SERVANTS OF INDIA SOCIETY'S LIBRARY, POONA 4.

FOR INTERNAL CIRCULATION

To be returned on or before the last date stamped below 1 9 0 CT 1962 1 7 NOV 1969 1.8 DEC 1.29.

Town Planning towards City Development.

A REPORT TO

THE DURBAR OF INDORE

 $\mathbf{B}\mathbf{Y}$

Patrick Geddes.

PART II.

THE PROPOSED UNIVERSITY OF CENTRAL INDIA.

ESTIMATES: CITY, SUBURBS, AND INDUSTRIAL TOWN.

PUBLIC HEALTH, PLAGUE MEASURES ETC: AND THEIR ECONOMIC RETURN.

THE CO-OPERATION OF CITIZENS.

GENEROSITIES, CO-OPERATION AND SOCIAL FINANCE.

CITY-STATE, CITY AND CITIZEN.

CONCLUSIONS AND AGENDA.

Appendices:-Mosquito Survey, Reports of Experts &c.

Notes on Towns and VILLAGES.

DIWALI Procession 1917.

INDORE.

1918

Y35:81:7.28154 CI

E8.2

14515

CONTENTS.

Section I:

The suggested "University of Central India" at Indore.

				F	AGES.
CHAPTE	R I:—Universities in India and in l	Europe	•••	. 	1
, ,	Introductory	14 m	***	440	1
	Indian Universities			•••	1
	New Universities in India .	••		•••	3
	Historic Origins and Developments of	Universi	ty in the W	7est	4
	Origins of the University of London,	and of the	se of India		4
	Germanic Universities, at their Best.	••	•	• • •	5
	Germanic Universities in Deterioration	n .	•••	• • •	6
	Summary and Policy	• •.	•••	•••	6
		- ·			
CHAPTE	R II:— The Present University Situ	ation	* * **	•••	6
1	Possible Improvements in India .		• • • •	4	7
	Need of a Larger Statement of the In	ndian Pro	blem	-	7
	Practical Needs of India, and Educati				7
•	Higher Educational Consequences		•••	•••	8.
	Further Consequences	4		• • • •	9
	The Post Germanic University .		***	١	10
	The University as Incipient in Indore	, ,		,	10
	**			,,,,	
		<u>-</u> •			•
CHAPTE	R III:— University Renewal, as aid	ded by Ri	econstructi	inn	•
*. *	after War	•	∮		. 31
	Re-Housing and Civic Movements .		∃ 9••	•••	11
	A Fable of the Bees	144:	414		11
	The Reconstruction Movement				12
	Reconstruction and the Universities .			•••	13
	A Historic Comparison of Past and		•••	***	13
		-			
CHAPTE	R IV:—Beginning of the Past-Geri	manic Ui	niversity		14
•	The University Militant	•••	544	•••	14
	Eutopia versus Utopia		# **	•••	14
	Possibilities in Indore and Generally.		***	• • •	14
	Sarasvati	•••		•••	15

		·	P.	AGES.
Concrete Examples: Education in	War Time	•••	•••	. 15
Education in Peace	4 •	***	•••	15
The Needed Curriculum and the T	ransition de	termining is	t,	
as from Paleotechnic to Neotech	nnic	•••	•••	16
The Essential Transition in its Inn	er Aspects		•••	17
Reconstruction and Educational R	enewal Toge	ether	• •	18
Conclusions	•••	***	***	18
-	<u> </u>			
CHAPTER V:-Central Library and Mus	eum, and T	heatre		19
General Location of these	•••	***	•••	19
General Conception of Scheme	***	a;		19
Planning of Central Library and I	Museum		•••	. 20
Museum	***	•	•••	20
Psychological Conditions Necessar	y for Creati	on and	•	
Maintenance of these Institutes	•	•••		21
Museums and Libraries in Recent	Progress		•••	21
School Results Accordingly	***	***	•••	22
Essential Feature of Present Sche	me	• • •		22
Planning in Further Detail	•••	• • • •	•••	23
A Type Museum, Regional, Gener	al and Edu	cational	••«	23
Example of a Museum of Regional		•	•••	24
Regional, Civic and Domestic Art	and History	Museum	••• ,	24
Agricultural Museum	•••		***	25
Haalth Museum	***	, apreci	. ***	- 25
Technical Museum, and Associated	l Workshop	***	•••	26
Musuem Purchases for Type Collection	ctions	•••	1.2	26
	• .			
CHAPTER VI:-Applications in Education	n	: " 	•••,	27
The Blank Classroom				27
The Converse Method	,,,,	1	•	27
The Outlook Tower		, , ,		28
The Cardinal Points as Simplest I	Cxample			28
An Initiation towards Art	zaumpio			29
Need of Kindred Outlooks in Educ	estion Gener	all v		30
An Example from History Teaching		<i>a</i>		30
A Further Example from Cosmogn	_			31
Further Outlooks of the Sciences	J	***		32
An Outlook of the Humanities	*	***		33
Education towards Originality				33
The Historian's Outlook	•••	•••	***	33
The New Theatre and its Uses	***	***		34
Open Air Theatre, and Gymnasium	1		***	34
Transfer of minimum				

	Pages
*CHAPTER VII:-Wider Outlooks in Higher and Adult Education	n 34
Further Initiations towards Studies	34
The Organisation of Knowledge, in its main Perspectives	35
The Complemental Need, of Inlook beside Outlook	36
Examples from Modern Political and Social Differences	36
Outlook of Past, Present and Future, and the Reconciliation	on 37
Religious Differences	38
Further Applications	40
CHAPTER VIII:-Further Beginnings Towards the University	of
Indore —	40
City Studies	40
Indore State	42
India	42
Empire, and Western Civilisation	42
Oriental Civilisations	42
Simpler Peoples	43
Educational Summary	48
Women in Education	44
CHAPTER IX:—State Scientific Institutes, as nascent University Departments	sity 44
Erection of Buildings etc	44
Possible Initiation as Exhibition Buildings Further Advantages of Exhibitions	4
Exhibitions and their Academic Critics	45
	45
CHAPTER X:-Faculties and Schools of the Modern University	7
and their insufficiency for indore	46
Introductory	46
University Studies as they are: University Faculties	46
Possibilities of Renewal	47
The Organisation of Knowledge	48
The University Reorganisation in Progress	48
More Specific Criticisms	48
Example of further Criticism, subject by subject: e. g. Econ	
Similar Criticisms throughout the Universities	49
A Concluding Warning	49
CHAPTER XI:-Constructive proposal: School of Music	KI
CHAPTER At: — Constructive proposal: School of Music	50

	·		4.0	ges.
CHAPTE	R XII;—Further Constructive Proposals	4	•••	51
	Examples; Bad and Good	•	•••	51
	The University as nascent in Indore	***	•••	51
	The Educational Revolution in Progress	•••	•••	52
CH A PTE	R XIII:—The Nascent University at work in	Índono	•	53
OIIMI 112	It Alli.—Ind nascent University at work in	IIIUUT	•••	Ju
•	Existing Colleges and New Institutes	•••	•••	53
	Needful Avoidance of Premature Organisation	•••		53
	Students for the Nascent University	b:# #	•••	53
	University Extension		•••	54
	Further Development: Scientific and Humanistic	3	!	54
	Further Developments, Medical and Technical	•••	•••	55
	Return to Higher Studies	· .	•••	55
	Degrees in Arts and Sciences	•••	•••	5 6
	Reunion of Humanistic and Scientific Studies	***	•••	56
	·			
מדר א דוים.	D VIII A. III.			£ 17
CHAPTE	R XIV:—Conditions for a New University	•••	•••	57
•	University Headship	•••		57
4 + 7	The Needed Headship			58
	Present Conditions of University Renewal	•••	•••	59
	General Programme for the Needed University			59
	Results on the Faculties of the University	t ee		60
	Money Difficulties	***	•••	60
	Public Generosities and how to Evoke them	•••	•••	61
	Hostel System			61
• • •	Further Applications			62
	A Practical Question		•••	62
•	Economical University Planning accordingly	***	•••	62
-	Illustration from a University Department usual	lly costly .	•••	62
•	Application of the Preceding to University Plan	-		63
		·		•
OTT A TOPPE			•	
CHAPTE	$\mathbf{R}_{-}\mathbf{X}\mathbf{\nabla}$.—From "Examinations, and Research	h" to Rese	arch	
	and Estimation		•••	64
4 - 4	Studies and Research			64
	Estimation V. Examination		***	65
•	A Practical Proposal during Change			67
ė . i	Estimation for Certificates and Diplomas			68
	The second secon			
СНАРТЕ	R XVI:—Conclusion of University Report, the	hough inco	mplete	70
i				
, • •	University Theses, here indicated but postponed		•••	70
	Educational System contrasted, as of Spirit or b	eller	•••	71
	University Finance-After Estimates	•••	•••	72
	Immediate Practical Possibilities in Indore Conclusion	***	***	73
• • •		• • •		73

Section II.

Estimates &c.

		PAG	es.
CHAPTER X	VII:—Introductory to Estimates	:	74
Mac	gnitude of Schemes		74
-	peal for Strict Economy	• 6 •	75
	emes as Legitimate Developments of Indore	,,,	75
	er of Presentment		75
Ora			
CHAPTER X	VIII:—Water and Drainage Estimates		76
	Water Estimates		76
ii.	Drainage Estimates		76
11.		•••	
	A. Cleansing and Improvement of Rivers and Nullas	•••	77
	B. Drainage Gardens for the City Area	•••	77
	C. Existing Surface Drains: Repair and Improvement	t with	m O
, : - :	Additions	***	78
	D. Underground Drains	***	78
CHÁPTER X	IIX:—Estimates Continued: Improvements of Old C	ity	79
No	te as to these and Subsequent Estimates		7 9
the second	A. Estimates for Improvement of City Quarters	•	80
		•	
CHAPTER X	XX:—Estimates Continued: New Communications et	tc	84
I.	Sia Ganj Communications etc. (I. 129)		84
II.	Juni Indore (1, 135) Suburban Extension	···	84
III.	New Through Boulevard (1, 137) etc	***	84
·IV.	Ghati Peninsula (S. of Union of Rivers) 1. 185	•••	85
V.	Harsidhi Bridge and Neighbourhood		85
VI.	Road Junction Imli Bazar, North East of Old Palace	Square	85
VII.	Krishnapura Bridge and Neighbourhood		85
VIII.	Municipal Office: Extension and Improvement	•••	86
IX.	Continuation of Municipal Boulevard to North and I	North	
	and East		86
\mathbf{X}_{\bullet}	Western Suburbs, from Mhow Naka (Star of Road)	•••	86
XI.	Pilia Nulla Neighbourhood	•••	86
XII.	Bakshi Bagh and Bohra Cemetery Neighbourhood	•••	87
XIII.	Roads of Northern Suburbs	•••	87
ΧIΦ	Roads of Southann Suburba		87

			•	· P .	AGES.
X∇.	Railway Station Neighbourh	ood	• • •	***	88
XVI.	Eastern Suburbs	•••	• .	***	88
No	te on construction of Roads	•••	•••	•••	88
CHAPTER 2	XXI:—Estimates Continued:	Gardens	and Parks	•••	88
A.	City Gardens etc, (not assoc	iated with	n Drainage Sc	heme)	88
В.	Improvement of Chhatri Bag		_	•••	39
C.	Zoological Gardens I. 99	•••	•••	•••	89
D.	Horticultural Gardens (Sou	th of Lal	Bagh Road)	1. 102	89
E.	Sports Parks, South of Gard	ens 1. 1	06	•••	89
CHAPTER 2	XXII:—Institutes, Library &		•••	•••	90
А.	Scientific Institutes, South o	f Lal Bac	rh Boad (II 1	21 124\	90
	-Library, Museum and Tower				
	Ghati Peninsula (II. 19)	•••	•••	•••	90
Us	es of the above Expenditure	•••	•••	•••	90
			· 		
CHAPTER 2	XXIII:—Estimates Continue for Poorer Classes	d: New 1 	dousing in O 	ld City	91
Su	mmation of Improvements for (· Lity Oner	tora		91
	mbination of the Preceding Est	•		oment of	<i>J</i> A
and the second s	given Areas of City and Suburb	•	···		92
CHAPTER 2	XXIV:—Estimates continued	 i: Lavout	of Industria	i Town	94
		_			
A,	Main Industrial Roads, Sout			uu L Duidaaa	94
В.	Main Industrial Roads, Nort for Roads and Railway Sid		•	n Briages	94
C.		ing Ojac		•••	94
D.	Roads and Bridges for Housin	no Area	***	***	94
E.	Municipal Requirements		•••		95.
·	• •	Gulandar			
	st and Planning of New Roads:	Suburbs		1 TOWN	95
£4ÇC	onomy of Planning :	***	***	***	96
	1. Coconada Suburban Villa	ge	•••	•••	97
•••	2. Nellore New Mohalla	• • •	•••	•••	97
CHAPTER X	XXV:—Summary of All Estin	nates:—	•••	•••	98
I.	Old City and New Suburbs (Chap. XV	/III)		99
II.	New Industrial Town (Chap.	-	•••	•••	99
III.	Housing: Possible Advances o	-	(Chapter I. 2	K. and	
	and II, XXVI)	•••	400	•••	99

Section III.

Procedure.

	 :		I	AGE.
CHAPTER XXVI:—Suggestions towards	Procedu	ire and		103
Administration	•••	•••	***	102
Procedure after Estimates	•••	•••		102
A word to Critics	• • • •	•••	•••	102
The Questions of Procedure, towards	s Executi	on of Impr	ovements	102
Administration	•••	•••	•••	103
City Improvement Trusts in India	•••	•••	•••	103
Dangers of Municipal Government for	rom abov	Ð 	•••	104
The Remedy: Encouragement of Cit	- 10 m - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	690		104
The Town Planning Movement in E	ingland	•••	•••	106
"The Friends of Indore"	•••		***	106
CHAPTER XXVII:—The Needed Town Pla	nning a	nd Improv	ement	
Office and its Managem		***	•••	106
Cost of Town Planning	***		•••	109
Note on defects in Customary Valua	tions for	Clearances	and	
Rates of Compensation	•••	•••		109
Justification of Proceding Estimates	s and Age	nda -	•••	110
	····			,
Section 11	7.	•		•
Estimates further Ex	kplained	.		
	<u> </u>			
CHAPTER XXVIII:—Housnig and Cleans	ing, in O	ild City Es	pecially	110
Housing Generally	a 1°6	•••	•••	112
Housing Generally	***	•••	•••	112
The State as Housing Banker	***	• • •	•••	112
Old City: Housing for Sweepers, as				112
Possible Sources of Aid towards "F	Raising Co	ondition of	Depresse	
Classes"	•••	•••	•••	113
Co-operation of People themselves	•••	***	. 9 • •	113
Brahmin Water-carriers again	***	•••	•••	114
Suggested Dairy Scheme Ice Factory and "Chilled Milk"	•••	•••		114
Further House-Building for Pers	ona to l	 A Diabana	ad bu	115
Improvement	опа 10 г	מוסוומות סי	ed by	115
Housing Co-operative Bank for Cit	y and Su	burbs	•••	115

				1	ACES.
Corn-Godowns for I	Plague Measur	es: Tonga	Stables and	Tonga-	
wallas	***	•••	***	***	116
Servants' Houses			1.175	···	116
Mr. Lanchester's Su					116
Comparison of the p		-	ving Old Qi	ıarters,	115
with Customary of		it.	***	***	317 117
Economy of this "(Surgery	***	•••	
Old City Cleansing.		•••	4.1	•••	118
Immediate Cleansing	-			• • •	118
Comparison suggested		=			118
Improvement of To Environment	ownspeople, n	n adaptat	ion to impi	_	110
Environment	•••	4 • •	***	***	119
-	·				
CPAPTER XXIX:-Planning	g and Progre	ss of the l	New Indust	rial Tow	n 120
Industrial Town Pla	nning (See Pl	ans II and	lIII)		120
Allocation of sites	•••	•••	***	•••	120
Vacant Sites North	of Nulla	***.	•••		120
Electric Power	•••	•	•••	•••	121
Railway Sidings	•••	•••	•••	•••	121
Defects of Current I	ndustrial Plan	ning and	Organisation	ı	121
Drainage Gardens of	•	•	•		122
Minor Industries	***	•••	• • • • • • • • • • • • • • • • • • • •	•••	124
Art Industries	•••	•••	•••	•••	124
Other Industries	4	•••	***	•••	125
					
CHAPTER XXX:—Planning	of Industria	i Town (S	See Plan II ,)	125
General Layout of T	own	•••		•••	125
Town Districts for M		Postal Pu	rposes &c.		126
Location of Building				• • •	127
Public Health Requi			***	• • •	127
Water Supplies for 1		l Town	•••		128
Surface Drains			414	***	128
Economy of Municip	al Tinkeen	,			129
Possible Future Ext	_	industrial	Town		129
T OSSIOIO I GUGI O	engion of two	illumoti imi	2011.1	•••	120
CHAPTER XXXI:—Housing	Forecast a	nd Ruildi	nn Felimalı	es. for	
	Town etc.		·	***	129
The Primary Health	Condition: Sp	pace and A	.ir, ,	• • • •	130
Possible Exhibition of			17.5	•••	130
Housing Forecast Co	·		Construction	, with	
Estimates for Sma		•••	* * <u>*</u> *	***	130

•		P.	AGES.
A. Estimate for One-Roomed Houses	e ge		131
B. Estimates for Two-Roomed House		•••	132
Further Economies in Construction	•••	•••	133
	•		
CHAPTER XXXII:-Garden Cities and their Crit	fire with R	enlies	
to These	···		134
	•	,	100
- Contrasted Modes of Economy in Construct	ion	•••	136
•			
CHAPTER XXXIII: —Industrial Efficiency and to of Housing,	he Requiren	nents '	136
•		•••	
In Regard to Working Hours, in Factories	etc	***	136
Consequences for Housing	•••	***	139
•		,	
•		•	•
Section V.			
, , , , , , , , , , , , , , , , , , , ,		•	
Public Health Measures for Indore, and the	eir Econon	nic Valu	e.
CHAPTER XXXIV:-City Health Improvement as	Productive	Improve	l#
ment: Plague Losses and Plagu			141
With their Economic Importance respective	eľv		141
Plague in Indore: an attempt towards its E	•	mates	141
Need of Fresh Estimation	•••		143
Plague Measures	***	•••	143
Plague Vigilance Corps; Rat-Precaution In	spectors	•••	144
New Corn Markets, to be kept Rat-free	*	***	144
Horse-keeping, Private and Licensed	***	•••	145
The Needed Plague Measures	•••	•••	145
The Financial Difficulty	•••	•••	147
The Needed Revolution in Civic Thought and	d Economic I	Reckoning	148
		•	
CHAPTER XXXV:Public Health Losses of Indo	o other the	om Dionu	0 *
and Practical Measures		2н г.ауи: 	148
Infant Mortality and its Prevention	***	***	149
Tuberculosis	ere	***	151
Importance of Improved and Cheapened Mi	nk-puppites	•-•	152
Diseases of Digestive System Cholera, and Small-Pox	•••	•••	152
Rheumatic Diseases	•••	***	153
Malaria.	***	***	158 158
Manara			T A A

Pages.

CHAPTER XXXVI:-Disease as Poverty; and Publ	ic Health	as
Public Wealth	•••	156
Table I. Mortality according to Diseases .	. • •	157
Life Expectation in the West	• • • •	157
A Ministry of Health as Ministry of Wealth .	•••	158
Markelitan Abetemanta for Indone	•••	158
Table II. Variations in Death-rates, Past (1, 2, 3,	, 4), and Po	ssible
/K & 7\	•	159
Summary	•••	160
Further Possible Improvements		161
Need of Table 111. of Practical Activities .	• • •	162
Summary Again	• • •	162
Conclusion as to Public Health	•••	163
Section VI.		
Co-operation of Citizens-	,	
CHAPTER XXXVII:—Proposed Civic Association: Frie	ands of Ind	ore 163
Difficulties and Disappointments		163
Vital Conditions of Success	•••	164
The Initial Problem	· ·••	164
Natural Division of Labour	• • •	165
Educational Preparation towards Citizenship .		165
Re-Education, through City Survey, and its Resu	ılts	167
The Association's Development and Progress	• • •	167
Education by Dooles at		168
Re-Education Again	•••	169
Public Health Again	•••	170
Constitution of the Civic Association	•••	170
Aid towards Cleansing and Improvement of the I	Mohallas	171
•		
CHAPTER XXXVIII:—Public Generosities; Local E Co-operative Banking, and Social Fi		, 172
Recent and Present Generosities		172
Improving condition of the People: and Welfare	Management	
Co-oprative Movements	* * *	178
Social Finance, in its Civic Bearings especially		173

			P	ages.
Outline of Civic Finance, as at p Development	present in	Transition	and	173
Civics and Education in Constructive	Finance	•••	•••	175
	-	·	,	
Section VII				
City-State and Cap	ital.			
CHAPTER XXXIX:—Indore as City State.	•••	•••	•••	178
Introductory: the relation of Country	and Town	•••	•••	178
	4	•••	•••	178
Advantages and Superiorities of the		intries and		
States	••	•••	•••	179
The Case for the Smaller Cities	•••	•••	•••	180
The City-States of India	•••	•••	•••	181
Practical Possibilities of this Renewir	g City	***	•••	181
Summary and Conclusion	•••	•••	•••	182
· · · · · · · · · · · · · · · · · · ·	-			
CHAPTER XL:—The City	•••	•••	• • •	184
City and Citizen	•••	•••	•••	184
Problems of Execution	•••	***	•••	185
The Renewal of Art in Indore	>>	***	***	185
Essentials of Planning	•••	•••	••	186
Illustration from New Express Boule	ovard; its di	ifferent Asp	ects	187
City Planning and the War	•••	***	•••	188
Practical Possibilities of Indore City	•••	***	***	189
	' 			
O 41. TTTT	-			
Section VIII	l.			
Essentials, Agenda and	Conclusio	on.		
CHAPTER XLI:—Essentials of the Present	- Panori		•	192
_		- 	***	
Review of Proposed Economies	***	***	***	198
Conclusion	•••	•••	•••	196

				1	Pages,
CHAPTER XLII:—Agenda	• • • • • • • • • • • • • • • • • • • •	***	• • •	•••	197
Immediate Tasks?	•••	•••	•••	•••	197
Public Health and H	ousing -	•••	***	***	197
Procedure	•••		•••	•••	197
Organisation and Eco	onomies	•••	•••	. •••	198
Drainge Gardens	•••	•••	•••	•••	199
River Purification, as	nd its Conse	equences		•••	199
Summary as to Publi	ic Health	•••	•••	·	200
Communications	•••	***	•••		200
Higher Improvement	s: Culture I	nstitutes ar	d University	•••	201
Individuals and State	Encourage	ment	•••		202
Examples of Plans in	Adaptation	and Progr	ress	•••	202
CHAPTER XLIII:—Concludi	ng Summa	ry	•••	***	208

INDEX.

VOLUME I.	Volume II.
Pages.	Pages.
A .	A.
Acknowledgments xiv	Acknowledgements ii
Agriculture, Museum etc 125	Activities, Need of Practical 162
Alwar City 103	Administration and Procedure 102,103
Amritsar 56	Agenda 190,197
Ara Bazar 158	" Justification of 110
Arboretum 106-110	Agricultural Museum 25
Avenue, Old Palace 95	Allocation of sites 120
Trace etc.	Art Industries 124
,, 1 rees etc 50 Aviaries 125	"Initiation to … 29
	Museum 24
	" Renewal in Indore 185
	Ashbee C. R 185
	Ajibghar 20
· ·	Ajibghai
В.	B.
Babul Trees as Fuel Plantations 90	Bamnia App. xxiv
Bacteriological Laboratory 113	Bees, Fable of the 13
Bank Site, Old City 175	Boating College 196
Bania Suburb 173	Boulevard Express 187
Bazazkhana 162	Boy Scouts 164,165
Belfast, Linen Town 27-28	, House 124,165,192
Bilauli, See page Bund 43	Brahmin Water Carriers 114
" Water Supply Scheme 41	Buildings, Public, Location of 127
Villaga eta	Burway Judge App.
Bohra Bakhal 164-173	Rururaha
" Park 92	Biocentric and Mechanocentric 70
Bolia's Chhatri and neigbourhood 87	
Bombay, as Cotton Town 29	
Boys' Corners 106,150	
Boy Scouts 150	i i
Boulevard, Express 137,188	1
Brahmin Water Carriers 165	
Buildings, Planning and Lay-out 35	
Buildings Scientific 124	
Bullock Carters, Peninsula 135	
The state of the s	
C.	C.
Calcutta, as a Chief Town 28	Camera Obscura 29
Camel enclosure 101	Cardinal points 28
Carts stand and Corn-market	Certificates and Diploma 68
(Sia Ganj) 131	Chanerawat Ganj App. xxi
Cereals in Social Contrast 24	Chilled milk 115
Chhatries, Two Main 97	Cholera 153

VOLUME 1.		Volume 11.
	PAGES.	Pages.
Chhatri Bagh	0.e	G'
Olan amaz litaa	96 117	City and Citizen 124,184
The admiral of the		,, History 24
Danisana Diama	15,15 61	,, Survey 164
Condona on I Doul	86	" Improvement Trust … 103
Ldoola	23	,, Old 112
Tife ite Tetan malatinas		,, of the Good-Life 105
Donorrol anditions of	136	,, Studies 40
	23	Citizenship, Education and
•	4,12	Preparation 165
" Water Improvement … ,, Quarters	45	Citizenship, Encouragement of 104,108
Civing Described	132,135	Civic Association, Constitution of 170
~1	23	" Association, Difficulties and
	178,179	Disappointments 163
~	106	,, Association initial-problem 164
Communications	138,158	, Finance 173-175
Communication with Railway Station.	0	" Movements 11
	202	,, thought, need Revolution in 144
Community groupings	67-93	Cleansing of Old City 118-171
Compensation	84	Colleges and Institutions 53
Conservative Survey	161	Compensation, rates of 109
Co-operation, Definition of	70	Communications 194-200
Co-operation of schools	180	Conditions of Success 164
Co-operative Tenants	69-85	Consequences for Housing 139
Corn Market, Residency	130	" Conservative Survey … 117
	129-131	Construction Economics in 130-133
Cotton in Indore	28	Constructive proposals 51
" Social and Civic, Aspects	26	"Conservative Surgery,"
" Mill Area	32	Economy of 117
Cremation Society	48	Co-operative Housing 115-147-112
Country Homes, Advantage of	66	Co-operative Movements 173
Civilization—Values	29-31	Co-operation of People 113
" Workers, Housing of	f 67	Corn Godowns 116
		Corn Market, Rat-Free 144
•		Class room, the Blank 27
		Cosmography 31
	ĺ	Cost of Town Planning 109
		Critics, a word to 102
•	ľ	Curriculum needed 16
	•	Culture-Institution 195-201
n	ļ	_
D.	i	D.
Darwin	79-136	Darwin 66-68
Deep Drainage	53	Dairy Scheme 114
Depressed Classes, elevation of	74	Death rates, past and possible 159
Dessication of Asia		Death rates, possible improvements 161
Dewas Road	175	Degrees and Arts and Science 56
Dhangalli	167	Depressed classes 113
Dharamshala	199	Diseases as poverty 156
	·	

VOLUME I.	Volume 11.
Pages.	Pages.
D 41	7
Drama as occupation 98	Diseases of digestive system 152
Dhhobis 166	Diseases-Rheumatic 153
Dhluni 99-175	Diwali cleansing 118
Diagram Plans 81	Diwali Procession App. XVII
Dirt, Definition of 74	Drains surface 128
Diseases, Example from.	Drainage gardens 122-199 Drain Cities comparison of 118
Divergence of river 116 Diwali 23-66	Drain Cities comparison of 118
Drainage 48	
Drainage cost of reconstruction	·
scheme 55-58	
Drainage East Bank 186	
West Port 107	
,, (acreage required) 189-191	
, Existing City 183-186	
Drains egg shaped 59	
Drainage Gardens 75-128-140	
" Gardens (Rainy Season) 192	
" Acreage and population 189-191	
" New Suburbs, etc 185	
.,, Pilia Nulla Basin 188	
" Plan Indore 51-52	
,, Town Planning 50	
" Sia Ganj and Residency 52	
" Scheme (Past Extremists) 58	
" Preparation 196	
" Scheme Introductory 183	
" " in Indian Cities 49	
, , North west City 54	
" " Sanitary Engineers	
criticism 58	
Drainage Scheme Underground 193	,
Drains, flushing of 184	
Dundee, as Jute Town 28	
Dunfermline as Linen Town 29	·
Dwellings for Gardeners 112	
,, separate 74	
Drainage alternative scheme 60-63-80 ,, Economic and Social 141	
" Economic and Social 141	
E,	E.
Economy aspects of the Garden	Efficiency Management
Scheme 141	Efficiency Management 122 Economics criticism of 49.64
Education (2 R. 's v. 3 H. 's). 147	Economics criticism of 49,64 ,, of public Health 141
Educational Buildings 121	Rockaning needed
Education of life 153	Revolution 148
Education vital and public Health 152	Economics Summary of 186
Efficiency method 35	Economy in construction 133,136

Eutopia v. Utopia 19,27 Evolution Garden 108 Excavation, cost of Drain 55 Education (Civic) by Books etc. 168 Constructive Finance 175 Towards originality 33 Towards originality 43 Towards originality 44 Towa	VCLUME I.	AGES.	Volume II PAGES.
Education 27 Education 27 Evolution Garden 108 Education (Civic) by Books etc. 18 Education Education 175 Education Education 18 Education Educat		3 4	,, ,, Planning 96
Excavation, cost of Drain		19,27	Education 27
## Constructive Finance		108	
Constructive Finance	Excavation, cost of Drain	55	Education (Civic) by Books etc. 168
## 15			Constructive Finance 175
## Family Types, How Developed F. Family Types, How Developed Financial Difficulties, Public Health 147 Firends of Indore 106,164 Finance Social 172		•	" towards originality 33
Educational Renewal 18 Revolution 52 Revolution 52 Revolution 52 Revolution 52 Revolution 52 Revolution 70 Summary 43 Electric Power, Industrial Town 75,121 Encyclopædia 4,10 Estimates, City Improvements 79 Cleansing rivers 77 New Communications 84 Further explained 112 Drainage 76,78 Revolution 76,78 Revolution 77 Revolution 76,121 Recyclopædia 77 New Communications 84 Further explained 112 Drainage 76,78 Revolution 131,182 Replanation			" in peace 15
## Revolution			,, in War time 15
## Systems constrasted			Educational Renewal 18
			,, Revolution 52
Electric Power, Industrial Town 76,121 Encyclopædia 4,10 Estimates, City Improvements 79 , cleansing rivers			,, systems constrasted 70
Encyclopædia 4,10 Estimates, City Improvements 79			,, summary 43
Estimates, City Improvements			Electric Power, Industrial Town 75,121
"cleansing rivers 77 "New Communications 84 "Further explained 112 "Drainage 76,78 "Gardens 77,122 "Explanation 112 "Gardens and Parks 88 "Houses 131,132 "New Housing in City 91 "Industrial Town 94 "Institutes and Library etc. 90 "Procedure after 102 "Summary of all 99 "Water 76 Estimation versus Examination 65 Eutopia versus Utopia 14,189 Execution of Plans 185 Exhibition 45,201 "buildings 45 "of Town Plans 113 Empire, study of 42 Examination University 65,67,68 Essential of Present Report 192 F. Family Types, How Developed 25 Fable of Bees 11 Factories, working hours in 186 Florence, as Silk Town 89 Flushing Tanks 57 Finends of Indore 106,164 Finance Social 172			Encyclopædia 4,10
New Communications 84			Estimates, City Improvements 79
## Further explained 112 ## Drainage 76,78 ## Drainage 76,78 ## Further explained 77,122 ## Explanation 112 ## Gardens and Parks 88 ## Houses 131,132 ## New Housing in City 91 ## Industrial Town 94 ## Institutes and Library etc. 90 ## Procedure after 102 ## Water 76 ## Estimation versus Examination 65 ## Eutopia versus Utopia 14,189 ## Execution of Plans 185 ## Exhibition 45,201 ## buildings 45 ## of Town Plans 113 ## Empire, study of 42 ## Examination University 65,67,68 ## Essential of Present Report 192 ## F. ## Family Types, How Developed Famine 175 ## Factories, working hours in 186 ## Faculties in modern Education 46 ## Faculties in modern Education 46 ## Financial Difficulties, Public Health 147 ## Friends of Indore 106,164 ## Friends of Indore 106,164 ## Friends of Indore 106,164 ## Finance Social 172			" cleansing rivers 77
## Drainage 76,78 ## Gardens 77,122 ## Explanation 112 ## Gardens and Parks 88 ## Houses 131,132 ## New Housing in City 91 ## Industrial Town 94 ## Institutes and Library etc. 90 ## Procedure after 102 ## Water 76 ## Estimation versus Examination 65 ## Eutopia versus Utopia 14,189 ## Execution of Plans 185 ## Examination University 65,67,68 ## Exa			,, New Communications 84
## Special Content of Parks Parks			,, Further explained 112
## Explanation 112 ## Gardens and Parks 88 ## Houses 131,132 ## Houses 102 ## Houses 102 ## House 102 ## House 102 ## House 14,189 ## Execution of Plans 135 ## Explanation Violet 135 ## Explanation Library etc. 90 ## Procedure after 102 ## Water 104,189 ## Explanation Library etc. 90 ## Procedure after 102 ## Buildings 135 ## Explanation Library etc. 90 ## Procedure after 102 ## Explanation Library etc. 90 ## Procedure after 102 ## Buildings 135 ## Explanation University 65,67,68 ## Explanation University			" Drainage 76,78
## Gardens and Parks			" " " Gardens 77,122
## Houses 131,132 ## Houses 131,132 ## New Housing in City			" Explanation 112
## New Housing in City			" Gardens and Parks 88
## Industrial Town 94 ## Institutes and Library etc. 90 ## Procedure after 102 ## Summary of all 99 ## Water 76 ## Estimation versus Examination 65 ## Eutopia versus Utopia 14,189 ## Execution of Plans 185 ## Exhibition 45,201 ## Buildings 45 ## Town Plans 113 ## Empire, study of 42 ## Examination University 65,67,68 ## Essential of Present Report 192 ## Family Types, How Developed			" Houses 131,132
## Institutes and Library etc. 90 ## Procedure after 102 ## Summary of all 99 ## Water 76 ## Estimation versus Examination 65 ## Eutopia versus Utopia 14,189 ## Execution of Plans 185 ## Exhibition 45,201 ## puildings 45 ## of Town Plans 113 ## Empire, study of 42 ## Examination University 65,67,68 ## Examination University			" New Housing in City 91
## Procedure after 102 ## Summary of all 99 ## Water 76 ## Estimation versus Examination 65 ## Eutopia versus Utopia 14,189 ## Execution of Plans 185 ## Exhibition 45,201 ## Buildings 45 ## of Town Plans 113 ## Empire, study of 42 ## Examination University 65,67,68 ## Examination Universit			" Industrial Town 94
## Summary of all 99 ## Water 76 ## Estimation versus Examination 65 ## Eutopia versus Utopia 14,189 ## Execution of Plans 185 ## Exhibition 45,201 ## Buildings 45 ## of Town Plans 113 ## Empire, study of 42 ## Examination University 65,67,68 ## Examination University			,, Institutes and Library etc. 90
## Water 76 Estimation versus Examination 65 Eutopia versus Utopia 14,189 Execution of Plans 185 Exhibition 45,201 ,, buildings 45 ,, of Town Plans 113 Empire, study of 42 Examination University 65,67,68 Essential of Present Report 192 F. Family Types, How Developed 25 Family Types, How Developed 25 Factories, working hours in 186 Florence, as Silk Town 89 Flushing Tanks 66 Florence, as Silk Town 89 Flushing Tanks 57 ,, Drams 184 Fort City and Six Squares 7,8			" Procedure after … 102
Estimation versus Examination 65 Eutopia versus Utopia 14,189 Execution of Plans 185 Exhibition 45,201 ,, buildings 45 ,, of Town Plans 113 Empire, study of 42 Examination University 65,67,68 Essential of Present Report 192 F. Family Types, How Developed 25 Fable of Bees 11 Factories, working hours in 186 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 , Drams 184 Fort City and Six Squares 7,8		•	
Eutopia versus Utopia 14,189 Execution of Plans 185 Exhibition 45,201 ,, buildings 45 ,, of Town Plans 113 Empire, study of 42 Examination University 65,67,68 Essential of Present Report 192 F. Family Types, How Developed 25 Fable of Bees 11 Famine 17 Factories, working hours in 186 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 Inancial Difficulties, Public Health 147 Friends of Indore 106,164 Finance Social 172		j	
Execution of Plans 185 Exhibition 45,201 ,, buildings 45 ,, of Town Plans 113 Empire, study of 42 Examination University 65,67,68 Essential of Present Report 192 F. Family Types, How Developed 25 Fable of Bees 11 Factories, working hours in 186 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 , Drams 184 Fort City and Six Squares 7,8			
Exhibition			l <u> </u>
## Buildings 45 ## and of Town Plans 113 ## Empire, study of 42 ## Examination University 65,67,68 ## Essential of Present Report 192 Family Types, How Developed 25 Fable of Bees 11 Factories, working hours in 186 ## Faculties in modern Education 46 ## Florence, as Silk Town 89 ## Financial Difficulties, Public Health 147 ## Friends of Indore 106,164 ## Finance Social 172 ## Finance Social 172		ļ	
## Family Types, How Developed 25 Fable of Bees			, · · · ·
Empire, study of		1	
Examination University 65,67,68 Essential of Present Report 192 F. Family Types, How Developed 25 Fable of Bees 11 Famine 17 Factories, working hours in 186 ,, House 66 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 Friends of Indore 106,164 , Drams 184 Finance Social 172 Fort City and Six Squares 7,8		1	
F. Family Types, How Developed 25 Fable of Bees 11 Famine 17 Factories, working hours in 186 ,, House 66 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 Friends of Indore 106,164 ,, Drams 184 Finance Social 172 Fort City and Six Squares 7,8		ĺ	
F. Family Types, How Developed Famine 17 Factories, working hours in 186 Florence, as Silk Town 89 Flushing Tanks 57 Fushing Tanks 57 Friends of Indore 106,164 Finance Social 172 Fort City and Six Squares 7,8			•
Family Types, How Developed Famine]	Essential of Present Report 192
Famine 17 Factories, working hours in 186 ,, House 66 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 Friends of Indore 106,164 ,, Drams 184 Finance Social 172 Fort City and Six Squares 7,8	. F.		F.
Famine 17 Factories, working hours in 186 ,, House 66 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 Friends of Indore 106,164 ,, Drams 184 Finance Social 172 Fort City and Six Squares 7,8	Family Types. How Developed	25	Fable of Bees 11
,, House 66 Faculties in modern Education 46 Florence, as Silk Town 89 Flushing Tanks 57 Drams 184 Fort City and Six Squares 7,8 Faculties in modern Education 46 Financial Difficulties, Public Health 147 Friends of Indore 106,164 Finance Social 172	_	•	
Florence, as Silk Town 89 Flushing Tanks 57 Drams 184 Finance Social 172 Fort City and Six Squares 7,8	TT		· · · · · · · · · · · · · · · · · · ·
Flushing Tanks 57 , Drams 184 Fort City and Six Squares 7,8 Friends of Indore 106,164 Finance Social 172	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1	
, Drams 184 Finance Social 172 Fort City and Six Squares 7,8			
Fort City and Six Squares 7,8	-	· · · }	
		.	
	+		

	VOLUME I.	•	Pages.	VOLUME II.	Pages.
Forestry	•••		90,114		
Fort.			- 1		
Fuel trees	•••	• • •	90		
	G.		•	G.	
Gadikhana	• •		5	Garden Cities and their critic	es 134
Ganesh Ashar	ma		. 2	Generosities, Present etc.	172
Ganesh Templ			3	37 7 7	61, 172
Garbage remov		•••	180	Gymnasium	34
Garden design		· · · ·	86	G	
" Evolutio		•••	108		
" Fruit	-	•••	104		
" Geograp		•••	105		
" Herb	•••	•••	110	·	
" Hospital	Nulla	•••	133		
" Japanee		•••	115		
Kow	•••	•••	106		
., Manager		• • • •	75		
,, on Plan		•••	75	,	
" Palace	444	***	115		
of Dhago	s of life		107		
Diagram			102		
Pools			105		
" Goored		,,,	111		
,, ,	Economic A				
	Social Asp	_	142		
Schome	Indore as w		127		
	French Wo				
	Re-housing	N. KITE	172		
Villago					
DI	anning in D	etail	39		
" Type Bo	-	COULT	106		
Times on	d Applicatio	n	109	•	
Wild	a rippiicano	11	111	.	
Gautampura	*** ***	4	5	:	
Gnan Mandir,			2		
Goalas	ouni indoit)	98		
Gwaltoli		***	177		
Gopal Mandir	•••	•••	105		
Gardeners Ho		•••	112		
Model	-	•••			
• "	,		101 74 -75		
"Sweepe	•	***			
Girls' High S			122		
" Plan Ho	ouses	***	151		
•	н.	•	`	Н.	
Hansdasji Ten	nple and Pa	ırk	91	H's Three v. Three R's	27, 165
			- ,		4

VOLUME I.	Pages.	VOLUME II.	Pages.
Health Problems of Cities	16 in 20	Health Primary Conditions	130, 135
Health Significance of Town Plant Well heing Essential		Health, See Public Health	ence 9
,, and Well-being, Essential	169	Higher Education, its conseque	
High School, City		" Studies	55
Holkar College	124 156	Hindi Library, New	115
Homes Legal Protection of		History Museum	24
Horticultural Department	90	" Teaching	30
Hospital, Proposed	143	Hostel System University	61 112
Hotels	176	Housing	
House Clearing	154,84	**	131, 196
" Construction	84	,,	115
Housing Cotton Workers	67, 71	Horse-keeping	145
" Difficulties and Solutions	,	Humanistic and Scientific Stud	dies 56
" Development	89, 70		
" Famine and Plague …	66		
" Industrial Town	38		
" Compensation	84		
Housing, Planning of	81		
" Progress and Difficulties			
" Juni Indore	138		
" Societies and Organisation	on 84		
", ", Recent Example	s of 85		
Hygiene, Personal	48		
1.	,	1.	
I. Imli Bazar Road	171		115
	17 i 82	Ice Factory	
Imli Bazar Road Indebtedness Abatements	82		
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of	82 63	Ice Factory	ì
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of ,, Rivers as Sacred	82 63 118	Ice Factory Improvement of People with environment Improvement Execution .	119
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of ,, Rivers as Sacred ,, Village Panchayats	82 63 118 84	Ice Factory Improvement of People with environment Improvement Execution	119 102, 191
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of ,, Rivers as Sacred ,, Village Panchayats Indore City Plan (1912) and alter	82 63 118 84	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems	119 102, 191 42
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of ,, Rivers as Sacred ,, Village Panchayats Indore City Plan (1912) and alternative Development Pagings of	82 63 118 84 er- 137, 160	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of	119 102, 191 42 7
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of ,, Rivers as Sacred ,, Village Panchayats Indore City Plan (1912) and altonative ,, Development Review of Drainage Plan	82 63 118 84 er- 137, 160 9	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie	119 102, 191 42 7
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of ,, Rivers as Sacred ,, Village Panchayats Indore City Plan (1912) and altonative ,, Development Review of ,, Drainage Plan East of Pailway	82 63 118 84 21- 137, 160 9 52	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie , , Development	119 102, 191 42 7 . 42 es 189, 199
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of , Rivers as Sacred ,, Village Panchayats Indore City Plan (1912) and alternative ,, Development Review of ,, Drainage Plan ,, East of Railway	82 63 118 84 137, 160 9 52 174	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie ,, ,, Development Industrial Efficiency	119 102, 191 42 7 . 42 es 189, 199 . 74, 75
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of , Rivers as Sacred , Village Panchayats Indore City Plan (1912) and alto native , Development Review of , Drainage Plan , East of Railway , History of	82 63 118 84 61- 137, 160 9 52 174	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie , , , Development Industrial Efficiency Industries Art and Minor	119 102, 191 42 7 . 42 es 189, 199 . 74, 75
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of , Rivers as Sacred , Village Panchayats Indore City Plan (1912) and alternative , Development Review of , Drainage Plan , East of Railway , History of , Military	82 63 118 84 137, 160 9 52 174 1	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie ,, ,, Development Industrial Efficiency Industries Art and Minor , Drainage, Gardens a	119 102, 191 42 7 42 es 189, 199 74, 75 136
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of , Rivers as Sacred , Village Panchayats Indore City Plan (1912) and alternative , Development Review of , Drainage Plan , East of Railway , History of , Military , Modern	82 63 118 84 67- 137, 160 9 52 174 1 9	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie ,, ,, Development Industrial Efficiency Industrial Efficiency Industries Art and Minor , Drainage, Gardens a Industrial Town Planning	119 102, 191 42 7 42 es 189, 199 74, 75 136 124 es 122
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of " Rivers as Sacred " Village Panchayats Indore City Plan (1912) and alternative " Development Review of " Drainage Plan " East of Railway " History of " Military " Modern " Origin of " Recent	82 63 118 84 137, 160 9 52 174 1 9	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie , , , Development Industrial Efficiency Industries Art and Minor , Drainage, Gardens at Industrial Town Planning , Defects Drainage	119 102, 191 42 7 42 es 189, 199 74, 75 136 124 as 122
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of Rivers as Sacred Village Panchayats Indore City Plan (1912) and alto native Development Review of East of Railway Military	82 63 118 84 137, 160 9 52 174 1 9 5	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie ,, ,, Development Industrial Efficiency Industrial Efficiency Industries Art and Minor , Drainage, Gardens a Industrial Town Planning , Defects , Drainage , Future Extension	119 102, 191 42 7 42 es 189, 199 74, 75 136 124 as 122 120 121 128 129
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of "Rivers as Sacred "Village Panchayats Indore City Plan (1912) and alternative "Development Review of "Drainage Plan "East of Railway "Military "Modern "Recent "Review of Developments	82 63 118 84 137, 160 9 52 174 1 9 5	Ice Factory Improvement of People with environment Improvement Execution Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie ,, ,, Development Industrial Efficiency Industrial Efficiency Industrial Efficiency Industrial Town Planning , Drainage, Gardens a Industrial Town Planning , Tuture Extension , General layout	119 102, 191 42 7 42 es 189, 199 74, 75 136 124 es 122 120 121 128 129 125
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of "Rivers as Sacred "Village Panchayats Indore City Plan (1912) and alternative "Development Review of "Drainage Plan "East of Railway "Military "Modern "Nodern "Recent "Review of Developments Industrial Area, Planning of	82 63 118 84 er- 137, 160 9 52 174 1 9 5 1 12 9	Ice Factory	119 102, 191 42 7 42 es 189, 199 74, 75 136 124 es 122 120 121 128 129 129, 130
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of "Rivers as Sacred "Village Panchayats Indore City Plan (1912) and alternative "Development Review of "Drainage Plan "East of Railway "Military "Modern "Origin of "Review of Developments Industrial Area, Planning of "Housing "Housing	82 63 118 84 67- 137, 160 9 52 174 1 9 5 1 12 9	Ice Factory	119 102, 191 42 7 42 es 189, 199 74, 75 136 124 es 120 121 128 129 125 129, 130 128
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of , Rivers as Sacred , Village Panchayats Indore City Plan (1912) and alto native , Development Review of , Drainage Plan , East of Railway , Military , Military , Modern , Recent , Review of Developments. Industrial Area, Planning of , Housing , Extension of	82 63 118 84 87 137, 160 9 52 174 1 9 5 1 12 9 32, 36 38, 39	Ice Factory	119 102, 191 42 7 42 es 189, 199 74, 75 136 124 as 122 120 121 128 129 129, 130 128 on 149
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of , Rivers as Sacred , Village Panchayats Indore City Plan (1912) and alto native , Development Review of , Drainage Plan , East of Railway , Military , Modern , Origin of , Recent , Review of Developments. Industrial Area, Planning of , Housing , Summary	82 63 118 84 137, 160 9 52 174 1 9 5 1 12 9 32, 36 38, 39 40	Ice Factory	119 102, 191 42 7 42 7 42 7 136 124 129 129 129, 130 128 129, 130 128 149 36
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of "Rivers as Sacred "Village Panchayats Indore City Plan (1912) and alternative "Development Review of "Drainage Plan "East of Railway "Military "Modern "Origin of "Review of Developments. Industrial Area, Planning of "Extension of "Summary "Summary "Compounds, Planning o	82 63 118 84 137, 160 9 52 174 1 9 5 1 12 9 32, 36 38, 39 40 6 33, 35	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie , Development Industrial Efficiency Industrial Efficiency Industrial Town Planning , Defects , Drainage, Gardens a Industrial Town Planning , Tuture Extension , General layout , Housing , Water Supplies Infant Mortality and Preventic Inlook, Need of beside Outlook Institutes, Scientific	119 102, 191 42 7 42 7 42 7 136 124 129 120 121 128 129, 130 128 129, 130 128 149 149 36 44, 195
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of "Rivers as Sacred "Village Panchayats Indore City Plan (1912) and alternative "Development Review of "Drainage Plan "East of Railway "Military "Modern "Origin of "Review of Developments Industrial Area, Planning of "Extension of "Summary "Compounds, Planning o "Location and Planning	82 63 118 84 137, 160 9 52 174 1 9 5 1 12 9 32, 36 38, 39 40 5 33, 85	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie , Development Industrial Efficiency Industries Art and Minor , Drainage, Gardens at Industrial Town Planning , Defects , Drainage , Future Extension , General layout , Housing , Water Supplies Infant Mortality and Prevention Inlook, Need of beside Outlood Institutes, Scientific Iyengar M. O. T. Mosquito Sur	119 102, 191 42 7 42 7 42 7 136 124 129 120 121 128 129, 130 128 129, 130 128 149 149 36 44, 195
Imli Bazar Road Indebtedness Abatements Indian Cities, Resources of , Rivers as Sacred , Village Panchayats Indore City Plan (1912) and alto native , Development Review of , Drainage Plan , East of Railway , Military , Modern , Origin of , Recent , Review of Developments. Industrial Area, Planning of , Housing , Summary , Compounds, Planning o	82 63 118 84 137, 160 9 52 174 1 9 5 1 12 9 32, 36 38, 39 40 6 33, 35	Ice Factory Improvement of People with environment Improvement Execution India, Half of Indian Problems Indore State Study of , City Practical Possibilitie , Development Industrial Efficiency Industrial Efficiency Industrial Town Planning , Defects , Drainage, Gardens a Industrial Town Planning , Tuture Extension , General layout , Housing , Water Supplies Infant Mortality and Preventic Inlook, Need of beside Outlook Institutes, Scientific	119 102, 191 42 7 42 7 42 7 136 124 120 121 128 129 129, 130 128 129, 130 128 149 149 36 44, 195

-	-		VOLUME II.
Volu	me I.	Pages.	PAGES.
		I AGES,	
Irish Agricultural O	roanisation	·	
Society		. 85	
Irrigation Tanks		42	
Iron Trade		182	
	•••	202	
Isolation, City	***	204	
1		-	J.
	J.		J.
T. I Mainhhamhaad		169	Jevons, Prof. Stanley, on Industrial
Jail Neighbourhood	•••	115	Town App.
Japanese Garden	•••	173	TOWNPP-
Jain Suburb	*** ***	,	
Jevons, Prof. Stanley	7	36	
Juna Pitha	•••	168	
Juna Kasera Bakhal	•••	168	
Juni Indore	•••	1, 135	
" " Drainage	Scheme	140	
" " Old Centi	re of Indore	1, 2	
", "Historic l	Decay	135	
" " Housing	required	138	
New Sub	_	138	
Renewal		139	
,, ,, Itemewar	01		
1	ζ.	•	K.
Σ	.		N.
Kadam Tree		91	Key Industries 123

Kadabin Lines	•••	91	,
Kaiser Bagh Park	*** ***	116	" "Know your City"
Karma in the City	. •••	7	niovement 165
Kasera Bakhal, Jun	a	168	
Key Garden		106	•
Koshti Bakhal	•••	168	
Kunjra Bakhal	***	168	•
Krishnapura Bridge			
• .			•••
j	L.		L.
		•	
Lalbagh Boulevard		121	Labour, Conditions of in Factories 136
Lal Kothi Road W.		174	Lanchester H. V. Suggested Rotation 116
Lanchester, H. V.	137,	160, 161	Library, Central 19
	ty Survey		
		67	Life 164, 168, 184
Latrines		55, 56 75	
Law of Moses v. Ma		47	· · · · · · · · · · · · · · · · · · ·
Le Play		. 25	<u>-</u>
Legistlature for hon		. 156	// Chandles and 37'31 750
Lister		. 130 . 79	T. J.
TWOOL ***	***	. /8	Indone
	•		
			,, ,, New Zealand 157
		•	, Valuation 160
			

Volum	E I.			Volume II.
· ·	•		PAGES.	Pages
M.	•			M.
Malharganj			90	Maheshwar App. XX.
" Square	•••	•••	35	Malaria 153
Main City, Isolation of		•••	202	Mann H. H App.
Management Efficience		fora	36	Milk Supply, Importance of 152
Manchester as Cotton	• -	LALI C	29	Military Removal 116
Manik Bagh		•••	116	Military of Health and Wealth 158
71 1	•••	•••	167	
- ·	•••	•••	73	Mohallas, Cleansing and improvements of 171
3.5 133	•••	•••	75 65	ments of 171 Money Difficultires, University 60
አ / ር	•••	• • •	104	
		•••		Mortality by Diseases, Table I 157
Mechanocentric to Bio	centric		19	,, Abatement for Indore 158
Military Barracks	***	•••	201	" Summary 160
,, Quarters	•••	•••	66	Municipal Buildings Suggested
", Removal sugg		• • •	11, 66	Removal 198
Mill Area, Extension			38	Municipal Government, Dangers of 104
Modern Conveniences	, cost o	f	62	,, Upkeep, Economies 129
Mohallas	***	• • •	170	Museum 19, 20
Montessori, Madame	•••		20	", Agricultural 25
Morsali Neighbourhoo	od.	•••	166	" Health 25
Mulberry Planting	•••	• • •	29, 30	" History 24
Municipal Buildings	•••	• • •	170	`,, Technical 26
				" in progress 21
				" Regional and Educational 23
				Montessori 27, 52
•				Mosquito Survey App. I
·			:	N.
Nagarchi Bakhal			167	
Naya Indore (See Nev	 Twd	 .4m: a I		Nascent University 53
Neurasthenia			•	Needs of India, Practical 7
New Industrial Town	•-•	••••	21	
***	***	•••	28	•
Nimes Normal School	•••	• • •	65	
	•••	•••	171	
North East Square	•••	•••	167	_
, O .	•			О.
Occupations and Dise	ases	2.5	15	Oriental Civilisations Outlines of 43
Odepura square	uscs	•••	164	Outlook Historians 33
Open Air School	•••	•••	144	M 60 04
	•			of the Humanities 22
•				" G-1 1 00
			,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				, Past, Present, Future 37
P.	,			P.
Panchayats.				Paliotechnic and Neotechnic 18
Pail Depots			55	Pallas Athenæ 15
zam zepom im	***	***	. J	A WALLED AND VALUE OF

Volume I.		Volume II,
<i>० ३</i> च च च च च च च च च च च च च च च च च च	PAGES.	Pagrs.
Palace Avenue	95	Peace, Recostructive 189
"Gardens • ···	94	Plague, Economic Estimate of 141
" Old and New	6	" Vigilance Corps 144
Dark	89	" Improving conditions of 172
" Unified Scheme	160	Planning 74,186
Palasia Nulla Park	89	" "Standard" 97
Paradise, Various ways to	127	and the War 188
Park Farm Chhatri Bagh	98	Political and Social Differences 36
Schame		Procedure and Administration, 191
Clara and	106	Processions 41, App. X
Park-way System	96,170	1
5.T (7	150	Harlth Requirements of 7
Doctur	70	Canalysiana 162 170 101 107
″n / .:	79	, , , Conclusions 163,170,191,197 , , Measures and Economic
•	103	Value 141
Pergola		Losses of Indore 148
Pinjrapol		" 150
Plague, Its Civic Lesson	19,66	1 /2 /2
" Camps possibilities	65	" " Practical Activities 162
" Precautions in Cotton I		
Plans Description of	XV	
	90	
Play House, Girl's	151	
Pleasure Garden	102	
Poore, Dr. Vivian	79	
Post Office site	175	
Prayag Mela	120	
Public Health,	14,179	
"General View	120	
	* * * * * * * * * * * * * * * * * * * *	
R.		R.
Railway Crossing	89	R's Three and Three H's 27
" Sidings …	36	Railway Sidings 121
Station Gundon	199	Reconstruction Movement 74
Station Naighbour		and Universities 12,13,18
W Entropes	197	Re-education 167,169
System	13	D. D. 10 11 100
Rampat of Indore	3	
Ranipura	133	Regional Survey association 169 Report Essentials 192
-	100	1 · · · - 1 · · · · · · · · · · · · · ·
Rao	83	Research, Estimation v. Examination 65
Reconstruction Policy	_	
Regional Industries, Rural		
"Rurvey …	24	
Renewal of City	23	
" of Rivers …	119	
Reservoirs	42,43,44	
" Improvements of	46	The second secon
" Martandpala	45	in the second se
Residency Drainage, Treats	nentof 53,186	
		i

Volume I.	VOLUME II.
Pages.	Pages.
Residue Disposal 181	
Resources of Indian Cities 63	
Rivers, Drainage etc 3,186,188	
Rivers, Diversion of 116	
Rivers as Sacred 118,119	
River Banks 142,188	
" Utilisation of 100	
River cleansing 182	
" System Indore : 117,19	
" Union, Indore 118	
Rural Industries 24	
Purification 190 182 188	
,, I drineation 120,102,100	
S.	S.
Sacred Park Chhatri Bagh 92,99	Sacred Cities 108
Sanitary Problem, Summary of 80	Sarasvati 15
Sanitation Development 78	Schools and Museum etc 22
,, and Planning, Contrasts in 72	Science, Outlook of 32
,, in India, Dr. Turner's	Scientific Institutes 44
Books 180,191	Servants housing for 116
Sarais and Hotels 176,199	Servants of India 13
" Bohra 199	Social Finance, its Civic
Scientific Buildings proposed 121	Bearings 173
Schools Aid of 31,150,180	State Management 196
" Building and House clearing 154	State as Housing Banker 112
,, Farm 87	Studies and Research 64
Gordona 140	I
,, Girls' High 122	,, Allocation etc 191
" Silk 29,30	Summary, Concluding 203
" Workshop 149	Summer Meetings 17,22,53
" Needed Replanning 144	Survey of Indore 168,191
" Planning Criticism of 143,144	Sweepers Housing for 112
" Horticulture and Factory 114	- 0
Seepage Dam 43,47	
Separation of Dwellings 74	
Septic Tanks 57,79	
Sewage on Land 78	
Shade House 103	
Shakkar Bazar 165	
Sia Ganj 129	
Silk Garden 113	4
Silk, Its Civilisation Value 29	i
" Possibilities in Indore … 29	1
and Capitation 91	i i
Sia Squares	
	İ
	•
Management of Industry 20	
" Management of Industry 36	
	1 · · · · · · · · · · · · · · · · · · ·

Pages Pages Pages Pages	Volum	ie I. /	-	Volume III	
Station Place			PAGES.		Pages.
Station Place	Sports Dauly	10	106		•
Suburbs					
Northern	The state of the s		•		
Planning of 71 71 71 71 72 73 74 75 76 76 76 76 76 76 76	- Northern				
## Methods			-		:
Methods	Co				
Suburbs Planning Distinctive Type	<u> </u>		72	1	
Northern Tukoganj					
Western	Northam Tr				
Surface Drains	,				
T. Taj Mahal	,		•		
T. Taj Mahal					
T.	TI.,+	÷		;	
Taj Mahal	<i>"</i>			<u> </u>	
Technical School	T	•		T.	
Technical School	Tai Mahal		87	Technical Museum	26
Test-tube Experiments	•				
Textile Industries		its		· ·	34
Town 27,29 Topkhana and Neighbourhood 88 Town Plan, Health Significance 20 Town Planning, its Essentials 15,16 Town Planning, Cost of 109 Town Plan			26	•	34
Topkhana and Neighbourhood 88 Town Plan, Health Significance 20 Town Planning, its Essentials 15,16 """>"Health Significance 20 """>"">"Health Significance 20 """>"">" Health Significance 20 """>"">" before Drainage 64 """>"">" Scheme Criticism 159 """>" Alternative 159 """>Treatment 161 Town Dangers of 136,160 Tuberculosis 136,160 Tuberculosis 175 Tukoganj Crossing 198 """>Tukoganj Park 89 """>""">U. U. Ukhaji's Garden 93 Urinals 25 Utopia and Eutopia 19, 27 Utopia and Eutopia 19, 27 """>""">" Finance 71 """>""">" Faculties, Insufficiency 46, 69 """>""">""" General Problem for 59 """>""" General Problem for 59 """">""" Germanic 55 """">""" Germanic 46, 69 <	Town	*** ***	27,29		70
Town Plan, Health Significance 20 Town Planning, its Essentials 15,16 """>""">""">""" Health Significance 20 """>""">""">""">""" before Drainage 64 """">""">""">""" Old """" 91 """">""">""" Scheme Criticism 159 """">""">""">Alternative 161 Town Dangers of """>Tuberculosis """ 136,160 Tukoganj Crossing """ 198 Tukoganj Park """ 89 """>""">"Subburb """ 175 Tulsi Plant """ Trenching Grounds """ 175 U. Ukhaji's Garden """ 198 Urinals """ 198 Utopia and Eutopia """ 199 """>Utopia and Eutopia """ 199 """ Colleges in Indore """ 53 """ Economic Planning of 62, 201 """ Estimates of """ 72 """ Faculties, Insufficiency 46, 69 """ General Problem for 59 """ Germanic """ 56	Topkhana and Neigl	abourhood			146
"" "" Health Significance 20 "" "Movements in England 106 "" "" before Drainage 64 "" "Office and Managment 106 "" "" Scheme Criticism 159 "" "Office and Managment 17 "" "" Scheme Criticism 159 "" "Office and Managment 106 "" "" Alternative Treatment "" 161 "" "Ille-wall Invention "" 133 Town Dangers of "" 18,20,93 "" Aspect of Report "" 175 Tukoganj Crossing "" 198 "" Aspect of Report "" 175 Tukoganj Park "" "" 89 "" Subburb "" 175 Tulsi Plant "" "" Trenching Grounds "" 75 "" Colleges in Indore "" 53 Urinals "" "" Colleges in Indore "" 53 Utopia and Eutopia "" 19, 27 Utopia and Eutopia "" 19, 27 "" Faculties, Insufficiency 46, 69 "" General Problem for 59 "" Germanic "" 56			20	Town Districts	126
106	Town Planning, its 1	Essentials	15,16	Town planning, Cost of	109
""" Old """ """ 91 Transition in Education "" 17 """ """>Scheme Criticism 159 Tile-wall Invention "" 133 """ Alternative "" Tuberculosis "" 151 Town Dangers of """ """>136,160 Tuberculosis "" 26,213 Tuberculosis "" """ Aspect of Report "" 175 Botanic Gardens "" """ 3 Ukhaji's Garden "" """ 93 Urinals "" """ Colleges in Indore "" 53 Utopia and Eutopia "" 19, 27 """ Finance "" """ 72 "" Faculties, Insufficiency 46, 69 """ """ General Problem for 59 """ Germanic "" 59	,, ,, Heal	th Significan	ce 20	", " Movements in Engla	nd 106
""" "" Alternative Tile-wall Invention 133 """ "" Alternative Tuberculosis 151 Town Dangers of """ 136,160 Tuberculosis """ 26,213 Tuberculosis """ 26,213 Tuberculosis """ 26,213 Tuberculosis """ 175 Botanic Gardens """ 3 Tukoganj Crossing """ 198 Tukoganj Park """ 89 """ Subburb """ 175 Tulsi Plant """ 175 Tunder-Bridge """ 28 Urinals """ Colleges in Indore 53 Urinals """ 55 Utopia and Eutopia """ 19, 27 """ Estimates of """ 72 """ Faculties, Insufficiency 46, 69 """ General Problem for 59 """ General Problem for 59 """ General Problem for 59 """ Germanic """ 5, 6	,, ,, befo	re Drainage	64	" " Office and Managme	nt 106
Treatment	27 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•••		Transition in Education	17
Treatment	"	and the second s	159		
Town Dangers of		rnative			
Tuberculosis	•	•••			
Tukoganj Crossing 198 Tukoganj Park 89 " Subburb 175 Tulsi Plant U. U. U. Ukhaji's Garden 93 University Extension 54 Urinals 71 Utopia and Eutopia 72 " Economic Planning of 62, 201 <td></td> <td></td> <td></td> <td></td> <td></td>					
Tukoganj Park		1		Botanic Gardens	3
Tulsi Plant		*** * ***			
Tulsi Plant	A 70'11'	***			
U. Ukhaji's Garden 93 University Extension 54 University Extension 55 Utinals 55 Utopia and Eutopia 19, 27 Utopia and Eutopia	• •	•••	1/3		•
U. Ukhaji's Garden		***	75		. /
Ukhaji's Garden 93 Under-Bridge 88 Urinals Utopia and Eutopia 19, 27 University Extension 53 Finance 71 Economic Planning of 62, 201 72 Faculties, Insufficiency 46, 69 , General Problem for 59 Germanic 5, 6	Trenching Oronnas	***	7.5		· · · · · · · · · · · · · · · · · · ·
Ukhaji's Garden 93 Under-Bridge 88 Urinals Utopia and Eutopia 19, 27 University Extension Finance Feconomic Planning of 62, 201 Estimates of Faculties, Insufficiency 46, 69 of France General Problem for 59 Germanic	Ţ,	J.		f r	,
Under-Bridge	TILL 112 Combas	•		J	••
Urinals	-	***,		University Extension	54
Utopia and Eutopia 19, 27 Finance 71 Economic Planning of 62, 201 Estimates of 72 Faculties, Insufficiency 46, 69 of France 40 General Problem for 59 Germanic 5, 6	 -	*** ***		_	53
Faculties, Insufficiency 46, 69 of France 40 General Problem for 59 Germanic 5, 6		***,		Finance	71
, Faculties, Insufficiency 46, 69 , of France 40 , General Problem for 59 , Germanic 5, 6	orobia and Entobia		19, 27	" Economic Planning of	
,, of France 40 ,, General Problem for 59 ,, Germanic 5, 6					•
General Problem for 59, Germanic 5,6					
" Germanic 5, 6	•		•	" of France	
					•
,, in India 1, 3, 7				in India	
	·.		griphy and the statement of		, ,

VOLUME I. PAGES.	Volume II. Pages.
·	Headship 57
	,, — — — — — — — — — — — — — — — — — —
	" Hispotic comparison… 13 " Humanstic and Scientific 56
	,,
	, ,,,
	" Medical and Technical 52, 55 " Militant 14, 18, 176
	,,,
) T
	TD
	to the second
	"
	,, Possible Improvement of 7 Possibilities in Indore 73
	" Post Germanic10,14,18 " and Reconstruction 11,13
·	
	" Studios 46
	Summery and Policy 6 51
	concluding Theres 70
	in the Woot
	ou Moral vacum 50
	Ulm 136
	Unrest in India 2, 37
	Utopia and Eutopia 14, 189
	•
V.	V .
Vacant Spaces, Treatment of 94	Vacation Meeting17, 22, 53
Vegetable Garden 101	Valuation for Clearance, Defects in 109
" Markets 94, 163	Villages App.
Volunteers 180	Vasyakarma 186
100	
w.	\mathbf{W} .
Water Carriers, Brahmin 165	War, City Planning, and the 188
777	Walt, Quames 66
Lorola Maintenant (10	Welfare Management 122, 136, 172
Resources	Western Civilization 16, 42
Supply	Women in Education 44
Inopostions 41	Women's share in Gardens 128
Final Notes	" Health Organisation Society 25
Summore '	Working Hours in Factories 136
***	Recult on Housing 120
,	,, result of Housing 139
Wheat and Rice, its Social Contrast 24 Workman's Dwellings	
Workmen's Dwellings 89 Women's Education of 123	'
Women as Gardeners 123, 128	

VOLUME I.		Pages.	VOLUME II. PAGES.
Υ.			γ.
Yogis' Camp		98	Yellow Fever and Musquitos 154
Ypres, as Woollen Town	•••	28	
Z .			Z .
Zamindars of Indore	•••	2, 3	Zoological Park
Zenana Park, Bohras	• • •	93	•
Zoological Park	•••.	99, 173	
" Completion	•••	102	
" Development	•••	100	
" " Extension	•••	101	·
" Introductory	• • •	99	