and carpentry			26	26	Geometrical, isometrical and mechanical drawings.		One teacher on Rs. 50 a month.	Rs. 1,123	Rs. 120	Rs. 120	Rs. 1,363	Director of Public Instruction's No. 16186, dated 14th November 1906.	
	Bhandra	1903	Bhandra	Smithery			2	27	Geometrical drawing.	Lower Primary course	Stipend ... 48 Special class ... 21 Total ... 69		69		69		
	Baddambazar	1905	Baddambazar	Do.			15	15	Ditto	Ditto	Stipend ... 48 Special class ... 60 Total ... 108			108	108		
	Pursoni	1905	Pursoni	Do.			12	12	Ditto	Ditto	Stipend ... 48 Capitation allowance ... 29 Total ... 77		74		47		
	Falawal	1906	Falawal	Do.			14	14	Ditto	Ditto	Stipend ... 48 Special class ... 68 Total ... 116		116		116		
	Bugda	1906	Bugda	Do.			13	13	Ditto	Ditto	Stipend ... 33 Capitation fee ... 11 Total ... 44		44		44		
	Chitarpur	1906	Chitarpur	Do.			15	15	Ditto	Ditto	Stipend ... 12		12		12		
	Bagodar	1906	Bagodar	Do.			9	9	Ditto	Ditto	Stipend ... 48 Capitation fee ... 16 Total ... 64		64		64		
	Bishungarh I	1906	Bishungarh	Do.			10	10	Ditto	Ditto	Stipend ... 28 Capitation fee ... 8 Total ... 36		36		36		
	Bishungarh II	1906	Ditto	Carpentry			10	10	Ditto	Ditto	Stipend ... 48 Capitation fee ... 14 Total ... 62		62		62		
	Damadardih	1906	Damadardih	Do.			15	15	Ditto	Ditto	Stipend ... 48 Capitation fee ... 8 Total ... 56		56		56		
	Chitarpur	1906	Chitarpur	Weaving			6	6	Ditto								25
	Gurry	1906	Gurry	Pottery			18	18	Freehand drawing.	Lower Primary course	Stipend ... 48 Capitation fee ... 40 Total ... 88		88		88		

	Bugdā	1906	Bugdā	Pottory		21	21	Freehand drawing.	Lower Primary course	Stipend ... 48		67	67
										Capitation fee ... 19			
										Total ... 67			
	Harloong	1907	Harloong	Smithery		16	16	Geometrical drawing.	Ditto	(Unaided) ...			
	Achaljamoo	1907	Achaljamoo	Do.		13	13	Ditto	Ditto	Ditto ...			
	Potarbar	1907	Potarbar	Do.		8	8	Ditto	Ditto	Ditto ...			
	Hazaribagh Reformatory.	1888	Hazaribagh	Weaving and agriculture.		188	188	No ...	Primary course			36,144 0	36,144
Ranchi	Ranchi Government Industrial School.	1891	Ranchi	Carpentry in all its branches. Fitter's work, including motor and cycle repairing Blacksmith's work. Carriage repairing and painting. Cane work in connection with furniture.	23 (B class boys.)	70	83	Drawing is compulsory in the Sub-Overseer Department of the school, it is also taught to the artisan boys, though in an elementary form.	In the Sub-Overseer Department, boys are taught up to the Sub-Overseer standard of Sibpur. Artisan students are taught in Hindi, elementary calculations, also free-hand and geometrical drawing.	Establishment ... Rs. 7,464 Stipends to artisans ... 1,128 Contract contingency ... 60 Library allowance ... 18 Coal expenditure for the engine ... 900 Raw materials ... 1,000 Municipal rates and taxes ... 72 Total 10,636	120	10,516 0	10,636
	Patrahatu Industrial School.	1904	Patrahatu	Blacksmith's work		14	14	No ..	Nil	Establishment ... Rs. 6		73	73
	Barenda Industrial School.	1890	Barenda	Ditto		21	21	No ...	Nil	Ditto ... 6		73	73
	Bandu Industrial School.	1898	Bandu	Smithery and carpentry		24	24			Ditto ... 19½		234	234
	German Mission Lace School.	1907	Ranchi	Lace work		44	44			Establishment and material ... Rs. 1,014	536	924	1,460
	Roman Catholic Women's Lace School.	1905	Do.	Ditto		100	100			Establishment and material ... 3,646	2,404	60	3,046
	Khunti Convent Lace School.	1905	Khunti	Ditto		95	95			Cost of establishment ... 2,688	2,688		2,688
	Khunti Weaving School.	1905	Do.	Weaving		13	13			Cost of establishment ... 1,920	1,920		1,920
Manbhum	Jhalda Industrial No. I.	1903	Jhalda	Smithery		15	15	No ..	Course of the 2nd and 1st-year infant class.	Establishment ... 6		73	73
	Jhalda Industrial No. II.	1903	Do.	Ditto		16	16	No ...	Ditto	Ditto ... 6		24	48
	Tanasi Industrial	1905	Tanasi	Ditto		3	13	No ...	Ditto	Ditto ... 4		48	Nil
	Baghunathpur Weaving Institution.	1904	Baghunathpur	Weaving		15	15	No ...	Lower Primary course in p r t.	Ditto ... 13	36	120	Nil

CHOTA NAGPUR DIVISION—concluded.

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					Sub-Overseer grade.	Amins.	Artisans.	Total.				Private source.	District Board.	Government.	Total.	
Singbham ...	R. C. Mission Industrial School.	1905 ...	Chaibassa ...	Weaving Needlework Gardening	...	...	...	45	No ...	No ...	Raw materials ... 117 Maintenance of children (boarding) 39 Two teachers ... 80 Stipends ... 3 Monthly total ... 239	Rs. 2,868 4	Rs. Nil	Rs. Nil	Rs. 2,868	
	S. P. G. Mission Industrial School.	1900 ...	Ditto ...	Carpentry, stone-carving and weaving.	...	...	...	27	Yes ...	No ...	Superintendent ... 20 2nd teacher ... 15 3rd " ... 8 4th " ... 8 Stipends to apprentices ... 65 Tools ... 5 Prizes ... 2 Library ... 2 Monthly total ... 128	1,536 0	.....	.....	1,536	
	Ghatella Industrial School.	1894 ...	Ghatella ...	Carpentry and Smithery.	14	No ...	Lower Primary standard in Night School.	Teacher's salary ... 525 Stipend ... 276 Contingency ... 24 Other expenditure 146 Balance in hand ... 55 Total ... 1,026	554 0	480	1,034	
	Chaibassa A. M. Industrial School.	540	
	Blind Industrial School.	150	

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