PUBLIC WORKS (INDIA).

RETURN to an Order of the Honourable The House of Commons, dated 15 April 1853;—for,

A RETURN "of all Sums spent on Public Works (not of a Military kind) in India, since April 1834, keeping distinct the Amounts spent on the REPAIRS of Old, and on the Construction of New Works, together with the Objects of the Works newly Constructed; and stating, when remunerative, the Amounts received from such Works."

4 . 1

East India House, }

JAMES C. MELVILL

(Mr. Bright.)

Ordered, by The House of Commons, to be Printed, 20 August 1853.

D.2.M5 A853 IS477

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MEMORANDUM.

Para. 1. THE Papers Nos. 1, 2, and 3 of the following list of contents will explain the impossibility of a Return being prepared for the exact period embraced, or in the precise form prescribed in the Order of the Honourable the House of Commons.

2. In the printed Return to the Order of the Honourable the House of Commons, dated 4th March 1850, No. 622 of 1831, has been given,

FOR BENGAL

The particulars of and total expenditure on Public Works in the Civil Department from season 1839-40 to 1848-9 inclusive.

FOR FORT ST. GEORGE.

A digest of a general Report by the Superintendent of Roads, dated the 9th August 1848, on the Road Department, from its establishment to the 1st May 1848; also information in regard to district roads, with a statement of the charges incurred for the years 1833 to 1847 inclusive.

FOR BOMBAY.

As regards the Presidency of Bombay, it was pointed out that a "Return to Page 166 of the an Order of the Honourable the House of Commons, dated the 20th December Return. 1847, was presented on the 7th February 1848, which Return contained copy of the annual Reports of the Superintendent of Roads and Tanks within the Presidency of Bombay from the first (viz., that for season 1835-36) to the latest received to that time, or to season 1844-45 inclusive." The Reports for season 1845-46 and 1846-47 formed part of the Return No. 622 of 1851.

3. The whole of the further information which can be supplied from the Reports received in continuation of the foregoing is contained in the present Return, and includes, as regards the Presidency of

An analysis of a Report of the Military Board, dated the 8th September 1840, setting forth in a tabular form, and in alphabetical arrangement, all the information which the Government of Bengal could obtain on Public Works under the Military Board's general management at the time that the systematic preparation and printing of that Board's annual Reports was first ordered; also a statement compiled from the Reports of the Bengal Military Board for the official year 1849-50 and 1850-51, in continuation of and embodied with the previous statement for the official years 1839-40 to 1848-49.

FORT ST. GEORGE.

A digest of a further Report by the late Superintendent of Roads, dated the 17th October 1851, being in continuation of that dated 9th August 1848, giving information on the works in progress to the 1st May 1851; also a statement of the more important works executed under the Civil Engineer Department for 1848 and 1849, and of expenditure in the Civil Department of Public Works for the years 1848, 1849, and 1850.

BOMBAY.

Particulars of the formation of the Road and Tank Department in 1836; together with a tabular statement of the principal works executed by that department from its formation to the year 1850-51 inclusive, and a statement of expenditure compiled from the annual Reports of the Superintendent of Roads and Tanks, and of the Bombay Engineers.

RETURNS to an Order of the Honourable the House of Commons, dated the 24th February 1853, for "Copies of the Reports of the several Commissioners on Public Works at Bengal, Madras, and Bombay in the year 1851-52; of the Minutes of the Members of the Government thereon; and of any Orders or Despatches of the Court of Directors relating thereto," were presented to the Honourable the House of Commons on the 26th April 1853, for the Presidencies of Bengal and Fort St. George. The Return for the Presidency of Bombay will be presented on the meeting of Parliament in 1854.

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	•

Note:—The Statements for the Presidency of Bengal for the series of years from 1839-40 to 1850-51 inclusive, and for the Presidency of Bombay, are afranged alphabetically. The preliminary Statement of the Military Board at Bengal, dated the 8th September 1840, and the Statements relating to works executed by the Civil Engineer's Department for the years 1848 and 1849, are preceded by an Index.

(No. 10.)

EXTRACT LETTER from the Officiating Secretary to the Government of *India*, in the Military Department, to the Military Board, dated 14 October 1839.

22. BEFORE closing this notice of the proceedings of your Board in the Department of Public Works, I am directed to inform you that, with the view of materially facilitating the object of diffusing correct information as to the principles by which the Government is guided in its appropriation of funds for such purposes, and on the measures of improvement which have been executed or are in progress, with their results, it is intended that the portions of the annual reports of your Board, referring to works which are intended in any degree for the public convenience and advantage, such as roads, bridges, canals, embankments, conservancy of rivers, &c., shall be printed and made public; and I am instructed to request that your Board will keep the ends of such publication particularly in view in drawing your reports. The President in Council hopes that this view may be acted upon with the report which it is probably the intention of your Board to submit to Government at an early period for the year 1838-39; and his Honour in Council deeming it right that the first publication should be preceded by a brief account, showing, as far as possible, the nature, extent, cost in original execution and subsequent maintenance, (and this, whether the outlay be from public or from private funds,) return or profit, and general results of each important public work under the control of your Board, it is the desire of his Honour in Council that your Board will turn your immediate attention to this important subject, and that your annual report for the past year may be accompanied by a preliminary account drawn up in accordance with the instructions above conveyed,

· No. 2.

(No. 142.)

EXTRACT LETTER from the Secretary to the Government of India, in the Military Department, to the Military Board, dated 22 July 1840.

21. Having thus noticed the more important parts of your Board's reports, his Lordship in Council directs me to conclude with observing, that it is understood that provision will be made in future for submitting, in separate reports, the statements of proceedings regarding public works of general interest, and regarding the operations of the more peculiarly military establishment. Such division of your Board's annual reports is consistent with the orders of the Honourable Court, and the Governor-general in Council understands that it is intended so to prepare the former class of reports as to admit of their being printed and circulated, as may be thought advisable for general information.

No. 3.

Note.—As an introduction to the series of annual reports, and in compliance with the instructions given in the latter part of para. 22 of the letter from the Officiating Secretary to the Government of India, in the Military Department, to the Military Board, dated the 14th October 1839, a descriptive outline of works of public utility at the time (8th September 1840) under the Military Board's general management was submitted. In arranging the latter statement the works were classed under the general heads of roads and bridges, canals, embankments, and buildings, commencing with the works situated nearest to the Madras frontier, and proceeding gradually through the four circles of superintendence to the North Western frontier. The following is a brief analysis of this introductory report.

PRESIDENCY OF BENGAL.

No. 4.

INDEX to a TABULAR ANALYSIS of the Statement-by the MILITARY BOARD at Bengal. dated 8th September 1840, of Works of public utility then under their general Management.

ROADS.

No. 16. Arrah to Sasseeram.

- 16. Arrah to Akberpore.
- 16. Arrah to Brookgunge.
- 22. Aimere to Nusseerabad.
- 8. Burdwan Division.
- 7. Calcutta to Kishnegur.
- 15. Calcutta to Benares.
- 8. Culna to Burdwan.
- 12. Cachar to Munipore.
- 16. Chupprah to Mozufferpore.
- 16. Chupprah to Mootearee.
- 18. Chunar to Sukroot.
- 23. Cawnpore to Grand Trunk Road.
- 24. Campore to Bittoor.
- 20. Deccan Road from Mirzapore to Jubbulpore.
- 21. Dhamow to the Deccan Road.
- 28. Delbi Division.
- 4. Grand Trunk Road.
- 10. Gowabattee to Sylhet.
- 27. Gazeeoodeenuggur to Meerut.
- 16. Hadjpore to Poosah in Tirhoot.
- 2. Juggernauth Road.
- 21. Jubbulpore to Titwarra Ghaut.
- 21. Jubbulpore to Hansi Chaut.
- 21. Jubbulpore to Cullinghee.
- 28. Kurnsul Division.
- 29. Kumaon Division.
- 1. Madras Frontier to Cuttack.
- 3. Midnapore to Culcutta.
- 15. Moorshedsbad to Benares.
- 17. Mogul Serai to Allahabad.
- 19. Mirzapore to Gopeegunge.
- 20. Mirzapore to Jabbulpore.
- 2. Porce to Bissenpore (known as the Juggernauth Road).
- 14. Patna to Gya and Shergotty.
- 13. Revelgunge to Moozufferpore.
- 25. Rohilcund Division.
- 21. Saugor to Jubbulpore.
- 28. Strand Road.

CANALS.

No. 32. Ballinghatts.

- 41. Beejapore Water-course.
- 22. Calcutta Canals.
- 32. Circular Capal.
- 37. Delhi.
- SH. Dooab.
- 82. Entallos.

- No. 86. Feroze Shah's.
 - 39. Gangum River.
 - 40. Ganges Canals.
 - 30. Hidjellee Khal.
 - 33. Ishamuttee River.
 - 36. Jumna River.
 - 39. Koh River.
 - 40. Kunkul on the Ganges.
 - 39. Moradabad.
 - 40. Mynpooree.
 - 35. Nuddea Rivers.
 - 37. Nuzufghur Jheel.
 - 31. Oolabariah.
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 - 30. Tumlook Khal.
 - 34. Tolly's Nullah.

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- No. 44. Allahabad.
 - 42. Balasore.
 - 42. Burdwan.
 - 42. Berhampore.
 - 43. Behar.
 - 43, Central Provinces.
 - 42. Gunduch River.
 - 44. Ganges River.
 - 42. Hooghly.
 - 44. Jumna River.
 - 42. Midnapore.
 - 42. South-western Provinces.
 - 42. Southern and Northern Cuttack.
 - 43. Sacri Bund.
 - 42. Twenty-four Pergunnabs.

CIVIL BUILDINGS.

- No. 52. Bathing Ghaut at Hurdwar.
 - 47. Chittagong Jetty.
 - 50. Churches, &c.
 - 50. Divine Worship.
 - 49. Educational Purposes.
 - 45. False Point Lighthouse.
 - 51. Hospitals.
 - 52. Hurdwar Bathing Ghaut.
 - 47. Jetty at Chittagong.
 - 53. Juma Musjid, or Mosque.
 - 46. Kedjeres Lighthouse.
 - 54. Kotub Minar.
 - 45. Lighthouse at False Point.
 - 46. Lighthouse at Kedjeree.
 - 48. Lighthouse at Point Palmyras.
 - 53. Mosque, or Juma Musjid.
 - 48. Point Palmyras Lighthouse.

No. 5.

TABULAR ANALYSIS of the Bangal Military Board's Preliminary Statement, dated 8 September 1840.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARES.
ROADS AND BRIDGES	IN THE SOUTH-EASTERN CIL	CLE:		Re.	Ri. a. p.		187
(I.) New road from the Madras frontier at Chutterghur to Cuttack.	To make the Dawk communication between Madras and Bengal more direct and secure than by the circuitous route by the sea coast; as likely to be advantageous for facilitating the march of troops between Cuttack and the northern division of the Madras army, and highly useful to the	-Measures 79½ miles; was commenced by the Collector, but truesferved to De- portment of Public Works in 1835.	Cuttack	1,28,957	9,559 6 10	- This road is open for dry weather com- munication, but some of the bridges and drains are still want- ing, and bungalows and wells have to be constructed.	This road has at present 100 bridges; it is likely to be very escul when completed to Ganjam. The expense is borus entirely by the State.
terrana	extensive track of country known as the Khoordah estate, by afford- ing the means of conveying its produce to the market of Cuttack.	n New series as				i i a ga g u	3
(2.) Road from Pooree, through Cultack and Midnapore, to Biascapore, on the Grand Trunk Road.	- This road is known as the Juggernath road, its construction having originated in a donation by Kejah Sookmoy Roy of 1,50,000 rupees for the construction of a road to the Temple of Juggernath.	1622.	Bissenpore	15,21,606 or 5,415 per mile.		Completed in 1830 -	- This road has \$16 bridges and drains. The whole of the outlay, with his axeeption of the 1,00,000 rupers, was borne by the State. Its annual repair, including the value of souviet labour, averages \$8,166 rupers. The road is almost invaluable as affording the means of communication throughout Orisan, and tissue to Bancal.
(3.) Road from Midnapore to Calcutta, crossing the Hooghly at Oolabarriah.	- Intended for general use, and accordingly employed for the con- veyance of the Madras and Bou- buy mails, and used by parties proceeding to Juggernath from the Eastern Provinces.			Rs. a. p. 72,000 13 4		Completed in 1830	- The Hooghly, Damoodah, Roopsards, and Coseye Rivers on this line were (with the exception of the last) extensive tideways, and are all evosed by ferrice. The annual repeir is about 2,078 rupees.
(4.) Grand Trunk Road from Calcutta to Delhi.	- Of this road, only a very small portion is in the South Eastern Provinces. It may be considered as the main artery of land communication throughout Beagal and Hindostan.	general breadth is 30	Delhi	- It has for the most part been constructed by the labour of convlets, but- cxclusive thereof, it has cost, to the 1st May 1840, 12,28,279 rupecs.			- This road is raised above the flood level in the rainy season. It has already 1,403 bringes of various sizes up to a waterway of 400 feet, and others have to be completed; it is metalled where the sell requires such protection, and is under the charge of seven executive engineers, and is provided with 47 staging bungalows, towards the cost of which 14,607 rupees have been contributed by Rajahs Scobehnder Roy and Nursingchunder Roy, and the whole of the remaining outlay, which is 20,603 rupees, exclusive of convict labour, is bore by the
					20	*	State. (continued)

•	No. 5TABULAR A	NALYSIS of the Beng	gal Military Board's	Preliminary Statement,	dated 8 September 1	840—continued.	i Priv
NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS,
ROADS AND BRIDGES Paras, 7 to 15 of Report.	IN THE LOWER PROVINCES:				9	÷ £	
(5.) Presidency							- The roads are maintained by the chief magistrate. The Military Board are not aware of their cost, but judging from the expensive nature of the mate- rial used, and the heavy traffic on them, it is doubtless large.
(6.) Suburbs of Calcutta				e i e i i			- The roads are maintained by the civil architect, under the control of the superintending engineer. Of their original construction the Military Boaris not cognizant, but their present maintenance costs, on an average 10,000 rupees a year.
(7.) Road from Calcutta to Kishnaghur; forms part of the road to Berham- pore.		57 miles in length -	Kishnaghur. It is to be extended 240 miles to the new Sa- natarium at Darjeel- ing.	-Original cost, Rs.2,69,630. The cost of the portion between Kishnagher and Berhampore (51 miles in length) is not known.	• • •	y u	- It has of late years been kept in repair by the magistrates, but it is now to be repaired by the Department of Public Works; it is to be extended to Darjeeling; the last 30 miles are to be entirely carried through the hills; it is a work of immense labour, and is not yet finished.
Burdsoan Division: (6.) Road leading to Culus Division Eastward of	For the personal convenience of the Rajah of Burdwan, a Calcutta; viz., Dacca, Burrisaul, a	nd Arraean Divisions,	Calna including the Province	Rs. a. p. 42,668 10 8 assigned by the Rajah.			- In this division several roads are maintained at the public cost, but of the expense of their original construction the Board can give no account. They are not individually of great importance, though doubtless of much local utility. The average cost of their maintenance amounts to 7,100 rupees, and is defrayed by the State.
(9.) Iron suspension bridge over the Boorolia Nulla at Gowahatty.				Rs. 5,311	•		- In this division the roads are not under charge of the Department of Public Works, but have been constructed and maintained by the civil officers. More bridges are in progress under the executive engineers, which may be noticed in future reports.
(10.) Road over the Cossyah Hills from Gowahatty in Assam vid Cheers Poon- jee to Sylhet.		• • • •			e e e e e e e e e e e e e e e e e e e		This road was surveyed, and estimated by Lieutenant Sale, of the Engineers. Its construction is in progress by the political officers at Gowahattee and Cherra Poonjee respectively.

THE TO SEE THE PERSONNEL	I ** **		Î L	r ·		1	
Burrisaul Division	54 P. C.	1	2	*			
(11.) Military road from Dac through Dacodeun	fy						It is contemplated to complete this road by the substitution of masonry
and Chittsgong to Te	A .	4	20 20	i	,	a co	bridges along the whole line for the
L'AL.	a Tom	34 32 323			· 1		temporary wooden structures which
(S) 2	1			1			would require renewal every year; also
93			1	* *			to open a navigable communication
The second secon			2.5	2		57 \$5E	through the interior of the Chittagong District to Arracan.
(12.) Road from Cachar thron	i To facilitate the communica-	Longth not stated :	Munnipora	30,600 tupees, exclu-	Not stated	Not stated	
the Naga Hills to Mi	1- tion between the Eastern frontier	the width is to be 10		sive of the pay of a de-	2106 312121	1 nor statem	It is intended for foot passengers and laden cattle, and will have several
pipore.	and the Burmese country.	feet, Commenced in		tachment of suppers and	10		bridges on its line; it is cut almost
		1837, under the super-	8	miners.	8		entirely through a mountainous and ex-
E DE TROP TO THE ME I		intendence of Lieu- tenant Guthrie of the					tremely difficult country.
NR 2 31 R	N 8	Engineers.			1.00		
E E E E E E E E	and the second	B			0 18		
3d, or Dinapore Di		1	e ne	¥ 19			a finding to
(13.) Road from Revelgun	a,	55 miles in length -	Mozufferpore	The Department of Pub-			In this division the roads maintained
near the junction of t			2	lie Works is cognizant of	E 20 100		at the public expense are numerous.
Chupprah and Res			1400	an outlay of no more than		1	That from Revelguage to Mozniferpore
Chaut on the Gundus	k. 1	1 1	[4	89,522 rupees on this road, but much more must have	***		is one of the chief.
to Mozniferpore, t	ie	N en i		been expended.		encomples and	
chief town in Tirhoot.	. 1	1 N 100 T 2	V		100 to 1	00 (5.8) (8.8) (9.9)	
(14.) Road from Patna to Gy	h	Length 80 miles,	Shergotty	Not known	The drainage being	Not stated	- The repairs made heretofore have
and Shergotty.	*	This road was not		40	imperiect, the road is		been effected by convicts.
		originally constructed	18 1 The	, A 19	about being renewed	2 (2000)	
₽ ,		by the Department of Public Works.	V 90	a a a tarak	and improved at an		and the second of the second
\$ N		Land Marks			estimated cost of 70,222 rupees, under		
A STATE OF THE STA		*	l'ari	A soft to Annual State of the	the executive officer.		
(15.) Continuation of the re-		Length 490 miles -	Benures	Not known			- These roads are not generally main-
from Calcutta to Be hampere (see previo					1	10 10 11000 6 7	tained by the Department of Public
statement) by a series		0 1 No 100 N 100 T	a			60 (8	Works, but portions of them have been
district roads throug						TABLE OF THE COMPANY	occasionally repaired by the executive
Mongbyr, Patnu, Din		1 1		at *			engineers, by whom several very useful
pore, Arrah, Buxar, as		17.0		10			bridges have been built.
Cluscepore to Benero	10 P		·		, d	li sas	
(16.) Other roads in this divisi-	a,		·	Not known	The repair of these	6	These roads are highly useful.
which are under t	e ' _	The second secon	22.50 (200) 2000 5000 0 0		roads by the Depart.		turse tours are many estair
to Sesseers med (such as the road from Arrah om Arrah to Akberpore; road	u		the state of the s	ment of Public Works	6 B	em jamiljo, o o op
HOM ATTEN IN HOOKS	Indes Hudinare to Donach in	20 8 4	the second second		is under discussion,		
Tirhoot: Chapprah to	Mazuffernare · Charactel to	6	1	C. an	and estimates amount-		person in
Mootecaree in Chump	tun, &c.				log to Rs. 72,880. 13 a. 10 p. have been sanc-	A. Deliver	
3					tioned.		To After the case of the second
ROADS AND BRIDGE	S IN THE CENTRAL PROVINC	ES:	. 4 4			E 100 F.	
oth, or Benares Div	sion:				5	21 17	2
(17.) Road from Mogul Serai,	n Connects the Truck Road with	Length 92 miles -	Allahahad -	Not known	The whole line has		- This is a work of considerable im-
- the Grund Truck Roa sight miles from ti	, the great commercial mart of			LIVE KOOME.	lately been surveyed.		portance, and its cost must, it is pre-
Canges at Benares	e Mirzaporn, without crossing the Ganges; and also the Grand Trunk	1 .			Its completion by the		sumed, be borne by the State.
Allahahad, vid Chun	r Road with that from Mirzapore				Department of Public		
	through Jubbulpore to the Deccan.	* × × ·		As a second	Works is now in pro-		9
and Mirzapore.	a a popular	1	La au sulli sun sun l	a new a new convention	grees. No detailed		
				. * .	been received	1	
					been received.		(continued)

No. 5 .- TABULAR ANALYSIS of the Bengal Military Board's Preliminary Statement, dated 6th September 1840-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion	Probable Time of Completion	REMARKS.
ROADS AND HRIDGES IN Oth, or Bengres Divisi	THE CENTRAL PROTINCES-CON	tinued.			. ,		
	To facilitate the traffic with the southern portions of the dis- trict.	Length 16 miles -	Sukroot	2	0,925 rupecs	O market of the second	- This work is intended to form, in the first instance, only a fair-weather road.
(19.) Road from Mirzspore, on the south bank of the Ganges, to Gopeegunge.	- To join the Grand Trunk Road at Gopecgunge.	Length 16 miles -	Gopoegunge	- The drains only were built by the Department of Public Works, at a cost of 1,495 rupess.		1	The earth-work was constructed by the magistrate. Other roads in this division, viz., from Benares to Joun- pure, from Ghaseepore to Jounpore, and from Jounpore to Azinghur and Goruckpore, are not under the charge of the Department of Public Works.
(20.) Decean Read from Mirza- pore to Jubbulpore.		Length 239 miles; breadth, 30 ft. Com- menced 1824.	Jubbulpors	- A little more than 8,00,000 rupees, including repairs, but exclusive of the labour of from 300 to 500 convicts for 15 years.	ever, is over the construct of Rewah;	the Belun river, and is tion of this road was th this is effected at the ath 2 k miles in length.	- This road is provided with 479 bridges and drains of masonry, having openings varying in size from 6 to 76 feet, and 213 causoways or pavements reallow streams; one of these latter, how-950 feet in length. The chief obstacle to a ascent from the plains to the table land Klutta Pass, up an ascent of 690 feet by and nowhere less than 18 feet wide. The unsidered highly creditable to the skill of
(21.) Other roads in the Saugor and Norbudda Territories of which the Department of Public Works has cognizance: viz., Prom Saugor to Jubbulpore, via Putterees and		Length, 48 miles -)]	41 00 ±	Major Drun of the distric	mond. The work is ex	tremely valuable as facilitating the training the training the training the suppreciated
From Dhamow to the Dec- can Road at Jokeve. From Jubulpore to Tilwarra Ghist on the Nerbudda. From ditto to Jhansi Ghaut. From ditto to Cuttinghee		.0 65 10 - 11 5 10 - 12 23 11 -		Nearly 2,00,000	80 rupees per mile -		They are to be completed as fair- weather roads, i. e., roads which are passable at all seasons except in the rains.
(22.) Road connecting Ajmere with Nusseralisd.		" 13] " -	Nusseerabad		8,000 rupees		This road is in progress of construction
(23.) Road connecting Cawn- pore with the Grand Trunk Road.		, 19 _p -	Grand Trunk Road -		26,000 rapees		This road is not quite complete.
(24.) Road from Campers to Bithoor, the residence of the ex-Peshwa.							- This road is under construction. It expense is defrayed by the Poshwar aided by the labour of prisoners supplied by civil authorities.

		X				,	,	
987	ROADS AND BRIDGES	IN THE NORTH-WESTERN P	ROVINCES:	. 1	•			
•	8th, or Robileund Div	ision:	1					
	(25.) Roads and bridges -			- •	'27,070 rupoes have bee ment for the construction sum already expended by G and strains in this division in	of some bridges. The overnment for bridges 1,20,075 rupses.		- The subject of the Robilcond reads generally has been referred to the Home authorities; in the meantime the repeir of scissing reads is managed by the local committees.
4 84:	(20.) Strand Road	Considered to be of the greatest advantage to the city and station of Agra, both in appearance and utility.		•		3,76,700 rupees -	The whole sun division in em	• • Of the sum 3,76,796 rapees, the sum of 3,55,105 rupees was paid to the starving p.or, who could give but very inadequate returns in labour for the support they received. The remainder, 21,646 rupees, was expended for tunnels, ginate, bridges, &c., required for the road. It is stated that d having now had a trial of three rainy be considered as afte and permanent, a expended by Government in the Agraphyling the pauper population during the 8, is stated at 6,12,431 rupees.
:X)	(27.) Brunch from the Grand Trunk Road at Gazecood- deen aggar, on the west bank of the flaver if indun, to Meerat.		Length, 29 miles - Meerut -			RsFor earth-work 10,000 For bridges and drains = 2,763 For metalling -75,788		The earth-work is managed by a local committee. The bridges, drains, and metalling are to be constructed by the executive engineer. This will be a work of great utility, as the old road
B 2	Delhi and Kurnaul D		. h		a e a**	Total - Rs. 93,661 A further expenditure of 04,000 rupees is anticipated; 1,28,813 rupees have been expended on bridges by the Department of Public Works.		had, from long use, been worn to a lower level than that of the adjacent fields, and was consequently converted into a ditch in wet weather.
	(28.) Drains and small bridges, exclusive of those on the Grand Trunk Road.				20,571 rapecs			The roads in this division are under the charge of the civil authorities.
	Kumaon Division:			,		a) a	H H H	2 6 9
	(29.) Bridges and staging bungalows.				- 45,689 rupees, and for annual repairs 2,300.	:	detachments of bungalows by Public Works four wooden to by Government	all mountain paths adapted for Hill Coolies, and on one line, viz., that from Bourourie to Almorah, for bullocks and it construction has been effected chiefly by of the pinness corps; but the bridges and two been erected by the Department of There are 13 iron suspension bridges, and four staging bungalows, built it in this province,
, Ř	The total outlay for roads,	as above, is 57,84,223 rapees, but	this does not include any sums which	ch may ba	we been expended by the o	civil authorities withou	t the enguizance of the	Military Board. In some districts the

Ine some outlay for roads, as above, is 57,84,223 rapees, but this does not include any sums which may have been expended by the civil authorities without the engainment of the Military Board. In some districts the remaindars have agreed to contribute one per cent. on the land revenue, to form a fund for the improvement of internal communication; the proceeds of the fund are under the management of local committees, of which the executive of Public Works is generally a member; but the proceedings of the committees are not under the control of the Board. The profits arising from the furms of Perrica, are generally made available for the control of the Board. The profits arising from the furms of Perrica, are generally made available for the returns for money expended on works of utility.

No. 5.—Tabular	ANALYSIS of the Bei	igal Military Board's Prelic	ninary Statement, dated 8th S	eptember 1840—continued.
	1	m1		

NAME OF WORK.	Object of Coastruction.	Length, and Date of Commencement.	Pluce of Termination, or of Intended Termination.	Amount of Expense incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CANALS IN THE SOUTH	I-WESTERN PROVINCES:			X 2	- Y	i si institution	
(30.) Navigation Khals of Hi- jelies and Tumlook.	- Are much used in the Salt Mehals for the transport of this article of trade; are invaluable the south-west monsoon, as forming a safe line of communi- cation, at a time when the open sea, and even the southern por- tion of the river Hooghly, is too rough for country craft.			- Average cost about δ,000 rupees per annum.	- Some works have recently been executed on these khals at an estimated expense of 23,138 rupees.		- A toll is levied on boats navigating these khels, on which money is expended, and which it is believed defrays the expense. The tolls are not managed by the Department of Public Works. Some of the Nullabs, such as the Banka Nullah, between the rivers of Huldee and Roopnarain, are under the control of the officers of the Salt Department.
(31.) Oolabariah Canal -	- Was formed by the excava- tion necessary for raising the earth-work of the road from hidnapore to Calcutta, crossing the Hooghly at Oolabariah (alluded to in the fifth para- graph of this report).	Length 15 miles	- Extends in a westerly direction to the Damooda at Murrecha, thence to the Roopmarsin at Colar Chaut.	- As no separate bills were furnished of this canal, its construction may be considered in the cost of the road itself. Its annual clearence cost 1,321 rapees, and the toils levied on boats using it have averaged 2,092 rapees for the last two years.			- It is used only for boats coming down from the Burdwan and Hooghly Districts to Calcritz, and returning. It shortens the distance on the Damooda by about 22 miles, and about 36 by the Roopnarain, besides avoiding those portions of the rivers which are dangerous for country boats in the south-west measoon.
(32.) Calcutta Canals; viz. 1st. The Circular Canal. 2d. Ballinghatta. 3d. Entallee.	These canals form an easy and convenient unvigable communication round the greater part of Calcutta, and are a source of great convenience to the town.	Length 3 miles	- Prom Chitpore to the junction with the Estalice Canal. From the end of the Circu- lar Canal to the Sait Water Lake. Prom the Circular Canal to the east end of the Dhurramtollah Straits	- 16,45,404 rupees, including six bridges, and the roads along the bank. The cost of their annual meintenance averages \$1,646 rupees, and the toils levied on boats, &c., for the last three years, 66,225 rupees.	i de la composición del composición de la compos		- Comprise a line of navigation, extending from the Hooghly at Chitpore to the Salt Water Lake. The amount of toils realised during the official year 1849-50, was Rs. 1,82,989. 2.; the current expenses of the toil department amount to Rs. 15,853. 6. 6.; the lands, ferries, and fisheries attached to the canals realised 1,877 rapess. *Koolea Wooden Bridge, Balliaghatta Iron Suspension Bridge, Nurkuidanga — ditto, Manichtoila — ditto, Barrackpore — ditto, Dum Dum — ditto.
(33.) Canal from the east end of the Balliaghatta Canal a through the Balt Water Lake, thence by several natural Nullaha, aided by some artificial cutting to the Ishamuttee River.		Length 40 miles -	Ishamuttee River •	8,77,186 rupees. Their maintenance involves an average outlay of 2,000 rupees per annum.			They gave no separate returns, as tolls are not levied further eastward than the Salt Water Lake. This pas- sage is only used by boats of light draught, except in the rainy season.
(34.) Tolly's Nollah, to the south of the Esplanade of Fort William.	- · Porms a communication from	Length 16 miles	a central openin frayed from fund tolls amount, on	- Its original cost is not known; its clearance costs 620 rupees per annum. Seven † bridges have been thrown across it at a cost of 1,70,381 rupees. The cost a Hestings Bridge, which has g of 176 feet, was partly described by subscription. The the average of the last three rupees per annum.			This is an enlargement of a natural Nullah, which was rendered navigable many years ago by the agency of an officer whose name it bears. Kalighant Suspension Bridge. Kidderpore - ditto. Tollygunge - ditto. Garriahhaut - ditto. Hastings - ditto. Allipors - ditto. Prannath - ditto.

			•	T .	1)	•	1
9	CANALS IN THE LOW!	ER PROVINCES:	, i				(A)	* *
00	(35.) No artificial canals. Clearance of the Nuddes	- By which a communication between Calcutta and the Gangos			Average cost of the last 10 years, 32,840 rupees,			- The balance of the toll collections in hand, to the Soth April 1849, is be-
•	Rivers to facilitate the	is maintained.			including salary and esta-	1	2	lleved to be considerable, though its
	navigation in the dry sea-	19	i	* * *	blishment; average toll col-	į		exact amount is not known. A hope is
	eon.	1	*		lections for the same period	1	Ð	expressed that the judicious employ- ment of this balance may ultimately
55	12		1		num, after deducting the	1		lend to a more effectual opening of the
		-		2	expense of collection.			rivers, so as to admit of the inland
		i ·		1,1			A 1	steamers passing through at all seasons, instead of adopting the circuitous route
	2 1		•					of Channel Creek and the Sunderbunds.
	IN THE CENTRAL PRO	OVINCES THERE ARE NO CAR	VALS.	9	79.8			
	CANALS IN THE NORT	H-WESTERN PROVINCES:	W					7 2 3
(36.) Feroze Shah's Canal from	The causis in the North-		- Neighbourhood	Cost of reconstruction	These three canal	form what are called	- The stility of the Peroze Shah
	the Jumpa.	Western Provinces, though navi- gable for various portions of their	It was originally con- structed in the 14th	of Hissar.	Total amount expended to		the Jumna." The ori-	Canal may be conceived from the fact of the wells in the neighbourhood of
35	25 NA 14 A A	length, and at certain times of the	century by the Em-		the end of April 1840,	quent decay during	the disturbed period	Hissar being generally 130 feet deep,
		year, were all constructed with a	peror whose name it		15,66,502 rupees. The		of the Mogul Empire, saving attracted notice	and the water obtainable from them being all more or less impregnated with
	989	view to irrigation,	bears.		direct return is obtained by water rent paid at the		came into the posses-	salt. The extent of ground irrigated
C	37.) Delhi Canal	Intended to convey water	Length 85 miles.	Kurnaul	rate of eight annas per	sion of the British G	lovernment, they were	from these canals amounted to 2,58,626
•		from Feroza Shah's Canal, near	Was constructed in	{	tiggah for each crop, or one rupes per biggah per au-		t Blane of the Engineers, sary expenditure having	biggahs in 1839.
	32	Kurnaul, to the capital city of the empire.	the 17th century by	: 1	num. The amount levied	been sanctioned, they		
	4 . 4 8 **		named All Murdhun	1	as water rent in 1839 was		No. 01 (2 (0))	
	to a # a		Khan.		Rs. 2,58,826. 10. U.; the t	indirect return cannot	be stated, as it	
_ (38.) Branch from Feroze Shah's		Length 45 miles -	Rohtuck	depends entirely on improv	red agricultural produce,	on the security	1
23 , V	Canal, near Kurnaul, to	14			which artificial irrigation a	affords against the effect	of drought.	
w	Rohtuck.	E a serie	140 H					
	CANALS IN THE NUJUI	FGHUR JHEEL COUNTRY:	18.41	, ,				· ·
	Canal from the west end	For draining the country,		Jumna River		58,782 rupees	- The work is now	It is supposed that the rent of the
13	of the Jheel to the Jumpa above Delhi.	which is over-flooded every rainy season; the land of which, when	2		290	17	on the eve of comple-	recovered had will very soon repay the expenditure.
	Jumna above Deint.	the waters are dried up, is ex-				40		Capenatures
		tremely productive.	TOLE THE RESIDENCE	successors and the successors and the successors and the successors are successors are successors are successors and the successors are successors are successors are successors and the successors are success			201 S (m) • 514	Vego toria dell'ineri ase dell'ineria
	Dooab Canal. Its line	These canals are used for floating timbers, and for the con-	Length about 130 miles, supposed to	Delhi	Cost of restoration		Restored in 1831-32	Captain Cautley has met with many unforeseen difficulties in the efficient
<u></u>	runs from where the Jomna leaves the	veyance of lime on small boats.	have been constructed	2 2 A	4,67,512 rupees.			maintenance of this valuable work.
c.e.	hills.	but their employment as navi-	in the time of Ma-	40	×			which have arisen chiefly from the slope
wes.	a.	gable communications is insignifi- cant, when compared with their	homed Shah, one of Aurungzebe's succes-			*		of the country, and the sandy nature of its hed. The absence of all measures
	υπ	use as channels for the convey-	sors. It had been en-			7	e G	for providing against this difficulty, is
	-	ance of streams for irrigation.	tirely abandoned, and)		10	a sufficient proof that the work could
×	11	trace quite lost, when the Sel	in some places its	8 9	2		12,	scarcely ever have been in full use in former days; but by the construction of
	11	into the possession of the	British Government.		8		1	locks and falls of masonry, the evil has
40	1.	Examined by Lieutenant To survey, with plans, sections, &	d m 1810. Complete			7	W 100 2000	been remedied, though at considerable cost. When it is considered that the
	11	De Bude, Engineer, in 1822-	23 The re-opening of			ì		drought of 1837-38 was the occasion not
	g g a se	it was entrusted to Captair Since its restoration, it has	R. Smith, Engineers.		ga	4	of life from about	merely of loss of revenue, but of great loss
	×4 ×2	Lapiain Cautley, Attillury	the outlaw since he	* ==		100	utility of a canal	te starvation, it must be allowed that the like this, by which full 71,530 higgshs
	- 11	received charge of the wor	ks has been 5 79 164			a	were enabled to	give a good average crop, is not easily
K 0	Į į	rupees, and the return from 5,13,150 rupees.	water rent, mills, &c.,	, a			measured by mere	moncy valuation,
Acres C	THE RESIDENCE OF THE PARTY OF T	' '' salanne			1	l	4.0	(continued)

No. 5.—TABULAR ANALYSIS of the	Bengal Militar	r Board's Preliminary State	ement, dated 8th September	1840-continued.
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NAME OF WORK.	Ohject of Construction.	Length, and Date of Commencement,	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion,	Probable Time of Completion.	REMARKS.
MORADABAD CANALS				Re. a. p.	Rs. a. p.		
(39.) Canal between the Koli and Ganjam Rivers,	Irrigation -	- This work was sanctioned on the 10th April 1859, after a survey, and on plans, &c. prepared by Lieutenant Anderson, Engineers.	Ganjam River • +		Estimated amount of cost, 51,218 rupees.	Not stated	There appears every reason to hope, that the system of artificial irrigation, so happily exemplified in the Jumpa Capal, may be very generally adopted in Robbiennd.
(40.) Proposed Canal from the Ganges to Kunkul, to pass near Meerut and Coel, and finally to join the River Esun, near Mynpooree.	Irrigation -	- In 1830, Captain Cautley, Superintens dent of the Dooab Canal, suggested the practicability of mak- ing the waters of the Ganges available for	River Esun		26,04,749	This work is at present under the con- sideration of Govern- ment.	
(41.) Beejapore water-course lu	Irrigation	irrigation on the east- ern side of the Docab, and was instructed to make surveys.		15,000	and Therese S. as asset		
the Debra Dhoon, be- tween the Touse, the Arsun, and the Bundal Rivers,			9 F			Not yet quits com- plets.	 Its utility is considered likely to be very great, as compared with its cost and to be the means of bringing au axtensive tract of forest land into cul- tivation.
* * *	The total amount expende	d on Canals, as above, is	49,03,286 rupees; and	the returns in water rent, to	lls, &c., is now \$,47,386	ropees per annum.	က္က မ ၏ ။ ၏ မေး ၁၂၈၈ မှ မွေ ၈ ျက်ရှိ ၂၂၂၂၆
EMBANKMENTS, SOUTI	I-WESTERN CIRCLE	a j j seja	***	2 2			
(42.) Embankmenta, in	They are intended, near the	- Aggregate length.				a speca e	
Southern Cuttack Belazore Midnapore Hooghly The 24 Pergunnahs	sea, to protect the interior of the country from invadation on occa- sions of high tides, and in inland tracts, to prevent thools of the rainy season from overflowing the banks of rivers.	8,450 miles, their height and mean thickness varying from 20 feet by 65		Came under charge of Military Board in 1831, since which period the amount, expended is 19,07,822 rupees, including the charges of superintendence. The amount average outley is 87,180			The system at present followed, is believed to have been in force before the land came under the control of the British authorities. All that has since been done, has been to endeavour to introduce a gradual improvement in the dimensions and position of the earth-
Burdwan				tapees.			work, and to establish conjointly with the Zemindars, who would more imme- diately benefit by the change, sluices of masonry in the hauks. These works are as yet few in number, but are coming by degrees into more general use. As regards returns for the ex- penditure, the maintenance of the sm- bankments is believed to constitute

PAPERS
RELATING
TO
PUBLIC
WORKS
(INDLA).

PMBANKMENTS,	LOWER PROVINCES:		1				i .	1		1			one of the items of detail on which the
Embankments on the Booghly River, in the Berhampore Di- vision.			-	•		2 2	Have cost, since 1831, 1,34,246 rupees; and their annual maintenance costs about 11,000 rupees.			-	•	-	gross rent, paid by every ryot, L cal- culated; in some cases the liovern- ment receive this, and in others the Zemindare; on this point no certain information can be given, but it is
Bands on the Gambuck River in the Dinapore Division.			-	•		•	Have cost, since 1830, 1,90,826 rupees. Their average annual mainten- ance costs 19,000 rupees.			•	•		known that the Rajah of Bordwon pays to Government 53,742 rapees per annum on this account, and that the whole of this sum is not expended; there is no reason to suppose that in
EMBANKMENTS. (CENTRAL PROVINCES;				•	٠.			• :-		ä	ĸ	any estate throughout the embanked districts, the sum assigned as Poul Bundes falls short of the actual ex-
	For the purpose of diverting the stream of the Sacri River towards the western portion of the Behar District.	Has been constructed.	lately	: :	• •		18,218				•	•	penditure.
(44.) Bunds on the Ganges and Junna, at Aliahabad.	- Protect the town, and a con- siderable extent of land near the junction of the rivers, from inun- dation.		-		•	•	Have cost 30,100 ra- pses in the last (10) ten years.			-	•.	•	- Are of the greatest utility. They were breached in 1850 by a flood of unprecedented height, when a considerable portion of the town and neighbouring country were insuduted, and
8 8		e # 0			=======================================	ii.				100		+5	very great loss ensued.
The total amount	expended on Embankments, as above	, since 1831, has t	eeu 20,4	1,842 m	upees; t	bere I	s no reason to suppose that t	рс ваменят	ents under t	he head	of Pool	Bund	e are not equal to the outlay.
BUILDINGS OF GE	NERAL UTILITY, CONSTRUCTED	UNDER THE D	B PARTM				DES, IN THE SOUTH-EAST	150					ESTERN PROVINCES:
	NERAL UTILITY, CONSTRUCTED	I (B PARTM				ones, in the South-East Cost, including superin- tendence, 50,245 rupes for the building, and 23,750 rupese for the light-room or lantern; total, 83,395	150					
BUILDINGS OF GE	NERAL UTILITY, CONSTRUCTED	UNDER THE D	B PARTM				a. Cost, including superintendence, 60,246 rupoes for the building, and 23,760 rupoes for the bight-room,	150					estern Provinces: - The building contains apartments for the lightkeeper, and has separate rooms for the untive establishment.
BUILDINGS OF GE	NERAL UTILITY, CONSTRUCTED	UNDER THE D	B PARTM				*Cost, including superintendence, 69,246 rupces for the building, and 23,750 rupces for the light-room, or lantern; total, 93,996 rupces. It is presumed, that the pecuniary returns derived from this building, are included in the port	150					ESTERN PROVINCES: - The building contains apartments for the lightkeeper, and has separate
RUILDINGS OF GE	NERAL UTILITY, CONSTRUCTED	UNDER THE D	PARTM year				*-Cost, including superintendence, 69,246 rupees for the building, and 23,750 rupees for the light-room, or lantern; total, 92,996 rupees. It is presumed, that the pecuniary returns derived from this building, are included in the port dues of Calcutta. Not known. Cost of annual repairs about 450	150		BAI, A3		arn-W	estern Provinces: - The building contains spartments for the lightkeeper, and has separate rooms for the native establishment. - This building is of similar nature
BUILDINGS OF GE (45) Lighthouse at False Point (46.) Lighthouse at Kadjerce -	NERAL UTILITY, CONSTRUCTES	UNDER YES D: Built in the 1897-98.	PARTM year				**Cost, including superintendence, 50,245 rupees for the building, and 23,750 rupees for the building, and 23,750 rupees for the light-room, or lantern; botal, 92,995 rupees. It is presumed, that the pecuniary returns derived from this building, are included in the port dues of Calcuttu. - Not known. Cost of annual repairs about 450 rupees.	150		BAI, A3	Nor	arn-W	The building contains spartments for the lightkeeper, and has separate rooms for the untive establishment. This building is of similar nature as the preceding.

No. 5 .- TABULAB AWALYSIS of the Bengal Military Board's Preliminary Statement, dated 8th September 1840-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	of for		of for of		Probable Time of Completion.	REMARKS,
Buildings of Gan	BRAL UTILITY, CONSTRUCTED U	NORR THE DEPARTM	ENT OF PUBLIC WORK	s, in the South-Easter	N, LOWER, CENTRAL,	AND NORTH-WESTER	N PROVINCES—continued.		
19.) Buildings for educational purposes. O.) Places of Divine worship ospitals	For lessne and other sick persons			2,20,444 rupces, exclusive of five of small value, of which the cost is not known. Cost of annual repairs about 4,408 rupces. -Aggregate value, 7,83,361 rupces; cost of annual repairs, 15,667 rupces; some portion of the original cost is believed to have been defrayed by private subscriptions, but to what extent is not known. Cost of construction, 48,740 rupces; cost of repairs, about 934 rupces			- There are (11) eleven of the buildings under charge of the officer of the Public Works Department. - There are (22) twenty-two of the on the books of the Public Works Department. - There are (5) five of these, exclusing those provided for the military, or figrisoners in gools.		
* 1 81 30 •				per souum,			ding which, from their not being inclu		

Stone bathing ghants at Hurd- war In cons dent which fair of Koo	toguence of a fatal acci- to occurred at the great om Mela, in 1820.		20,000 rupees, including the cost of superintendence.	•	
Repair of the Great Mosque, or In contact Musjid, at Delhi.	onsequence of injury Constructed in 1820-21.	a	20,000 rupees.		
Repair of the Kotub Minar	Constructed in 1823		25,000 rapecs	• • • •	The adjacent buildings were also cleared.

while the works of various descriptions of which we have some knowledge appear to have cost in the aggregate 1,39,64,009 rupees, that sum cannot be considered as the total amount expended by Government for works of public utility, nor have we the means of ascertaining what that amount may be."

The following Statements have been prepared from the series of the Board's annual Reports from the official year 1839-40, to that of 1850-51 inclusive.

No. 6.
STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion	REMARKS.
BOADS AND BRIDGES.	SOUTH-BASTERN PROVINCES			Rs. a. p.	Rs. a. p.		
Roads from the Town of Aeng.		Banctioned 1840-41 -		17.823 7 4	1	Besson 1840-41	Seven of the bridges to be restored,
in Arracan, to Nagatongu and Thorowah, and for the con-		12			2 6 6		were destroyed by the Burmese in their flight from Arracan to Ava, in the year
struction of Bridges.			a . (6)	*** • * * *			1824.
Akyab:	- 1	1 T 3 185	60X 15	Set to a			
Construction of two wooden Bridges over the Peck Tock	To replace old bridges, which were originally constructed of in-	Sanctioned 12th	Akyab	5,869 11 1	5,470 11 8	Completed 1842-43 -	The breadth of these bridges, as first sanctioned, was 18 feet for both; but,
Kying Nullah.	different materials by the Mughs	Panuary 1011.	v * * * * * * * * * * * * * * * * * * *			1	subsequently, the Government autho-
	of the Province.	a n thine					rised the width of one to be increased to 22, and the other to 24 feet. This
ise piece - M. P. Page		n. yen y					has consequently increased the expense by Rs. 608, 2. 7.
		THE COURT OF MALE			6.272 - 2	Completed season	by R1.006. 4. 7.
Construction of five masonry bridges over Nullahs.	For maintaining an uninter- rupted communication at the sta- tion.	Sanctioned 16th Pobruary 1841.		6,076 10 7	0,272 - 2	1842-43.	
Construction of Pucka Drain	The necessity for this work, was	Sauctioned 18th		875 - 1		Constructed season	
Bridges in the town.	brought to the notice of Govern- ment by the local civil officers.	May 1841.				1842-43.	
Construction of two Pucka Bridges.	ditto	Sauctioned 27th	One on the road to- wards Nagapara, and	. 1,445 19 %		ditto.	.
			the other in the town,				
		•	on the bank of the Peck Sik Kyong.				• . •
Restoration of the Bund and Sluice at Akyab, and clear-	For the purpose of drainage, and as essentially necessary to	Sanctioned 3d April 1843.	Akyab	8,482 6 10	7,203 9 9	Completed season 1843-44.	This work, which was sanctioned in 1841-42, at an estimated cost of
ance of Jungle,	the salubrity of the station.				D. N. COT. 10	d . but it was destroy	ed by an irruption of the sea, during
		· was distributed	the second		violent storm.	on the 15th May 1842.	through a want of sufficient height. I
	g n	Ÿ			was raised five	feet above the highest	spring tides; nevertheless the sea, on this fact. The saving has accrued chiefly by
All particular at the second of the second o			a ve		a reduction of	the rates, and also by t	he employment of convicts on a portion of
		k / Henri			the work.	.*i	
Construction of two Bridges	Required to keep open the	Sanctioned 18th		4,375 10 2	5,523 .3 9	- Completed season	
at, in the Arracan Division.	communication between the sta- tion and the point hungalows, be-	August 1840.	Qu (V)	of matters and attended to the second	200 E 1	1842-43.	4.7
1	longing to the residents.		2, 22	.:		,580 p	
Construction of two Pucka		Sanctioned 28th		951 7 2		- ditto.	
Drain Bridges in the town of Akyab.		November 1842.	To the to the				2 m 4 m 4 m 4 m 4 m 4 m 4 m 4 m 4 m 4 m
		40 8 9			1 · 4	L	(continued)

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
BOADS AND BRIDGES, SO	OTH-EASTERS PROTIECES-conti	nueL		Rt. a. p.	Hs. a. p.		
leng Road and Pass: Con- struction of a Bridge, and re- pair of seven others, and of Travellers' Houses.	* These works are intimately connected with the interests of the trading community.	Sanctioned Oth September 1844.	• • •		1,161 11 1		
grachour to Buildak: Con- struction of a Foot Road, con- necting the Centar with the Cuttack Road.	To facilitate the transmission of the daks between Contar and Midnapore.	Sanctioned 10th April 1845.	Baildah	1,873 6 8}	1,886 8 7	- :	
kyab: Repairs to the Phoongaparrah Bridge.		Sauctioned 28th June 1848.	Akyab	928 14 4		Season 1849-50 •	The planking, beams, rails, &c.,
Construction of a wooden Bridge on the Gaol Road.	The necessity for this work was pointed out by the officer commanding at Akyab.	Sanctioned 19th October 1850:	. ditto		1,971	*	The estimate is exclusive of the costs of excavations, which will be performed by convicts.
Construction of a wooden Bridge at Nazerparah.		Fanctioned 6th November 1850;	ditto		1,679 19 9	1	An estimate was passed in 1846 for a masonry bridge, but, owing to the badness of the soil, it was considered
ROADS AND BRIDGES, Assam Roads:	LOWER PROVINCES:	Em 120	. At				preferable to construct a wooden one.
oncer Assam: Prom Rahu to Gobba Prom Talia Mhookutia to Low- khoah.		Length. 27 miles 10 m Sanctioned	Aseam	:::::	981 7 5 9,917 7 11	- Completed season	These are unmetalled roads, and thele
From Nowgong Division Roads From Bornelygong to Sconarce From Nowgong to Democroo- gooree.		9th January -1838.	ditto ditto		972 9 - 297 10 7 533 8 -	1842-43.	width is 16 feet; they have been raise where necessary.
Repair of the Road from Kul- ling River to Koliabur, From Koliabur to the Duneary		72 " Sanctioned 22d August 1842.	{· · · · · · · · · · · · · · · · · · ·		2,474 1	Completed season 1842-43.	This road will be made 12 feet wide with 106 worden bridges and drains. Proposed width, 15 feet.
Repair of Road between Now- gong and Texpore. Repair of Road from Rah to		17 ., Sanctioned 26th April 1843.	(4,924 - 8 5,152 15 3	4,924 - 8 6,528 3 6	Completed 1840-47	Width, 12 feet, with 22 bridges and drains. Width, 12 feet, with wooden bridges
Datoka.	CONTRACT DEGULECES.		.51		10 Mil	. 4 18	and drains. The saving of Re. 1,875. 14. 3. on the estimate has been effected by the reduction of rates.
	CENTICAL PROVINCES: Metalling of such portions as, from the nature of the soil, may require the construction of a hard	Length of road, 13 miles 4 furlongs; ac- grogate length requir-		· ·	6,479 15 -		
* **	artificial surface.	ing to be metalled, 6 miles 4 furlongs and 6 yards. Sanc- tloved 12th January	,		ga s	900	
*	N 000	1648.	*				N 2

					. *						848						120 8
	Agra and Bomkay Road :				1							1		Ŧ	y N	134	
98	Construction of Bridges over	[Sanctioned 9th	In the Province	1 746		For brid	ge ov	er the ?	1 000		5	1, 9	- xe - 3	*	8	A 23
-1	the Bubbookee Nuddee and		September 1849.	of Malwa.	*,***	0 41				1,002	W B		pleted season	Both	bridges are	on the t	erritory of
•	the Bhowkerie Nuddec.	20 20 20 20 20 20 20 20 20 20 20 20 20 2			1,466	19 9	For bric	ige ov	er the }	1,597		7 1840-5	iO,	the Mah	arajah Scin	din.	72
•	Construction of a Bridge over	The construction of this bridge	To consist of one	The Nullah eroses	1		Bhowke	LTG 13		62 -		1	94	7-41			
1	the Maddy Nullah,	is necessary, and is considered to	arch of 24 feet span.	the male road about	100			- [2,0	-	511			of Holka	e territory	or the	Maharajah
10		come within the scope of the ori-	Sanctioned loth Octo-	one mile north of the			04 02	-	**	•		١.) or moral			
79 g	No. 7	ginal intentions in regard to the	ber 1849.	Residency at Indore.			*	- 1				1	37	į .	10		\$1. \$0. \$ 1 .00
	Construction of a Bridge over	Agra and Bombay Road Commenced under instructions					5000	1		-22	1.50	1 '	\$7 096	P		* 3 8	E
	the Minow Nullah.	from the Lientenant-governor, by	The bridge is of one arch, 12 feet span.	Ou the Agra and Bombay Road.		799	3 5 }		9.0	172 -			-	1	6 8 3	*	D 0
		whom it is considered desirable	Sanctioned 28th Oc-	Doniedy Mode.	200	8		- 1	19	98 20	200					4 E 5	
		to bridge over as many of the	tober 1848.		F 19				29		. 15				Share and	8 5	1
	and the second second	small muddy nullaha as may be			l	20	5 8	1		- 12	33.5	2. 3	tra tra	8	N.	7.5	
	и ж 15	practicable, which abound on this	road, and materially of	struct all		98		. In					0	8.8	No a		
88	S 20 100 0 W	traffic, and to improve the fords wi	deh gross the rocky beds	of rivers.		20		- 1	20, 50	200			8.8	8 922 02	1	- # h	*
80	Ford on the Parbutty River -	To provide for a passage for	Sanctioned 6th	I W. es. Theres.	١.,			- 1		0.00			(25) (10)		6.0		
	200	wheel carriages across the Par-	September 1849.	TAGEL DELEME		010,9	9 9 4	- 1	-		7	Complet	ed - ·	This to b	e a pared	ford.	
	W E STATE OF THE S	butty River on the general level			l		arg Y	- 1	260	77 15			, 988				× p
•	Mark Company	of the channel during the dry	and a	9 5 85	•		•	.			•		ā.			N 4.	. 5
	Company at law of a Palders are as	season only.						- 1		Here a					Sec. 2.		as as at
	Construction of a Bridge over the Muddy Nullah.	Considered necessary for a fair-	The bridge to be of	At Chuper Kajhora -	-		•	- 1	4,1	167					W. St.		
	and manay training	WonLines stongs	one arch of 30 feet span. Sanctioned 4th		ł			- 1	72.0 A2			.90			100	100	A. 4
-			February 1850,				39	- 1				1	6.8	į.	2 9 10	200	
	Construction of a Bridge over	With a view to make the line	The second secon	- At Dolterin, be-				- 1			427	194		1 .			" men
	the Muddy Nullah.	of sommunication more perfect.	seven srches of six			,477	8 64		1,7	11 18	· p		• •	n the te	erritory of	he Rajg	urh Reja.
_	A		feet span each. Sane-	Puchore.			20			- 8				11121	- 2		
O,	lavoro e tel ajo	•	tioned 3d December		3						50		e i	i	2		
			1848.		-		34	- 1	,			1		1			
	Construction of Bridges over	ditto ditto	One bridge of two	Over the Boranna.	l _	_ :		- 1		06 -	10	1		1		2 4	1 10 40 1140
17	the Muddy Nullah,		arches, sight feet span:	the Par Muddy, and	"	-6		- I	-,,	-	•4		T :	1	3 2 6		1.78
100		one bridge of three a	ches, seven feet span ;	Belloda Village Nul-			14.	- 1	12.0	24	- 10	1 : 0	C STATES	1 .	6. 40 W	•	200
	n at v u b	One bridge of eleven	arches, six feet span.	lahs.				- 1				1			age Y se	0 _ V	
		. Banctioned 12th Bepte	moer 1840.			1.00	52									E -	10 970
	Construction of a Bridge over		This bridge is of	- > Crosses the main				_		168 -		1 .	22	3 0 0		٠,	
	the Kukooba Jheel.		three arches each, of	road about 74 miles				- 1		W. C.		1	199		50 IO N	•	
	(d) If y		7 & fest spac. Sang-	south of Agra,		.500	8.2	- 1	9 33	- 64				100	7		
×			tioned 4th April 1860.		*	***		1			55	328 -8	1847 - 21			8 946	90 20
	Construction of a Bridge over		This bridge is of	Crosses the main				. 1	1.5	338 -	75 249			In the to	rritory of	Mahawata	h Saindia
	the Gudla Muddy Nullah.	a and	six bays, each four	road between Sossam	2776 5				,.			- TO 10	5 7/20 10 /7			aren el d	n Demuin.
8			feet wide. Sanctioned	and Gohar.	28		2 . 9					1	43	4.5			
ě			25th March 1850.	1	10			. 1			797	1.0		, ° v		477	81
60	ROADS AND BRIDGES,	NORTH-WESTERN PROVINCE	:B:		2.00	19					200	2 70 -			E a	- 3	
. 4	gra Strand: Bridging of		Sanctioned 1848-49.	Agra	7	,010 1	s -		9.6	20 7	1	- " Com	pleted seasor		- 24	•	B
2 3	drains on the.				•				-,-			1849-43		1	100		20 60
	Igra Bridge: Over the Doors-	On secount of the inconve-	Sanctioned 7th			910		1	7 1	13 9	1 2	Car	pleted sessor	1			
20.00	kar Barine.	nience experienced by the public,	December 1840,		50.	210	0 Val 20		-,1			1841-42		1		-	
	. 1	who have occasion to pass by the				n enter te		- 1	20 10 70	9 %	1		Serie Statut 1	1			
		bridge and bazar near the Tripo-					100440	- 1	4	181	12		• •	1	10 108 (21 10% 5		
		lish vid Canzepara, owing to there being but one parrow con-			8		5.	- 1				1					- F (4 8)
- 2	70 O. 34 O.	fined road at this entrance of the	a CONSTRUCTO			630		- 1	E 22	65 B	1 1TR 1 350	1 *	8 E 8 2				= 3
		town.	5 N R 18 (50°	1874	55	28								1			
								- 1				1		E .			
070 %	· · · · · · · · · · · · · · · · · · ·	in the state of th	. J. 1981 Mar 1	10 to 10 to 10 to 10	1 . 5	- 90	**	•	1	38		1	F	9		tem	tinued)

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount Jof Expense Incurred.	Betimated Amount for Completion,	Probable Time of Completion.	RRMARKS.
ROADS AND BRIDGES Agra to Mynpooree: Construction of Bridges over the Jhern River and Gudda-	NORTH-WESTERN PROVINCES - This road is of much impor-	continued. Sanctioned 1840-41 -		Re. a. p. Bridge over the Jhera 7,063 8 6	Rs. a. p. 19,017 12 5	Completed season 1842-43.	
khur Ravine, and over the Peclakar Rivulet.	tion between Agra and Futtyghur.	5		Ditto over the PoelakarRivulet5,151 10 -	38 i S 8 j		×
	e, e s	06 (hara saabaa	Crossing the Agra	Rs. 12,215 2 6	99994 0 8 5	Completed server	
Construction of a Bridge over the Urind Nuddes.	processing of the contract of	- Of three arches of 40 feet span, Sanc- tioned 3d January 1845.	and Mynpoorea Road, 15 miles from Myn- pooree, at the villaga of Kulhore.	17,011 - 1	23,874 3 7	Completed season 1846-47.	- The savings on the sanctioned esti- mates, vis., Rs. 6,803. S. 6., and Rs. 10,681. 15. 8. respectively, are owing to much of the masonry work having been dispensed with, in conse-
Construction of a Bridge over the Singar Ruliah. Agra and Bombay Road:	and the two arches on spectively. Sanctions		Crossing the Agra and Mynpooree Road, 23 miles from Myn- pooree, at the village of Nrown.	22,951 5 7	83,633 5 9)	e di a	quence of the soil being more favour- able than was originally expected, and to other judicious deviations from the plan. A reduction of rates has also contributed in affecting these savings.
To the Nerbudda River (See Paras. 13 to 17 of Court's Despatch, 30th Ja- noary 1850, at page 148 of Parliamentary Return, No. (922, of 1851.)	- A fair weather road adapted for backeries or wheel conveyances, being much required between Agra and Bombay, it was determined in 1840 to improve, with occasional diversion, the existing road; the improvement was to comprise the removal of the principal obstructions in the glauts, Jungles, and in the passage of sivers and nullahs, or mountain streams.	Length, 1st portion: Agra to Indore - 3 Length, 2d portion: Indore to Akberpore on the Nerbodda - Length, 3d portion: Akberpore to Sindwa, Length, 4th portion: Sindwa to Bombay 2 TOTAL - 7 Commenced in 1840,	5e. f2. yde. 70 8 102 51 0 107 43 1 0	The expenditure within the Bengal Division to November 1847 is stated as follows; viz., Rs. New work of road, 1,94,310 Superintendence, 1,13,108 Repairs, &c 47,543 - 3,54,958 The sum expended on two divisions of the road within the Bombay Presidency to Soth April 1848, exclusive of repairs, was - 9,74,811 There has also been a further sum sanctioned for various useful purposes of about 7,000 Making 8 Total of \$\frac{1}{2}\$ Rs. 13,30,709	the rainy sear to an improve new lines whis sanctioned an establishment River and Su 76 § miles; seroad from Su 10 to 14 feet 1848 with a v thig great line the following tion, viz.: For the rep For complet gincer, a For bridgin Dhoolia For complet	on, the Government ha ment of the existing ro h had been proposed. estimate of 1,20,000 ru, for improving the wors pires, 115 i miles; and as to be practicable in present of Gwalior. An issue to undertaking the in of road as urgently requestimates were submitted at rof about 20 miles of this part of the road und distance of 93 miles, wing a portion of the roading the unmetalled porting the unmetalled porting the unmetalled portion and the second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading the unmetalled portions are second control of the roading	ter charge of the Civil Eu- th bridges and drains 2,46,514 ad between Sconghur and 65,000 ion of the line in Kandeish 8,00,000 Total Re. 7,11,514
			l N	anctioned in June 1840 for con	nverting into a fair-weat ar having contributed	her road the line of 43 r a molety. The Court,	n at present. A som of 4,224 rupees was niles in length, between Scindwa and the in January 1850, sanctioned the annual al Presidency.

Construction of a well at the top of the Kilner (Gara)	On a representation from the Resident at Indore of the very serious inconvenience experienced by troops and travellers from the want of water at that apot.	Sanctioned sonson 1845-46.	- Between Doodat and Akbarpore.	504 14 6		- Completed season 1846-47.	
Agra: Proposed construction of a Suspension Bridge over the River Jumna.			Agra		{ 5,09,978 }	- The first estimate is for a bridge of two spans of 500 feet each, with two half spans of 325 feet each, and a road way 35 feet broad, supported by three	
					estimates, tog were held ov the fullure of	ther, with the same openings, supported by two chains. These returns with others on the taper chain, or Dredgian principle or, awaiting a report of a special committee on the causes of the Balli Khall Bridge on the Dredgian principle. Subthern revealings the construction of bridges on the Language recognition of the construction of the language recognitions.	PAPE
					THE I WHY DELORS	adgian principle, was generally prohibited by the Home Authorstands for a mesoury bridge was then submitted, but the overnor being doubtful whether the same site would suit as as would be selected for the ordinary traffic of the country of any ulterior proceedings. The proper site for a railron supposed, would approach Agra by Ferosabad, two marchs	; z
CIVIL BUILDINGS, BOY	UTH BASTERN PROVINCES—)	UDICIAL:					LING
Construction of a Cutcherry -	To replace the existing cut- cherry, not worth repairing.	Sauctioned 1st August 1839.	Akyub	4,869 8 5		Completed season 1841-43.	To
Construction of a new Gool -	To replace old buildings which are unserviceable and unworthy of repair.	Sanctioned 23di Murch 1641.	Akyah	12,150 9 4		Completed season 1843-44 The new gaol is equal to the account modation of 320 prisoners.	PUBLIC
Construction of a fanitarium Bungulow, with bathing rooms and out-offices.	It is not stated for whose use the building is designed.	Sanctioned 9th January 1838.	Situated at the end of the Farques's Rocks, two miles from the station of Akyab.	4,819 9 10		- Constructed in 1840-41.	
Construction of a Treasury		- Sanctioned 19th October 1841.	Akyab	6,741 15 8	6,414 15 9	Completed season 1843-44.	WORKS
Record Hoom, malkansh, and eash-room, at the civil station.		October 1041.					(AIDINI)
Amheret: Construction of a new Geol at.	In consequence of the insuffi- cient assummodution afforded by the existing gaol.	- Sanctioned 11th Junuary 1842.	Amherst	8,446 4 4		Completed season The guel is intended for the accommodation of 280 convicts. The diffusion is owing to the amployment convicts, and to a reduction of the se	
			* * * * *			emmodation, with the concurrence the commissioners. The dimension sanctioned were \$40 \times 0, while thus of the new gani are 157 \times 48.	
Allipore Gaol: Construction of a Berrack and a Picket Shed.	For the gaol guard. The old guard-rooms were partly blown down by the storm of 3d June	Sanctioned 9th January 1843.	Allipore	6,404 12 1		Completed season accommodation of 211 mon. The wall will be of measury, and the roots of	ls .
	1842.			F " AA "	k	tiles. (continued	o ≃

No. 6 STATEMENT compiled from the Reports of the	he Military Board at Bengal, from Season	1839-40, to 1850-51 inclusive -continued.
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NAME OF WORK.	Object of Construction.	Length, spd Date of Commencement,	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
. Civil Buildings, Souts	RASTERN PROVINCES-JUDICIA	z-continued.	3	Rs. a. p.	Rs. a. p.		and and the states
kyab: Construction of a Gaol Wall, with Sentry-boxes.	In consequence of a suggestion by the Commissioners of Arracan	- Sanctioned 17th May 1838.	Akyab	9,100 14 2		Season 1898-39.	
	that all men sentenced to more than one year's imprisonment should be located at Akyab.		em žija				
Construction of Wards within the above Guel Wall	The existing gaol buildings have become old, and unworthy of further repair.	Sanctioned season 1840-41.	ditto	14,302 7 1	14,369 7 1	Completed season 1840-41.	- The new wards will accommodate 120 prisoners.
Construction of a Sudder Hos- pital at.	- Rendered necessary by the existence of a military police; the flotilla establishment, crews of vessels, &c., all requiring medical	Sanctioned 6th February 1843.	ditto	1,703 1 -	1,397 11 9	Completed season 1844-45.	> - The new hospital will be 60 × 24 with a 10 feet verendah all round, the corners of which are to be partitioned off into separate rooms for the native
e	aid, in consequence of the insa- lubrity of the climate, as well as the ruinous condition of the old hospital.	as y ext	e e e	e ^{lec} e 8 on			ductor, dispensary, and operating room
ipore Gool: Alterations and improvements to.	To improve the gaol, as regards cleanliness, salubrity, and discipline.	June 1841.	Allipore	20,734 13 10	22,377 15 8	- Completed season 1843-44.	
vab: enstruction of six Drain Bridges.	Necessary to the cleanliness and salubrity of the town.	- Of one arch of six fest, sanctioned 20th August 1845.	On the Chowreggya road.	1,043 . 5 8	9,202	Completed season 1846-47.	
Construction of a Bridge at		One arch of 20 feet	Akyab		6,313		
onstruction of a Bridge at Nazirpah.	- Required to replace bridges of wood, reported to be ussafe for wheel carriages; and as the line	Twenty-four feet span	ditto		4,998		
20 E	of road on which they are all unted is considered the most important at Akyah, it is considered that they should be of the most durable	•	* * * * * * *	*			
s. He.	description.		1800 (c	9 * .	-,		and a grade of
ipore Gaol; Putting up a	- For raising water from the large tank in the gaol to the re- servoir above it, to supply the different wards with dripking	Sanctioned 20th August 1845.	'Allipore - ,	40 8 *	402 0 -	Completed season 1846-47.	
	water.	· K					
yab: Construction of the Budder Mokam Stone Sluice.	- This sluice, together with the bund at Akyah, was destroyed by a storm on the 15th May 1842.	Sanctioned 28th May 1845.	Akyab	1,783 15 8	1,789 15 8	Completed scason 1846-47.	- The roadway over the sluice heen made sufficiently large to be sa and practicable for wheel conveyance.
×				7			The reconstruction of the band we reported in 1844.

2 x	I	18	14.14		1					2 U		The second of th
Alpere Gael:			# T		1			- 1	. 22	- Ser _ *	3 P. S.	a , B
Alterations and improvements	To improve the gool as we aids	Benefitmed 92d	Ailtpore -	ā 6	1	20,734 1	8 10	•	28,877 1	5 9	Completed season	The works sanctioned are as follows :
	cleanitness, salabrity, and disci-		* A					- 1		100	1848-44.	The construction of equeducts to earry
m A	pline.		ľ		1	(2)		- 1		1924		water to the reservoirs in the several
2.5		l a s		20	1		×	- 1		# 87A	1 2 9	court yards, for drinking and other pur-
73a . a g					1			ŧ	V W	ā	147 g	poses; the construction of privies; the
, #0, J	, St. 7				1			- 1				filling up of wells; the construction of
			100	2000	1		- 20	- 1				partition walls with a view to the sepa-
2 E E				91		9" A.	. 3	. 1		4,3		ration of the convicts into squade of
A 3	W 0		and a			74	ā.	·				about 100 men; the removal of the ex-
3		ay S e	\$ 5 A	390	1	104	5	- 1	1 pp 4 ees			isting solitary cells to a more airy site,
	talia la			0.0	.00	2 2	60	. I				and the construction of an adult ional
78 T		a common and	. 72 7.	W 40 W	9/10			`		10		ward and working shed.
· · · · · · · · · · · · · · · · · · ·	Nagras Maria Basa Sa		2000		1		100	- 1		_ 20 1		
Construction of a Balagustes	This building will be of more	Manchioned WCd	Allipore -		100	609	-	18	606	* -	Completed season	
Guard-room to the.	durable materials than the let.	June 1845.		93541	1				100		1645-46.	
s 75	which has been entirely descroyed	f te				*		- 1		a 3	es u pe d'	*
4 W V	by white ante.	o• i'arta a"∵	28.		100		AN N			(0.14)	for any a co	
				382 34	1	51	30 (0.0)	* I	V 4	10		
Laund: Additions and nitera-	For the better accommodation	Sanctioned Ski	Akyab -		-			1	2,306	9 8		This building has been lengthened
tions to the Catcherry at.	of the different civil officers.	June 1844.		167			3	- 1	r versonalitis /			about 40 feet.
					1	8 8	1000	. 1	4.0	en 2	Brance AND	The same a series
		- Breatland Post	Allayers -		ł	953	5 8				Completed season	Additions and alterations to the cut-
Illipora Gaol: Construction of	These works were undertaken	Canciloned 20th	without .		1	200		- 1	Earl S	T	1849-60.	charry steel were also effected.
a Retiring-room, with Anti-	under a representation from the	h ay 18 is.	200		1.			- 1	S 8 8		1000-00	
room, to the Catcherry of the	additional Session Judge of their	* * * * * :			1 ~	• .		. 1	~ *		la rest	
additional Judge.	Accounty.				1	I		- 1	5 To 100			
1					1			- 1				
Ultpore:	1.0	v 1 1 1			ļ	8 W	- 10	_ 1		_ 1_		±10°
Renewing the Boof of the Se-	In Hea of the old roof, era-	Sanctirmed 20th.	Attipore -		-		•	• 1	2,302	18	_	
poy Guard-room.	deraged by a committee.	Jupe 16-0.	*		1	92 07	S. (m)		\$	8 3	I	
			Σ] 0.400 ±0. Ω = 0.000		1		(A)	- 1				
Alterations and Additions to	Under a representation from	Sanctioned 18th	Allipore -					- 1	9,084	- 1		The superintendent observed, that in
the Gaul Hospital.	the superintendent of the gai, of	Notaber Holds			1			1			Programme and the second	the large gaol at Allipore the different
the Chart Inspired,	the perestiv for a better classic			X	I	81.81	alla se e	- 1	12	1987	and the second	kinds of prisoners are kept as distinct as
	fication of the patients.		F 17 187	200	1	8 8 2		1				can be; but in the hospital all the above
	neation of the batteres.	N N NOT		31	1	x 2		- 1	5000			classes, from the most atrocious and
		" " " " " " " " " " " " " " " " " " "		9. 80	10			- 1				desperate convicted felon to the respec-
			12		i	00.00		1				table freeman, male or female, are min-
n 2 2 " "					1	8		- 1		f		gled together.
E. 2010 S. C.	1.325,7 3	* * * _e .	i i		1		(9)	· 1			10	The second of th
CIVIL BUILDINGS, LOV	AER BROAINCES-10DICITY,				1	~1		٠ 1	T _M			
rrah : Sadder Ameen's Cut-		. G. O. 23d January	Airah -		1	1,550		- 1		- "	Beason 1839-40.	
chefry.		1800.			4		and an	- 1				
2-1-X.		2 m		•	1	78			2.			
		and Sandra and	41	122 13		4,742	_					
hyab: Construction of a Cut-		Separtioned 1st	Alyau -		1	-,	TO 100	3				
oherry at		Angunt tooth			1			. 1	25 1	F14		
, was the second and the second	rag se ja		0.50 *0.000000	. m	1	A 40E -		4	1010		Description of the second second	
rrah : Construction of a De-	No separate provision had been	Functioned let	Arreh -			3,437	2 7	- 4	4,640 1	0 4	Completed season	
wanny or Civil GanL	made for the confinement of chil	N symptom 1549.					27	1	272	5.5	1844-46.	tlon of the Judge, separate accommoda-
	prisoners, and, in consemence,				1 .		g# = 6 _a	. 1	94.			tion is provided for prisoners of rank
	persons of this class were and		10		1	3.		1				and casts.
U B R C (#5)	up with the common felons. the	e**=	2 P	F-12 8	1	4.0	7.000	- 1	particular w	270		The common tenth and the common tenth of
	gaol.		20	8	7	8 v	80 50		1 3 3	100 10	N _ 108 N _ 1480	The second second second
		ж 							1.0			. 2
rrah Gant : Construction of	For the better ventilation	Sanctioned 17th	Arreh -		1	402	7 10	- 1	419	4 8	Beason 1848-49.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	the criminal wards.	direct lost.			1			- 1				ta saran anatan
Compound Wails.				- 1			F 3		5 50 55	6 5 50	🜓 i suktura "	
	A 12 13	20	10					- 1			1	(continued)

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK.	Object of Construction.	Leneth, and Date of Commencement,	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, CE	STRAL PROTENCES -JPDICIA	L:	E 2.8	. Rt. a. p.	Rt. c. p.		
Allah west : Bulder America. Conducty.		August 1804	Allahabad	1,273 G B	1,579 8 -	Completed season 1841-42	A STATE OF THE STA
djewere Good; Alberations to the		Paceruler 1840.	Ajmere	1,700	1,700	Season 1840-41.	· · · · · · · · · · · · · · · · · · ·
Aring for: Construction of a linear t Room.	For the use of the Collectur and Maristrate.	Sanctioned 25d March 1844.		2,225 7 9	2,238 6 9	Completed season 1846-47.	-
411 thet ail. Censtruction of an additional Bloom to the Judge's Cutch way.	- For the accommodation of the records.	Sancta and 7th January 1s. 1.	Alinhabad		1,098 4 g		The necessity for this additional accommodation was pointed out by the local civil anthority.
CIVIL BUILDE'GS, NO	RTH-WESTFRY PROVINCES-	JUDICIAL:		26			to any endination of particles to a
Admine Grale Construction near administral Wards	In consequence of the lastifi- ciency of space in the good.	Sanctioned 30th August 1541.		1,484 4 10		Constructed sea-	روس میں اور
1,77a ;			[n = 1	* 94 · 5	a Alba		
E cree for the Magistrate and Leiderton, and his Laputy.	The house which had been rented was so hoper in a fix state for a public office.	Sanctioned 11th September 1842.	Agra		11,050 15 0	Season 1842-49.	
Fraction of Offices for the Court of Sudder Demanny.		Sauctioned April 1843.		20,309 9 8	17,601	Completed season 1844-45.	- These new offices will be built ner the Secretariat Buildings, and the whole of the public buildings will be enclosed by a low wall.
Freetien of life as for the limited of Herenius.		Sauctioned April 1845,			11,007		The excess of expenditure is owin to a rise in the price of timber in th baxsar.
Construction of a Hospital Ward at the Fonjdarry Carl.		Sauctioned 4th November 1843.	Agra	B49 8 7	009 13 9	Constructed sea- son 1843-44.	The necessity for this work was reported direct by the civil authorities to the Government.
Deglers: Construction of a -	To televa the district goal, by the withdrawal of life prisoners, and to lessen the expense for in-	Sanctioned 2d March 1844.	Allyghur	These works suspended in season 1844-45.	66,089 1 -		- This gaol is intended to accommodat 1,200 male and 200 female convicts. The whole of the buildings are to be sur
and a second	ereased goards for the custody of	# **	N° a F				rounded by a ditch 14 feet broad and I feet deep, with a pucka wall 14 feet bligh in the centre. The slopes are t
					•		be secured with masonry revetment and the bottom of the ditch and a fer feet of the bottom of the slope to h
a as g			* *			3 SE SE	substantially faced with masonry, an the ditch to be made considerably wide at top.
Apres Construction of a Court	For the Sessions Judge	Sanctioned Ad James 1844	Agra	6,436 10 -	8,558 12 9	Completed season 1846-47.	
MATRICETATO ZI	i .	1 1110	1 - 100 - 1			1040-17	

			1		r ·	1 1 -	y so s
Allyghur Construction of Cut- cherries for the Sudder America and Omlehs.	- During the last rains the old buildings became too dilapi- dated for use.	Sanctioned 25th Merch 1846.	Allyghar	9,355 13 10	3,008	Completed season 1846-47.	
CIVIL BUILDINGS, SOU	TH-EASTERN PROVINCES-R	EVENUE:					
Ahyab: Additions and Alters- tions to the Tressury and Record-room.		Sanctioned 9th September 1844.	Akyab	1,625 '-, -	1,625	Completed season 1845-46.	- The works executed consisted of an arcaded puces versadah in lieu of a
CIVIL BUILDINGS CEN	THAL PROVINCES-REVENU						thatched one; additional alterations to doors and windows, and renewing the
Allahabad:	, and the part			18 g 0 175			terrace roof.
Pligrim Hospital, additions to.		20th December 1899	Allahabad	1,475 1 -	1,475 1 -	Completed season	
			2 3 H (8) (2)			1840-41.	
Office of the Sudr Board of Revenue.	 Repair of injury done by storms on the 2d and 3d May 1848. 	18th October 1838 -	- ditto	8,540	8,540 - <u></u>	Completed season 1839-40.	
	1048.	il sits i			A.S		
Construction of four Tehsil- darry Cutcherries.		August 1840.	- These entcherries are situated at Men- jah Chail, Kurchun-	19,819 4 6	20,423 2 4	Completed season 1842-43.	
			na, and Munjetrpore.				
Azimgurh: Construction of a Tubuildarry Cutcherry.		Sanctioned 31st March 1838.	At Cheerkote	5,750 - : 4 1		Completed season 1841-42.	-
Allahabad: Construction of a Treasury Room to the late Judges' Cutcherry.	- This cutcherry has been trans- ferred to the Collector of Allaha- bad-	Sanctioned 27th March 1947.	Allababad	• • • •	3,869		
j	e cas me v. me p c			. • • · ·			
Agra:	TH WESTERN PROVINCES	REVENUE:					
Construction of a Cutcherry for the Commissioner of the Division,		Sanctioned 11th August 1846.	Agra	9,561 6 -	10,573	Completed season 1846-47.	-
Addition of Outbuildings to							and the second second second
the Cutcherry of the Com-	- Consisting of a guard-house, godown, and shed.	The necessity for these works was brought to the notice	- ditto	1,206. 5 7,	1,533 - 8	Completed season 1847-46.	* * * * - * - * * * * * * * * * * * * * * * * *
		of the Lieutenant-		4	Eq. Non-control	30 K 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	**********	governor, who at once directed the execu-		E			
		tive officer to com-			Caracter discussion of a	a mass some process as	
	new years set in the page	mence on the build-		· ·			
Allyghur: Construction of a Tcheikiarry Cutcherry at Eg- lass.	The Tebell duties have been carried on with much inconveni-	- Sanctioned 7th July 1843.	Eglass		4,092 12 6	7	
	ence at the Sudder Station, which is a distance of 15 miles.						
10 10 Page 10 10 10 10 10 10 10 10 10 10 10 10 10		, ,					
Akyab : Enclosure of the Burial	TH BASTERN PROVINCES—G				1 00r 10 B		
Ground.		Sanctioned 16th May 1842,			1,985 12 8		
Allipore:	A P. T. T. T. T. T.	7			The state of the s		
Removing and setting up a Steam-engine in the Iron	- This engine, which has been transferred from Chaund Paul Chaut, is of 10 horse-power.	- Sanctioned 23d October 1813.	Allipore	7,249	7,029	Completed season 1844-45,	
	Cuant, a or in noise-howet.		EN morte s a [் கழ் நெரிய சருவங்கள ு வ	I service to deep	د چې د بخا	(continued)

No. C. STATEMENT compiled from the Reports of the Military	Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.
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NAME OF WORK.	Object of Construction.	Length, and Data of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, B	OUTH-EASTERN PROVINCES-GR	 ERAL—continued.		Re. a. p.	Rs. a. p.		
lipore—continued. Construction of new buildings.	For the establishment attach- ed to the Mathematical Instru- ment Department.	Sanctioned 16th January 1844.	Allipore •	- 3,794 19 8	3,794 12 8	Sesson 1843-44.	
Protection of the Beach, and formation of a Landing- place.	The necessity for this work was brought to notice by the Marine Board and the Commis-	Sanctioned 19th June 1643,	Akyab	10,120 - 7	13,868 11 2	1845-46.	- This outlay is to be defrayed from the port dues. The saving on the work is 3,748 rupees, in consequence of 7
	sioner of Arracan.			*	estimate has not	been executed. The a	f 10. The pier provided in the sanctioned bove amount has been placed at the dis- completing the pier or breakwater.
		0		a * o * vo	1 500	Season 1845-46 -	- The shed is to be 66 by 20, with
estructing of a Large Shed with Verandrh, to serve as an Exchange.	 A place of this description is much wanted at Akyab, where merchants, agents, captains, &c. 	Sauctioned 17th November 1845.			1,500	Season 1040-40	a verandah 12 feet on four sides.
	may assemble under shelter from	#	ran rite		_ நடிய நடிய		
nstruction of Three Marine Wells.		- Sanctioned 20th March 1844.	• • • •	767 8 8		Completed season 1845-46.	
pore: ditions, &c. to the Iron Bridge Yard.	For increasing the accomme- dation to afford shelter to the	Sanctioned 27th May 1840.	Allipore	4,269 2 6	4,199	Season 1848-49.	
	carpenters, who at present work in the open air; for English smi- thy coal, to prevent its wantage from wind and rain; and also to provide sufficient space to meet heavy demands.			f a a a a a a a a a a a a a a a a a a a			
sutruction and setting up of in additional boiler to the Steam-engine at the Iron Bridge Yard.	Necessary to secure the effi- ciency of the establishment and prevent delays, which would prove detrimental to the public service.	• • Sanctioned 17th May 1845.	- ditto	8,289 18 9	3,989 15 P	Constructed season 1846-47.	
nherst: Provision of a Pilot Station on the Island off Am- herst.		Sanctioned Octo- ber 1848,	Amheret	487 11 11	500	Reported season 1846-47.	
CIVIL BUILDINGS, LOW	ER PROVINCES GENERAL			* a		30 W	and a second and a
ra: Additions to the Sema*		Sanctioned 12th August 1846.	Akra	575 10 14		Season 1847-48.	
CIVIL BUILDINGS, CEN	TRAL PROVINCES-GENERAL				* *** * * *		
lahabad: Chauton the Jum-		Sanctioned 1839-		6,799 12 -	9,500	Completed 1840-	- The excess over the estimate amount is owing to the execution of
* * * * * * * * * * * * * * * * * * *	* 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 8570 SA		5 422.5	was intended, is mised aid to the	accordance with the sextent of 2,000 rupees t	the work on a more complete plan that dvice of the magistrate, who had pro- owards the undertaking.

	g 2 = 0	== -	. · · · · · · · · · · · · · · · · · · ·	5)		20					0				
	3 9	1	1. 1	1			L			1	ľ.		1		1
20	Agra: Provision of accommo- dation for the Establishment		Sanctioned season 1843-44.	Agra	-	-	[2,611	15 11			• •	Beason 1849	-11.	i m t _g za e
20	with the Governor-general.	A	1843-44.	10	*	-			10 E	1			1		
-	ACCORDANCE OF THE PARTY OF THE			j .			L				3		1	27	
	Alluhabad:			1	- F										
8.	Enlargement of the Burial Ground.	The ground in the existing cutcherry was completely occu- pled with graves, and the burish- place required extension.	Sanctioned 14th February 1848.	Allahabe	ad -			529	2 11		اه .	34 8 5	Complete 1848-49.	d season	
	Landing-place for Goods and		G	1				13607			* 1	08 4 5			In consequence of the increased
140	Passengers, and Apparatus for landing Goods, &c.	Under a representation from the agent Government steamers of the necessity of the works.	Sanctioned 29th December 1849.	Allahabi	ed -	-	-	-	•	•	7,10	JG • •			infine of stores to be sent per bullock train, the steam agency is not at all
					25 - 1	*	l						1		times sufficient to contain the whole of the goods in store. With reference to
		•		in the All	o 80%		l		30		34				the Chant, &c. it is stated that the
					14111	(2)	1	10.00	100				1	3.50	crews of the vessels work much harder
		4					1		122		77	9			than the Bandarries or Coolies, so that with the aid of the machinery and works
		en anticare de la companio del companio de la companio del companio de la companio del companio de la companio de la companio de la companio del companio de la companio del co	A	į.		2	100			- 1	35		1		provided for in this estimate, it is ex-
F.	A SK			1000	r is ¹⁹⁸ ,				;	1	1.4			90 8	pected that a Government vessel may be
			Samuel Marcel		1.0							N			cleared of the largest cargo ever brought to Allahabad in six or eight hours, which
	CIVIL BUILDINGS, NOR	TH-WESTERN PROVINCES-	GENERAL:		2.		1	100			10 H				at present occupies 1 to two days.
	Agra:	mer iz ing 🕶 🙀 izini.	N 2 2 10 6		9	180	1	- 63		- n - 1	,			2	
5	Enclosure of the new Burial		Sacctloned 17th October 1842.	Agra		•	100	586	į				Complete 1848-49,		
	Construction of a Becord	- For the accountant North- Western Provinces.	Sanctioned 6th October 1845.	Agra	• •	-		2,181	10 10			88 – –	Complete 1846-47.		
ឋ ស	Erection of a new Staging Bungalow.	Is lies of the present building, which is not suited for the accom- modation of travellers.	Sanctioned 14th August 1845.	Agra _	• ;	8		1,756	5 B		2,10		Complete 1846-47.	d season	
	Construction of a Post Office	At the instance of the Post-	Sanctioned 10th	Agra .	. 19 • 3 =			- X	_		2.3	11		y ²⁵	
	and Godowa, with Com-	master-general.	July 1849.		14 1 3 3 3	841		1						`B	the transfer of the second control of the se
	Construction of a Theatre,	. Under orders of the Lieutenant-	Sanctioned 13th	Agra			1-			-	13,8	40 8 ~		• -	The grounds for the preparation of
	with Museum attached, as	governor.	July 1850.	1	- 1		ŀ	71 8				4141	8 10		this estimate were not made known to the Military Board.
	Wing to the College.	g in the	1 N	i.	20	- 66	i				20 Aug	9		*	the ministy Doubt.
	CIVIL BUILDINGS YOU	er provinces—political		1			l	2						9.5	
				1		- 3		391				* * * * * * * * * * * * * * * * * * * *	Season 1840		
	Amam, Upper: Construction of	At Subsaugor: treasury, re-	Sanctioned 3d	Upper A	860TO -	, •ì		* ***			11,9	18 P 9	DOMESTI 1640		S to the state of
***	various Buildings at.	cord room, magazine, with guard room. At Detroghur: record	Wodast 1940'	1		*	l	*;	33.40		8.5	artie i	1		The second secon
	and a v	rooms, treasury, powder mage-		1		3	l			9 Sec. 36	0 0 4	101. 101.		94	
	, P	zine, store room.	k		8					9			I		
	CIVIT. BHYLDINGS CON	TRAL PROVINCES-POLITIC		1								Sec. 01	1 .		I'm a harmonia
	S STATE POLICE THE CEN	The Provinces—Politic	4 1.	1		•		92 B	65	# 10				550	
8	Ajmere: Construction of Residency Buildings.		Sanctioned Slat August 1840.	: :		•		1,024	3 5		3,10	60 15 11	Complete 1841-42.	ed senson	The manner of the second
128	CIVIL BUILDINGS, NOR	TH-WESTERN PROVINCES—I	OLITICAL:	ļ			020 E	400		9.6		and the	or stance t	MMI E	3
	Agra: Construction of addl-	For the accommodation of the	- Sanctioned 1943	Aura		-	1	2.720	9 10				- Constructe	d season	The new record room measures 30
	tional Buildings.	records of the office of the Secre-	February 1846.	~B.u	F-10	: <u></u>		4,100	• .0				1846-47,	200	by 15 feet, with two side and one end verandah, 10 feet in the clear.

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

		,	,			<u> </u>	
NA 1E OF WORK	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Retimated Amount for Completion.	Probable Time of Completion.	REMARKS.
MAIJIE BUILDINGS,				Rs. a. p.	Re. a. p. 33,425 8 7		
Abyab: Construction of a Lighth-ness on the Great Bavage Hock.		Sanctioned 9th November 1842.		Cost of Light- house - 33,587 10 4 Buildings at-	The cost will be de- frayed from the funds	Completed, season 1843-44.	- Thirty-five feet of the rock down- wards has been removed, and a base thus obtained for the superstructure
		et s		tached - 1,501 9 6 Lantern - 15,000	of the port, which are believed to amount to 20,000 or 30,000 ra- pees. The lantern to		The rock is now 49 ½ feet above high water mark, and the lighthouse will be raised to the height of 50 ½ feet, so that
1				Rs. 50,089 3 10	be used, which is va- ited at about 21,000 rupees, will be sup-	in the second	it will be 100 feet above the highest spring-tides. The lantern was lighted on the 7th March 1844.
FUB BELIEFE COUNTY	I-WESTERN PROVINCES:	# #	¥(6 t)		plied from the marine stores in Calcutta.	841 941 841 44	
EMBANKHENIS, SOULE Burdwan Division:		i elies Consultation	gen g				
Restoration of the Kaunes Khal Bunds.		Sanctioned 15th July 1841.	Burdwan		1,075 12	Season 1841-49 -	The length of embankments in th Burdwan Division is represented, i 1839-40, to be 285 miles, and the est
And the state of t		a ²⁷			Set con-	·	mated cost of annual repairs, 4,61 rupces.
New Bund on the Adjye River.	To prevent injuries to lands by the overflows of the river.	Canctioned 1841-42		1,884 11 -		Completed season 1841-42.	
EMBARKMENTS, SOUTH	I-BASTERN PROVINCES:		60 (0.00) 40 (0.00)	ers, see			
Bogree: Construction of a new Bood on the Selin River.	To replace the old bunds, which were premounced to be quite in- susceptible of efficient repair.	- Length, 10,400 feet; sanctioned season 1843-44.	Bogree Pergunnah -	2,437 14 1		Completed season 1843-44.	- It is expected that about 844 begans of land will be fertilised.
Jiurducan: Construction of a new line of Bund from Salal- pore to the Cauna Nuddee, and repeirs and renawals to the Burdwan Bunds generally.	The new bund is proposed for construction at a point where the old one has frequently failed, causing great damage to the country.	- Length of new bund, four miles; sanctioned season 1847-48-49.	Bardwag		72,176 12 9 16,469 88,645 12 9		
Burdacin Funds; Repair of a breach a: the Ragulpore Bund.	This bund was breached during the floods of 1848, nearly opposite to Burdwan, at a point where the whole force of the Damoodsh acts upon it.	Sanctioned season 1848-49.	Near Bardwan -	7,291 .7 10		Completed 1849 -	The length of the new dobundy i 11,600 feet; the centre has an averag height of 16 feet; it is 14 feet broad and has slopes of four to one and thre to one. The ends, which are not ex posed to the force of the river, 9,100
160 ± 160 ±	2						feet in length, have a height of 10 feet and a crest of 8 feet.
Balasore Di vision: Construc- tion of new Bunds, and re- storation of others which had been abandoned.	- Required for the protection of the estate Mouzah Shideeah, Per- gunnah Soculut.	- Sanctioned January 1844.			*230 – –	Season 1843-44 •	- The average length of embankment in 1839-40, in the Balasore Division was estimated at 185 miles, and the cost of annual repairs, 1,665 rupees
				* 0 000			In 1847-48, the estimate for annua repairs was Rs. 7,097. 13. 9.

	***	921 921	3.10					• 6, a 140
	t are researched			1 7			(4.)	a a ge
2	EMBANEMENTS, LOWE	R PROVINCES:		ļ			9	SE STANDARD WAS THE SHAW WHEN EXPENDED
CO	Berhampure Birision : Bunds	() by the part and the first	Length, about 74					The cost of annual repairs
	at Moorsher shad.		miles.			A 5 ×		1850-51, amounted to 4,724 rupees
			d.				mi	
	Danleah Burds: New Band	For the protection of the town -	Length two miles,			4,111	- This work is in progress.	· -
	from Huntar shad to Banleah		one furlong, and 160	Too as .		E	progress.	The state of the s
	Ghaut.		yards, sanctioned 6th February 1840; 3,100	1 m + * * * 1		1	A	
		lite treat its	feet additional sano-	l	in e gi			
	N 1960 12 12 12 12 12 12 12 12 12 12 12 12 12		tioned Decamber 1840		84 B 14	1,337	Completed 1841-	Rr. 1.279. 14. 1 1. less than
		N 19 1 1	10000		0. 5 12	1,002	42	original estimate, owing to the
		Da exercic						ployment of convicts on the work.
	Buxes Bund : Construction of	To prevent influx of the	Sanctioned 22d	At the village of		2,223 10 3		The west end of the Bund was to
	a Bluice Bridge at the	waters of the Ganges.	February 1850.	Chooter Bogree, Al-			2.7	detached from the high ground,
2 8	western and of this Band.		for the receiped	lababad	la parte l		i ene eni	which it ought to be connected,
2			75		l .	Programme and the second secon	V DOST 10 DE VE	the waters of the Ganges run un hollow many hundred feet in res
				of .	, es		A 11 No.	hollow many hundred feet in res
	EMBANKMENTS, CENTE	RAL PROVINCES:		l .				the left flank of the Bund.
		To protect the country on the	Sanctioned season	1	14414	9.155 2 7	Completed 1840-41	- The great excess of expend
	struction of.	Western Channel from inunda-	1838-89.	Behar	12,218 Estimate for ordinary re-	9,100 2 7	Combines toan-17	beyond the estimate, was occasione
20		tima.	1000 00.		pairs, 1,500 rupess.	l	' in the	Lieutenant Ommaney not makin
2	d in and the second		8	• • • •	patra, t,000 rapeas.			sufficient allowance, for the great
200	After the second of the	* . *	A 145				1	tance from which the earth had t
10	a meren a a mi			,	9.7			brought. The bund has fully ausw
2 0		AND DOMESTICS		***		-	3	the purposes for which it has been
		The Property of Land 1.	l is general					constructed, and the collector as
	· CANALS, NORTH-WEST	ERN PROVINCES:					1	pates no difficulty in realising from Zemindars the amount expended.
			R *G G	E	5 3			Zemindars the amount expensed.
-	Besjapore:	For the irrigation of land	Sanctioned 1638-59	Deyrah Dhoon -	15,926 14 7		Completed 1840-41	
·	Dhoon.	lying between the Tonse, the	Saudrania 1000-09	Delter Dione -	10,020 14 1		Compressi 1020-21	
		Arson, and Bogul Rivers.						
. 15	Construction of masonry falls	- To lessen the rapidity of the	Sanctioned 1898-59		6,364 2 4	•	Completed 1841-	*
	Constitution of manually lains	stream.	perioring 1999-79		0,004 2 4		42.	
								K
5	Brotana Branck Canal : Con-	For irrigation	Sanctioned 7th		4.501 1 4		Completed season	
	struction of 50 mesonry out-		March 1837.	8			1842-48.	384
- 9	lets.					,		I to the second of the second
					*]	Carrier Day 1 state 15	
	Berjapore Watereniree		1 1	1501 0010 00400 001012				2000 PER 100 PER
	Construction of a mesonry Trunct.	In lieu of a wooden tunnel	Sanctioned 26th	Near the village of	2,906 14 ~	2,096 14 -	Completed season	The wooden tunnel was a sour
		No. of the second of the secon	September 1843.	Dakra,			1843-44.	much trouble and expense, owin
69	Construction of a Corn Mill at		Sanctioned 1st	+ ditto	682 12 8		***	the repairs which it required
	Dakrs.		June 1844:	1.0	a filter to			stantly.
		(i) 200	*0			90 91		
	CANALS, SCUTH-WESTE	RN PROVINCES:		*	1 1 1 1	190		3 g 5 g
-	a			ł				the second of th
	Canal from the Banks Nullah to the New Pertaubkholice	The Banka Nullah Canal forms a navigable communica-	Length of the new		- This project was	Estimated for the		Further inquiry established
	Canal in Tuniook.	tion between the Huldes and	out 8 miles and 145		abandoned under orders of	new cut,	- m - m - m -	fact, that there are no sufficient gro
~	promise a manager,	Roopnerain River, and is chiefly	feet; sanctioned 24th November 1841.		Government, 17 August	17,010 2 -		for entertaining the expectation th
	NAME AND TO SEE ASSESS NO. 10	used for the transport of sait.	MUTERIOR IDEL		AURA.	For the service of the	and the first of the first	will be possible to lucate 300 or Khalines along the sides or in the
*	x		of way and	10 July 10 Jul	l gas i gas / i		Alac II I	nity of the proposed canal, and
		By the new cut the dangerous		E Year				the sist attending the transport of
		route taken by the sait boats of				22.3		
		route taken by the salt boats of Tangrakbally and Roopnerain		a de la companya de	ASSE TO 1911		*	Ourung sait to Chat Naramore
		route taken by the sait boats of			1516 ⁵⁶ 3*1		Towns I	now conducted, ought, with proper
		route taken by the salt boats of Tangrakbally and Roopnerain	· · · · · · · · · · · · · · · · · · ·			• • •	*	the risk attending the transport of Durung sait to Chat Narampore now conducted, ought, with proper cautions, to be quite luconsiderable

No.	6 STATEMENT compiled from the	Reports of the Military	Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.
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NAME OF WORK,	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred,	Estimated Amount for Completion.	Probable Tima of Completion,	REMARKS.
Canale, South-Western Balinghatta Canal	Paovinces continued	- * Banctioned 13th December 1839.		D. z. p. 1.fill 4 Bauctious for strengthening the south bank by pilling.	Rs. a. y.	- Completed sea- son 1843-44.	
portion of the south bank,	- To obtain a wider read, and improve the slopes of the bund. SOUTH-EASTERN PROVINCE	son 1849–54).	* 8 *	508 13 7 1		- Completed sea- son 1849-50.	- The dock gates were taken out and repaired at a cost of Re. 457. 2. 6.
Construction of a Bridge on the Burdwan and Horgidy Road, at Shairkpore,	- This bridge is required on a part of the road which is liable to be cut through, whenever the floods of the Damoodah Nullah are brought down the Banka Nullah from the neighbourhood of Burdwan.	December 1840.		1,588 9 8	1,681 110	Completed sea- son 1842-43.	- This is to be a bridge of three (3) arches.
Bancoors and Burdwan Road	- A portion of the old line of road hordering on the southern bank of the Damoulah Rivers, by the floods of which it is con- stantly breached, is to be aban- doned, and a more direct one adopted.	Length 143 miles; sanctioned 16th Ro- bruary 1841 and 19th May 1842.		- Cost of the bridges, 7,890 rupers.	12,000 and . 8,880 14 3	Completed sea- son 1846-47.	- The number of drains and bridges to be constructed, amounts to 34. The road is under charge of the Burdwan Local Committees.
Biscopore Road Construction of a new masoury Bridge on the.	- * indispensable for the safety of the Bissempore road, of which, owing to insufficiency of drain- age, 2,000 fact were carried away by a flood.	- Sanctioned 28th August 1848; to con- sist of two arches of 16 feet span each.	Near Gobroo Bazar -	2,120 i — i	2,438 2 10	- Completed season 1844-45.	- This is an important line of commu- nication, as it connects the grand trunk road with Midnapore and the Province of Orises.
Construction of a masonry Redden over the Doodiah Khall.	 To supply the place of an old bridge, which was destroyed by inundation. 	- Of four arches, 20 feet span each; sanctioned 26th March 1845.	- Between Midna- pore and Blascupore.	7,449	8,646 4 -	Completed season 1847-48.	
Boringham: Construction of two additional Arches to the masuary Bridge at.	- This bridge was severely in- jured by the overflowing of the river in September 1843. It is hoped that these arches will re- duce the elevation of the waters in some degree, and thus lessen the evil to be farred by the error in construction of not having raised the pier to a sufficient height.		- On the Racpore mail road, in the Nag- pore territory.	4,945 18	4,945 13 -	Completed sea- son 1848-47.	The bridge consisted of three andres.

			# £					1989	
	e	S 9 1				92 52	\$ 5	***	
	N 2 *			, , , ,			* 1		
29	_ Balla Khal Iron Tension				i : s	, 4 (i .
				2	50				. 2
	Construction of "	- A bridge at the spot soluted	One span of 950	Situated on the	56,680 4 1	48,447 8 -	Completed to 1845 -	The bibubitants subscribed 17,800	-
		will be a great public conve-	feet, with a 16 feet roadway, sanctioned	right bank of the Hooghly River, near			STATE OF THE STATE	rupees towards its erection : the requi-	
	W 19		8d June 1844.	Howrah opposite Cals		* *	Structura wa	site disbursement for completing the	*
		* · · · · · · · · · · · · · · · · · · ·		outle.			district. Th	is bridge fell down in June 1845, imme-	
	85 86		2 2 2				diately after	its completion, which was attributed to	W 61,000
•					2 4 10		B Went of au	fficient strength in the central connexion	
•	(B)						The bridge	was again put up, greatly strengthened	
88						¥ **	. [Bh the centre	d contexion.	He
							The Court	, in a despatch dated 3d December (No. 9)	lĕ
							that it shoul	d not be further adopted in the construc-	PAPERS
8							tion of suspe	naion bridges.	
			- 10° A0° 1111 - 120						SS .
	Restitution of the		- · Sanctioned 28th		12,027 9 8	7,431	Reconstructed		-
			Omober 1846.			. Take 15 940	esseen 1846-47.	d de	1 🛱
- 5	Making the approaches to the		Sauctioned 10th			8,445 9 7		Market Section 2	
180	mental and all broature so me	F 7	March 1846.			* 27552			3 🗠
						0.570			RELATING
	Bissenpore Road: Strongthens ing of the Tamaul Nullah	In consequence of injuries	Sanctioned 27th, August 1845.	Situated in the Midnapore Division.	2,173 1 -	-3,572	Completed season	'	
	and Seuthancoural Masonry	1844.	well and roso.	Middajora Division.		ens to all and to			
	Bridges.					N a			
	Bankipore to Jekannah: Re-	These works were carried	- Sanctioned 7th		T 10 10 10 10 10 10 10 10 10 10 10 10 10	1,901 10 1) Leans N 1 <u></u>	24 10 4	To
į	sometraction of a Bridge and	away by a high flood on the 22d	May 1845.		7	and	Tarakat -		Ψ.
4	two small Drains.	August 1844.				10,000 for drainage.			19
	Behar District: Construction	. " For the drainage of the road	- Sanctioned Soth		8,177 18 4	8,177 18 4	Constructed ton-		Drigan
20	of Drain Bridges on the line		April 1845.		0,22.2		son 1840-47.		
	of the Grand Trunk Road,			X		- To			1,000
	Budge-Budge Road : Construc-	- With a view to render the	Sanctioned 24th	0 100 100 ±1	2,440 ~ 9	2,440 - 9	Sesson 1845-46.		্ষ
2	tion of four Drain Bridges, and	road more practicable for mail-	December 1845.		2,210 - 5	2,110 - 0			9.
	repairs thereon.	earia.		l .			1		_ ₹
	Bissenpers Read: Repair of		Sanctioned Sth		I	1.919 J5 L	· · -	Francis " nr. de	WORKS
* 5	the Masonry Bridge over the		May 1847.			. 45.5 55 4	Car I The Car I I	the property of the same of	1.33
	Tamal Nuliah.	to a state of the							
2		1	93	6 5	l l	Ų.	an an	professional section	(INDIA)
	ROADS AND BRIDGES.	LOWER PHOVINCES.	1		1	18	i	and other and all the most of a	E
	months and amazone,	DOWNER I BOTHCES,					one to province to		5
1040	Begalal to Diamond Harbour		Langth, 24 miles;	Diamond Harbour	35,000	35,000	Completed season.		B 2
500	Lispairs to the Pucks Road and Bridges on.		width, 14 feet; anno-		10° 24 %	7.9 m	1845-46.	the puces centre of this road amounts to 8,001 rupees,	l
	But 111 mRes on:		tloned 28th July 1845.		Ave.	No. 2 a Pa	107	w open injected	. 8
•	Barripore to Calpee: Construc-		Length, 32 miles;	Calpec	19,049 6 6		Completed season.		ı
* 31	tion of a Cutcha Road.		sanctioned in 1844.			1000 V Ba	1647-48.		10
	Burgatche to Dinagrpore:	This line was adopted in lieu	Length, 91 miles	Dinagopore	15,294 6 6	10,014 2 9	Completed senson	A postlon of this road, a distance of	1
26	Raising of the Ross.	of the old road rid Mulda, when	and 71 yards; sano-			N N	1844-50.	60 miles, has been raised above the	
100	we to the second	the settlement at Durjeeling was	tioned 20th October				1 00 posie p 4	level of inundation mark.	ا
27	# H	first formed.	1847.	2 4 2 22		la de la seco de el		(continued)	1 =
		1 18 1 5 5 1 6	■4 <u></u>				n :: 0 ::	- Teniscenterry	

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1889-40, to 1850-51 inclusive -continued.

NAME OF WORK.	Object of Construction.	Length, and Date of - Commencement.	Place of Termination, or of Intended Termination,	Amount of Expense Incurred,	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
ROADS AND BRIDGES.	NORTH-WESTERN PROVINCE	35:		Rs. a. p.	Rs. a. p.		
Belige over the Pargool River on the Peclibheet Road, in the district of Rohilcand.	un est said see a s	Sanctioned in sea- son 1889-40.		11,298 3 81	9,168 8 -	Completed season 1841-42.	- The excess, Rs. 2,139. 11. 3., of expenditure beyond the estimate is owing to the difficulties encountered in the execution of the work, and to convict
		g :== =================================					aid to the extent contemplated not hav- ing been afforded.
CIVIL BUILDINGS, LO	WER PROVINCES—JUDICIAL:	400	2	* * *			
Baraset Gaol: Rebuilding of the Compound Wall.	- The former wall was pulled down when the alterations to the guel, for the receptions of the followers of the Ameers of Scinde,	Sanctioned 18th July 1844.	Fage N H	1,067 9 98		- Completed season 1844-45.	 Government subsequently decided on sending the ex-Ameers to Hazarce- baugh.
	were undertaken.	· . · · . · . · .					
CIVIL BUILDINGS, SOU	TH-WESTERN PROVINCES—J	UDICIAL:	,	, i.e. 1 2 2			
Balasors Gaol: Construction of additional Wards,	Owing to the insufficiency of accommodation.	Sanctioned sea- son 1839-40.	Balasora	4,740	4,805	Completed season 1841-42.	
Improvements to the drainage		Sanctioned sea- son 1841-42,		1,095 9 1		Completed season 1841-42.	
	WER PROVINCES_JUDICIAL				•1 16 g		
Bauleah Gaol: Additions to, and Drainage.	To provide for better ventila-	Length of drain, 301 feet.	Bauleah	8,027 8 9	for additions.	Completed season 1840-4],	7
Behar: Construction of an additional Record-room.	- For the records of the office of the Judge.	Sanctioned 11th September 1843.	Behar	1,239 8 -	1,239 8 -	Season 1849-44 -	- The necessity for this additions accommodation was brought to notic by the Sudder Dewamy Adawlat.
Burnagore: Construction of a small Gaol, with Out-offices.	For the prisoners employed at Burnagora,	Senctioned 12th December 1845.	Burnagore	1,396	1,390	Benson 1846-47.	
Baraset Gaol: Additions and alterations to.	- To render it secure as a place of confinement.	Banctioned 20th April 1846.	Baraset	7,184 14 44	6,945	Completed season 1847-48.	- The contemplated works are the substitution of iron for the wood work of the windows, &c., and raising the surrounding wall from nine to 13 feet.
Bauleak: Addition of a Verandah to the Principal and two Sudder Ameens' Cutcherries.	- In consequence of the crowded state of these cutcherries, and also with a view to make the buildings more comfortable.	Sanctioned Ofb September 1846.	Bauleah	1,817 1 -	1,959 % 8	- Completed season 1847-48.	The lowness of the wall, only 12 feet 6 inches below the leams, rendered them exceedingly close and hot.
Baraset: Construction of a new Pucca Stable to the Joint Magistrate's Cutcherry.	- Undertaken under a repre- sentation of the joint magistrate.	May 1849.	Baraset		575 9 7	- Completed season 1849-50.	- The roof of the stabling will be thatched.
Bauleah: Construction of a Cutcherry for the Sessions Judge, &c.		Sanctioned 5th September 1850.	Baulcah		15,388 9 1		The construction of the new building will enable the Government to give building which has been rented at 10 rupees per mensem.
		I					

	? Mareil's Crad	¥ . × .						
•	Construct and two according		- " Sanctinaed ith	20 00 00 0	11,170 0 14	12,490 5 8	Completed season	
80 5	many Wards.		October 1848.	Bareilly "	10,000 rupees bave be		1842-43.	-
(4					paid for the site of t			and the Town
					building.			* A A
-13	The second of the second of		F - 2 - 3 - 3 - 3 - 3	1	The second secon	2,355 10 -	Completed season	
	Consinuction of silvidenal	- For a mil House, grand-	Sanctioned 17th	Barellly	9,143 4 10	10 -	1844-45.	la a th + y to the kease t th y
<u>10</u>	futir defdiogs.	Propa Sinz EDOX-100M.	Teleway 1843.	1	ರ ಕರ್ನಾಗಿ			20 P
	- Padon Cacl		Mountained 1508-30	Budson	13,081		Completed season	This gaol consists merely
- 2			, manufacture - manufacture		And Rs. 469. 8. 4.	for .	1844-45,	enclosure wall, a hospital,
				360 3	draining.	4	* * * * *	room, sentry-boxes, and wells, convicts to build their own hute.
		1 4 4	graf a c	f ave	N N N N N N N N N N N N N N N N N N N		55 955	Southers to build their swit filling.
	Burgilly: Construction of a	For the acompusodati a of	Sancti and lots	1		2,634 5 -		erwer "er joner ge
	Thoralat. 24	prisoners wader trul.	November 1801.		1			3 14 11 11
8						7 400 4 4	Completed season	Two rooms for juvenile offende
794	Itobianishaher Hal : Altera-	For the improvement of the	banctioned fifth		602 10 8	1,488 4 4	1843-44.	been constructed; the rest of
4	1 ms to.	prises discipline, sail fie swo	December 1849;		a 2 4 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	100	1010 21	provements estimated for -we
8 .	Tay will be the	acprise rooms in javeille		18	1 4 4 4 10.		9 25	considered absolutely necessary.
		diversity.				13		4, H 9 ,09, 12 **
- 140 - 140 - 140	Bergingh: Construction of	The old cutcherry was in rules.	Sameriored 294	l	5,641 - 9 1	5,641 5 1	Completed sesson	وسدارا عجادوا تدخيفا
25	Tubeldarry Cutcherry, at.	and inconseniently altuated.	N. vetti ber 1542.			N 10	1842-43.	the second of th
80	A 2 40	A SECOND		F 100	1 1000		20.00	and an always the second
			1				Besson 1844-45.	•
77 5	Bandgen: Construction of		Sanctioned 27th		2,200	9 200	Denson 10-14-10.	i :
	L'Olice Guards and Gaols,	ki Marin na maja na Papalija Alauja (April 1844.	Kutchwagur and Bhandaree.		8 8 8		
(2			1	Bhandaree.	1			* VAP* 0 500
4	Bedond kuher Gud Construc-		- Hanctenard 20th	Boolundshuher -	1.601 1 1	1,600 5 1	Completed season	a service of the service of the
en 80	tion of that suildings and		August 1341.			1,000	1844-45.	
8 8	Cook-man.					1		1 1
		Long the street in the street			2 NOV-5 LK	0 40 (2 4000.00)	State Africa	30 8
o *		For the accommodation of		Bhutteeans	3,000		Season 1849-50	This building was purchase
1	* Superinteacers	the superintendent English officer, Post Other,	October 1840,	1	W a	N 10		the estate of Lieutenant Mack
E .		tore onite,	١ , ,	0.0		1	The state of	Sirsa.
200	CIVIL BUILDINGS CRY	TEAL PROVINCES-JI DICIAL	. 13			The second of the second	560	P
s	5 75		30764	Panners	h			•
		For the botter classification	Sanctioned With	Benarce	5,459 8 G	6,178 7 4	Season 1848-49 -	In the contemplated alte
	freeze me the charms tropped.	when lose their lives from the	Transfer !	•				part of the compound wall will b
7.05		what of means of senarating the		1			* * * · ·	down, and 29 suitable and com- cells will be built. Provision b
AL ST		Larrelass from the violent.	is a threat		100			been made for improving the dre
**	P. L. C. I. W			f			120 X	And The sale of the die
s = 2	Below Gast: Alterations, &c	For security of the prisoners,	Saurtioned bith	Bedur	714 14 2	714 14 2	Season 1848-44.	, pau—11 1
8 8	Salar Salar	and sentiation of the gool.	May 1813.					
1277 S	" Bandah Cast Construction of	Required to replace an old	Seartioned 19th	Bandah		at more Place		100 100
	# Poeca Well.	one, which has filled.	August I Salis 3	Duntan		1,804 1 -	2.55% 2.5% (#.144%)	5 \17 17
e me		The second secon			250 27 21 27		1 ° s	
a a	 B. Minol: Construction of a Proper Grad. 	THE THE PARTY OF THE PARTY CONTRACT AND STATE OF THE STAT	Manctimed 29th	Baitnol	22,582 4 11	20,849	Completed senson	The new gaol was to consist
270	vanel.	by the civil authorities, which	December 1840.	I a " a series			1850-51.	ranges, one 100 by 20, and th
94 N		was reported to build a defective	6.55	1 0 00012 100 E			e e e e e e e e e e e e e e e e e e e	145 by 20; each range being into four wards, with hospital
4.		TINE.				1	e e e	for native doctor, dispensary,
563	with and it is				1		*********	offices; the station of Baitool b
8 8	a service il acces				1 1 2		a sur summer on the same	transferred to the Madens Presi
		A second of		1	1	·		(con
	S. C.					r registration in the		

NAME OF WORK. Object of Construction.		Length, and Date of The mination, or of of Comming concern. Introded Termination. Expense Incurre			Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, CENTR	AL PROVINCES JUDI EST-COM	in d.	#**	Re. a. p.	Re. a. p.	•	***
Cutcherry for the Collector.	- The cutcherry is a present held in a bired ballding in the transent, but it is require, to be given up to the military.	April 1817	Ransd •	14,709 11 6	7,104	- Completed senson 1848-49.	- This cutcherry has been made of permanent materials on a revised plan.
arres: Countraction of a well stride the Gaol Compound,	- The only well outside the good which supplied water to the catablishment of the Burkon-dauses had fallen in.	Jane 1847.	li nares	830 4 9	571 5 9	Completed season 1847-48.	
100 H	н 2	17 M (41)					The test apply
CIVIL BUILDINGS, SOU	TH-BASTERN PROVINCES-	STRUCTAL:					
rispul;			i			7.00	
itcherry for the Magistrate and Registrar.	To replace the entchorry de- atroyed by fire in February 1-34.	* 4 Frequence 4 154.	Perrisad	7,059 4 7		Completed 1840-41.	
ew Cutcherry for the Princi- pal Sudder Ameria.	- This was rendered necked, re- to consequence of the existing cutcherry being fir removed from that of the Judge, and thus oc- casioning much incorrent necket		- ditto •	2.G05 13 11	2,894 15 8	Completed 1843-	The old cutcherry has been me over to the local committee of put instruction at Burrisaul, to be used a school-house.
	sultors and pleaders.	et aleas		8	* ;		* * * * * * * * * * * * * * * * * * *
ding of the bank of the River	In consequence of au enc. at he	Sametioned 12th	- ditto	2,330 9 10	2,064 6 ~	Completed season	m 1-1
e all a	ment of the Burrisaul River on the town.				2,002 0 -	1848-44.	 The labour will be performed by relate. These measures proved a failu The executive officer submitted a p
, ,				e #		*	ject for the purpose of turning the er rent of the river, which, in execution
8 a a se		r Various . * F	e * +		1	e e e e e e e e e e e e e e e e e e e e	would cost about 1,00,000 rapecs; if Government declined to sanction is work, decuring it inexpedient to in- further expense.
rak: Construction of a new ironit Bungalow, with Out-		Eaneth ned 20th November 1544.		4,682 14 7	4,909 5 -	Completed season 1846-47.	and their expense.
rritatel; Construction of a ew Circuit House and Out- fices.	On the requisition of the Commissioner of Decen, who represented that there was no circuit	c - Fanctioned 19th December 1846.	Duniant	8,416 10 2		Completed season 1850-51,	
	house for his accommodation of well as that of his office, and that the transfer of a large section of the Soonderbunds to the Cultorion's		X			* ** * * * * *	
	jurisdiction, demanded that a great partion of his time should be de- voted to the affairs of this cul-	1		* # # # # # # # # # # # # # # # # # # #	·		

	Burrisaul Gael : Construction	The necessity for these works	Sanctioned 28th	Burrisaul			1,716 1	ß	1.8	43 15 11	Completed season	of fine at the second second second
987.	of four Solitary Cells, and	was originally brought to the notice of Government by the local	December 1846,	Duragu		120 131 14	2,110 2				1 210 -50.	
		civil authorities.		2.0						¥1 ¥		
	Burdwan Gaol Hospital: Con- struction of an additional		Fanctioned 24th November 1847.	Burdwan	• •	-		• •	1,0	00	• • • •	- To be constructed by the convicts, under the immediate superintendence
g#	Ward.				500			100 m	1			of the magistrate, assisted in respect of plans by the executive officer of the
25	CIVIL BUILDINGS, LOW	ZER PROVINCES—REVENUE		20			3 .			2	× ×	division.
10 00	Bhaugulpore : Additions to the Collector's Cutcherry.	On a representation from the Collector to the Commissioner of	Sanctioned 11th August 1847.	Bhaugulpore			8,199 (8 1	8,2	09 4 9 3	Completed season 1849-50.	• •
E .		the great inconvenience felt from the small size of the cutcherry.					x)	5 8	8 9	94 - 2.54 14		
	CIVIL BUILDINGS, SOU	TH-EASTERN PROVINCES—RI	EVENUE:		* *		a 5			192	Fa Te	
Š	Burrisant : Additions to the Collector's Cutcherry.		Sanctioned 26th November 1845.	Burrisaul		12	5,848 1	10	6,5	93	Completed season 1847-48.	
	Comment of Contracting.	room, and also for the accord- modation of two deputy collec-	Aprender 1943.	EX.	6)		15			41 H Sto		
9		tors, recently added to the col-			, R			*11		32 (a) 535		e se
	CIVIL BUILDINGS, CEN	TRAL PROVINCES-REVENOR	8.			٠.				-8		
9	Bundlecund : Enclosure of the Tubelldarry Cutcherry at	In consequence of an attempt	Sauctioned 29th	Koonch -			1,173	4	-1,4	41 5 11	Completed season 1842-43.	
	Kounch Cutcherry at	made to plunder the treasury.	March 1842.	gravi e	Ø	8	* s	э.			1012 303	
, pa	Breares : Construction of a Versudah to the Collector's Cut-	The necessity of this work	Sanctioned 26th	Benares .		**	1,683	11	1,6	83 2 11	- Completed season 1846-47.	-
20	cherry.	was brought to the notice of Go- vernment by the local civil au- thorities. These verandahs will	April 1846.	5 8 0 51	8					6 8	1010 431	
.75		make the sutcherries cooler, and afford greater facilities for putting									20 20	
ear ,		up tatties during the hot season in the upper rooms.			# Z	5	A		1			
4. J	Banda : Construction of an ad-	For the use of the Collector's	Sanctioned 14th	Banda -	1 8	<u>.</u>			6.0	07		
	ditional Record-room.	office.	August 1849.	PURIOR -		10-20		200		#		
62		ER PROVINCES-GENERAL:			odi e	10	5	100			G	
6.57	Bulloah : New Salt Cutcherry	For the use of the Salt agent	Sanctioned 1839-40-	At Noacolly			2,610 -	•			Completed 1839- 40.	 The former building was altogether unfit for the purpose, for want of sufn- cient accommodation, and from the
2 0					g 4		8 8	4	7			dampness of the floors.
	Barrackpore, Government		Sanctioned 4th	ng ng a			4,646	8 8	1.	·	Constructed 1840-	
	House: Construction of new Out-houses.		November 1840.	40	ē i	١.				10 14 10 10 10		
	Bagunder: Construction of a	For the Sepoy gaard	Sanctioned 3d			EC 40	502 1	1.1.	' '	43 2	Completed 1841-	- Great sickness and mortality oc-
•	**** Capto-monge.	2 00 g 20 00	January 1841.		190	*	F 457 - 3	**	1-22	e t		the general opinion of the officers as well as of the civil surgeon, was a wing
		, i					9 9	8	2 8	F ₂ 8	-	to the proximity of the old guard-
221		The property and the DA CHARLES		5 m 8 ,	_ NO NO.	0.50		*2	1	N. A. A.	1	1

No. 6.—Statement compiled from the Reports of the Military. Board at Bengal, from Season 1889-40, to	1850-51 inclusive—continued.
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NAME OF WORK.	Object of Construction.	Longth, and Duto of Commencement,	Place of Termination, or of Intended Termination.	Amount Estimated Amo of for Expense Incurred. Completion.		Probable Time of Completion.	REMARKS.
Civil Builtings, Love	R PROVINCES-GENERAL-contin	ned.		Rs. s. p.	Re. a. p.		
Enlargement of the Burial- ground,	The extension is argently required.	Sanctioned 6th September 1844.	Burrackpore	1,044 10 5	1,095 7 8	Completed season 1845-46	The additional space to be include measures 380 × 100 feet.
Conversion of a Building in the Park into an Avinry.		Sanctioned sesson 1845-46.		7,508 19 4	7,558 13 4	Completed season 1845-46.	
lauleak: Construction of a . Post-office,	This is a puoca building	Sanctioned 10th February 1847.	Baulouli	1,160 7 11 4	1,920 11 1	Completed 1847-48.	
haugulpore: Repair of the Mauscleum of Mirm Abraham Hossien.		- Banctimed 6th October 1848.	Bhaugulpore • •	886 10 10 1	355 10 10 1	Season 1849-50.	
aulcaks Construction of a School-house.		Sanctioned lat August 1850.	Baulcah	6,336 11 11		Constructed in sea- son 1850-51.	This building measures 81 feet 1 81 feet, and is intended to contain 20 children.
CIVIL BUILDINGS, CEN	TRAL PROVINCES-GENERA	L:	, .,		9 1		Canada and a second
sar Chapel: Repair of the, and construction of a Verna- lah.		Sanctioned acasen 1848-47.	Situated midway between the fort and the buildings occupied	1,714 8 11	1,874 11 9	Completed 1847-48 -	- This chapel was assigned over Government by the Missionary Societ it measures 40 feet by 20 feet (interi
nares: Construction of an additional Godown.	To extend the accommodation of the opinm factory premises.	Sanctioned 17th February 1847.	by invalids. Bennres	4,017	3,017 A further sum of 400 rapecs sanctioned for	Season 1847-48.	dimensions).
ciril brithlyce tou	PED DELWINORS CONTRACTO	mr.a. •			alterations to the boundary-wall of the		
irrackpore Church: Con-	TR PROVINCES—ECCLESIAS	Banctioned Dth			factory. 1,100 10 7		
struction of a Wall.		October 1830,	Barrackpore		1,200 10 7	Season 1830-40.	
EMBANKMENTS, SOUTI	I-WESTERN PROVINCES:		e en T			ř	
ilmecjole Division - •		 Length, 426 miles; estimated cost of annual repairs, 1839-40, 				* * * * * *	The average cost of annual repair in the Culmecjole Division was, i
	e die Sur e Sur e	Re. 16,323, 9.					To Government bunds, Rt. c. ; lucluding sluices and inspection
	a 8 •				- igni		Zemindarry - 24,028 6 0 1 Zemindarry - 12,334 8 Rs. 30,062 15
llack		Length, 560 miles -				e Por la va	The cost of repairs to the emban ments in the Cuttack Division,
	* * *		Cuttack Revets	 A report was received in ment, from which it appears 	1850 on the protective ed, that, notwithstanding tubling the slightest to	works undertaken as a the occurrence of un-	1847-48, was Rs. 22,322, 14. 7. In Report 1840-41, para. 19, it remitted on account of less from drong temporary measure for the safety of the sully high floods in the Kutjoree rive had the effect of giving the current manufacture from descention.

Construction of Wooden Bridges	I 7/	1 ×	-			The second second	
on the Road between Chitis- gong and the Fenny River la Arracus.					9,625 G 6		The executive engineer will consid the future maintenance of this road part of his ordinary duty.
A	. 8		•		. m		
ulna Rond: Repair of		Length, 35 1 miles; sanctioned 1841-42.	From Burdwan to the Hooghly River.	8,282 12 10 And Rs. 1,282, 1, 10, for drain bridges.	* * * *	Completed 1841-42 -	The expenses will be puid by Esjah of Burdwan.
Motalling of the		Sanctioned 6th June 1844.	Ditte	19,419	11,907 8 9	Completed season 1846-47.	
hittagong:	185 TW 18 1858 R		8 R			(2) (a)	
Construction of a Drain Bridge	In the place of a bridge de- stroyed in the rains of 1843.	Sunctioned 15th January 1845.	• • • •	588 11 10	• • • • •	Countracted season 1840-40.	
Construction of Ramps in the Nullahe on the Chittagony Road.	- These rumps are intended for the passage of cattle, with a view to the preservation of the wooden bridges.	Sanctioned 28th January 1840.	- Between Chitta- gong and the Big Fenny River.	1,165 4 -	1,521	Constructed senson 1846-47.	 A large trade in cattle is curl on between Arracan and the Bee districts to the north; and it has be accretained that so many as 8,000 h
				, in		or time the	passed down the road in one month
slouts to Barrackpore: Re- pair of the road.		Sanctioned 2d September 1840.	From Shambazar Bridge to Pettab		57,718 15 11 1	• • • •	- The road is to be repaired three-inch gooting.
	TO THE RESERVE OF THE PERSON O		Ghaut.			2 8 8	
hittegeng City : Construction of a Bridge.	In lieu of a bridge destroyed by inundation during the raise of 1841.	- Senctioned Stat March 1847.	Chittsgong		1,661		The new bridge will be of two so mental arches of 10 feat span, on versed 1 i of span.
hittogong: Road to the Big Penny River.	Additional flooring to six ma-	Sanctioned 11th January 1848.	Bly Fenny River -	1,219 9 10 .	1,200 8 7	-	
	destruction by undermining.				* 2	3	
tittagong and Dacod Kandy Rund: Improvements by	The present road is outche, which renders it necessary that a	Sanctioned 10th February 1850.	The Third		70,281 19 11	*. *. * *	This cationate was called for by
making Slopes.	distinct space be allotted as a berme, to serve both as a base to	reordary 1650.	of pre			i v	vorument on a recommendation f the Military Board of the necessit the work.
	the slopes intervening between them and the side open drain,		,	5. 680 88			
	and as a prevention to encrouch- ment.	e					Manager a
	y ark , were						
ROADS AND BRIDGES,		•		2 2 2 2	9 8 2 3		
and the second second	- As a meons of communica- tion with the new civil station, established in Champarum in	Longth, 61 miles; catimated for in Au- gust 1839.	- Mootearec, in Chumparum.		47,280 7 4	Its completion not reported.	
and the latest to be	1637.	* 1.00		n st K		(a) (a)	
uppruh to Rewah Chaut -		Laugth, 22 g miles;		7,448 1 9	8,f0x 7	Beuson 1841-49.	
	The Brown warp of	June 1639.				\$50 754 T	(continue

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1830-40, to 1850-51 inclusive—continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination,	Amount of Expense Incurred.	Estimated Amount for Completion,	Probable Time of Completion.	REMARKS.
ROADS AND BRIDGES, LO Colmere Ghaut to Buxar: Construction of Bridges and Drains.	WEE PROVIECES—continued. For keeping open the communication between Ghazecpore and Dinapore.		Buxar	Rs. a. p.	Rs. a. p. 67,783 8 8	Not reported	This road, though it forms part of the communication by land between the military station of Ghazeepore and Di-
		. %	es es e		De en		napore, is no great military thorough- fare, the communication between them being always open by water; it is, how- ever, of importance to the traffic of one of the richest and most populous dis- tricts in India, and should be kept up, if possible, from local resources.
Cachar to Munnipore	To make the communication, between the eastern frontier and the Burmese country compara- tively easy.	Length, about 93 miles; commenced in 1837.	Paiksandy, in Cachar	About 39,947 10 4		Completed season 1842-49:	
Chota Nagpore: Bridge over the Nullah at Dorundah.	For keeping up the communi- cation in the rainy season between the military and civil stations at Dorundah.	- Sanctioned 2d May 1842.	Dorundah	1,406 18 11	1,408 18 11	Season 1842-43.	
Comillah Road : Construction of 16 new Jungle Wood Bridges. Cossuah Hille to Assam : Repair		Sanctioned 8th July 1844 Length, 85 miles;	- Bituated between Comillah and the Big Penny.	4.509	4,845 11 6	Season 1844-45.	O
of the Road and Bridges over the. Circular Canal: Construction of a Pucca Road along the	With a view to facilitate the	sauctioned 13th November 1844. - Banctioned 17th April 1850.	Ghaut to Paneegong, in Assam. - Situated between the Manicktollah and		1,983 9 6	1846-47.	This work was undertaken in fur- therance of the strong recommendation
eastern bank of the Circular Canal.	ment new rum distillery.		Ultadanga suspension bridges.	14000 11 11	14,827 14 4		of the civil officers, as well as of the Board of Customs, Salt, and Opium. Although the bridges are defective
Construction of Iron Suspension Bridges over the Boga and Budoapee Torrents.		East Bridge, six feet in width; sanc- tioned 10th July 1839.	Coasya Hills	14,067 11 14	14,02/ 14 4		In some points of construction, they are believed to be, in all essential respects, substantial and suitable. The Bigapa- nee bridge has one span of 94 fret be- tween the points of suspension, with sus- pended approaches, one of which is 28
	CENTRAL PROVINCES;		3 5 2 2	8.			and the other 30 feet long; and the Bur- panee consists of two spans, one of 88 feet, and the other 65 feet between the points of suspension.
Chunar to Sookroot, in the Mir- zapore District.	To supersede the old road	Length, about 10 miles; estimated in September 1839.	Sookroot	6,998 7 9	6,325	Completed season 1841-42.	

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PAPERS		e (7)
RELATING TO		
TO FUBLIC		
WORKS, (INDIA)		
DIA).	2	

				1		. 1					
S	CIVIL BUILDINGS, NO	ATH-WESTERN PROVINCES-	IUDICIAL:	1	- SA -	1	, H M.				
3	Chanderee: Construction of a small Gaol and Cutcherry Bungalow.		Banctioned 4th Je- nuary 1840.	Chunderoe		-	600	ž.	800	Constructed season 1844-46.	* * * -
	CIVIL BUILDINGS,	BOUTH-WESTERN PROVINCE	S-JUDICIAL:	120 gg 32	7 10						FT 64 64 B
2	Calcutta House of Correction : Construction of Solitary Cells at the	Twenty-four cells have been constructed, with improved ac- commodation for prisoners.		Culcutta -		٠	9,688 3 10			Completed 1839-40 -	- The cost has been defrayed from fours realized by the prisoners' labour.
		January Property		- 6	6.	1					The chief magnatrate considers the cults to have answered their intended object
m			****	* 194 Å	5	1					so well, that the construction of 24 additional ones is contemplated.
330		TII-BASTERN PROVINCES—JI	DICIAL:	B 27						*	
	Cuttach Gael Hospital: Con- struction of three Wards.	For insane patients	- Sanctioned 25d July 1840.	Cuttack -		-	646 19 9	I	400 3 -	Completed season 1840-41.	
	Committeh = New Court Room for the Magistrate.		Sanctioned 5th No-	Commillab	erre Grant	-	2,426 1 7		3,307 2 8	Completed 1841-42 .	This work was completed for a sam
18			VBILLET TO TO.		7.0	1	an a ^A a	э 2			of Rs. 887. 1. 1. less than the estima- ted coal, owing to the labour having been done by convicts.
18.	Contraction of six Wards -		Scuson 1841-42 -			1	80,800 - 7		52,000 B 9	- Completed season	•
		In consequence of defects		0.0	. K.	1		l		1842-45.	
PU 4	Alterations and additions to -	having been discovered, whereby the accurity of the prisoners was compromised.	-Sunctioned 10th May 1843.				9,200 15 8		2,200 15 8	- Completed senson 1844-46.	
	Culcutta Aqueducter Betting up a Steam-engine, and al-	To raise water for filling the aqueducts, the enlargement of the	Fauetioned 6th Ja- nuary 1841.	Calcutta -	•		Cost of setting up sugine, Ro.11,074, 12		- For setting up the en- gine, Rs. 11,074, 12, 7.	Completed season 1842-43.	- " The engine, which is of 20-horse power, is valued at Re. 11 (NM. 12. 112.
	of the Aqueducts, from the Reservoir at Chusdpaul	aqueducts was rendered neces- any, consequent on the enlarged supply of water to be expected from the substitution of a EU for	€	907A (Cost of new squed Rs. 8,104. 8. 6.	luot,	For enlarging the aqueduct, 14. 9,863.	Completed season 1845-46.	and was sent to India in 1928-90 with the saw-nill machinery; it is new transferred from the Arenal of Port
	eorans of Esplanade-row			tillets.	1	: [11. 3.	- i	William.
20	<i>a.</i>		5) 0s	1						18	
	Calcutta Police Haspital: Construction of two additional Wards.	- For the sick poor of the town, and as a piece for the resert of the poor from the neighbouring district for surgical operations.	Sanctioned 1841-42 -	Ditto -	•	1	1,317 2 -		1,317 2 -	Scason 1811-42.	-
	Commutation of a tiled Shed at the Sudder Downtry.	- For the convenience of vakcels and others who attend the Court.	Sanctioned 19th	Ditto -	·	-	1,340 4 9		1,358 5 8	Completed senson	1
1	Calcutta Penitentiary		September 1842,		e MET.	-				1843-44.	
	Construction of six Wants -	a- Por civil and orininal Supreme Court prisoners.	Sanctioned 16th June 1841.	Ditto -		-	80,800 - 7		32,900 8 9	Completed season 1842-49.	_
	Construction of a new steam-	- Pur a 20-horse power engine, transferred from the Arsmal of Port William to the town of Cul-	- Sanctioned 7th September 1841.	Chaund Pr			11,074 12 7		11,074 12 7	Completed season 1842-43.	
	100	cutta.	* *. # 10		erran 12	1	141 21	· · · · · ·			

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

							
NAME OF WORK.	Object of Construction.	Length, and Date of Commencement	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
		timed				Lance of the same	
	I-PARTERN PROVINCESJUDICIA	1 COMITMENT		Rs. a. p.	Rs. a. p.		
Calcutta Penitentiary-continu	ed.		- Situated at the		la S	1	
Construction of other works connected therewith,		Sanctioned March 1844. •	Chaund Paul Ghant.	16,259 1 7	10,252 1 7	Completed season 1643-44.	
Chittagong Gaol: Additions and Improvements to.	- In consequence of the offen- sive state of the gaol, the want	Sanctioned 17th October 1842.	Chittngong	1,288 11 9	1,288 11 9	Completed season 1842-43.	
	of proper ventilation, and damp- ness of the floor of the gaol bos-	• 1		tim, yer			-
	pital.	* *		· :	76	0 0	
Calcutta: Construction of Machinery in	To employ the power of cast-	Sanctioned 16th	Calcutta	12,293 12 7	9,674 18 10	Completed season	The power is intended to be applied
the House of Correction,	fron trendmill received from Eng-	September 1844.		12,002 12	0,077 12 10	1846-47.	in turning a soorkee mill and grinding
and erection of a building.	land.			tiget in the state of			corn, but neither objects have as yet
			V .			1	the treadmill made over from the Arse-
		No the second		and the second			nel in June 1843 to the D. P. Works
a taki ja		e* 11 o € e;	and the same				is 3,406 rapees. The additional machi- nery has proved an entire failure, the
3V7 9A							treadmill being complete in itself as an
0#8			i v		a e e		engine for punishment, and having no power, to work machinery attached
							to it.
Filling a Tank in the House	The water of the tank was re-	- Sanctioned 7th June	Ditto		9,801 13 -	Season 1849-50 -	- The wells will supply water for bath-
of Correction, and sinking	presented to be in a putrid state,	1847.		A STATE OF STATE OF THE STATE O			IDD. Washing, occ., while the tank con
Wells.	and threatened to affect the health of the prisoners.	and the state of t			10, 30, 31, 31		be used as heretofore for drinking and
	of the busoners.		T a				culinary purposes.
Calculta General Hospital: Excavation of two Tanks.	For watering the roads in the vicinity of the General Hospital.	Season 1840-47 -	Ditto	:	An estimate has been called for: in		- The excavation of the proposed two tanks will reduce the labour and con-
Excavation of two thinks.	vacuatty of the Concret Hospital.	2 × 8	Jack B. gar	1 4 2 4	the meantime an au-		sequently the outlay for the bheesties,
		0 3 6	2.0		nual outlay of 2,248		to 1,364 rapers per annum.
					rapees has been autho-		1.00
•	a de la	* co 3	E 2001		of bheesties for water-		
* # **					ing the roads.	Trees, in	
Chittagong Gaol: Construc-	A more thorough ventilation	Sanctioned 20th	Chittagong	731 11 0	758	Constructed senson	
tion of 22 Ventilators. •	of the gaol being considered ne- cessary by the local and medical	May 1840. • .				1846-47.	
	authorities for the improvement	15)					
	of its salubrity.	. 4	* * **		:	l ve	
C. L	m	g 30/1	Calcutta			1	
Calcutta House of Correction: Construction of a Pueca Tiled Shed.	which has fullen into ruin.	Sanctioned 19th May 1847.	Carcuttu	1,174	1,174 6 10	- Completed season 1847-48.	
	2 2 20 2						
New Residence for the Deputy Esperistendent.		Sanctioned 20th July 1848.	Calcutta	4,437 9 10		Completed season 1850-51.	
a or govern							

				12 2				
Colculis : Construction ters for four Serjeant		- In compliance with a recommendation from the Chief Mugistrate.	- Sanctioned 19th May 1847.	Situated in the north-west sorner of the Police Compound at Calcutta.	5,589 -	5,714 7 ~	- Completed season 1849-50.	
Comillah: Additions provements to the Cutcherry.		- The necessity of these addi- tions was brought to notice by the Civil and Sessions Judgo.	Sanctioned 24th September 1850.			9,524 11 ~		- The works originally intended to be executed were two additional upper rooms, one of 412 × 154 and one 53 ×
						however, that the	oms, and the supplying walls were not sufficient to been found necessary	old upper rooms, to make them conve- or record racks. It having been found, atly strong to admit of a second story to construct a new Circuit blouse and
Calcutta: Alterations : tions to the Suprem		- For the better accommodation of the priseners, and separation of those confined for heinous and slight crimes.	- Sanctioned 11th October 1850.	Calcutta		8,172 - ¥		- The necessity for this work was brought to notice by the acting regis- trar.
CIVIL BUILDI	NGS, SOL	TH-EASTERN PROVINCES-	REVENUE:		F Car B F.	y gen w		
Calcutta ;	ion of the	We provide for a Stamp Office -	Sanctioned 19th May 1841.	Calcuits	4,050 9 5	4,220 5 9	i - Completed season 1841-42.	
Construction of a P the office of the Board of Revenue.	Portico to		- Sanctioned 28th November 1842.	Calcutta	819 7 6		Completed sesson 1843-44.	
Erection of Shade at Bridge Yard for tional Forges.		In consequence of the heavy de- mand for iron suspension bridges from all quarters, particularly for the Grand Trunk Road,	. Sanctioned 3d May 1843.	Calcutta	5,046 1 10		Constructed season 1843-44.	
CIVIL BUILDI Cuitach: Revenue Sur and Record-rooms.		UTH-WESTERN PROVINCES— - For the revenue surveyors and establishment.	And the second s	Cuttack	2,071 9 4	2,971 9 4	- Completed sea-	
ann Ascora-rooms.	1	ensommunah				ري پريان مواهي است	son 1035-40.	
Cacher: Construction sury and Record-roo		For the reception of the trea- sure and records.	Sanctioned 16th January 1843.	Cachar	195 6 4	195 6 4	Completed season 1939-40.	- The smallness of the outlay was caused by the employment of convict labour.
CIVIL BUILDI	NGS, NO	RTH-WESTERN PROVINCES.	-REVENUE:					en front types a section of the
Chappers: Construct Tubuildarry Cutcher		- Rendered necessary with re- ference to the new settlement of land revenue in the North-Western	Sanctioned season 1838-39.	In Zillah Bijnore	3,264 - 6		Completed sea- son 1840-41.	
the section of		Provinces.	~ 50					
Street State Committee Com		NTRAL PROVINCES—REVEN	UE:	Indian .		ladge and the	1	Sagar La promise de la constante de la constan
Coiles : Repair of the darry Cutcherries st.			- Sanctioned, 27th May 1840.		4,894-15-2		- Repaired season 1842-43.	
						I	liay:	(continued)

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Sesson 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, SO	LTH EASTERN PROVINCES-	GENERAL:		Rs. a. p.	Re. a. p.		M N N N N
Calcuta Mint: Construction of a Guard-house and Stabling.		■ - Sanctioned season 1839—40.	Calcutta	18,850 8 10	20,626 9 1	- Completed season 1840-41.	- The proposed dimensions and archi- tectural decorations were considered su- perior to what are usual or necessary for similar works in the place. The work is stated to have been satisfactorily done.
Calcutta Treasury : Improve- ments at the.	To remedy the inconvenience felt for want of office accommoda- tion.	- Sanctioned 4th March 1840.			23,138 4 6		The house used for the Savings Bank is altogether removed, and a new build- ing erected on the entire frontage be- tween the Treasury and the Accountant-
e (€) 2 × ×	195 and 18						General's Offices. The new building will be carried up to the full height of the Treasury, and will provide ac- commodation for the General Treasury,
No. of the second secon		W W W	. A see one				the Accountant-General's Offices, and the Savings Bank.
Chittagong: Repairs to the Breakwater in front of the Salt Golaha.	For the safety of the salt in store during the rains.	- Sanctioned 1st April 1842.	Chittagong	12,478 6 7	14,633 1 ~	Completed season 1843-44.	- A saving of Rs. 2,154. 10. 5. oc- curred on the amount authorised, in consequence of a reduction in the quan- tity, as well as in the rates of the work.
Calcutta Custom House Construction of additional Buildings.	• - To accommodate the increas- ing trade of the port.	Sanctioned 31st March 1841.	Calcutta - • •	20,954	19,710 1 10	Completed season 1842-43.	
Reconstructing the Import and Export Godown Sheds.	 A committee report stated that the sheds were unserviceable and in a dangerous and tottering con- dition. 	. • Sanctioned 30th July 1847.	Calcutta	4,756 5 6		Completed season 1850-51.	7
Calcutta General Treasury; Additions to.	To afford additional accommodation.	Sanctioned season 1838-39.		26,021 15 6		- Completed season 1841–42.	
Calcutta; Construction of a House in the Botanical Garden.	For an assistant oversoor	Sanctioned 22d September 1841.	• • • •	1,913 11 4	1,803 2 9	Completed season 1842-43.	
Construction of a Record-	For the General and Financial Departments.	Sanctioned 26th March 1842.		4,289 15 4	4,289 15 4	- a ditto.	
Raising the Floors of two Go-	They were subject to inunds- tion in heavy rains.	Sauctioned 14th September 1842.		1,325_10_6	1,412 4 8	ditto,	-
New Roofing of the Circular Cuting-out Room at the Mint.	- In consequence of some of the beams having failed,	Sanctioned 8th March 1843.			2,224 11 54	Completion not reported.	- The estimate framed is for a new roof, supported on iron beams.

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	RELEATING TO	
9	RELIABILING TO LODELO MOLVO (INDIA)	STOP TO TO TO
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	Quadrensial repairs to the Government House and Out- offices.		Sanctioned season 1842-43.	• •	•	26,983 14	- ,	26,983 14 -	Season 1842-43.	-	
987.	, ,		* x\ g 550	a - 7e	8 99					100	
•	Construction of Lecture-rooms and Birhoel-rooms at the Hindoo College.	For the General Committee of Public Instruction.	Sanctioned March 1843.		• •	18,152 4	5	19,634 3 -	Constructed sea- son 1844-45.	- The expense will be borne, in nearly equal shares, by Government and the College.	
	Repairs to the General Tree-		Banctioned 6th March 1843,			435 11	-			v *	Þr1
	sury promises.		Mineta 1040,	ŀ		2 5	•				≥;
	Colenita Medical College: Construction of Quarters for the House Surgeon and Staff	In consequence of insufficient accommodation.	Fanctioned 18th September 1843.	Calcutta	-	8 190,8	\$	6,319 6 11 Rs. 2,000 also granted	- Completed sea- son 1844-45,	_	CHS
	Sorjeant.		3		ž s	2 40		for the purchase of ground required to be added to the Medical College premises			кьГАл
					22				ALL PARTY OF THE P		A
	Construction of a Verandah to the Male Hospital.	- Under a representation of its necessity from the Council of Edu- cation.	July 1813.	- ditto		967 14	1	1,019 8 10	- ditto	 This work was necessary to the com- fort, efficiency, and internal economy of the establishment. 	ING
8	Calculta Medical College: Can-	It was extendered necessary to	Saurtioned 2d Oc-	- ditto	_8	5,119 5	,	5,119 5 7	Sesson 1843-44.		or
H	struction of a new Dissecting-	2. move the dissecting operations to a distinct building; they had been	tober 1813.	- 1	0 0 8	0,119 0	8				700
Þ		carried on in a room in close proxi- mity to the Fernale Hospital and quarters of the Secondary School.	1 10gg , 10 1 10g , 10g	a a k					ഇതാലെ വലൂട്ട		PUBLIC
	Calcutta: Additions to St.James'	The works consist of a new	Sanctioned 15th	- ditto		4,007 8	10		Constructed sea-	Of the amount expended, Re. 2,344.	
	Church.	wooden gallery, laying a marble floor, &c.	March 1843,	8 8	19		10	-,	son 1843-44,	2. 9. have been recovered from the vestry of the church, such being the engagement under which the work was	WORKS
	A A		g 3		(i) (#		υX			executed.	RK
	Calcutta Government House; Construction of an Entrance Gata.	- To the gardens south of the building.	Sanctioned 14th February 1843.	- ditto	• • ·	851 13	8	871 10 1	Completed sea-	Ordered by the Governor-General.	(IX
30	New Supreme Court House and Insolvent Court.	- In consequence of the existing buildings and arrangements not af- fording the necessary accommodu-	Estimates called for 7th June 1842.			- The proposal ferred to the Hor rities, to whom t	ne autho-	3,94,530	* * * .	- The present Court-house is a public building, valued at 80,000 rupees, and the Insolvent Court is held in an adjoin-	DIA)
-	N DES NO N SE N D N DE N , SE AS	tion for the distribution of busi-	ene En e			arrangements was	umplated	4.5	d so	ing building, rented at 500 rupees per memora.	•
	Construction of new Salt Golahs on the banks of the sreek,							16,236 2 6		The estimate is for ten golahs, such coloulated to huld 75,000 maunits of	23
•	between the islands of Kaukra and Kiepenpura,	29-1 Se/1 Sl	g u		: ::			*		sait, and for a mound raised 71 feet, 717 × 264 feet for the golds to be built on. The excavation of the work	
	r w we are engine							15		entrusted to the officers in the Salt Du- partment, there being no officer of the Department of Public Works symiable	43
	B van			l			* 1	, l	× .	for the duty. (continued)	w

No. 6 STATEMENT compiled from the Reports of the Militar	y Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.
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NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVII BUILDINGS, SOUTH-	EASTERN PROVINCES—GENERAL—	continued.		Re. a. p.	Rs a. p.		
Chittagons: Construction of a new tilet roof Custom-house, and purchase of a Site.	Required to replace a thatched shed, which is out of repair and inconveniently situated, being separated by a large nullah from	- Sanctioned 8th March 1843.	Chittagong	5,150 1 -	5,448 - 9 Cost of site, Rs. 5,000	Completed season 1846-47.	- The bridging of the Nullah would have been more expensive than the building the new Custom-house.
a e e e e e e e e e e e e e e e e e e e	the pier at Chittagong.	* * *					
alculle General Post-office: Additions 12.	Represented by the Post- master-general to be indispensa- ble, with reference to the increased business transacted in the Post- office.	- Sanctioned 2d July 1845.	Calcutta	- The work was ens- pended, the erection of an entirely new Post-office being contemplated by Government,	9,485		The additions will comprise an upper room 50 × 35, a room 16 × 16.
Construct ion of additional Rooms,	For cook-rooms to the Female Hospital.	- Sanctioned 28th January 1846.		861 9 1	505	Completed season 1847-48.	الله على الله الله الله الله الله الله الله ال
Construction of a new Coach- house.	Required in lieu of the former one, which had settled and cracked.	- Sanctioned 7th November 1845.		1,148	1,143	Sesson 1845-46.	
Alterations and additions to the.	For the better accommodation of the Military Class Students.	Sanctioned 26th June 1850.		• • • • •	8,442 5 1		The works contemplated are t make over to the use of the student a portion of the western ward; to con
		a was	* #			. A	struct a new close flat-roofed verands to be added along the whole of the west side, Military Class Ward, of the Medical College, 2894 × 97; to re- move the doors between the propose verandah and ward.
eleutta A int: Building and fitting up an Electrotype Re-		- Sanctioned 13th December 1844.		8,510		Constructed season 1846-47.	-
struction of a Drying-room over the Stables attached to the Stam s-office.	- The necessity for this work was brought to the notice of Government by the Board of Customs, Salt and Oping.	Sanctioned 20th October 1847.	Calcutta	2,165 1 1	2,176 13 \$	Completed season 1849-50.	
uttack : Pepairs to the School-house.	- Damage was occasioned to the school-house by a fire, which occurred on the 7th of May 1846.	Sanctioned 9th September 1846.	Cuttack	865 1 4		Sesson 1847-48.	
		000 2 K a	* 6				
deutta Post-office: Construc- tion of SI do in the Compound of the Greenal Post-office.	- To provide residences for the distributing peens on the spot, so that their services may be available at all hours.	- Sanctioned 19th May 1847.	Calcutta	2,194 11 -	2,199	Completed season 1848-49.	
58 145	120		8	ď _a			27 (3 # 1 (8

Calcutta General Post-office: Construction of a Stable, Cart, and Overland Van Sheds, in	- The Postmaster-general con- sidered the proposed works ab- solutely necessary for conducting	July 1647.	Calcutta - 😛	2,505 9 11	3,107 8 9	Completed season 1848-49.	
the Compound of the Post-	the greatly increased business of				30		500 E
office.	the office, and more particularly		e 6	a 31		, 3	2 20
	of the steam brauch.		9 (2.15)	25 14 15		N	
alcutta Episc pal Residence	A request of the Bishop of	Sanctioned 31st	Calcutta	Value of the new		2 D	
	Calcutta to change the episcopal		Catcatra	palace, Re. 81,718, being			- A house in the Chowringhes road, lately occupied by the Hon, W. W. Bird.
	residence, for reason assigned by		40	the purchase cost.	2 2 8		Governor of Bengal, has been pur-
	him, was complied with on the understanding that it should not			Ra. 55,080. B. 10., mdded	1	e ji	chesed by the Bishop, and will be brought
N	involve the Government in any	9	19 48	to the sum expended in making alterations to the			on the books as a Government building :
	expense.		2 9 19 20	building.			the cid episcopal residence was pur- chased by Government in 1838 for
	100 A		100 N			i i	Re. 80,000: Government, on the 15th
		The office of	AMAR WAR	10 (00 Jan 10 10 10 10 10 10 10 10 10 10 10 10 10		59 5	September 1849, authorised the title
					, C. 1		deeds of this building to be placed at the
			2.2				disposal of the Bishop to enable his
				* .	8 6 7 8		Lordship to dispose of the premises.
alcutta: Extension of the Jetty	Rendered necessary in con-	Sanctioned 24th	Calcutta		2,047 2 2		- The silting up of the siver bank
at Bunk's Hall.	sequence of the silting up of the	July 1850.			S	K.S1 **	had removed the low water mark full
e e e e e e e e e e e e e e e e e e e	AAT WE WELLEN				· · · · · · · ·		15 feet from the grane used by the Marine Department for landing anchors.
• • •			of an M		a a	e 1 oc 100	And America for manding stictions.
CIVIL BUILDINGS. LO	WER PROVINCES-GENERA	L			*** * ;]		
to the second of the second terms of	The roof, owing to the de-	Sanctioned 23d		2.674 7 13	-0,674 7 13	Completed sesson	This is an old Dutch building, and
made and Current 13 Reclients of	cayed state of the beams, was	February 1842.	Tag T 1 12	2,014 1 12	minte 1 25	1842-43.	is supposed to have been built in the
10 00	reported to be in a dangerous				graph (**)	1220 E	year 1685.
0 0 00 0 00 00	state.		40			·	15 15 15 15 15 15 15 15 15 15 15 15 15 1
	7 × ·		1 1 1 1 1 1			1922	
eera Coal Mines : Construc-	For facilitating the means for	- Sanctioned 5th	Cheers		66,584 11		
tion of a Rusdway.	the conveyance of coals from the	October 1842			50,002.51	K444T 97 TET 62 9	3 2
8 8 8	Cheera Hills to the plains.		200 2 5	1 1 1 1 1 1 1	المعدد الروايد ال	in a second	
insural . Enlargement of the	i sa	Sanctioned 15th	Chingurah		The payment of	Season 1846-47	An estimate amounting to 452
Burial-ground.		February 1847.	Chineuran		Rs. 2,788. 11. was	posson to an at	rupees was sanctioned on the 28th July
		,	3		sanctioned, as well as		1848, for the enclosure of the newly
	P a Barana v	. 1	AL N	1,500	the remission of		purchased ground.
0 50 050 g and	the transfer of the second			e e	Re. 25. 4., or Com-	2	
	ter teritor A . All terms of				secount of annual re-		DOS SECTION ST
or the state of			* "		venue.	30° ° 10°	
leutta : Renewing the Crane	The crane gave way whilst an	Sanctioned 21st	Calcutta		1.000 17 4	Sesson 184950.	Light series of the comment of the contract of
t the Bank's Hull, and some	anchor of about 56 cwt. was being		Catcutta		1,227 15 6	SCHOOL 1943~904	a in the contract of the contr
f the Beams and Posts of the	towed off from the jetty.		. \$3 . 20		26	and the second s	The state of the s
letty.	.85 3 8 3 3 3 3 3		•			[The sales of the	49.
eks c'es sasas l		, i	9	and the second of the second o	to the second		
	UTH-WESTERN PROVINCES	ECCLESIASTICAL	* * * * *	of ex-	¥6.₩6 54.5 S	a a composition of the contract of	Selection of Section Section Section Section 5
ular Road ; Purchase of	For a burial-ground	Sanctioned 28th		1,988 1 10	19,700	Completed season	- The saving of Rs. 397. 7. 7. within
and.	2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	August 1839.	7		for grounds, and	1840-41.	the estimated amount, is owing to the material for the pathways having been
			S v s'		Rs. 2,385. 9. 5. to adapt it for the object	a s 7	obtained from certain buildings which
ar and for	the second of the second of	200 0 100	40.4 Medical	e e e e e	intended.	(40) III)	it was found necessary to clear off the
a "		3-6 1	F. 15 Y			Language on a m	ground purchased.
1	20 N 10 10 10 10 10 10 10 10 10 10 10 10 10		3				(continued)
*	20 gr 1000 gr		The No.		N 30		
(*)	2 2			1.00	O as	10 20 100	

No. 6.—Statement compiled from the Reports of the Military Board at Eengal, from Season 1839-40, to 1850-51 inclusive—continued.

	Sanctioned 9th October 1840.	,	Rs. a. p. 10,335	Rs. c. p. 9,947 3 3	Completed season 1843-44.	Of the amount, 3,518 rupees has been paid by Government, and the
ESTERN PROVINCES mee for the Master and offices and go- navel stores.	October 1840.	3	10,335	9,947 3 3		been paid by Government, and the
and offices and go- navel stores.			2 2 8 8 8		36 B K B	remainder (6,817 rupees) by the com-
and offices and go- navel stores.			· ·			munity and the Church Building
and offices and go- neval stores.			(C) 242	an e i		rana
BOVINCES: .				46,000		1 compare over
		.a. 907 & 3	18		87	
	· · · · ·		6,504 14 10	6,504 14 10	Completed 1839-40.	
	- Sanctioned scason 1842-43.	, , , , , , , , , , , , , , , , , , ,	1,213 14 10		Completed sesson 1842-43.	-
lace a thatched shed, it of repair and incon-				5,418 - 9	_	
migra tratali			e v s		ensemble de la	n same signs a manage
VINCES-JUDICIAL		<i>a</i>	4.782 - 61	5,409 1 3	- Completed sea-	
egistrate of Sarum	May 1843.	Chupprah	4,782 - 61	3,409 1 3	son 1846-47.	
ace the former thatched hich was destroyed by	July 1847.	Chitpore	1,150 15 7	1,150 15 7	Completed ses- son 1847-48,	- As the thannah at this localit has been burnt down three times durin twelve years, the present estimate pre-
VINCES:	n 300	tien inn			e el u	vides for the erection of a pucca building
on and navigation -	Estimates sanc-	- Doab; the falls	52,356 8 1 The conversion of the 11	69,171 sanctioned for addi-	- Completed sea- son 1840-41.	- The raising of the banks of th Doab Canal was sanctioned in 1838-39
· ·	printed in 10001	rie, Hullallpore, Mcg	falls as locks from Belkee to Balpore, in Pergunuah	tional falls and locks.		the cost was Rs. 70,644. 8. 6, and the entire length of the work done 385,13
E M. SEAS T. T. M. A. SEAS T. M. A. SEAS T. T. M. A. SEAS T. M. SEAS T. M. SEAS T. M. SEAS T. M. SEAS T. M		Chupper, Ruree, and Balpore.	Behut and Saharunpore, has been also effected at a cost of Rr. 21,040. 11. 7.	hills, but when	r to the canal, puts an the canal has been made t averaged on account o	main stream of the Jumna, in order to entire stop to the timber trade from the e navigable, this inconvenience will case of the Boab Canal, in 1840-41, amounte
which, diverging from	tioned May 1839.		20,000	20,000	Season 1839-40 -	placed at the disposal of Captain Cautier, for the introduction of rajbulas, o
erable distance from its	line, and serve to exten- could not, without much water direct from the car	nslitself;				watercourses, on a tract of land lyin between the Doab Canal and the Rive Hindun, a great part of which has fallen to the British Government b the death of her Highness the Begun
which, tream terable	diverging from of the canal, flow distance from its as villages, which disputes, obtain	us villages, which could not, without much disputes, obtain water direct from the ca -ful works, and likely to afford a good :	diverging from tioued May 1839. of the canal, flow distance from its line, and serve to extend the irrius villages, which could not, without much inconvedisputes, obtain water direct from the canal itself; ful works, and likely to afford a good return for .	diverging from tioned May 1839. of the canal, flow distance from its line, and serve to extend the irrius villages, which could not, without much inconved disputes, obtain water direct from the canal itself; ful works, and likely to afford a good return for.	to Rs. 1,15,156. 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000	uhas are water diverging from to the day 1839. The strength of the canal, flow distance from its line, and serve to extend the irrius villages, which could not, without much inconvedisputes, obtain water direct from the canal itself; full works, and likely to afford a good return for.

-	PAPERS
	RELATING
	RELATING TO PUBLIC WORKS (INDIA)
	WORKS
	(INDIA).
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	tions of trees on the		. From 1830 to 1840-41.		14,391 12 7 Amount realised from cut- tings, 10,435 rupees.			- The number of trees on the banks of the Donb Canal, to 30th April 1843, was 235,327, and their value was esti- mated at 30,000 rupses; a sum of 7to 9,872. 4. 4. had been realised by the sale of timbers.
* p		for the same	14th September 1839	Doab Canal		13,800		* ************************************
Connec	cion of the, with the	• • • • •	Teta popularou 2005	Doile Cana		sanctioned for the		
:2	2		•0, 10 ×	1.		duets.	b Fyzen	
Delhi Ca						- The amount of ex-	<u> </u>	
Del/II Cu	nui		1 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			penditure incurred ou account of plantations	× 1	W 19
				8 9 2		on the banks of the Delhi Canal to the		
			1.60			Soth April 1847, was		
6 V.			The second		1. 1. a	Rs. 27,363, 5, 7.; the amount realised Rs. 52	,025. 12. 6. r and	
Ø 80	e in K			Ï	1. O	the estimated value of banks of the capal, A	a. 5.66,998. 6. 4.	
		and the second	10.00		*	Orders, were reported	in season 1848-49,	
15 Apr		Mail Section 18	(R)		N .	ber remaining smoun	ted to 369,646 of	pass free factor is trans-
14) I	** * * * * * * * * * * * * * * * * * *	* 9	* 9 *	ä	2 8	different ages, and the mated at Re. 5,57,828	. 2. 8.	
*		*	\$1 500 Mar 200 Mar 200 Mar 200 Mar		,			
n Maso wooden Canal	Acon . Construction of any Tunnel is lieu of a one on the Becjapore	- The wooden tunnel was a source of much trouble and ex- pense, owing to the repairs which it constantly required.	- Sanctioned 26th September 1843.	Situated near the village of Dekru.	3,358 1 6 Rs. 6,244 sanctioned for the construction of falls, or masonry descents, for the passage of the waters.	2,996 14 -	- Completed season 1844-45.	
Rajpore V	Watercourse	- To supply pure and whole- some water to the town of Deyra for domestic purposes.	Length 71 miles; senctioned 8th March 1941.	Rajpore to the town of Deyra.	42,984 11 9	41,207 2 4	- Constructed sca- con 1844-45.	- The object for which this water- course was constructed has been fully obtained, the water running in a clear and pure streum.
		~ ~		**		1		
Setting u	of a Saw Mill	The watercourses in Deyra are stated to be peculiarly appli- cable to machinery of all kinds.	Sanctioned 11th September 1843.	At Dhurrampore -	8,567 \$ \$		- Constructed season 1944-45.	The cost includes the adapting of machinery to the building created; the machinery to be applicable to vertical as well as circular saws.
10	* 0	· * * *	2 6 2			1.000		
	ion of 12 small Reser-	Intended for watering the vil- lage cattle, and they will relieve	Sanctioned 14th June 1844.	In the Deyra Dhoon	1,608	1,608	- Constructed ses- son 1844-45.	
OUTTER.		the main stream intended for	CAMU AUST.			7	1	
E _ = = =	7	drinking purposes from import- ties, of which it could not be kept						
1	20.19	free so long as cattle resorted to it generally.	30 a		egn en fa		1	* * *
	THE RESERVE OF THE PARTY.	ച്ചെയ്യായ ചെ	Sanctioned 15th	- ditte	2.500	2.500	- Constructed sca-	
	ion of 4 Corn Mills on japore Watercourse.	The construction of those mills will be advantageous to the Go-		uitto * *	2,000 -		son 1844-45.	
		vernment, as well as to the inla- bitants, who now carry their corn	5 N 99 C	g 20 40				200 M
3 (69)	e 19 KK	to other mills distant between	e 138	ces a topo	S CONTROL		No. 9 1 Section 1	(continued)
	*27	four and five miles		to year so so "The	A STATE OF THE STA	I 10 * 10.00 * 10.00		1 X*** /* g I

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination,	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CANALS-NORTH-WESTERN	PROVINCES-continued.		710	, Re. a. p.	Re. a. p.		
Delhi Canal: Masonry bridge over the Bourance Outlet Nullah, on the Delhi Canal.	In lieu of an old bridge, two arches of which had fallen.	Sanctioned 4th October 1839.	- Situated near the village of Shahpore.	2,315 3 10	3,330 9 9	Completed season 1840-41.	The savings are ascribed to the sub- atitution of gratings at the depth of six feet, instead of cylinders, under the wing walls.
New cut for protecting the Channel, and for the secu- rity of the Dadoopure Dam.	- To protect the Delhi Canal from injury by incursions of the Soance River.	Longth 11,200 feet, width 75 feet, average depth 9 feet.	Delhi	1,779 13 2	1,779 13 9	Completed season 1843-44.	The cut has since been widened by the action of the current to twice its original dimensions.
Protection to the west flank of the Dadoopore Dam.	- For securing the right bank of the Sombe River from the at- tucks of the current after it leaves 'Baker's Cut.			5,005 4 1	5,632 9 10	Completed season 1849-50.	
Bridge over the Delhi Canal at Rhudour.	To promote the traffic of the town of Rhudour.	Sanctioned 15th August 1837.		9,577 5 9	• • • •	Completed season 1841-42.	The roadway is of timber, and is supported on mesonry piers.
Construction of an Iron Sua- pension Bridge at Indore, over the.	With a view to the mainto- nance of the communication of the country.	- Sanctioned 24th August 1838.		13,267 7 5		Completed season 1840-41.	
New channel under the Indore Bridge.		Sanctioned 24th August 1838.		15,717 14 🔹	18,122 15 5	•• Completed season 1842-43.	The soil through which the new cu was to be excavated proved to be so saturated with water as to prevent a greater depth of excavation than fou
							feet being attained. The action of the current has however cleared out the channel to the depth of eight or nine feet
Construction of a Dam Bridge across a ravine at Dadoo- pore.	 In lieu of an overfall drain bridge, which was carried away during heavy rains in 1841. 	Senctioned 15th April 1843.			548 15 10		
Construction of two Inlet Bridges over ravines, enter- ing the Canal near the	- These inlet bridges are neces- sary to preserve the continuity of the embankments, and to check	June 1847.	* * * *		1,141 - 10		
Pucca Tank, west of Hissar.	the influx of siit, at a point between tank of Hissar and the village or Shekspore, where both banks of are interrupted by ravines, which canals at opposite points.	f Solumno the canal		ALL N			
Construction of Corn Mills -		Sanctioned 6th July 1844, and 30th August 1844.	Under the town of Rajpore.	4,938 2 -	For 8 mills, Rs. 5,414 3,960	Constructed season 1845-46.	
Componentian to individuals for loss of property and profit.	- In consequence of the water from the old Rajpore watercourse having been turned into the ma- soury channel.	- Sanctioned 18th May 1845. Sanctioned 24th July 1845.		2,732 13 - 4,205	<u></u>		Ton miles already constructed by
econstruction of the Dakra Aqueduct.	damaged by heavy rain on the 27th July 1844.	Sanctioned 2d December 1844.		1,542 10 1	3,480	Completed season 1845-46.	been rented for upwards of 4,000 ru- pees per annum.

								*		rs - ye			10 J	
man an annual and an annual and an	1		1 .			i i				1			1	1
Repair of 13 Tanks	. To making them serviceable	Sanctioned 10th		•		Ľ	5,004	10 7	j.,	٥	,004 1	3 73	Season 1845-46.	
• •	ES RESERVOIR FOR BRIGACOR.	July 1043.	ŀ	3								57		
Dooab Canal		* * * *	- ,			-		•	•.	• •	•	• •		pended on account
						1								of canal works, in-
2 2				*			9 8 %	- 15	or - :55	9	88			cluding, current ex- Rs. a.
			1											penace to let May
		Later and the	8 *	5046	٠, ٠	100				0.0	1	10 07	1 12 2 2 2	1847 - 23,20,868 11 Deduct value of
		All a	980	1990	120	ſ	Bar 9	for a						dead stock - * - 8,01,983 19
		i s ii				1	14		- 86		10.00			·
		y * 3 #N /		a l	× 6	l			· [Amount realised by
			l	٠.		1 /	g. " "		4 j	•	× :- ,	442 ×		revenue 14,63,196 4
100 TO 100 M 1000	•						- 1	401 1				•		
· William !			1		165			*	• •		3 5	± 0		Deficit, Co.'e Re 55,698 -
Mary Mary		, 1 . 00 1500 15000 11 1	,		-	'			36 G			(¥	The amount ero	ended on account of plantations on the ba
		1 10 March 10 10 10 10 10 10 10 10 10 10 10 10 10				1	35	23 ×		64	× ,		of the Doosb Co	anal, to 30th April 1847, was Re. 21, amount realised, Re. 6,505. 8 a. 9 p.,
		e a see " g e a "		92	¥	1		. 1	. 1		1	%	12 s. 2 p. The	amount realised, Re. 6,505. 8 a. 9 p.,
	als service. A service				100	1		•				B. 4	. True Ayran or the c	rees on the canal banks, 1,46,793 rupes
Restitution of the Newgong	- Greatly injured by a flood on	Sanctioned 24th		949		1	36.694	4 5	V as a	. 30	0.745	- - ·		
Dam, and construction of a	the 21st June 1841.	March 1843, .	-	7 0	A	1	40,000				.,,	5.	1. ", 2 "	
Retaining Dam.		an an Ann				1	_ = 0	. s [*] .		7	Θ.	. x		
Constructing the Outlets of the	With the intention of protect-	Sanctioned 20th					656	9 -	. 8		. 661	8 8	Completed sessor	
Head of the Puthine Rajbu-	ing the bead supply, as well as	September 1844.				100				~	*		1846-47.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ha, in the North Division of the.	giving the power of delivering water into the rajbuha, or briga-				9 10	1.				0.3		9 10	The same	
the.	tion channel, with greater facility.			8		1	701 10		8.	l	22.8			
		50 255 N	100											
Clearance of the Khorra Head of the Canal.	In consequence of a change which took place in the main	Sanctioned season 1844-45.				1 -	•	· •*			1,871	4 6	Season 1844-45.	
or the Canal.	channel of the Jumpa towards	1014-10.	1)(4		1				2.75 2	* 1	· . [1 11 11 11	9000 8 08 M
Dadoopore Dam :	the close of last rains.					1	8 9	134	970 ¹⁸	820				AND THE RESERVE OF
Protection of the East Flank	By securing the right bank	- Sanctioned 26th		E 80	100	1 .	6 717	6 9		0.000	8.073		Completed season	
of the.	of the Jumna against further	July 1845.		-	7	1	0,111		10 20 3	# 600 g	٠,٥,٠,	2	1846-47.	1
Tene a ser o	encroachments of that river.	5 A MA	1	37		1 .	. Al		24		N	antik p		
Bleasures for the security of	The floods of July 1845,	Sanctioned 19th		ga Barr			15,211		355	1	4,647		Completed season	
the Canal Works.	from their long duration and ex-	March 1846,		2004		1					10		1846-47,	1
	treme violence, did considerable injury to the crib spurs intended	eeu tite				1	5 370	-2 2				21 15 12 1		1
the second second	for the protection of the right						38 B	10						1
3	bank of the Jumua, to the earthen	10.		, A		11.		9 8		2.0		6		
Delhi Canal:	bund on the Sombe.			., 254	, .	1 .					985	1700 1000		* * * * * * * * * * * * * * * * * * * *
Improvements of the Em-	With a view to confine the	Sanctioned 9th	Near 1	Hierar		1. 5	9,290				9,290		1	In consequence of too great
bankments of the.	canal within certain limits.	September 1845.		(E) (A)	100		0 6 8	905			ĕ	-	And the second	conomy in the original construct
22				- a		1 kg - 1					24		all as the little	the canal constantly floods the land the vicinity of Hissar.
Delhi Canal: Construction of 20 seconds			t	•				**************************************		i i na na		1,8	1	The strainty of strates.
class Chowkies, and furnish-	Necessary to enable the su- perintendent and his establish-	- Sanctioned 1st December 1845.	•	• . :		•		•	•	- (,714		Season 1845-46.	The form and the same of the
ing Chowkies.	ment to pass with convenience	arounder actor			1740 12	1 6	• •	20 E			18 TES			
Delhi Canal :	and rapidity along the line.		ļ		10		- 0	R85	* //		32	•	7.5	4
Construction of five first-class	Sanctioned, after personal in-	Sanctioned 7th		350 14 22						. 0	,133	4 10	- Completed season	
and six second class Chow-	quiry as to their necessity.	May 1845.	- 0	200	_	1		_			,		1845-46.	To a control of the c
kies.														

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CANALS, NORTH-WESTERN	PROVINCES—continued.		· · ·	Re. a. p.	Rs. a. p.		
Donab Canal: Construction of three Bridges on the.	To facilitate the communica- tion of the country. At present the villagers, with difficulty and inconvenience, ford the canals at their respective ghauts.	• • Sanctioned 3d April 1846.	- At Admerpore, Kyampore, and Beh- lap, in the South Di- vision.	4,004 — 9	4,394	Completed season 1847-48.	
Alterations to 15 Bridges on the.	. With a view to give an in- creased and less impeded water- way.	Sanctioned 28th March 1846.	In the centre di-	7,270 3 9	8,528	Completed season 1847-48.	
Digging of the Manti Rajbecha on the.	- To give a supply of drinking water to 33 villages in the district of Scharuppore, and for irriga- tion.	Sanctioned 22d November 1841.			- An advance of 19,120 rupees sanc- tioned on the 22d No- vember 1841.		The return to the State will be about 5,500 rupees per annum.
Construction of a Dam with Bridge for.	- For securing all the Docab Canal escape water for the Delhi Canal.	Sanctioned 23d October 1841.	At Pysobad	13,881 3 1	13,304 for a bridge Rs.3,021. 3.	Completed season 1843-44.	- This outlay will soon be repaid by the return derived from the employment in irrigation of the quantity of water now lost, and by the annual saving of the expense of temporary bunds.
Construction of Drains for irrigation.		Sanctioned 31st May 1831.		16,221 8 2	16,376 8 2	Completed season 1841-42.	<u> </u>
Dooab Canal; Construction of a third Chamber at the Ghines and Megla Falls.	". To facilitate repairs, and to avoid the necessity of forming cuts around the Falls for the passage of water, and thereby admitting ailt at the same time into the canal.	Sanctioned season 1838-39.		20,761 11 =	13,518 8 8	- Completed season 1841-42.	The estimate is exceeded by the amount of Rs. 7,243. 5. 9., owing to the difficulties which had to be overcome.
Construction of a third Chamber at the Randole and Hoby la Palls.	* 1	Sanctioned season 1838-39.		7,996 3 1	10,178 - 2	Completed season 1841-42.	- There not having been any natural difficulties to overcome in this work, the charge is by Rs. 2,181. 13. 1. less than the sanctioned estimate.
Construction of a Fall at Behut, between the Mis- karra Dam and Bekia Falls.	- To lessen the velocity of the water in that part of the Doosb Usual, and its injurious effects on its bed and sides.	Sanctioned 14th March 1837.	• • •	22,885 15 6	14,743 - 9	- Completed season 1841-42.	- Owing to the difficulties met with in the execution of the work, the bill has exceeded the estimate by Rs. 8,142, 14. 9.; but no blame at- taches to the executive officer.
Construction of an additional Tail to the Nowgong Dam.	- Necessary for the safety of the dam.	Sanctioned 19th April 1842.		16,486 11 9	18,000	Completed season 1842-43.	- This dam was almost entirely de- stroyed by a severe flood on the 21st June 1841.
Daduopine Dam	- Repair of breaches made by floods in July 1845.	August 1846.		1,756 6 1		Completed season 1846-47.	
Construction of a Pucca Revetment.	- This work will conduce to the appearance of the Canal, and to the comfort, and perhaps even the health of the inhabitants of Delhi.	- Sanctioned 3d September 1846.			9,277	* · · · ·	

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Outle Canal Donal Can Improve and I Construe Drain ramps Protecti Bridg Construe Choke npper		- To remedy the inconvenience experienced in the free transit of boots between Selimpore and Shamil. - The ramps are high and massive, and as they intersect the natural drainage of the country at right angles, the rain water, without these drains, would have accumulated on the upper side of the ramps, and nozious swamps have been formed. - Considered in dispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class clockee, which is	- Sanctioned season 1846-47. - Sanctioned 8th June 1846. - Sanctioned 5th March 1847. - Sanctioned 17th December 1846.	Dooah Canal	16,059 12 2 2,347 13 5		2,338 5,174 6 - 3,021 2 - 1,193 7 4	- Completed season 1846-47. - Completed season 1847-48.	- These are fitted with lever frames, inver sluice and shutters. - The superstructure of these bridges has been related.
Dooal Can Improve and I Construction Drain ramps Protecti Bridg Construction Cons	rement to the Romalla Kandraoli Bridges. uction of 60 Cross ins attached to the pa of 30 Bridges. tion of the Gundewar ge by a masonry Tail.	experienced in the free transit of boots between Selimpore and Shamil. - The ramps are high and massive, and as they intersect the natural drainage of the country at right angles, the rain water, without these drains, would have accumulated on the upper side of the ramps, and noxious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	June 1846. - Senctioned 5th March 1847. - Sanctioned 17th December 1846.	Dooah Canal			5,174 6 - 3,021 2 ~	1847-48.	
Improved I Construction of I C	wement to the Romalla Kandraoli Bridges. uction of 60 Cross ins attached to the pa of 30 Bridges. tion of the Gundewar ge by a masonry Tail.	experienced in the free transit of boots between Selimpore and Shamil. - The ramps are high and massive, and as they intersect the natural drainage of the country at right angles, the rain water, without these drains, would have accumulated on the upper side of the ramps, and noxious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	June 1846. - Senctioned 5th March 1847. - Sanctioned 17th December 1846.	Dooah Canal			5,174 6 - 3,021 2 ~	1847-48.	
Constru Drain ramps Protecti Bridg Constru Choke	Kendraed Bridges. uction of 60 Cross has attached to the pa of 30 Bridges. tion of the Gundewar ge by a masonry Tail. uction of a first-class has at the Khurra or	experienced in the free transit of boots between Selimpore and Shamil. - The ramps are high and massive, and as they intersect the natural drainage of the country at right angles, the rain water, without these drains, would have accumulated on the upper side of the ramps, and noxious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	June 1846. - Senctioned 5th March 1847. - Sanctioned 17th December 1846.	Doord Care			5,174 6 - 3,021 2 ~	1847-48.	
Drein resulps Protecti Bridg Construction Choke paper	ins attached to the pa of 30 Bridges. tion of the Gundewar ge by a masonry Tail. uction of a first-class as at the Khurra or	Shamil. The ramps are high and mas- start and as they intersect the na- tural drainage of the country at right angles, the rain water, with- out these drains, would have ac- cumulated un the upper side of the ramps, and noxious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	March 1847. - Sanctioned 17th December 1846. - Sanctioned 10th		I,191 9 8		3,021 2 ~		
Drein resulps Protecti Bridg Construction Choke paper	ins attached to the pa of 30 Bridges. tion of the Gundewar ge by a masonry Tail. uction of a first-class as at the Khurra or	nive, and as they intersect the natural drainage of the country at right angles, the rain water, without these drains, would have so-cumulated on the upper side of the ramps, and nozious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	March 1847. - Sanctioned 17th December 1846. - Sanctioned 10th		L,191 9 8		3,021 2 ~		
Protecti Bridg Constru Choke	tion of the Gundewar ge by a masonry Tail.	tural drainage of the country at right angles, the rain water, without these drains, would have accumulated on the upper side of the ramps, and noxious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokee, which is	- Sanctioned 17th December 1846,		L,191 9 8	-			
Protecti Bridg Constru Chok npper	tion of the Gundewar ge by a masonry Tail, uction of a first-class kee at the Khurra or	right angles, the rain water, without these drains, would have accumulated on the upper side of the ramps, and noxious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	December 1846, - Sanctioned 10th		L,191 9 8				
Bridg Constru Choki npper	ge by a masonry Tail. uction of a first-class kee at the Kharra or	cumulated on the upper side of the ramps, and nozious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyastur, the nearest first-class chokes, which is	December 1846, - Sanctioned 10th		I,191 9 8				
Bridg Constru Choki npper	ge by a masonry Tail. uction of a first-class kee at the Kharra or	the ramps, and noxious swamps have been formed. - Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	December 1846, - Sanctioned 10th		I,191 9 8				
Bridg Constru Choki npper	ge by a masonry Tail. uction of a first-class kee at the Kharra or	- Considered indispensable to the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	December 1846, - Sanctioned 10th		I,191 9 8			G	
Bridg Constru Choki npper	ge by a masonry Tail. uction of a first-class kee at the Kharra or	the safety of the bridge, which has been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyashur, the nearest first-class chokes, which is	December 1846, - Sanctioned 10th		I,191 9 8	-			
Constru Choke upper	uction of a first-class kee at the Kharra or	been considered for some time past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	- Sanctioned 10th		I,191 9 8		1198 7 4	G	
Choke upper	kee at the Kharra or	past in a precarious state. - It was considered desirable to have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is			I,191 9 8		1193 7 4	Consolidad conso	
Choke upper	kee at the Kharra or	have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is			1,191 9 8	·].	1 193 7 4	Camunisted sesson	• <u></u>
Choke upper	kee at the Kharra or	have a depot for tools and stores at the head work, instead of having to depend on that at Nyaskur, the nearest first-class chokes, which is	December 1846.					= = Combleten sesson	
Delki Ca	w need of the Canal,	to depend on that at Nyaskur, the nearest first-class chokes, which is	200		11 27 27		1 Telephone	1849-50.	
		nearest first-class chokee, which is			18 B	•			and the second second
				ann o ke		- 1	14. g		
		at a distance of 6 miles from the Kharra head.						•	
	mai: Repair of the	To increase the waterway -	Sanctioned 23d	Madhilpore		- 1	2,490		The castern abutment of the bridge
Medhily	pore Bridge over the.		June 1847.						was turned by the floods of August 1846, and as the Canal is about 20 feet
V 10								3 H 2 2 N	wider than the length of the bridge, it
, pa						1. T	Mar Sp. K		is proposed to reconstruct the abutment as a pier, and to add an arch of 22 feet
Dooab Cas	mal,				8		4		to the bridge.
Reconst	truction of Watermill's	Nos. 17 and 18	Sanctioned 13th	Delhi	6B1		681	- Re-constructed	
Range	S		March 1847.				·	meason 1847-48.	
Delki Can.	ion of Road Embank-	- These artificial banks, con-	Sanctioned 19th		13,974 6 6		1 120 0 120 1100	Completed season	
ments		structed on low ground, confine						1847-48.	- The swamps originated in too great an economy in the construction of a
125 1 1 1 1	THE ST IN THE STATE OF	the waters of the canal within their limits, and prevent the formation	alaman grant g			- 1	7 7 5 - 1 5 - 1		canal, which was led through low and
		of swamps,			** *** *** *** ***	- 1	8 8 W		broken ground without any measures being adopted to confine its water,
Constru	uction of Buildings -	For a dispensary and quarters	Sanctioned 17th	Dadoopore	960 15 9	- 1	1.029	- Completed sesson	
		for the sub-assistant surgeon ap-	February 1848.				1,000	1848-49.	
week at		pointed to the medical charge of the canals at Dadoopore.	2 *						
D.C			30 80 80 80 82 82 82 82 82 82 82 82 82 82 82 82 82	24		. [.			Simo y
Canal	g the Boundary of property in the city	It was impossible to recognize the boundary of the property.	- Sanctioned 23d October 1849.	Delhi	958		958	Sesson 1849-50.	and the second of the second o
of De	elhi.	<u></u>			a I a		a test o	A 22 50	
Constru	uction of new Chokies .	For the convenience and effi-	Sanctioned 21st	At Gungatole Nar-	8 H	_ [2.805		
	9 90	ciency of the canal establish-	February 1850.	noand, Landakherra			_,000	T	to the same of a coloured
		ment.		and Kylana.	··· Ø <u>E</u>	. I .	6 Mag		(continued)

No G .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Soason 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount . of Expense Incurred,	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CANALS, NORTH-WESTE	EN PROVINCES—continued.			Re. a. p.	Rs. a. p.		
Delhi Canal—continued. Construction of masonry Bridges.	- To replace the cross bridges of wood, which were not considered sufficiently strong to bear the heavy traffic of that country.	Sanctioned 8th October 1849.	At Jooah and Chota Thannah.		For Jooah Bridge, 1,978 rupees; Chota Thannah, Rad 1,062-0.2.	Season 1849-50 -	The Josah bridge to have one arch, with a waterway of 34 feet; the Chota Thanna bridge one arch, 30 feet span.
Alteration of one mile of the Canal, between the Bridges Kuttra and Bolak Begum, near the city of Delhi.	To render the Delhi branch available for ratu and boats up to the walls of the city.	- Sanctioned 24th October 1850.	Delhi		Rs. 7,730. 5. 2. and 1,200 rupees as com- pensation for the land.		- The canal, on its new line, will have open clear banks for inspection or pre- servation, instead of obstructions by old enclosures, gardens, tombs, &c. bosts and rafts will be enabled to pass down to the city walls and to the Cabul gate,
Dooal Canal: Construction of masonry	For the protection of the banks -	Sanctioned 5th	Dooab Canal	. *			through the removal of old bridges, &c.
Heads to nine Rajbuhas.		June 1847.	-		3,631 11 -		
Construction of two Flour Mills on the Cardbunns and Madhoopore Rajbuhas.	 In order that advantage might be taken of water-power available in these rajbuhas. 	Sanctioned 5th August 1847.		2,214 7 7 -	2,378 2 8	Completed season 1849-50.	- There is every reason to believe that the outlay will be turned to good ac- count.
Mangoe Gardens, under the Superintendent of the Doosh Canal.	For supplying the mangoe fruit and grafts of the trees.	Sanctioned 29th November 1849.	The gardens are at Manickmew, Berkher- ree Dowlah, Surrowlis and Selimpore.		8,040 5 9	Completed season 1849-50.	- The only garden which had reached the self-supporting stage was that at Sur- rowile, which had paid 8 per cent. on the outlay. The fruit and grafts were in great demand by the natives; notwith- standing the price of the grafts had beer raised from 2 annas to 6 annas, there was no diminution of the demand.
Cut to complete the drainage of the country round the town of Shamlie.	- To excavate a straight chan- nel for the Shamlie Nullah, from the excape of the Shamlie Mills to the Khern outlet cut.	Senctioned 22d June 1848.		2,069 13 -	2,260	~ - Completed season 1849-50	- The total length of this cut is 14,476 feet; the expense of this cut, and of its future repairs, is to be charged, in equal proportion to the canal and local funds.
Construction of a second Head to the Scharuppore Mill Cut.	- To prevent the suppage of the mills when the supply is cut off from the first head, to enable the workmen to clear away the silt, which is freely deposited in this channel.	- Sanctioned 28th August 1847.		1,815 2 4	2,198	Completed sesson 1849-50.	-
Construction of the Amith Mhaw Cut, with two ma- sonry Bridges.	- This cut was made to enable the natural drainage of a large tract of ground to pass freely through the canal embankments.	- Sanctioned 30th May 1846.	- In Pergunnah Gungo, Zillah Scha- runpore.	1,436 3 3		- ~ Constructed sea- son 1847-48.	- The land thus relieved from stand- ing water is now available for cultiva- tion.
Degrah Doon: Repairs to the Rajpore Water- course.	- The Ruspinmah River has been turned back to its old channel.			1,573	1,573	- Completed season 1847-48.	

	20 M 12		8			, s	≈ §
ROADS AND BRIDGES	SOUTH-WESTERN PROVINC	ES: -	1	100	1		
Diamond Harbour and Barri- pore Roads: Repair of the portion between Gurriahaut and Barripore.	- Both these lines are much out of repair, and are much wanted to enable the cultivators to bring the produce of their lands to Cal- cutts.	Sanctioned 6th	In the 24 Pergunnahs	10,190 12/2	10,190 12 2	Scason 1841-42 .	- An attempt was made to obtain the assistance of the landholders; but nearly all the extatus along the line were under the management of the Government officers, and accordingly the State was, in fact, the Zeminder.
ROADS AND BRIDGES	LOWER PROVINCES:	- 3	E	The second of the second			24
Daudpore to Sheerpore: Con- struction of a new Road.	- In lieu of a road which had been carried away by encrosus- ments of the River Ganges.	- Length 13 miles; sanctioned 4th June 1839.	Sheerpore	1,592 4 -	1,592 4 -	Season 1839-40 -	This new line is taken well inland.
Dondcondy to Mungde: Con- struction of 40 wooden Bridges.		Sanctioned 27th May 1841.	- Chittagong to the Ferry near Company Kattath.	3,625 6 8	8,625 6 8	Completed season 1841-42.	- All the masonry bridges on this line are being repaired, great damage having been done by an unusually severe flood
Darjeeling and Calcutta Road -	- To perfect the communication between Calcutta and Darjeeling, which new station is becoming a place of general resort for invalids.	Length about 363 miles; sanctioned season 1840-41. Ber- hampore to Baraset, 120 miles; Baraset to Kishnagur, 50 miles.	Calcutta =	- The work has been per- formed under divisional su- perintendence. No general return of the amount of ad- vances has been prepared, but so far as can be sacer- tained, the amount expend- ed for road works, bridges and bungalows, to the pe- riod of its completion, has been about 95,957 rupees.		Completed season 1843-44.	- The old line of road between Berhampore and Dinagepore vid Mada, has been abandoned, and a new hine, 30 miles shorter, adopted. This road was reported to have been put in a perfect state of repair as a few weather communication, and it would only require ordinary repairs after the rains of each year. It had been intended, when the road was first projected, to employ convicts extensively on it, but, owing to great dekness the convicts were entirely withdrawn.
Darjeeling: Road from, to the foot of the Hills.	This work, when finished, will be eminently useful.	and 181 yards; sanc- tioned 30th Novem- ber 1840 and 1841.	Hills above Dar- jeeling.	- The aggregate cost of this line was 66,829 rupees, including that of bunga- lows, &c.	28,396 11 2	- Completed season 1840-41.	- "This road has been opened for for passengers by Lieutenant Napier, of th Engineers, and is quite practicable t
Darreeling Road ;					attended with gr	sat labour. The excess of	233 miles are opened to the full width of et. The execution of the work has been expenditure is owing to the employmen opers, a sufficient number of whom could
First Division; construction of three Bridges and six Drains.		Sanctioned 28th December 1841	Berhampore	7,087 10 21	7,087 10 23	Completed season 1844-45.	
Second Division; construction of Wells.	For the convenience of tra- vellers,		- Between Burgat- chee and Dinagepoor.	436 6 6	436 6 6	- Constructed season 1842-43.	
Construction of roads in the neighbourhood of, including the "Auckland Road."	For facilitating the means of communication.	- Length about 41 miles; sanctioned season 1844-45.	Darjeeling	4,499 8 -		Completed season 1844-45.	
Construction of a wooden Bridge.		September 1849.	Over an embanked road across the Jheel, connected with the	841 8 10 1	756	Completed season 1849-50.	- The bridge is on saul framework, o three openings of 14 feet wide by 7 fee high; the Pransawgor embankment is in
			Barrow Karry, on the south side of the Pran- awgor Tank, on the Darjeeling road.		ern side; the Ke way of 277 feet in drains in the bun by the rush of w	arry passes through the en a length by 12 feet in height, which, at its southern ater which tops the embe	if dams up the Barrow Karry on its north bankment by a bridge, affording a water that and three are also two small planker end, is annually involated, and cut away inkment, owing to the waterway afforder ented by the construction of the bridge.
V 1	40 1 100	1000	Fig. 1.	I	287 4		(continued)

Gesel Bridge at the Florad portion of this flood. Dinapore. Reyair of the road between Dump Dam and Cossipore. Reyair of the road between Dump Dam and Cossipore. Regard Nullah st. Regard Florad Space and Space of the Creighton's Pucka Bridge, with the Space of the Space	NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination,	Amount of Expense Incurred.	Estimated Amount. for Completion.	Probable Time of Completion.	REMARKS.
From the first of the road between thin Road. Leading from the Main Guard Market State and Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Consequence, which are seen that Road Leading and Road Leading that Road Consequence, which are seen that Road Leading that Road Consequence and Road Leading and Road Leading that Road Leadi	ROADS AND BRIDGES, LOWE	a Paovinces continued.		1-1	b			
Bergaterly and Goologoree, which major to Reveloper's Reconstituting the Fucks portion of his Road. Leading from the Main Guard the Main Guard the Reveloper's Reconstituting the Fucks portion of his Road. Disappore to Rankipore; represent of the road between place of the road between Puns Puns of the road between Puns Dun and Consigore. Puns Dun and Consigore. Respite of the road between Puns Bankipore Sanctioned July 1841. Respite of the road between Puns Bankipore Sanctioned July 1841. ROADS AND BRIDGES. NORTH-WESTERN PROVINCES: Estimates for bridge and metalling the Bload. Project for a permanent communication as metalling the Bload. Project for a permanent communication as metalling the Bload. Project for a permanent communication as metalling the Bload. Froject for a permanent communication as metalling the Bload. Froject for a permanent communication as metalling the Bload. Froject for a permanent communication to the plant of view it is impressed to nonest Delhi with the great plant of road between the six plant proposed is important to connect Delhi with the great plant of view it is impressed to connect Delhi with the great proposed is important to connect Delhi with the great plant of road between the metalling and extensively proposed is important to connect Delhi with the great plant of road between the metalling and extensive proposed is important to connect Delhi with the great plant of road between the metalling and extensive proposed is important to connect Delhi with the great plant of road between the metalling and extensive proposed is important to connect Delhi with the great plant of road between the metalling and extensive proposed is important to connect Delhi with the great plant of road between the point proposed is important to connect plant of view it is important to connect Delhi with the great plant of road between the proposed is important to connect plant of view it is	rjecting Road continued.					мг. а. р.		
threting the Packs portion of Bridge at Dinapore to the Parads as Sankipore; respectfuling of the Fucks portion of this Road. This road connects the city of parameter of Dinapore. This road connects the city of Parads with the cantonment of Dinapore. Parameter in the Example of the Packs portion of the Road. Parameter in the Example of the Packs portion of the Parads as Dinapore. Parameter in the Example of the Parads as Dinapore. Parameter in the Example of the Parads as Dinapore. Parameter in the Parads as Dinapore. Parameter in the Example of the Parads as Dinapore in the		Burgutchy and Godsgaree, which was liable to be cut away and	and 33 yards. Sanc- tioned 14th March		1,136 9 11			
Disapore to Bankipore; researching of the Focks por smoothing of the Focks	tructing the Pucks portion of	Bridge at Dinapore to the Parade	May 1845. Length	Bankipore	12,775 11 114		Completed,	
The read connects the city of Farna with the cantonment of Dinapore to Bankipore 1. Length about 7½ Bankipore 2. The metalling of the Packs portion of this Road. The read connects the city of Dinapore to the Packs of Dinapore to the Parade at Dankipore. Sanctioned 34. Danopare to the Parade at Dankipore. Sanctioned 34. Danopare to the Parade at Dankipore. Sanctioned 34. Danopare 1851. Longth 3 miles. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: At the Shamile with Karanati strumtees for bridging and stelling the Road. A permanent communication across the Junea at. Limina st. - A permanent communication across the Dinapore to the direct of the Packs Bridge and the Junea at. - A permanent communication across the Dinapore to the direct of the Packs Bridge of Packs Bridge and the Junea at. - A permanent communication across the Dinapore to the direct of the Packs Bridge of Pac		a Danaipore.					The second second second	
incomed 17th February 1851. Length 3 miles. Sanctioned 3d Docember 1839. Length Nullah st. Bequired in the place of the Creighton's Purks Bridge, which was destroyed by an inundation in July 1841. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Bandle vik Kurnaul', strington 1874. Forests for a permanent communication across the sit we point proposed is important to commence to Meerut, in the Docab. In a suilistary point of view as it would provide the ready Delhi and the serious it continus, from the neighbouring cantonment of Meerut, in the Docab. In a commercial point of view is in important to connect Delhi with the grand trunk road, and so form a good meass of transit for the skubble merchandize which passes through Delhi in either direction, from the east or either direction of the	inspore to Bankipore; re- metalling of the Pucks por-	Patha with the cantonment of	miles from the Main Guard Bridge at Dins- pore to the Parade at	Bankipore		14,363 8 -		The width of the metal is 26 and feet.
Sanctioned 3d Documber 1839. - Required in the place of the Creighton's Pucks Bridge, which was destroyed by an insulation in July 1841. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: **A to Shamile via Kuracul stimutes for bridging and establing the Road. **In projects for a permanent communication at the point proposed is important to rought and the arsenal it contains, from the neighbouring cantomment of Meerut, in the Doosh In a bounced of which passes through Delhi with the grand trunk road, and so form a good means of transite for the waluable merchandities for the waluable merchandities for the waluable merchandities which passes through Delhi in either direction, from the east or in the cast or in either direction, from the cast or in the cast or in either direction, from the cast or in the cast or in either direction, from the cast or in either d			tioned 17th February		*			
Creightom's Pucka Bridge, which was destroyed by an inundation in July 1841. **ROADS AND BRIDGES, NORTH-WESTERN PROVINCES:** **It to Shamilie vià Kurmaul:** **It for a permanent communication across the Jumns at.** **It permanent communication across the Jumns at.** **It permanent communication across the Jumns at.** **It permanent communication across to the city of Debla, and the arenal it contains, from the neighbouring cantomment of Meerat, in the Doosb, is a commercial point of view it is important to connect Debla with the great runk road, and so form a good means of transit for the realurable members of the realurable mem		* * * * * * * * *	Sanctioned 3d .De-	Cossipore -	6,776	. 6,776		This is a pucka road.
**Estimate submitted to bridging and stalling the Rose. **A permanent communication proposed is important in a military point of view, tast in a military point of view it is important to connect Delhi with the grand trunk road, and so form a good means of transit for the waluable merchandize which passes through Delhi in either direction, from the east or	uggrah Nullah et.	Creighton's Pucks Bridge, which was destroyed by an inundation in	this bridge is 191 feet in length. Sanctioned	Dinagepore	8,601 11 62	8,260 11 2		
**Estimate submitted to bridging and stalling the Rose. **A permanent communication proposed is important in a military point of view, tast in a military point of view it is important to connect Delhi with the grand trunk road, and so form a good means of transit for the waluable merchandize which passes through Delhi in either direction, from the east or	ROLDS AND BRIDGES	NAPPH PERSONN BROWNS						
ted July and August 1840. - A permanent communication across the Jumns at. - A permanent communication across the Jumns at. - A permanent communication across the Jumns at. - A permanent communication at the point proposed is importance of the work, but was the Jumns at. - A permanent communication at the point proposed is importance of the work, but was the Jumns at. - By a causeway and bridge of boats - - Causeway - Bridge of boats - 2d Scheme. By a suspension bridge with causeway: Suspension bridge with causeway: Suspension bridge - Causeway - 1,50,000 Total Re. 2,50,000 Total Re. 2,50,000 Total Re. 8,50,000	i to Shamlie wit Kummul.	NORTH-WESTERN PROVINC	CONTRACTOR AND THE CONTRACTOR OF THE CONTRACTOR	O1		0.05.050	100	
- A permanent communication across the built proposed is important in a military point of view, as it would provide the ready means of access to the city of Delhi, and the arsenal it contains, from the neighbouring cantomment of Metrut, in the Dooab. In a commercial point of view it is important to connect Delhi with the grand trunk road, and so form a good means of transit for the valuable merchandize which passes through Delhi in either direction, from the east or	stimates for bridging and stalling the Road.		ted July and August	Shamile	1st Schama	2,95,056		• - The work has been placed in hands of the local civil officer; the pense to be defrayed from local fund
means of access to the city of Delhi, and the arsenal it contains, from the neighbouring cantonment of Metrut, in the Dooab. In a commercial point of view it is important to connect Delhi with the grand trunk road, and so form a good means of transit for the valuable merchandize which passes through Delhi in either direction, from the east or	munication across the	at the point proposed is impor-	Lieutenant - governor	Delbl	By a causeway and bridge of boats: Causeway			- The Governor-general admitted importance of the work, but was ne theless of opinion, that in the pre-
from the neighbouring cantomment of Meerut, in the Dooah. In a commercial point of view it is important to connect Delhi with the grand trunk read, and so form a good means of transit for the waluable merchandize which passes through Delhi in either direction, from the east or	*, * ** 4-	means of access to the city of Delhi, and the arsenal it contains.		*c				of still greater utility must have
is important to connect Delhi with the grand trunk road, and so form a good means of transit for the waluable merchandize which passes through Delhi in either direction, from the east or		ment of Meerut, in the Dooah.		* §	By a suspension bridge with causeway:			
for the valuable merchandize which passes through Delhi in either direction, from the east or Sd Scheme. By a masonry bridge and causeway:		is important to connect Delhi with the grand trunk road, and			Suspension bridge -			
either direction, from the east or	* **	for the valuable merchandize which passes through Delhi in				Total Rs. 8,50,000		
Causeway - 1,50,000					causeway : Masonry bridge -	Rs. 4,50,000		

	or nat		a in the second	1		
Construction of a Canaeway on both banks of the RiverJumns, having two openings, each duty		- Senctioned 22d July 1846.	- From the terminus of the grand trunk road at Selempore to		1,37,481	- The less expensive project of a causeway with two openings was sanc- tioned by the Governor-general in July
provided with Pucca Bridge Heads, for the passage of the waters of the river.			the Negumbode gate of the city.		1846. The main opening having a span below the Negumbode gate, of 200 feet, for the floating of 90 boats, 24 feet wi main depth of the river at 8 feet), an unit	making a total of 3,000 feet, or allowing
ROADS AND BRIDGES	CENTRAL PROVINCES;		La region of the second		· · · · · · · · · · · · · · · · · · ·	
Deeskulles Bridge over the Gun- gee Nullah, on the road from Benarce to Ghazeepare.	This bridge was required in the place of one built in 1820, which, owing to an insufficiency of waters way, fell in the year 1830.			14,087 — \$	- The immediate space will be filled by a bridge of boats, which will be formed and maintained by the Ferry Fund Committee.	- This bridge is of three arches, of 35 feet span each.
Decodes River: Construction of a Cancoway across the.	- To supersede the construction of a bridge which would have cost, by a rough calculation, about 40,000 rupees.	- Sanctioned 7th October 1846.		7,866 9 5	7,909 Completed season 1846-47.	- The length of the puces pavement is 201 feet clear roadway, of which 155 feet are level, and raised one foot above the highest dry weather stream.
DAIDS AND DRIDGES	SOUTH-EASTERN PROVINC	PQ.				eration jit et e
Dum Dum to Baract, repairs	Forms a part of the road to	! Length 7 miles:	Baraset	7,153 9 3	7,153 9 3 Completed season	
of the Pucks Road.	Darjeeling.	sanctioned 15th April and 31st May 1844.			1844-45.	
Darjeeling Road : Construction of 13 Houses.	- For the accommodation of dawkbearers, and to prevent their resorting in bad weather to the villages at some distance from the	- Sanctioned 23d May 1843.	- Between Bargat- chee and Tittalys, sid Dinagepore.	635 6 6	- Completed season 1845-46.	
	road for protection, and thus occa- sioning much delay and incon- venience to travellers.					
CYVIT, BYILLDINGS, SO	UTH-EASTERN PROVINCES:	. u ¹⁸⁰				
Dhullanduh Insane Hospital	I ROVINCES!	* * 1. Tab	* * * *			
Construction of Sleeping Sheds for Guards.	- Constructed by orders to the address of the Sessions Judge of the 24 Pergannaha.	October 1849.	Dhullundah	1,455 11 2	1,455 11 2 Constructed season 1849-50.	This work was executed under a contract,
Construction of additional Va- randahs, Cook-rooms, &c.		Sanctioned 25th May 1848.		2,528 2 10	Completed season 1850-51.	**************************************
CIVIL BUILDINGS, CE	NTRAL PROVINCES-JUDICI	AĽ:				
Dumoh: Construction of a For- tified Gool at.		Sanctioned 16th April 1845.	Dumoh	22,735 9 2	20,460 7 2 Completed season 1848-49.	Government expressed a desire that the building should be calculated for
					of all the prisoners. The new gaol ha	defence by a small body of men, and a gool for the occasional close confinement a been accordingly made to consist of a stions, with tower curtains, solitary cell, pessencels, for the
CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES-	-JUDICIAL:	* ** ** ******************************		anna yara, reservoira, mana, admentices	t comband and the
Delki Gaol: Construction of Gaol Wards, with Cook-rooms and Guard-rooms.		Season 1841-42 -	Delhi	9,542 5 11	9,999 - 3 Completed season 1842-43.	
				. •		(continued)

	No. 6.—STATEMENT compil	ed from the Reports	of the Military Boar	d at Bengal, from Seaso	on 1839–40, to 1850	-51 inclusive—conti	nued.
NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
			•			0 1 10 11	
	H-WESTERN PROVINCES-JUDICI	· · · · · · · · · · · · · · · · · · ·		Rs. a. p.	Re. a. p.		
Delhi Hospital	Por insanes	Sanctioned Oth		25,793 - 10 (Exclusive of Rs. 399. 5.	20,908 4 1	Completed season 1846-47.	The plan provides for a main build- ing, a separate place for convalescents.
98 W		March 10415 -		for clearing and levelling		10#0-41	and for a garden.
* *				a portion of the site for the asylum.)	f		
÷ *		to the same transmission transmission	_			4	
Deyrah Gaol	- ' ·	Sauctioned 1838-50 -	* * * *	18,553 11 6	15,808 2 7	Completed season	The excess of Rs. 2,744. 8. 11. over
		e se e esque		i sana wena		1840-41.	the estimated cost, is owing to a failure in the executive officer's kilns, and the
			0800				necessity he was under of purchasing
· .			A 8	*	10.00	The second second	bricks from the bazaar, and also to the execution of additional work.
	,* ,* ,*	Sauctioned 16th	,	. 0.500 . 0 . 3	0.000 10		
Delhi Gaol Hospital: Con- struction of a new Bool,		August 1841.	• • • •	2,586 6 1	2,757 15 -	Completed season 1842-43.	
10		•,	*				
Delhi: Construction of a new Kotewalice for the city, and a Lock-up House.	- The old Kotewallee is in a dangerous dilapidated state, part having already fallen.	Sanctioned 4th April 1845.	Delhi	For the lock-up house, 2,369 10 10	Kotewallee 5,929 1 4	Completed season 1846-47.	- The execution of these works devolved on the magistrate.
				i way was	house -2,446 5 -		100
		. v * e *	nte de la companya d	. 90	Rs. 8,375 6 4		
*		* * * * * *	100 %		V40 1		
Delhi Penitentiary: Additions to the.	In compliance with the orders of the Lieutenant-governor for the introduction of a capetan	- Sanctioned 23d May 1845.	Ditto`	934 4 4	1,358 10 6	Completed season 1846-47.	
	mill, to be worked by the						
	prisoners.	· · · · · ·	8 9			• 99	
CIVIL BUILDINGS, LO	WER PROVINCES-JUDICIAL		£0. 90			an fill an an	
Dinagepore Gaol :			• • •	ye • * t	, .	•	
Drainage and Ventilation of	To improve the salubrity -	- Sanotioned January	Dinagepore	3.227 10 8	3,780	Completed season	
the.		1840 and April 1841.	- m-gopure	,] . ",""	1842-43.	
Addition of 15 Skylights -	Ditto	Sanctioned 28th	Ditto	8,149 13 -	8.149 13 -	Season 1842-43.	
		February 1842.		.,	0,		
Dacca Insane Hospital:			, ,			97.1	
Construction of additional	In consequence of the insuf-	Sanctioned 24th	Dacca	. 1,228 5 4	1,228 5 4	Constructed season	
Cells.	ficiency of the accommodation.	July 1842.	2404	rjeed w	٠ ٥ ٥٠٠٩	1843-44.	
Construction of quarters for the Native Doctor and Darogah.	Ditto	Sanctioned 26th December 1843.	Ditto			Completed season 1843-44.	·
					1		
Durrung: Construction of new Bulldings,	In lieu of the existing cutcherry gaol and thannah, which are in a totally decayed state.	Sanctioned Sd No- vember 1841.	Durrang	1,217 11 7	1,169 11 -	- Completed season 1844-45.	

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	Debrooghur :	ĺ		5			- 1			2	2	1	2 2007 3
	Construction of a Gaol at .	For the accommodation of 136 prisoners, makes and females.	- Banctioned 3d April 1643.		•	١.	. 0,4	05 I	10	6,506	5 7	Completed season 1844-45	
	* 4 10 8 *		1 1 1	4 .					12:00				
	Custruction of a Circuit Bun- galow.	In consequence of the incon- venience experienced by the	Sanctioned 14th August 1843,	Debrooghu	r • .	•	3,1	00 2	11	1,746	26	Completed season 1845-40.	
		Deputy Commissioner in holding his Court, from the want of proper buildings.		,			25				51		
		patronge		,	at ^{ro}							s	A 18 20 18
	Dumon: Construction of a new defensive Gaol.		Sanctioned 27th January 1844.	Dumoù -	•		•		•	16,009	14 -		Government expressed a dealer that the buildings should be salculated for defence by a small body of mon, and that
			A		5 07	1		. 90	16				provision should be made for the oc-
36.5	es Tra		у х 10		19					•	Ø 9		prisoners, so as to enable a small botty
						1		3200					of troops to retain the prisoners.
ė	Desbrooghur: Construction of a new Cutcherry.	or In lieu of a similar one con- demned by the annual Survey	Sanctioned 3d Feb- ruary 1846.	Desbroogh	u e -	•	8	- 000	•	5,835	1 7	Season 1647-48 -	- The parchase of Captain Fagan's bungalow for 800 respect, for a cutcherry, was authorised on the 9th June 1847.
Ŷ.		Committee.	3 2 2					82 8			22		as the site was better thun any other that could be obtained.
		S See				1						1	
į	Dinagepore: Improvements to the Magistrate's Cutcherry, by	The insufficiency of the ex- lating building was brought to	Senetioned 7th July 1847,	Dinagapor		-	5,7	166 1	6 2	5,927		- Completed season 1849-50.	The room is to be 40 × 24 feet, with a 10 feet verandah on the sust, wast, and south sides.
	the construction of a Room with Verandules.	notice by the civil authorities, who preferred the present arrange-		-	3	1					2		
:	WIN TOTAL CONTROL	ment for improving the buildings to assigning the upper spartments				:	2 .		i i				
3	a de la companya della companya della companya de la companya della companya dell	of the judge's old cutcherry to								-	a 32 , 0		
		the magistrate, which would have	1.74	18 754									
٠		poor.	·		5					,	V		
	Debracehur: Construction of a new Gaul Hospital.	- The new hospital will be built on a better site; the present	Sanctioned 19th May 1847.	Debrooghu	.			•	• •	681	1 4 .	ļ. -	AND THE REAL PROPERTY OF THE PARTY OF THE PA
		buildings, swing to the want of ventilation, are very damp and		* 8	1.			ý	01		10		
1	* p. 4 * 6	unhealthy.				1	10	*	181		Ÿ		
	CIVIL BUILDINGS, NOR	TH-WESTERN PROVINCES-	LEVENUE	100,000	100			5.7	**	i 10		La compa	
4	Dotagungs, in the District of		Senetioned 13th	Datagunge			4,5	00 12	_	4,860	13 -	Constructed season	
1839	Budaon: Construction of a Tehnidasry Cutcherry at.		December 1838.	5.	y				508	1	144	1838-30.	A see by " "
(%	CIVIL BUILDINGS, NOR	TH-WESTERN PROVINCES—C	BNERAL					-8 L	(A)		. 1 4 ≥		
3	Delhi ·						-60]	30 00		
e.	Improvements to the Staging Bungalow.	The alterations consist in the addition of new dressing and bath	- Sanctioned Oth April 1845.	Dellul -	• .	-	1,6	349 10		1,846	10 -	Completed sessor 1845-40.	
1.00		rooms, the construction of a ver-		199 10	(a)	-	- a - a	. 300°			*	A Taller	2.8
ε,		andah, and throwing a thatch roof over the flat one.	1		en e sp	1		10 s 65		1 -2 - 5			
al	New College at	- Altering the residency build-	Sauctioned 26th	• .			5,6	100 1	8	6,949		Completed sesson 1847-48.	
		fings to adapt them for a college.	November 1840		188 ()		- 1 ₀ =	١.	20 12 X	1 ::			(continued)

No. C STATEMENT compiled	from the Reports of the Militar	y Board at Bengal, from Set	seen 1589-40, to 1860-51 inclusive—continued.
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NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Betimated Amount for Completion.	Probable Time of Completion.	REMARKS.
Civil Buildings, North	-WESTERN PROVINCES GENERA	L—continued.		Re. a. p.	R4. a. p.		
Dongurtal, on the road between Nagpore and Sconce: Construc- tion of a Staging Bungalow.	For the convenience of travellers	Sanctioned 3d August 1840.	* * * *	1,088 5 6	1,075 6 1	Completed season 1841-42.	- This route is much frequented by persons on their way to or from Bombay.
Dumaio: Construction of a Dawk Bougalow and Out-offices.		Sanctioned 21st June 1843.	Damow	1,478 14 ,7	1,478 14 7	Completed season 1843-44.	
Decree : Enclosure of the Burial- ground.		Sanctioned 26th September 1844.	- On the Burdwan and Benares road.	552 10 6	619 4 -	Completed season 1846-47.	
CIVIL BUILDINGS, LOW	ER PROVINCES-GENERAL!	15. 21.5 to 5.5	200		and the self	* * 1. *	
Dacra College		Farctioned season 1842-43; estimate re- vised 10th October 1844.	Dacca	53,707 14 - i	20,568 5 10 The Government contribution not to exceed 17,000 rupees.	Completed season 1848-49.	- The additional outlay of 11,874 rupees was found necessary for the construction of a building in every respect suited to the purpose intended.
Construction of a surrounding Wall and Out-offices.		Sanctioned 30th September 1840.			An additional outlay of 11,874 rupees sanc- tioned 16th April 1844.		
Debroogher Road to Jaipere: Construction of two Berness on the.		Sanctioned 30th April 1845.		3,137	3,137 {	- Constructed season 1846-47.	
Darjeeling: Construction of Staging Bungalows at Carro- golah Ghant, Purneah and Kishengungs.	t - Por the use of Europeans and their families proceeding from the Western stations, and from Cal- cutta to Darjeeling.	Sanctioned season 1846-47.	Darjoeling	7,500	7,500 = =	• • •	- The superintendent of Darjeeling represented the very great inconve- nience experienced from the want o such accommedation.
New Shingle Buof to the Church.	- On the recommendation of a committee, who stated that the church wall threw out a green moss surreally, probably owing to the leakage from the roof.	Sanctioned March 1847.	Darjeeling • -	650	650	Completed season 1849-50.	
Daces: Rebuilding the Enclo- sure of the old Burinl-ground.	The old wall fell during the rains of 1845.	Sauctioned 23d September 1846.	Dacca	080 - 8	• . • • . •	Season 1847-48.	
Dum Dum: Repair of the Roman-catholic Chapel.	The chapel had become greatly dilapidated.	- Sauctioned 8th September 1849.	Dum Dum	1,167 11 31		Season 1850–51 -	This church was built in 1821-22, and re-roofed in 1827-28, in conse- quence of the timbers having been destroyed by white ants.
Renewing the Roof of the Church.	In consequence of the un- soundness of many of the tim- bers.	Sanctioned in 1851 -			5,081 4 10		On the present occasion saul beams will be used instead of teak, which are to be well charred or tarred at the ends; and instead of being built into the walls, they are to be placed with open spaces all round, to facilitate in- spection and removal when necessary.

a.
PAPERS
RELATING TO
PUBLIC WORKS
(INDIA).

- ·	arjeeling Church: Construc- tion of a Verandah, and re- pairs.	- To protect the outer walls from the constant drizzling rain.	Sanctioned 7th March 1851.	Darjeeling + *	-	•		•	2,684	* *		- This church was built in the year 1844, at a cost of 9,500 rupees.
		VER PROVINCES-POLITICAL		# WV				an af Si				
	ebroo Mankk: Grant for Tem- porary Buildings at the new Station of	- This station promises to be- come m piace of considerable trade, being particularly conve- nient, for many of the tea loca-	- Banctioned 5th Pebruary 1840.	The site is on the bank of the Debroo River, near its junc- tion with a branch of	5.0	2,700	• •·	Ď.	•		Season 1839—40.	
	se i	lities, and for the export of grain and cotton from Mattock,	Mechla Gooter,	ter River, called the three miles up from the the Berhampooter.		60 yz						
	arjecting: Construction of Public Buildings at the Civil Station of	- These consisted of a magis- trate's entcherry, a hospital the- nah, bezaar, shops, out-offices, tanks.	Resolution of Go- vernment. Political Department, 23d May 1838.			15,007	* *			1 N N	Completion reported season 1843-44.	
	CIVIL BUILDINGS, CEN	TRAL PROVINCES POLITICA	M:	2 E	F		3.	. 1		100		[*
	emoh : Construction of Build- logs.	- As quarters for the adjutant and non-commissioned officers of the 2d Police Battalion.	Sanotioned 11th March 1844.	Dumoh		4,605	- 5	* 1	4,652	15 6	Completed season 1846-47.	
2	CIVIL BUILDINGS, NOR	TH-WESTERN PROVINCES-	OLITICAL:	4		•	· • •			5.00 65.00	was entry to a	
	elhi: Excavation of a new Tank.	Required in front of the Delhi Palace.	Sanctioned 3d Pebruary 1845.	On the site com- monly called the Goo- labace Bach.		25,117			9 9,845	3 -	Completed season 1846-47.	- 1
			P-11-11-1		1	6,533		10	60,679		Completed season	- Repairs to the extent of Re. 6,533.19. 4.
Di	sihi Palace: Repairs to		- Estimate submitted 27th February 1846.	Delhi		ددوره			20,010	ĬŢ.	1849-50.	may have been executed, as the remainder was not considered absolutely necessary.
¥.	CANALS, SOUTH-BASTE	EN PROVINCES: .	et e	to a section of			·• ·	50,		147 134		Angelon and the second
	ntalles Canal: Excevation of Mad from the bed of the		January 1843.	a and an fig.		3,248	15 . 8	а	9,679	15 5	Completed season 1844-45.	
	stern Canale: Clearance of the Embaukments.	To complete the tracking com- munication along them.	Sanstioned 25th September 1843.			3,726	14 #		4,368	11 8	Completed season 1844-45.	
	ntalles Canal: Excavation of Deposit from the bed of the.		April 1646.			4,470	8 -		6,172	,	- Completed season 1846-47.	- The deposits which had silted up the bed of the canal have been re- moved, and the bed has been deepened.
- W			19 N	general reg				yy 2000	7	8		
p.	ROADS AND BRIDGES,	LOWER PROVINCES:	Of five erches of		1	4.107	1 'A		4,197	11 6	Completed season	The cost of this bridge will -be
	road from Jounpore to Buxar.		20 feet span each; sanctioned 6th Fe-			3,101	pr s				1840-41.	defrayed from the funds under the management of the local egent at Shalabad.
#2 #5 ₀ 1			bruary 1838.		٠.		. 60.	e 4	* (*)			
z.,		TH-WESTERN PROVINCES.	252 34	12 11 N 22 20 11 120	1	S. G. S			0.00		Completed sesson	
	laucah New Gaol : New Gaol Buildings.	Offices for the Magistrate and Collector.	Sanctioned May 1840.	· . · . · . · . · . · . ·		96,761	14 4		13,357	5 7	1841-42.	
		TH-WESTERN PROVINCES—(Ì	205 10 13 0000					1	
E	zwah: Construction of Siz- ging Bungalows	- For the accommodation of travellers.	- Sunctioned 7th January 1846	Rtawah		4,407	- 1		4,847		1840-47,	(continued)

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, BA	STERN SETTLEMENTS—GENI	RAL:	, .	Re. a. p.	Rs. a. p.	*** 1	
Eastern Settlements: Singapore	Hospital for convicts Market at Company Glam -	Sanctioned June 1837 Sanctioned Janu- ary 1836.		2,670 7 9 5,703 9 4	_		and the second s
	Enclosure to gaol	Sauctioned July 1836		10,290 6 10			Some of the state
				Rs. 18,663 15 11	8		
	New market at the China Town at Singapore.	Sanctioned Sep- tember 1634.		23,980 2 7		Completed 1839-40 -	This market covers an area of twice the size of the old one, in order to mee the daily increasing necessities of the
ish Market: Construction of a	In consequence of the present	Sanctioned season		2,216 a 4		Completed 1841-49.	settlement.
ROADS AND RRIDGES	market being liable to inundation. NORTH-WESTERN PROVINCE	E SATISFACION ACTOR		2 2 10 9	• • •		
oad from Ferrah to Horal, on the route from Agra to Delhi; Estimate for Drains and Bridges.	NOWING PROVINCE	Length 102; miles	Horal -		14,884		This work has been placed in the bands of the local civil officer at Agra and the expense will be provided for from the local funds.
ad from Ferozepore to Shi-	For a military road	Sanctioned season 1641-42. Length 415 miles.	Shikarpors	11,145 Ø 6		Season 1841-42 -	The bill for the work was submitt by Captain Hatton, attached to She
CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES-						Soojah's force.
	- Undertaken in consequence of the necessity of retaining a gang of convicts to supply the place of hired labourers, of whom a suffi- cient number for carrying on the numerous works in progress could not be obtained.	Sanctioned season	Ferozepore	1,408 5 5		Completed season 1846–47.	
	VEIL PROVINCES—JUDICIAL		9 × 1				
erreedpore: Additions and al- terations to the Gnot.	- To improve the salubrity of the building.	- Sanctioned 9th April 1845.	Furreedpore	4,104, 10 10	3,623,11 10	Senson 1648-49 -	- The floors will be built on flues for feet from the ground; some division walls, which obstruct the free circuis
CIVIL BUILDINGS, CEN	THAL PROVINCES—JUDICIA						tion of air, will be removed.
uttehporet Construction of a	A new court-house was much required; the records were kept in almost irreparable hungalows, and were exposed to much risk of destruction.	Banctioned 22d	Futtehpore		14,962		The building will be constructed or pucca materials, with flat roof, and consist of nine rooms, with a surrounding verapdah.
	rth-western provinces—	REVENUE:				• • • •	
Tehnillarry Cutcherries.		Sanctioned 11th-	At Terivak and Ayrwah.	At Ayrwah 8,955 8 5	8,870 4 6	Completed season	

r	e ve	_m =						
987.	modate the Collector and ma-	to the existing inconvenient ar-	Sanctioned 17th August 1843.	Futtehghur	15,807 1 9 2 -	17,489 5 4	Completed season 1644-40.	
	gistrate and their Records; and construction of a Untel- erry for the Huzzor Tubessi,	rangement of these functionaries holding their offices in separate buildings, and being separated a dis-	• • • •				ute a	
	and a (loard-room for 70 men.	tance of one mile from their records. TH-EASTERN PROVINCES—G	DNDDAT.				, 19 W	
	False Point Lighthouse	I	Sanctioned season		The breakwater has	Rs. 731.14. 5. sans-	Completed season	The building is of a red colour, hav-
			1830-40.		been completed at a sout of Re. 2,204. d., 'or 996	tioned for plastering the building, and	1841-49.	ing a large white stone on the sea front, and is easily distinguished by passing
			is many to the	* * * * * * * * * * * * * * * * * * *	ruposs less than the amount sauctioned.	2,500 rapecs for a broakwater of rough stone at the sastern		vessels. The interior of the lighthouse has been rendered completely imbitable. The breakwater was visited by the su-
٠			The first		1,1	buud,		perintending engineer of the South- sastern Provinces on the 13th March 1843, and was found quite effective in
								preventing an engroschment of the see.
81	Fakeer Point: Construction of a Lighthouse.		Sanctioned 9th November 1849.	• • •	7,089 9 10	5,000	Completed season 1845-40.	- The excess is owing to the necessity of providing red-stained glass and reflec-
3				8 10	4.5			tors for the lauters, and other necessary items overlooked in the first estimate.
4		TRAL PROVINCES-GENERAL		//4	W	- and		Landing to the second
: :	staging Bungalow.	Considered indispensable for the superintendent of the Bhuttana territory, and the residents at Susn.	March 1842,	Situated between Susa and Hissar.	689 18 1	• • • • • •	Completed season 1643-44.	This building was erected by Major Thorosby, at a cost of \$,000 rapess, and made over by him to the Government.
	CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES-C	BNERAL			2007		
3	Ferozepore Burial-ground ; En- largement of the.		March 1846.	Ferosepore		8,894 4 -		
		BRN PROVINCES_GENERAL	20 e 10 e		ct) +			
	Gangos Canal (See Appendix.)	For making the waters of the Gauges available for irrigation on the eastern side of the Dooab.	Suggested by Cap- tain Cautley, in the year 1830.	ges at Kunkul and pass near to Mescut	Estimates submitted in season 1841-42. Miles.	- Re. 66,65,226, or Re. 58,38,018. 10., exclusive of the sum		It will be necessary, first of all; to convey the water from the Ganges at Kunkul to Rourkes, a distance of 20
•	* * * * * * * * * * * * * * * * * * * *			and Coul, and finally join the river Essu.	Length of main line 453	which would be re- quired for an aqueduot		miles, by an expensive series of works, estimated at Rs. 19,64,876, 12., of
K., 18	grand to the state of		on a m	near Mynpooree.	ghur Branch 100 , Boulundshu- 70	over the Sciani River, which work may be		which sum about 8,63,008 rupess is for the aqueduct over the Solani River.
	ir				Btawah - 179	avoided by taking a more circuitous route,		The estimate further provides for car- rying the main branch from Roorkeg to Chitocra, mean width of canal 150
2	v				" Cawapore - 421	and by crossing the Soluni valley at a		feet; and thence to Campore, 230 miles, mean width 90 feet, at a cost
5(3)	, , , , , , , , , , , , , , , , , , ,				808	higher level.	<u> </u>	of Rs. 28,30,281. O. 6.; and for four branch canals; viz., the Futtehghur
		Branch 1(0) miles, mean b	rendth 40 f feet, cost 6,	53,667 rapose; the Tu	ppul Branch 70 miles, mean	breadth 90 feet, cost 1,0	3,746 rupees ; the She	keabad Brunch 180 miles, mean breadth of the work in 1842, the Governor-
		general being desirous of ar	plying a further test to	the scientific and fluor	icial enhulations on which th	e schome is based. Thi	subsolute prohibition v	yes, however, partially withdrawn on the great degree fast; and Captain Cautley
(0x2)**		was required to conflue his this canal, until further ord	operations from the headers, to two lacs (2.00.00	d to the village of Noor;	poor, on a line of about 100 m	illes. On the 7th Octol	er 1849, Government (was pleased to limit the expenditure on per annum, to which the Court's sanction
1901		was given in their Revenue expended up to the 30th A	Despatch to the tiever	mount of Indla, dated	20th May (No. 12) 1844.	The Military Board, in	their annual report for	the season 1850-51, stated the amount
	Ganges Canal: Construction of a Hospital.	Por the native establishment and workmen of the capal.	Sunctioned 31st December 1845,	At Rourkle	1,280 1 7	673	Completed season 1847-48.	-
	· · · · · · · · · · · · · · · · · · ·		2 - C - C - C - C - C - C - C - C - C -			l • *°	1	(continued)

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
CANALS, NORTH-WES	Tern Provinces—General—o	ontinued.	* 25 * 3	Rs. a. p.	Rs. a. p.	8 15 #	
Ganges Canal: Construction of an Iulet at Ranipore Rac.	- This work is required at a point where the Ganges Canal crosses the Ranipore Itan, a moun- tain torrent, and is designed to overcome the difficulties arising from its position.	Sanctioned 16th July 1849.	- Northern Division of the Ganges Canal.		16,202		The plan is to give the water of the Rao admission into the Canal by a masonry dverfall. Great advantages are anticipated. The inlet will be built almost entirely of boulder masonry faced with stone.
	SOUTH-EASTERN PROVINCE	8 :		ž .	8		
Frand Trunk Road between		1st Division.	Min fgs. ft.	** *	o §	gy a a	
(See paras. 3 to 12 of Court's Despatch, 39th January 1850, at pages 146 and 147 of Parliamentary Return, No. 522 of 1851.)	Of this road only a small portion is in the South-eastern Provinces. This road may be considered as the main artery of land communication through Bengal and Hindostan.	Pultah Chaut on the	ne 8- - 730 4 -	- Expenditure to 30th April 1848, 48,01,000	The estimated amount for completion in December 1846, was For Roadworks For Bridge over the	Rs. \$3,02,507	- The Court, in a despatch dated 30th January (No. 2) 1850, observe, "Wattach great Importance to the completion of the Great Trunk Road; widesire to see it completed with subtantial bridges. Those over the Soan and Jumna should be for the present
gara a s	9 mm . 9		to - 142 - 525		For Bridge ever the James	10,00,000	suspended; but you will carefully con sider whether the prospect of a railwa: through the North-west Provinces i sufficiently near to justify the suspen
		4th Division. Currumnassa River Allahabad -	180 0 462		Ri	103,02,507	sion of any other portion of this great work." In season 1850-51 the forms tion of a firm roadway over the sand
		5th Division. Allshabad to Bhogong, a of the Branch Road fro Bhogong to Agra -	nd		2		bed of the Soane, in the 2d Division of the road, was proposed, at an estimate cost of Rs. 40,579. 6: 4. The breadti from eastern to western Ghant In
		6th Division. Bhogong to Ghazeco decanogur, and of Branc Roads from Allyghur Agra, and from Khooris to Meerut	h to-				straight line is 2 miles 3 furlongs and 68 yards, about 1,600 feet of which consists of shifting channels and still water, being about two miles of sandy road to be made practicable for the traffic of the country. This project
		7th Division. Moerut to Delhi, whice comprises a portion of the Grand Trunk Road fro Ghazacodeennugur Delhi; the Grand Trun Road prolongation, no under construction fro Delhi to Kurnaul, and the Branch Hoad from Meerut to Kurnaul From Pultah Ghaut	ch ne m to co ch k w m ne m				contemplates a mealway of the bea hydraulic concrete 3 feet deep, 12 feet broad at top, and 16 feet at base; the top surface to be level with the bed of sand, and composed of two courses of cut-stone slabs, upo a concrete base the bed of concrete to have a slope of 2 feet at every 100 feet; as opening covered by a platform of saul wood is to be placed, fastend to longitudinal and cross sleepers, and permanently built into the concrete, to give water way to the stream percolating through the bed. In December 1850 an outlay
æ		to Kurnaul, with	1,200			8 8 8	of Rs. 2,000 was senctioned for the construction of 150 yards of causeway on this plan, experimentally.

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	PAPERS RELATING TO PUBLIC WORKS (
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ŗ.	a sof a	* * *			1.34	2 ×	, 8	4	321	100	N	ue ga
1		k take	In length 70 miles ;	Kumaul	The Parth	work, Rs. 3	2711 52	4.30	.076 -		Completed 1850-51 -	- The earthwork of the road is esti-
C	ontinuation of, from Delbi to Kurnsul.		sanctioned 10th Feb-	Valden			-,	1 -,	,			mated at 49,201 rupees, the metalling 1
?	to Kurnaui.		ruery 1850.			•	8				30	as 2.51.038 superes the construction
			The state of the s			11.5						of 140 drain bridges and 16 masoury
.						\$			0.0			bridges, with 31 arches varying from 20 to 40 feet span.
	E _a x ^x • the _a th i		more a g				V	1.	**			No to to accespant
			- Longth of the	- Situated 7 miles				1	189 1	7		
	pension of the Iron Sus-	Blown down during a storm on the 3d June 1842.	bridge 110 feet, and	to the westward of	1.0	an a	52 5	1 .	-			
	housing pringe as magazin	On and ou gain 10 am	breadth 12 feet; built	Hooghly.			1	ì	1			
	W 0 200 M	2 * . * . *	in the year 1830 by		0.6		- 33	١.	- 4° - 1			grand transport to the
			subscription. Its re-						100			Service that the property of the service of the ser
95			storation sanctioned let August 1842.	N 10	9.0		.6	1			na regio e e e	and experience to the same of the
13	and the second	1		oda o nome		200	ST	1		156	of terfore or the fig. for	
	ام		- Length 4 miles,					1 31	774 -	_ `		
M	etalling of the portion of the, within the Benares		7 farlongs ; sanctioned		100 N	100	100 100 Miles	1	******	100		
	Division.		6th October 1846.					1	1 . * *	20		The property of the first series with the con-
•						. E . S	Je 5 - 32		47		7 7 7 8	
12	pairs to the portion from		Length 1144 miles ;			4 = + "		14	183 -		and the second	
-	Gooreegungs to Futtebpore.		sanctioned season	*		· .				575%		
		La est y	1846-47.								See to the end of	And the state of t
:					100			-				
	enstruction of a new Ma-	Required to replace an old	Sanctioned 8th	• • •					,057 9	tu,	T	Action to the second of the second of
es.	coury Bridge on the.	one, with reference to the injury done to it by a breach near it	July 1846.				a a 6					ை இருந்து விருவர்
t		during the heavy rains of the last			,	100		1			12 (5 AFER)	and the part of the second
+	A	season.	* * * * * * * * * * * * * * * * * * *			\$1.	e 2	10347	1 N g			
	v vite if i					3.4	91 0	1		2.3	AL MARK S	The second second second second
	natruction of Wells on the	- These wells are much required,	Banctioned 28th	At Mirzapore and			::- ·	1	,201 8	g .		the second second
u	Matrice of Wille of Ma	as travellers halting at the bun-	December 1846.	Futtelipore.	290.3						1 1 1 1 1 1 1 1 1 1	The second second second
		galows have felt much incouve-	12 D. M. 1		."			1	JANS 15 TO	85.		
. 24		nience for the want of water.				, 9:				10		
- 6	su su		Page alloys	10 / 10 mm .				200	y v		1.5	
10	ising of the Wing Walls		Sanctioned season	Goorshaigunge -	t	9,089 7	5	· 1			Completed season	
	and Parapets of Bridges,		1848-47.		ď.	55 B			W 66		1840-47.	· · · · · · · · · · · · · · · · · · ·
	and Drains, between but-		* ·		37						4 ***	
	tehpore and Goorshaigungs.									80		
- 2				Grand Trunk Road -		1,791 11	11		,791 11	11	Completed season	- This is a bridge of two arches of
R	newsi of a Bridge on the	To replace a bridge injured by	Sauctioned 8th July 1846.	Grand Trank roam +	1	-,,-,		1	,,,,,,	100	1846-47.	ten feet span.
) <u> </u>	road near it, during the heavy	# usy 10404	2 0	(%)	10 (20)	32	1	01		00000000000000000000000000000000000000	
	* * * * * * * * * * * * * * * * * * * *	rains of 1848.	* 3 v v v v v v v v v v v v v v v v v v	5.86		3			9 9		2.0	
		• Y	* * * * * * * * * * * * * * * * * * * *			- a - a	3	1		10		
In	n Suspension Bridge over		Sanctioned in 1843 -	Situated 3 miles	-	9,168 -	10	1 . 8	9,168 ~	10	Completed sesson 1844-45.	- This bridge is to consist of two spans of 30 feet, and one of 90 feet,
-	the Tomish Torrent		E	east of Undall.		* *		1 .	1.		1048-50.	with a 16 feet roadway; and is to be
		200		l					H 8	2 12		constructed on the dredglan or tension
				A MID SH	A		-	1	\$1		F	principle.
• 0	Said	[Tag			784			1 9 9			* * *	
	1 va 1			2 20 5	l	0.100.10	**	1 .	,198 12	in	Completed sesson	The bridge first constructed fell
R	construction of the		Banctioned 15th	- Ditto		9,108 12	10	1 '	100 12		1847-48.	down, owing to a deficiency of water-
		Mark of the Control o	September 1847.			7.						way, and to a want of depth of founda-
37	· · · · · · · · · · · · · · · · · · ·		k ' ' '			6 1 1 W					p:::::::.:.	tion to the abutment plers.
												(continued)

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination,	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
ROADS AND BRIDGES SO	I TR-Bastern Provincesconfi	nued.		Rs. a. p.	Rs. a. p.	340	A 10 10 10 10 10 10 10 10 10 10 10 10 10
Grand Trunk Road-continued	_ 100 N N N N N					140	
Construction of an Iron Tension Bridge over the Noonia Nuddee.		Sanctioned 31st July 1847.	In the district of Beerbhoom.	98,993 13 -	26,293 13 -	Completed season 1847-48.	- This bridge has had some standard of stonemasonry. The centre span I 150 feet, the side spans 63.75 feet; em
8 × 8				2 H	an ter Ser		banked approaches, neatly aloped off an turfed, lead to the bridge I,610 feet long and having an average height above th
E H A ANTH	·			** **			country of 10 feet. The embankmen is supplied with two drain bridges of stonemasoury of five feet span each.
Construction of an Iron Ten- sion Bridge over the Sing- harra River.	1.	Sanctioned Slat July 1847.	In the district of Beerbhoom,	29,733 8 6	29,735 8 6		- This is a similar bridge, of the sam size as the former, but with masonry part stone, part brick, with three sub sidiary drains, each of 10 feet span c masonry, with embankments 2,500 fee
Laying down Iron Tract Roads over the Noonia, Singharra, and Tomiah Bridges.		Sanctioned 21st May 1847.			2,003 4 8		long, and averaging 20 feet high. - The tracts for each will be 16 inch wide, consisting of four plates the inches broad, with intermediate spac of 14 inches. Four tracts will be is
		ato at	•	3 S		• •	for the entire length of each bridge, admit of two wheeled vehicles passis over the bridge at the same time.
Construction of a Bridge over the Gowarree Nuddee.		Sanctioned 95th September 1843.	In the district of Behar.	19,001 19 5	19,001 18 5}	Completed season 1847-48.	- This is a stonemasonry bridge five arches, each 36 feet span.
Construction of a Bridge over the Danwah Nullah.	• • • • •	Sanctioned Slat August 1843,	Ditto	16,056 19 1	16,958 19 1	Completed season 1847-48.	- This is a stonemasonry bridge four arches, each 36 feet span.
Construction of a Drain Bridge.		Sanctioned 12th April 1845.	Situated between Barah and Mudden- pore.	5,864 7 8 9	5,864 7 8 2	Completed 1847-48 -	This is a drain bridge of ston masonry.
Construction of a Dawk Binging Bungalow.	To replace the old bungalow -	Banctioned 24th March 1848,	At Jehanabad	1,648 3 8	1,648 3 8	Completed season 1847-48.	
Metalling of the Road between the Raj Chaut at Allaha- bad, and the Raj Ghaut at Benares.		Length 75 miles; sanctioned 50th Janu- ary 1848.			80,258 9 -		The metal is to be apread of the average depth of 4.75 feet.
Cohoolpore: Construction of a new Bridge on the Tension principle over the Kallee Nud- dee, at.	- The old bridge was severely injured by floods on the 20th June 1842.	Sanctioned sea- son 1844-45.			16,517		- The expanse of water in the valle of the Kalles Nuddee during the flor in June 1843, extended over a breadt of 3,030 feet, and the water-way of the
			w i	es us	16 1		bridge proved insufficient for the pa- sage of this large volume of water The entire bed of the Nullah under the arches was swept away, and the piece
• α α α α α α α α α α α α α α α α α α α							of the bridge, being undermined, sub sided.

PAI
ERS
PAPERS RELATING TO PUBLIC WORKS (INDIA).
PUBLIC
WORKS
(INDIA).

Googree: Construction of a Staging Bungalow at.		Banctioned 27th	8 8 8 9	9,403 7 9	9,409 7 9	Completed senson 18-10-47.	· · · · · · · · · · · · · · · · · · ·
M		June 1840.			•	10.0-17.	
ROADS AND BRIDGES,	1			6,635 9 3	0.000	* * * * * * * * * * * * * * * * * * *	In this estimate provision is made
Gorouhalty to the Kulling Histor in Lower Astam: Re- construction of the Road.	This is represented to be one of the most frequented roads in Assam, and a highly important military communication, being a continuation of the road from Bengul, by Gowalparsh and the	- Length 333 miles; sanctioned 15th Au- gust 1842.	Kulling River	6,686 \$ 3	9,902 1 -	Completed season 1844-46.	for 32 brilges of masonry, and 118 of wood. The saving on the estimate is owing to a reduction in the rate, and also in the quantity of work contem- plated.
	Cossyah Hills, to this Province.	Miles.		1			
Gya Roads: Anunal repairs, 1842-43.		• From Gya to Johanabad on the Patna road					
		From Gya to Shergatty on 92 the Trunk road					. Of this extent of road, 15 miles
		From Gya to Surwah on the 20		2,132 8 71	1,911 8 7		are kept in repair by the Gya convicte, and accordingly provision is not made in the estimate for repairing the same.
		Trunk road -	1.00		a ser y		an and decimate for repairing the same.
	er sede "reike.	Miles 72	J,			* * Collings with a	
				•	900	Dancon 1044 45	
Golar Chant to Bor Pathor, through Nagura.	The opening of this road will, It is considered, afford the most effectual means of opening an in-	- Length, about 80 miles; sunctioned 24th August 1844.	Bor Pathor	890	- 800	Beason 1844-45.	
	tercourse with and controlling the Nagas.		and the g	e a south ea	59 25 M		
Talla ja jaka amangaji							
Gyah Roads: Construction of a new line	It is contemplated to shandon	Length, about 21	Doobeen -		83.895	Completion not	The old line of communication from
from Doobean to Gyels.	the two existing lines of road which branch off from the Grand	miles: sanctioned		10 10 18 CO		reported.	Gyah to Jenahabad (20 miles), and from Jenahabad to Patra (about 30
	Trunk Bond towards Gyali, the						miles), will not be changed.
	The new line is not intersected by	rivers, whereas				2 d	
	to make the old lines practicable traffic throughout the year, it would	or wheel-carriage	2 2 2 4 60	for the state of			The second of th
	bridge four large rivers and four	small ones, at a					
	very considerable cost. - In lieu of two others destroyed	Basetioned 10th	On the road lead-		1.080 3 10		- The estimate for annual repairs.
Construction of two Drain Bridges.	by floods in August 1848.	October 1849.	ing from Patna to Jehanabad		1,000 0 10		and repairing the damage done by the floods of June and August 1848, amounted to Rs. 8,667, 19.
ROADS AND BRIDGES,	CENTRAL PROVINCES:	1.			* *		amounted to Mr. O. Co.
Great Devean Road:	•					* * 13 1000 1 100	
. Metalling of the	- In consequence of the great wear and tear on the.	- Length, 245 miles; sanctioned 28th Sep- tember 1840.	Prom Telwarra Ghant, between Jub- bulnore on the Ner-		80,826 15 4	Completed senson 1645-44.	by Major Drummond. A sum of 8,180 rupoes was expended on repairs to this
sō.	O 10 30 00 00 70	я	budde, and Mirzapore		9		road during 1847-48, and an estimate of Ha. 6.648, 11, 8, was sanctioned for
			on the Ganges.			1 1	the following year t on the 4th January
**							1860 an estimate of 25,703 rupees was sanctioned for raising and metalling
v.					F. 1		the Kutches portion of the road.
			a and grown in Fr				1: communes)

No. 6 STATEMENT compiled from the	Reports of the Military	Board at Bengal, from Season	a 1639–40, to 1850–51 in	clusive -continued.

			,		· 		
NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
BOADS AND BRIDGES, CH	BIRAL PROVINCES—continued			Rs. a. p.	Rs. a, p.		
Great Decean Road—continued. Construction of a Bridge over the Karoundah Nullah.	In some quenes of the traffic of the country being much ob- structed by the bod of the nullsh, which is almost impassable dur- ing the rainy season.	Sanctioned 19th January 1849.		846 6 7	521 9 8	Completed season 1649-50.	This bridge is of 10 feet span.
Construction of a Stone- masonry Bridge.		Sanctioned 3d Au-	Across the Har- rong Nullah.	- 639 9 0	630 2 9	Completed from 1849-50.	This is a bridge of 12 feet span.
Construction of a line of Road from the top of the Lohngoe Pass to its junction with the Great Deccan Road.	- This line of road is the shortest routs from Allahabed to the Sau- gor and Nerbudda Tarritories, and it appears that whatever traffic exists between Allahabad and the above territories is car- ried on vid Miraspore, which routs increases the matural dis- tance some 70 miles.	Banctioned 8th February 1860.	At a village called Mungowah.		30,838 9 -		- The whole distance from the Great Deccan Road, near Mungowah, to the river Jumna is 58 miles, 7 furlongs, and 167 yards. Of this length 34 i miles have been already constructed, that is, from the Jumna to the top of the Lohague Pass; the remaining pur- tion is now sanctioned, including 19 viaducts.
CIVIL BUILDINGS, LOW	ER PROVINCES-JUDICIAL				*		90 No.
Gynh: Construction of two Record Rooms.	- For the records of the officers of the ludge and of the collector.	Sanctioned 2d April 1837.		8,750 12 8 -		Completed 1840-	
Gen hatty: Construction of Buildings -	For a cutcherry for the sol- lector and magistrate.	Sanctioned 4th January 1842,		6,705 8 6	6,036 5 10	Completed season 1843-44.	-
Construction of temporary Gaol Buildings.	- To replace buildings burnt down on 4th April 1840.	Sanctioned 12th Pebruary 1841.		1,150 8 6	1,361 10 10	Completed season 1841-42.	
Construction of a Record Room	- For the records of the Com- missioners' office.	Length 50 feet by 20 feet; sanctioned 16th January 1838.	, .		2,526 5 7		
Construction of a Treasury Room.	Por the use of the Commis- sioners' office.	Sanctioned 4th January 1841.		902 6 6		Completed season 1841-42.	* ·
Gorealparrah (Lower Amam): Conservation of a Cutcherry for the Magistrate.	To replace an old cutcherry of temporary materials, which was in a dilapidated state.	- Sanctioned 5th December 1837.	in	5,696 9 -		Completed scason 1841-42.	
Reconstruction of the Gaol Buildings.	- · In consequence of the decayed state of the present temporary gaol buildings.	Sanctioned 20th December 1849.		8,015 8 4	3,425 5 6	Completed season 1844-45.	
Goreahatty: Erection of a Wall around the Onel.	 Proposed by the Commissioners, to save the expense of keeping the bamboo fences in good order. 	Sanctioned 20th May 1844.	Gowaliatty	2,160 6 9	9,210 10 -	Completed scason 1845-44.	, ,
Guah: Construction of an addi- tional Room to the Judge's Record Office.		Sanctioned 11th September 1844,	Oyalı	1,141 - 8	1,141 - 8	Completed season 1845-46.	_

Gonalparrah Gaol : Construc- tion of Cook-ruous of masonry.	- For the convicts and their guards, in lieu of similar buildings of in- flammable materials.	Sanctioned 6th August 1845.	Gowalparral	h • •		9,619 14	8	£,819	14 8	- Completed season 1845-40.	
Gornhalty: Addition to the Commissioners Cutcherry.	To afford shelter to the people attending court.	- Banciloned 5th November 1840.	Gowahatty			609 4	4	609	4.4	Completed season 1840-47.	a Ega a
Construction of a new Record Room for the Collector and Mayletrate.	The necessity for this work was brought to notice by the civil authorities, who suggested that a	- Sanctioned 19th May 1847.	Gowahatty			5,597 19	•	8,464	7 9	Completed schoon 1849-50.	- The estimate provides for a new building, as the house would not have borns the weight of an upper story.
a restant to	room be built over the existing treasury and record room.					•00	20 20			Water Street	
Gonzhatty Gaol: Construction of a Criminal Ward.	- To replace an existing ward reported by the Commissioners of Assam to be dilapidated beyond	Sanotioned 19th May 1847.	Cowahatty		*,	2000		1,708	7 0	–	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Popair.		1.			DE 2 H .3	(6				
Gynh: Construction of a Cutch-	- For the Principal Sudder Ameed and additional Moonsiff of Bahan	Sanctioned 22d March 1846	Gyah -		2.4		• •	1,618			1
CIVIL BUILDINGS, NOR	TH-WESTERN PROVINCES—J	UDICIAL		ř	ei .	3 -7		× 9			
Courgaen: Construction of Cutcherry with Ont-offices.	For the sollector and magis- trate; the construction of this cutcherry will do away with the	Sanctioned 27th November 1847.	Georguen	•		11,166 16		11,465	6 6	- Completed season 1849-50.	
	renting of buildings, stated by the local officer to be inconvenient and ill-adapted.		•				.c	~			er Silver og Merselmengen gr
CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES—)	REVENUE		*		3ko 6,	800. 80 as		•		
Guneur: Construction of a Tunniklarry Cutcherry.		Sanctioned season 1858-30.	fa Elliah Bo	daon -		4,581 15	8		•	Completed season 1841-4%.	William Committee State
CIVIL BUILDINGS, LO	WER PROVINCES-REVENUE			145			100		(a) 94		1
Oya: Construction of a Covered Passage from the Collector's Cutcherry to the Rocord	stiest that the room in which the	Sanationed 5th January 1950.	Gyn -			• •		887	4 9	Completed season 1840-50.	* • The new passage is 840 feet by 8 feet, with wooden poets and tiled roof.
Office.	transurer transacted his husiness, was inconveniently small, and that the transury was at a consider-				, 8	of State of		12 3 to			
	able distance from the record office, in going to and fro, by which the Collector and his officers were ex-			9				Ì.,	i i	2	
	posed to rain and snow.		a Fo	× *		N .	6				
	TRAL PROVINCES—REVENU - In consequence of the insuf-		Chargepore		8	875 4	9	875	4 9	Completed season	The state of the s
	ficiency of accommodation for the		Girlandivin			11 14				1644-46.	
CIVIL BUILDINGS, CEN	TRAL PROVINCES-GENERA	Lı	o .	20	"	aras A		n wii		1	* * * * * * * * * * * * * * * * * * *
Chascepore: Extension of the Gedown as- commodation in the Opium Fastory, and Bungalow for		Sanctioned let May May 1890.	- Ditto -			11,884 -		•		Completed season 1841-49.	
the use of the First Assistant.	8 N N N N N N N N N N N N N N N N N N N		T 14.		20	9.7		£			(continued)

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengul, from Season 1839-40, to 1850-51 inclusive-continued.

10 100							
NAME OF WORK:	Object of Construction.	Length, and Date of Commencement.	Piace of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS,
CIVIL BUILDINGS, CBN71	AL PROVINCES-GENERAL-conf	inued.					
Ghazeepore - continued.				Rs. a. p.	Rs. a. p.		
Construction of an Opium Godown at.	Required in lieu of one built in 1835-36, which was reported to be in ruins.	Sanctioned 10th September 1845.	Ghaseepore	2,347 8 8	2,314 14 11 1	Completed season 1846-47.	- In 1850-51 a sum of Co.'s Rs. (8)1.5.8 was expended in renewing the terrac of the caking godown.
Construction of a Bungalow and Out-offices at the Opium Factory.	For the second assistant to the superintendent at the factory.	Sanctioned 17th September 1845.	- Ditto		1,275	Season 1845-46.	•
CIVIL PETITIVES SOF	TII-EASTERN PROVINCES-G	PNERAL.			55 T		
Great Surage Rock: Construc- tion of a Lighthouse on the.	- This lighthouse will enable vessels of a certain draught of			33,587 10 4	33,425 8 7	Completed season 1843-44.	- The lantern was first lighted on the night of the 7th March 1844:
* = * * * * * * * * * * * * * * * * * *	water to cross the bar of the river during the night.			ж ј е		n v	Rs. a. p. Cost of lighthouse 33,587 10 4 Buildings attached - 1,501 9 6
	,				; ×		Rs. 50,069 3 10
	*				3.45		As. 00,000 0 10
	u, 4 9 9	880 MAD 8		it en er it			The total cost of the structure, is cluding a building for establishment an
	TER REALINGES COVERS			10	M St.	33	stores, has been Rs. 50,089, 3, 10.
	VER PROVINCES—GENERAL:			\$			
Ghazerpore: Enlargement of the Burial-ground.	 The necessity of its enlargement was brought to the notice of Government by the local authorities at Ghazepore, through the 	Sanctioned August 1643.	Ghazeepore	1,527 3 4	1,527 3 4	Season 1843-44 -	- A space of 300 by 330 has bee added.
4	Atchdescon.						
Goolear baugh: Construction of a Boundary Wall to the Opium Godown,	 Considered necessary for the security of much valuable pro- perty from fires and planderers. 	December 1845.	Goolzarbaugh	4,889 14 3	8,170	Completed season 1846-47.	
Gyah Road: Additions and alterations to the Staging	With a view to assimilate them to the bungalows on the Grand	Sanctioned 3d Sep- tember 1845.	Gyah Read	611	611	Completed season 1845-46.	· -
Bungalows on the.	Trunk Road.				is .		
Gorcahatty:		15 %			Manthon to 1		
Rebuilding the top of the Spire of Christ's Church.	Fractured by a shock of earth- quake on the 18th June 1848.	Sanctioned 12th February 1847.	Gowahatty	187 7 10	200	Completed season 1847-48.	Twelve sine pipes, 21 inches diameter, were put up in season 1849 50, to carry the water off the roof to the
Rebuilding of the Gaol Hos- pital.	Ditto	Ditto	- Ditto	151 1 8	• • • •	Completed season 1847-48.	ground outside the building.
Gyah: Construction of an additional Opium Godown.	- In compliance with the opinion of the Board of Customs, Salt and Opium, in regard to the necessity of the proposed outlay.	Sanctioned 13th Murch 1848.	Gyah	3,907 15 7	2,776 10 3	Completed season 1849-50.	- A supplementary estimate was sanctioned on the 5th February 1850 in consequence of the insufficiency of the rates assumed in the first estimate

	ì	1				l	· ·
	RTH-WESTERN PROVINCES -	POLITICAL	* * * * * * * * * * * * * * * * * * *			N 121 NOV 121	a ja
Gwallor Hospital	For the sick of the ascort of the Resident.	April 1840.	Gwallor	9,128 9 6 4	9,008 15 7	Completed senson 1843-44.	
EMBANKMENTS, SOUT	H-EASTERN PROVINCES:	O softes			2 4		
Hidgellee:		1 ,		8		. 1	- On the 27th April 1850, whilet
			r	Rough estimate for re-	* :	• •	measures were in progress for the im-
			1.5000. 1011 10 12 12	newing and strengthening >	2,93,939	•	provement of the embankments, Hid- gelise was visited by a severe storia;
			*	the embankments -			the whole of the see bunds were over-
Re-construction of the Ses.	To protect the sountry from	Sanctioned 10th		General estimate, em-	3,		topped and extensively demaged, the country being inundated. The recon- struction of the embankments on a proper scale is being carried, on (1851) with the utmost vigour under Cautain
, Bunds,	inundation,	January 1851.	. 8	bracing embankments of larger section, and assum-	8,64,255		struction of the embankments on a
		47.7 R. 191	200	ing a very low rate for the			proper scale is being carried, on (1851) with the utmost vigour under Captain
Tallowi Fa			į t	work to be executed -	* 15	(a) (b)	Pages of the Manisumes
	e e	8 1 2	19 1 a l		1		The length of the embankments in the
Embankments in the Russul-	For the protection of large	Length 56 miles;			11,648 - 11	I - • • • • • •	The length of the embankments in the Hidgelles division in 1830-40 was 1,046 miles, and the estimated cost of annual repairs in 1850-51 amounted to upwards of 24,300 rupees. In this division 19 aluices have been sanctioned in the
pore River Frontage.	tracts of resumed lands in Hill-	sanctioned 6th No-	æ e		* *	• • • • • • • • • • • • • • • • • • • •	miles, and the estimated cost of annual
	Reneal	Tomper action					repairs in 1850-51 amounted to upwards of 24,300 rupees. In this division 12
		4		x ²²⁷ X		0 9 3	sluices have been sanctioned in the
	d second				• *		
				a. 6	1		the management of the Court of Wards.
Construction of a new Line of	For the protection of the Go-	Length 21 miles;		9,814 5 8	3,168 7 6	Completed season	a de la compania del compania del compania de la compania del compania de la compania de la compania del compania de la compania de la compania de la compania del compania
Bands in Pergunnah Kha-	vernment estate of Bolakespore.	manctioned 25th April			f	1.0.0	
darv			7 6 9	8.645 & 9	nana a ni	Completed season	- The width of these khalls varies from 73 feet to 30 feet throughout.
Excavation of the Moonjpore		Length 8 miles;		, 0,040 a s	8,680 G 24	1847-48.	79 feet to 30 feet throughout.
and Mirsapore Khalls.		1843-44.			,		
		· · · · · · · · · · · · · · · · · · ·			4.090 10 -		•
Excavation of Patgoda Canal	and one as	Sanctioned season 1848-44.			1,000	p .	
3 to 10 to 1		CONTROL OF THE PARTY OF THE PAR	· <u>· · · · · · · · · · · · · · · · · · </u>		B		
Drainage of the Jellamoutah	This work is stated to be indispensable to the prosperity	Sanctioned 5th		9			
Latherings.	of the cultivation of the Per-				20 ag 1500		
	genosit.			The second second	was all was an		
Construction of a new Bund	- To prevent the ingress of salt	The new bund mea-	At Kusban		8,800 3 2 4	Its completion not	
	water to the Kusbah, which now	sures two miles and	*	* × × × × × × × × × × × × × × × × × × ×		reported.	
	finds its way boto the cultivated lands at high apring-tides through	ago height is nine	,	e e		4.6	
	certain low channels.	feet ; sanctioned 20th September 1844.			4.5	1 = 47947 E	
ggs same), i	8 000 F 3 91		Pe	(a)		Completed season	
Construction of new Bunds .	For the protection of the re-	Length, four miles	Situated at Per-	1,003 9 51	1,003 9 54	1840-46.	
	sumed mehals of Ustiacool and Bunderboorlah.	and five furlongs; sanctioned 15th Janu-	Remove Langulote	sales was a squade a rate or a			Control of the second s
		ary 1845.	•	green gallering	x2 sees "	1 57 A Mad a	w
Construction and repair of	For the protection of resumed	Length, three miles	In Pergunnah Nur-	1,352 13 -	1,389 6 -	Completed season	
Bunds on resumed estates.	estates, and with a view to in-	and one furiong;	roomootali.			1846-47.	
மிரிக்க முரையிர் அவர் கடிக்கும் ப	creased cultivation.	sanctioned 18th Janu- ary 1845.	and the second				(continued)

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK.	Object of Construction,	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	RBMARKS.
Emblemments, South-E	t ASTERN PROVINCES—continued.		June 3	Rs. a. p.	Rs. a. p.		g takkye t
Hidyellee-continued.		The first terms of the first ter					
Construction of five Inspection Bungalows	For the use of inspecting officers	Sanctioned season 1849-50.	In the Hidgellee Division.		3,530 6 7		The inspecting officers will be required to be constantly on the emband ments, checking the works in progress
CANALS, SOUTH-WEST	ERM PROVINCES:					. en •z=c	and seeing that it is fairly and efficient!
Hidgettee Canals: Despening of a Khall leading from Tauro-	- To facilitate the concentration of the salt of the Hidgelies Agency	Sanctioned 15th May 1839.			23,138	-	eageners.
pukeriah to Kallynoggur, on the Huldec and Busscolpore,	in one set of golahs; for this ebject the causi is of great im- portance, when the strong winds make the coast navigation dec-			# # #	a a nã g	a # 5	**************************************
4 4 4	gerous.	7.5				8	
CANALS, NORTH-WEST	ERN PROVINCES:	*		i i i oma	Now 1 do not 1	(
Hallalpore and Meg Chapper; Repairs of the Falls and	With a view to the Doab Canal being hereafter used both	Sanctioned scason 1838-39.	On the Doab Canal 4	20,725	17,479	Completed 1840-41 -	An excess of Rs. 3,247. 15. 11. h bean incurred in Unit execution, owin
Bridges,	for irrigation and navigation.	Same Same		W 1000			to the renswal of the old bridges of tirely, and a greater depth and solid
					* 12.1		having been given to the foundatio with reference to the unfavourable a ture of the soil.
ROADS AND BRIDGES.	TOWER PROVINCES.		· 120		929		
lajerpore to Kurrunjah, on the Mozofferpore Road.	To supersede the old road to Musufferpore vid Persa Ghaut.	Estimated Jacoary 1640.**	Kurrinjalı - +		40,680 12 1		- This work does not appear to he been carried out.
lozareebaugh: Construction of Drains, &c., on the Road from, to the Orand Trunk Road.	This road connects the military station of Haurer-baugh with the Grand Trunk Road at Barria.	Banctioned 2d April 1841.	Grand Trunk Road	9,707 14 8	3, 75 3 15 5	Completed season 1841-42.	
Inzareebaugh and Dorundah: Construction of a new Line,	To improve the facilities of communication, and will prove a	 Sauctioned 30th August 1850; length, 	Dorumlalı - +		21,910		This is to be made a fair-weather room
120 E	great convenience to the men of the Ramgiur battallon.	62 miles, 2 furlongs, and 500 feet.					
BOADS AND BRIDGES	SOUTH-EASTERN PROVINCES	3		The state of the s			and the second of the second o
Hazareebaugh: Construction of a Stone Bridge over the Aarah Nuddee.	• Company of the comp	Sanctioned 16th October 1843.		5,029 - 7	5,029 ~ 7	Completed season 1646-47.	This bridge has three arches of i
	NAME	10		e un chic			
50AN 46 100 10 10 10 10	NORTH-WESTERN PROVINC	1 Pa:			ac d s	•	
Indum Bridge: Proposal for converting it into a Suspension Bridge,					1,45,577 10 2 Including the expense of		This bridge was thrown open to to public on the 28th August 1845.
	*			er e	metalling the portion of the Grand Trunk Road between the bridge and Schinpove, near Delid.		

	987.	illing up deep Pools in front and at the tail of the Bridge	- The pools were filled up with bleeks of kunker, to prevent damage to the bridge.	Sanctioned S May 1847.	28th				* *		910	3 2	Completed season 1847-48.	- The pooling appears to have ari from the set of the current hav turned against the eastern abutmen the bridge, and the outlay was ne- sary to prevent further damage.
	K	dramai Bridge, over the alles Nuddee: Metalling e Causeway of.	The metalling had worn out, and the rondway surface had sunk ganerally so much as 9 inches below the mouth of the drain.	Sanctioned I May 1844.	4th			3, 520 15	· -				• Completed season 1844-45.	- The expenditure was incurred carting kunkur. The labour was p formed by convicts.
		dun Causmony: Construc- on of a Drain Bridge under e.	Required to pass off the waters which collect in the nack or angle formed by the junction of the Meerat Road and Causeway.	a - Sanctioned act 1644-45.	rear						702	9-11		
ik i	- Ire	recpore,: Construction of an on Suspension Bridge over o Cumbleer Rivet.	- To replace a Shakespearlan Bridge, reparted unworthy of further repair.	Banctioned 9 July 1844.	6th	To be one span of 120 feet, with breadth of roadway 7 feet; situated about 6 f	2	91,719 13	8	11	0,721	10 6	1647-46.	- This sum exceeds the authoricatimate by about 10,000 rupees, in canquence of the necessity of region serials parts of the abutments.
ı						miles from Subathoo.				note	\$	•	part, by carrying greater depth th	the foundations of the abutments the foundations of the abutments the abutments the area originally intended, and by a additional wing wall, un-atraum.
A g	. 14	dwar via Roorkie to Scha- npore, Construction of a	For the good of the trading community, and for the benefit of the Gangos Canat. By the pre-	Length, 49 miles		Scharunpore -	•	Test 10 10 10 10 10 10 10 10 10 10 10 10 10		Į.	4,700			The Scharuppers Local Comminave assented to bear the whole of the money will be advanced by Gov.
2 X 12 18	ш. 4	Construction of the second sec	posed road; time, timber and bricks may be conveyed to the works on the canal.							نجا د	e	and and a s	2,000 rupees per Lieutenaut Stra	shittee returning it by instalments ansum. This work was projected they, an executive efficer of the Gar souther will be entrusted to him.
\$ 5	Hine	dun Bridge: Completion of Causewey leading to the.		- Sauctioned I March 1847.	6ւհ			5,862 6	n ,		5,862	6 11	Completed season 1847-48.	
98		CIVIL BUILDINGS, NO	TH-WESTERN PROVINCES	JUDICIÁL:	31	the same value assessment to		the Mark						and the second of the second projection in
	Hyde inc	erabad: Conversion of an losure into a temperary	At the recommendation of the	The state of the s	Oth	Hyderabad			5 3		1,508	13 4	Not reported -	- The gad will consist of three roofed wards, with guard rooms and offices.
6	. '	CIVIL DUILDINGS, LOW	ER PROVINCES-JUDICIAL:				, e 15	81 KZ6	200 200 2	18		e		
10.75	Haza	reebayah: I	• 1	i i	- 1		2,	55.0		60 x 50	60, 59	19	27%	
	P	property of Major Bird, for Cutcherry for the Prin-	The existing entcherry was represented to be quite inadequate for the accumulated records, and to be toe confined for the large number of persons	Sanctioned 2. January 1841.	5th	Hazareebaugh		8,500 -		• .	• . • 1.7		Season 1841-42 -	The estate is beyond the limit cantonments.
. 8			constantly in attendance.	. 2						100	8 8 8	10 E	Service of the servic	
		nstruction of a Gaol at	For civil and criminal prisoners	5 Sauctioned 8th M 1838.	Iay	- Ditto		4,699 7	in and and			2 - f	1842-49.	- The buildings of this gool are temporary nature. A hospital wards for females are included amp the buildings which have been
					-							:		structed.
\mathcal{E}_{yy}			Rendered necessary is con-	Sanctioned 2	4th	• Ditto = -	•	9,772 ,8				6 9	Season 1845-46.	
8. ₀		or the Principal Agoni,	cutcherry bungalow having been appropriated to the use of the ex- Ameers of Scinde.		(C-0)		4.			•				(continu
ş,	Via:	E Transporter and stations and		True war.		k na nasan	l je s	·	e so e	165 8	lines a		سهاد دیمه دره میشود. کاری است کاری می	
20			S 250 50 5 5 6 6	690 FRG 1000	25.3		76 15	10-10-10-10-10-10-10-10-10-10-10-10-10-1	125 \$1000 000	85.01 (80.00	\$56 vcs	C 10 1		

No. 6. - STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-61 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length and Dute of Commencement.	Piece of Termination, or of Intended Termination,	Amount of Expense Incurred,	Estimated Amount for Completion,	Probable Time of Completion.	RRMARKS.
Civil Buildings, Lows	PROTINCES-JUDICIAL-continu	ued.	•	Rs. a, p	Rs. a. p.	843	
Hooghly Gast: Rupply of Water to the -	Fue the use of the prisoners	Ranctioned 25th February 1840.	Hooghly	2,089 9 4	2,184	Completed season 1846-47.	
Construction of two Cocking Sheds and Ventilators.	The removal of the present cooking sheds was necessary to prevent the escape of the pri- soners; and the other sanitary works were consisted usecutial.	- Sanctioned 21st July 1847.	- Ditto	1,725 5 8	1,009 10 8	-	S TO STATE OF THE
Jedicial Bulldings	The necessity for new balld- ings was brought to notice by the superintending engineer.	- Sanctioned 2d Sep- tember 1850.	- Ditto		5,256 6 4		ta de la compania del compania de la compania de la compania del compania de la compania del compania de la compania de la compania de la compania de la compania del compania de la compania de la compania de la compania de la compania del compan
Hazarechaugh; Transfer of the European Hospital to the Judicial Department.	For the confinement of prisoners	Sanctioned 1st December 1847.	Hazarechaugh -		1,889 9 11 }		This arrangement will obvious the necessity there would otherwise have been to enlarge the Kishenpore Gaol.
CITIL BUILDINGS, CEN	TRAL PROVINCES—JUDICIA	Da -				S CONT. TO SECURE TO SEC.	
Hoshungabad Gool: Construction of additional Wards.	- The existing buildings, for want of space, admit of no classi- fication or internal goal disci- pline.	Fanctioned 9th March 1846.	Hoshungubad	6,411 3 9	8,994	Completed in 1849.	
Construction of a Hospital and additional Wards.	- To provide additional space in consequence of frequent com- plaints of ever-crowding.	Sanctioned 3d July 1847.	- Ditto	11,539	14,673	Completed in sea- son 1850-51.	Notwithstanding the accommodation afforded by the two new wards, com- pleted in 1840, the increase of number above accommodation had been such that scurry and other gool diseases had been generated, and had occasioned a heavy monthly mortality.
Hothungulad: Restoration of the Poslikarree Cutcherry.	This entcherry was destroyed by fire on the 27th May 1846.	Sanctioned 2d Feb- ruary 1847.	- Ditto	. 80		Season 1847~48.	
CIVIL BUILDINGS, CEN	ITRAL PROVINCES—REVENU	B	ei .		, , , , , , , , , , , , , , , , , , ,		8 8 8
Horhungabad : Construction of Peaker's Cutcherry.	r 18	- Sanctioned 26th De- cember 1838.	- Ditto	1,074 8 6	- · · ·	Completed season 1841-42.	
CIVIL BUILDINGS, BOU	TH-EASTERN PROVINCES-G	ENERAL:			22		
Horerah: Extension of the Burial ground.		Sanctioned 14th March 1842.	Howrah	655 - 0		Completed season 1849-43.	A space of about 175 × 170 has been taken in and enclosed.

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9	CIVIL BUILDINGS, LO	WER PROVINCES-GENERAL	. *					1
387	Hooghly River: Construction of two Obelieks on thus	The actual necessity of these beacons was pointed out by the marine authorities.	Senctioned 20th May 1844.	One at Canterbury Point, the other at the mouth of the Hog River Creek,	1,237 4 10 4	2,009 12 5	Completed season 1845-40.	The obelisk at Canterbury Point is to be 50 feet, and that at Hog River Creek 40 feet in height.
ě.	CIVIL BUILDINGS, CE	NTRAL PROVINCES-GENERA	T.	10 March 1000		**		
	Hattran: Repairs and improve-		· John William on Treatment		F 2.7		1	
	menta to Hardingunge.		Sanctioned 26th July 1841.	Hattrase	8,389 15 7	4,006 1 7	Completed season 1843-44.	
1	CIVIL BUILDINGS, LO	WRR PROVINCES, POLITICAL						
ii K		- Purchased for the accommodation of the ex-Ameers of	Sanctioned 17th		520 5 6	529 8 8	Completed season 1845-46.	
	The second of the second	Scinde.				840	tan a	
Maria Si	- 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15					11 11	1.79	
9		RTH-WESTERN PROVINCES-	77.23 1277	. 94		280 (2		* ***
	Hawalleagh: Purchase of three Bungulows.	For exiled Hill Rvots	Sanctioned 23d Au-	Hawalicagh -	2,700	· · · · · ·	8	
	Dungstone.	ar ar the an area of	gust 1840.		T* 1			
5.	CANALS, NORTH-WEST	ERN PROVINCES.	2000 D		2.00			
500	Intally Canal : Excavation and			N 0865				
2	clearance of.		- Banctioned 14th April 1840.	• := x = q = x	3,486 9 5	An estimate for its clearance, amounting	Completed season 1840-41.	
			apra roto.	ne di e	190	to Rs. 5,151. 12.	1040-41.	
	10 10 10 10 10 10 10 10 10 10 10 10 10 1			9 10	A	sanctioned 20th Feb-		
K						ruary 1651.	l" -2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	a succession of the same of th
8	EMBANKMENTS, SOUTH	H-BASTERN PROVINCES:	14-00	6		V 8		a second a second
	Jeckoorkhally: Construction of	For the safety and protection	Length, 1 mile and				8 8	e and there is all as set
	a New Line of Dobundy in the Dooroo Pergunnah,	of the country, the existing bund having been encroached on by the sea.	400 feet; sanctioned 15th May 1849.			868 4 8		- It would seem advisable to throw the embankments back at least 1,000 yards from Kumarpore or Joonpoot to a
		ord aces		1000 E1 10 E1 EVAL		20 1000 1000 20 1000		point north of Singaree.
e e e	Jumpa River	Improvements to the naviga-		85 ²⁰				
		tion of the.	er" a sill ter				e * e	
	Plantations on the Banks of the Canals west of the Jumna		From 1830 to 1st January 1841.	Jumma Canals	4,10,028	Since 1830 an		They consist chiefly of baheel, toon, saul, and aiseco, which, when they
20	River	20 20		# # # # # # # # # # # # # # # # # # #	*5 *2	of 2,000 rupees has		arrive at maturity, will yield a very
			7	8	à	been incurred in rear- ing plantations. The	3 S N	profitable return.
		20 20 20 20 20 20 20 20 20 20 20 20 20 2	· ·	× 27 W		actiount realised by	4	£ 20
			State			the sale of cuttings		
			170	8 8	-50	from these trees has been 19,966 rupees.	. ***	1.
19		See			_	and the amount ex-	20 12	12 2
14						pended, 22,426 rupees.		
	Plantations on the Banks of the		Sanctioned 14th	Jumna Canals	9,000	3,000	Season 1849-50 -	The total amount of expenditure
21	Esstern Jumna Canals.		November 1849.	e	w w 100 100			up to the 80th April 1849 was
	5.8 9			10	**	1.		Rs. 27,865. 5. 9., and the amount
		S	1991 15 60 16 60	E V 19	NOT 18 10	, e 9 g		realised from the sale of the produce, Rs. 20,646. 15. S.; the estimated value
	ga Tara							of the trees on the banks of these
ž		* ** **			2005			canels was Rs. 1,48,408. 8, the
			*** *******	5 mm	5	1 to 1		number of trees, 206,817, of different ages.
	200 S		is a graph	a governor		1	The Everyoni	(continued)
	86 15	60		V.00		79 22	166	

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	. Length, and Date of Commencement	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimeted Amount for Completion.	Probable Time of Completion.	REMARKS.
Винанементь, Зости-Е	ASTRES PROVINCES—confinued.			Re. a. p.	Re. a. p.		
74 P. C.	For the purpose of relieving the Jumpa New Cut and Bund from a portion of the flood-water, and clearing out the mouth of Blane's Cat.	- Sanctioned 3d April 1837.		Not reported	10,363 11 1	-	
ROADS AND BRIDGES,	SOUTH-EASTERN PROVINCE	g:	ř	v		* *	
Juggernauth Road		- Length, 201 miles; extends from the Old Benares road at Jel- lalahad vid Midna- pore to Poeres.	-			gradien	
Bepairs to the Ghoree Khall Enspension Bridge on the.		- Built by Lieutemant Schalch many years ago; repairs sanc- tioned 20th July 1841.	- In the Balasore Division.	5,088 14 6 }	2,778	Completed season 1844-45.	The standards have given way, and the failure is ascribed either to the masonry on which the ground links are built having sunk and allowed the chain to come forward, or to the ground links not having been firmly built into the masonry at first.
Repairs to the Poolnackra Bridge, in the Cuttack Division of this road.	Damaged by a flood on the 2d October 1842.	- Sanctioned 5th June 1843.		1,393 11 9	1,399 11 9	Completed season 1843-44.	
Construction of a Drain Bridge in the Balasore Division at Ummerrah.	To supply the place of a four feet drain, which was carried away by a flood in September 1841.	- The new drain is of 8 feet span.		579 10 7	* * * *	Completed season 1842-43.	
Renewal of the wood-work of the Iron Suspension Bridge at Kuddum Khandee,		- Sanctioned 3d Octo- ber 1842.		886 11 6	992 8-1	Completed season 1843-44.	
Construction of a new Drain Bridge on the.	This drain is much required at the spot, which is cut every year by the ryots to let off the water from their fields.	- Banctioned 23d Oc- tober 1843. This bridge is to be of 8 feet spau.	At Dysurrah	518 8 8	819 3 3	Completed season 1843-44.	
Construction of a New Bridge near the present Nooma- juory Bridge.	With a view to the preserva- tion of the Juggernauth Road, which, at the site fixed on for the new bridge, was constantly liable to be cut through by the floods of the country.	Sanctioned 27th August 1844.		11,094 9 4	16,856 4 9	Completed season 1846-47.	This is a bridge of five arches, vis., two of 22 feet, two of 24 feet, and one of 26 feet span. A saving of Pr. 5,762. 2. 5. has been effected by a reduction in the quantity of masonry, as well as in the rates assumed in the estimate.

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1		1	Å.
1		TITE ATTENT	
S. ISSUED STORY STREET THE STREET STREET STREET STREET		TO DITRITO WORK	
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	23		

•	Repairs to, in the Balasore Division.	In consequence of heavy damage sustained by floods.	Length about 34.	Between Gereck- heul and Rajghaut.	1	1,404	9 11		1,404	9 11	Season 1845-46.	
987	2)VB04.	deminds stratified by knoor.	97th Pebruary 1845.	usat and welkusare	1		• • • •	- B		20 Jan 1	* * * * * * * * * * * * * * * * * * *	
12.0	Construction of a Drain Bridge on the.	- The road was every year cut through by the ryots, to let the	Of eight feet span ;	At Dysurrah	1	309	8 &		802	8 75	- Constructed season 1843-44.	<u> </u>
1.	Dungs on mar	water off their fields; this prac- tice, it is hoped, will be put a	ber 1848.	3	ļ.,	4.3	0 - E				1070-11.	
160 E		stop to.		5 5.4 5		1 <u>4</u>	n v 4		27.0		5	
	Construction of a Drain	With a view of bringing the	Sanctioned 98th	At Khurrutkpore -		948	8 11 .		943	A 11	Season 1844-45.	
	Bridge on the	water into the villages, instead of allewing it to be carried off to a	April 1844.		18	2.5	word via		7.7	707ga -	•	
n i		different direction.		8. 3 41 6		N.	-					
	Construction of two Bridges -	For drainage	Banctioned Sth	At Rejghaut	1900	777	16 10	Not	stated		Completed sesson	- Each of two arches of 10 feet span.
, 50			September 1847.		١,	× .	e* *	0.50	N 565	an a	1849-60.	* + + +
1.	Annual repairs from Poorus to Reighaut, and the Cross	The preservation of the road -	5 furlongs and 100		•	-		8	5,896	3 8	Annual repairs for season 1849-50.	These bridges, &c., will be buthe south side of the Scobunrukah River.
0.54	Road towards Jehajpurs; also for Bridges, Drains, and		yards; and of the cross road 4 miles and			W 12			$x^{-k'}=s$			
40	Berais.	t Kall a sec, k	5 furlenge,	į.			f		=18	1.4	1	
- 6	ROADS AND BRIDGES,	NORTH-WESTERN PROVINC	ES:		1	# ⁶		2	ń			
2.3	Josh Bridge, under the city of			18 y - 14 ° -	-				15,702			A wealthy native gentleman, Dewan Behadoor Sing, offered to defray the
Pi No	Bareilly, on the road to Mora- dahad				9		a ¹⁷		79 TE	E		cost of this bridge, which had been taken out of the hands of the executive
			a anteni			90	* *		•	¥ 8.		engineers.
		In lien of a bridge which was	Sanctioned oth	Jyaree		10,548			8,591	8 8	Completed peason 1846-47.	- This bridge is to consist of five
61 M	chain principle, over the Kos-	carried away in September 1840, by a sudden rise of the river.	April 1842.	i tym		n Twi a					1090-17.	arches of 20 feet span each, with plars 20 feet high.
•	siliah River, at.	A en		•		•	8 ₁₀		- 14 V.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
5 (2) 54	ROADS AND BRIDGES,	LOWER PROVINCES.			ſ			834				
j	Jamalpore: Construction of Drain Bridges at.		- Sauctioned 10th	Jamalpore		950	9 9] 📑	•	• •	- Completed season 1844-45.	
ز	Jaipore to Ningroo: Opening of	Military posts having been	Langth 27 miles:	Ningroo		1,075	8 5 1		889		- Constructed season	The road has been merely pleared
2	a Road:	established at these places, it has been found necessary to open a	sanctioned season 1844-45.			28 St. 1		.]	mer" n"	85 m	1846.	of the jungle, so as to admit the passage of troops.
	do .	temporary communication be-					19		2 E	povert en f		
* (**)	makes in the transport						•		2			
	ROADS AND BRIDGES,	vertial provinces:					250 2750	<u> </u>		ant Mil.		
· ·	the Great Deccan Road:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			100.0	e Santa			 :1'		
85	Metalling of the	In consequence of the great wear and tear on this road.	Length 245 miles ;	From Tilwarra Ghaut, between Jub-		88,924 1	10 8		66,826 1	18 .4	Completed sesson	- This road was originally constructed by Major Drummond.
			tember 1640.	bulpure on the Ner- budds, and Mirzepore				-				
* 1				on the Ganger.	ŀ.,	o oc 90	a (6)	- 11	13 2.	9		(continued)

1,113 12 6

3,657 10 9

- - Completed season

- - Completed season

1844-45.

1844-45.

Annual repair to the metalled portion of.	Also for making wooden bridges, &c.	November 1842.		-	For bridges For repairs	- Rs. 2,448 - 2,708 Rs. 5,156	5,168 3 8 1	Completed season 1846-47.	 This estimate also provides for the construction of 15 wooden bridges on the road connecting Jokehia and Damol, and clearing the Nuddee Ghauts. 	PAPERS
Jubbulpore via Scones to Kamptes: Proposed metalling and partial bridging of the road.	- To continue the great road from Mirzapore to Jubbulpore (or Great Deccan Road).	Length: M. f. yds. Jubbul- pore to Seonee 83 7 32	Kamptee -		•	• • •	1,76,246 61,500 Rs. 2,87,746	• • •	Rs. 20,010. 5. 61. were expended in season 1847-48 in cutting jungle, making proper inclined ghauts, and clearing and smoothing the surface of the ghauts; an advance of 16,000	RELA'
e 18		Secure to Kamp 63 7 96		:::: <u>:</u>		é m	Exclusive of the item of bridges.		Company's rupees was sanctioned for the earthwork of the portion of the road in the Nagpore territory, and Rs. 24,180. 8. 10. for earthwork be- tween Jubbulpore and Seonee.	ĮJNG TO
	outlay contemplated, if been deferred until the reported on by the su after personal impaction	estimates have been perintending engineer,			10 E 10 B	a a gen				PUBLIC 1
CIVIL BUILDINGS, BOU	TH-EASTERN PROVINCES—J	ve		32			w			WORK
Intally :. Purchase of Ground -	- For the sheds of the conservancy department.	- Sanctioned 2d April 1839, and 23d June 1840.	Intally -		7,000) - ` ,		Season 1840-41.		CNI) SY
CIVIL BUILDINGS, LOW	VER PROVINCES—JUDICIAL:	8					te		*	-
Jezore: Construction of a flat- roofed Cutcherry.	- For the two Principal Sudder Ameens, to enable them to give up the rooms in which they at present hold their cutcherries for the custody of the records of the Luize and Mariatrate.	Sanctioned 2d May 1842.	Jessore -	-	2,690	3 5 81	2,860 14 5	Completed season 1844-45.	The cutcherry is to be fint-roofed, with tiled verandabs.	A).

NAME OF WORK.

Jessore Gaol: Construction of

Cutcherry for the Sudder

12 Necessaries.

Ameen.

Jesure:

Judge and Magistrate.

- - Sanctioned 25th

- - Sunctioned 27th

January 1843.

February 1843.

Језвоте

Jessore

١	(A) (3)	
۱	(3)	
-	PAPERS	
	PAPERS RELATING TO PUBLIC WORKS (INDIA)	
1	TO	
	PUBLIC	
	WORKS	
	(INDIA).	

- Constr	uction of a Selakhana	For the reception of property	Banctioned 28th	The new building	764 8 5	828 11 10	Completed season	
ON COMME	·	recovered in cases of dacoity,	February 1844.	will be erected close		, 020 11 19	1844-45.	• • • • • • • • • • • • • • • • • • •
7	ana . * a fi	burglary, &c., and in lien of an		to the magistrate's				je 1861 k
		old building inconveniently situ-	3.5	eutcherry.				
20 20	Company of the last		50004070		_ 11 W			
	ant: Construction of a	se anne a eg que que le	Sanctioned 27th	Jessore	588 4 5 1		Completed season	
Dead-h	ouse and Dispensary.		May 1846.		18 47	9	1847-48.	
	re: Alterations to the	In consequence of the wood	Sanctioned 22d	Jamalpore	1,459 1 -		Completed season	The cutcherry has been put into
	Magistrate's Cut-	work of the roof having become	December 1842.			North Cod St Voto 1000	1849-60.	thorough repair.
cherry.		entirely decayed.	1 19- ₁	* 1942 F		4 4 A		
CIV	II. BUILDINGS CES	TRAL PROVINCES—JUDICIA		9.0	*	a a		
Jubbulpa		TRAL PROVINCES—JUDICIA	9. 5	4 9 9 9	a all as " a	* water *	1 44 B 14 A	* 10 m and 10 m and 10 m
	uction of a new Gaol -	For the accommodation of 300	Sanctioned 10th	Jobbulpore -	16,044 11 8	15,541 11 1	Completed season	
	•	prisoners.	March 1841.		10		1842-49	
Constan	nction of Public Build-	For the 1st battalion of mill-	Sanctioned 14th		8,411 7 -4	2.805 8 7	Completed season	N 8 4
ings.		tary police.	August and 13th Oc-		m,-11 2 4	. 2,000 0 2	1844-45.	
			tober 1843.		, d ,	1917		fra, fra ra film
Conste	action of a new Gaol	Under a representation that	Sanctioned season		8,765 5 9	8,676 7 5	Completed season	
Hos		the gaol hospital was not a fit re-	1844-45.		C,100 C C	0,010 1 0	1846-47.	
		ceptacle for the united Thug and						
		Zillah sick prisonera.	i awi .		Α.		l. ' .	
Jaunpon	e: Construction of a	For the Collector and Magis-	Sanctioned 25th	Jannpore		6,994		
Court-		trate:	November 1860.	CONTROL STATE OF THE STATE OF T		,,,,,,		
ــــــ م					1			
CIV	IL BUILDINGS, BOU	TH-BASTERN PROVINCES—G	ENERAL:		- V2			
	rinesp Ghaut: Con-		Sanctioned 1840-41	To be erected in a	Donation, season 1840-41	10,000		- On the 3d July 1843, the completion
eributio	ms towards the erection	Government, by the inhabitants of Calcutta, to the memory of		altuation highly useful	23 Nov. 1842, flag-stones			of the work devolved on the garrison
- 01.		the late James Princep, Esq.		for the embarkation or disembarkation of	erection to the value of	: 600		engineer of Fort William, who, it was
				European troops.	3 July 1843, a further	5,844	1 4 5	understood, had been provided with funds sufficient for that purpose.
		NA - NA			grant authorised of -5	2,756		I am a market in the party of t
	A					Re. 13,356		
	, 2	9 8			F .	260. 10,000	* W	
	· · · · · · · · · · · · · · · · · · ·					2	e an a	
CIV	IL BUILDINGS, LOV	VER PROVINCES-GENERAL:				550 30 000 00 40 000		A
James 41	id Mary's Ancharage	The spot is most dangerous		Situated below	. 2,642 10 44	1,861 - 10	Completed season	Its height will be 80 feet.
Creek:	Construction of an	for navigation; the obelisk is intended as a day beacon.	March 1843.	Fultah, on the Hooghly		###	1843-44.	Fee was all " e e
Openan	at me.	micented as a day seacon.	·	River.	4	*	1000	
CIV	L BUILDINGS, CEN	TRAL PROVINCES-GENERA	L:	3	for the second	-	1	* M Table 1 Mark 1 of the 1 of the 1
Toothous	ns : Construction of a !		Sanctioned 7th	C144		1001 4 9	Season 1849-44 -	
Staging	Bungalow at.		May 1843.	- Situated between Fultanpore and Be-		1,881 4 8	OCHBOIT 1049-#4	This bungalow will be constructed from the funds originally granted for
		13 01 95. A NA	5	nares.	6 (A)	(4 - E) M	* 60 FG N N N N	the bungalow at Benares, a bungalow
			× ,			F 19		at the latter place being under con-
4		2 1			S2 (1)	* *		struction from funds collected by private subscription.
200 80	100 000 000			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	J 8 02 #	W 80 8	, P. 1	buttern supportions
	e: Erection of a Stag-		Sanctioned 9th	Situated between	3,244 10 6	· 2,249 10 B	Completed season	
ing Bus	igalow and Out-offices.		September 1843.	Umballah and Kherce.			1846-47.	(annti-mas)
8 2		a			e g	1 141		(continued)
		in the same of the		* *				

No. 6. - STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS,
CIVIL BUILDINGS, JH	ULLUNDHUR DIVISION—GEN	ERAL:	***	- Rs. a. p.	Rt. a. p.		
Juliundar:	1	ſ .		1			
Construction of a Cutcherry and Guard-room.	- For the deputy commissioner of the station.	Sanctioned 31st August 1847.	Juliandhur	26,729 11 -		Completed season 1850-51.	- The old fort at Juliandur, formerly used as a cutcherry, has been sold for 40,000 Company's rupees.
Construction of a Dak Ban- galow and Offices.	- On the recommendation of the Postmaster-general, North-Wes- tern Provinces.	Sanctioned 4th January 1850.			3,869 15 B	Season 1849-50	- The expense will be defrayed from the North-Western Provinces Staging Bungalow Fund.
	li. i		* *				
CANALS, SOUTH-WEST	EEN PROVINCES:		a				
Kamapookreah Khal: Repair of the Dam across the mouth	THE CONTROL OF THE PROPERTY OF	Sanctioned 1840-41		818 15 6	625	Repairs completed	- The total sum expended for this work since its commencement is 2.945
of the.					- 1	, ,	rupees.
CANALS, SOUTH-EASTE	RN PROVINCES:			M # 85			
Kotahhally Nullah, in Chitta- gong: Excavation of the.		Sanctioned 20th May 1838.	•. • • • :	1,224 0 11		- Completed season 1841-42.	
Khattee Canal: Repair and im- provement of.	- In consequence of the ahandon- ment of the Oolabarreah Canal.	Sanctioned 12th February 1845.	This canal is a communication be- tween the Damoodah	2,000	2,000	Completed season 1845-46.	
Khattee Bund: Relaing of the,	To bring it above the level of	Sanctioned 27th	and Hooghly Rivers.		2,568 3 0		The greatest part of the earth for
two feet.	the loundations which occurred in August 1844.	May 1846.	· ·				this work will be dug out from th Khattee Canal, the improvement of which will thus be effected at little of
•				L36) 9 24 K			no expense.
CANALS, NORTH-WEST	EN PROVINCES:						
Kunjuoon Escupe Nullah -	Construction of a masonry bridge across the.	- Sanctioned 4th April 1836.	Near the village of Nakroan.	2,142	2,142	- Constructed season 1846-47.	- This bridge has timber road-way
Kutta Puther Canal	For the purpose of irrigating a tract of country bounded by the Jumas on the west, by the Asum on the south, by the hills on the	Sanctioned 4th February 1848.			88,902 11 1		- This tract of land to be irrigated contains 20,254 acres (81 square miles), more than four-fifths of which is good
	north, and on the sest by a stream called the Sutwala Ruos.				•		land for cultivation.
Kalles Nuddes: Iron Suspen- sion Bridge at Khodagunge, between Campore and Pur-			• • •	· · · ·	•		Was built by the late Nuwab Me- hindie Allee Khan Bahadoor, but hav-
ruckabad,							ing been made over to Government by his nephew, Ahmed Alice Khan Baha- door, orders have been given to provide
	•			: ' '			for its future repair.

987.	Kumeon: Construction of a Bridge on the taper chain prin- ciple over the Konlink River.	- The old bridge was injured by a sudden and unusual high rise of the river in September 1840.	Sanctioned 5th April 1842.	At Jyarec		8,009 4	8 10 3	9,170 18 1	Completed season 1842-43.	
	Kathur Nuddoe; Bridge near Subathoo.	To replace an old bridge which was represented to be unsafe for travellers.	- Sanctioned season 1841-49; a revised settmate sanctioned 19th July 1844.	- On the road from Subathoo and Simis.		940 11	6	420 5 7	Completed senson 1844-45.	- This bridge was totally destroyed by the storms which occurred between the 17th and 20th July 1844. It will not be restored.
			1000 0003 1000		[
	ROADS AND BRIDGES,	LOWER PROVINCES:	•	(2.8) (3.8)		82				
1	Rubbadduck River: Suspension		Sanctioned 28th	Near Jessore		21,056 -	8	0000000		
*	Bridge over the, on the tension principle of hir. Dredge, of London.		Pebruary 1841.			21,000 -		22,818 13 4	Completed in 1840 -	- A wealthy native gentleman, by name Kallee Fodar, has made an offer to Government to defray half the cost
				3 0 5 50	1	but recent	ly constr	ucted and reported anon	(on the 96th August 184	of this bridge. This bridge had been 6) by a special committee, and while their
				7.9		report was	under ec	balderation, accounts we	re received of its failure	on the 30th September 1846, with a loss
(7)					1 .	the Doorg	s, 10 cons ab under	equence of the whole str	ucture having been thron to for the restoration of	ged with natives witnessing the passage of the bridge amounts to 5,426 rupees. The
		f each			1	Court, in t	heir desp	atch to the Government	of India, dated the 20th	September (No. 25) 1847, relierated their
			٠			orders of 1	646, forb	odding the further adop	tion of the tension prin	nciple in the construction of suspension a cost of Rs. 7,722. 1. 10.; the total expen-
•					1	diture incu	rred, ivc	luding the cost of testing	the bridge, bad been R.	e. 31,044. 9. 8. A committee of engineer
				A 4 140	1	runry 1849	s assemb), shows :	led to report on the brid that the bridge had been	ige after its seconstruction fully tested, and that it	on; and their report, dated the 24th Pch- is capable of bearing, with perfect safety,
				19		the truffic	of the co	untry. The bridge has	been opened to the public	and to the pensage of all truffic, except-
					Ì	ing elepha	nts. On vinces of	the 2714 June 1849 a r	report was received from	the officiating superintending engineer, ain Guthric, of the Engineers, was ordered
10						to inspect t	the bridge	e and report the causes of	the failure. The following	ng parngraph is extracted from his report,
M ~					1					e issued no orders regarding closb g it; qual to all ordinary tradic. I have, how-
4						ever, direc	ted the	chowkeedar to prevent	crowds from assemblin	ng, and trains of carts from passing both
				1		ways at th	é same ti	me."		
E	Kamroop: Construction of		Sanctioned 12th			1.839 14			Completed season	M
	Bridges on the Mofussil roads		September 1842.		1	2,000 14			1842-43.	The amount will be charged partly to the Town Improvement Committee
	in the district of Kamroop, and the town of Gowaliatty.								5.	funds, and partly to the Mofussil Road
- 1				100	1 1	2 2 300	5		· · · ·	14luas.
•	Kollabur to the Dunsurry River	- The construction of this road will complete the direct commo-	Length 67 miles	Dunsurry Rivor -		Not reported	l	24,500 2 2	4 4 4	- The construction of 240 drain bridges
		nication between Upper and Lower	I furlong; sunctioned 4th December 1844.	*, =	1	₇₆ .			E Britan	on the line is provided for in the esti-
		Assam.			į .				•	
	Kulling River to Koliabar : Re-	This road follows the course	Length 72 miles -	Kolisbar		6,212 ~	_	6.912	Completed season	
200	pair of the Road.	of the river, and forms a bund to		The control of the co				1	1844-45.	
. "	F as Free D	kerp out inundation.	A. The second	25 E		U.F			w _e in	the second secon
	POATE AND PRINCE	S, BOUTH-EASTERN PROVINC	TO.	* 3					2 75	
	Khoorda Road :	S, BOOTH-EASTERN PROVING	TPD:	87 <u>9</u>	1	14	= 0	1	1000	2 2 20 10 10 10 10 10 10 10 10 10 10 10 10 10
*3	Repairs to, and clearance of		Length of road 60	Extends from the	١.			11,459 10 -1	1	
	jungle ou.		miles, 5 furlongs and	Madras frontier to				11/200 10 -1	-	
(6)		100	115 feet; repairs sauctioned 24th No-	Cuttack.	1		N.		(A 5)	1
2 3	Sat a	Y	vember 1840.			is .			- 6	
	Construction of 129 Bridges and Drains on the.	- To facilitate the means of com-	Sanctioned season		i	49,702 8	5	60,673 3 0	Completed season	The saving of Re. 10,070. 12.7. is
	and Disins on the.	managacion.	1830-40.			11 24	FF.	N N 5.	1845–46,	owing to a reduction of rates, and also
0.00	Ţ	la e e e		l, s		. 30	~ ÷	8 1 g 2	n ee S	to the quantity of measury.
				a St	-	7			* ±	(Continues) I

No. 6.—STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK.	O'ject of Construction.	Length, and Date of	Place of Termination, or of	Amount	Estimated Amount	Probable Time of	REMARKS.
F		Сопшенсевань	Intended Termination.	Expense Incurred.	Completion.	Completion.	
ROADS AND BRIDGES, SO	CTH-EASTERN PROVINCES—conti	nued.		. Re. a. p.	Rs. a. p.		
Kyook Physo: Construction of five first-class masomy Bridges.		Sanctioned 18th September 1841.	Kyouk Physo	10,518 14 10	11,856 7 1	Completed season 1842-43.	* * ***
Khoorda Road: Construction of large Bridges on the.	Required over rivers that in- tersect the road.	- The length of the Khoords Road is 69 miles, 5 furlongs and 115 feet; sanctioned 25th September 1844.	One over the Coomy River; one over the Sehal River; one over the Consail River.	No report of the final completion of these bridges has been received	6,970 14 1 0,663 9 2 30,933		- For a bridge of seven arches and 20 feet span over the Coosan River. - For an iron suspension bridge of eight feet span over the Sahah River. - For a bridge on the tension principle.
Kyook Phyoo: Construction of two Sinless with self-acting gates to bunds.	For keeping out the sait water from the station.	- Banctioned 15th April 1840.	Khyook Phyoo -	1,828 4 -	1,451	Completed season 1845-46,	over the Consail River.
Construction of 19 pucca Drain Bridges.	- These works were undertaken at the requisition of the Commis- sioner of Arracan.	ditto	At Mugh Bazar •	- Rs. 1,217. 15. 7. for nine bridges in 1847-48; the three remaining bridges of the 12 authorised were	1,361	-	
Construction of four Drain Bridges.		ditto	At Khyook Phyoo -	completed in season 1849-	1,948		
Kedgeres Dak Road : Benewal	- To replace the present struc- tures, which are in a decayed and dangerous condition.	Sauctioned 17th March 1847.	Kedgeres Dûk Road	4,009 7 10	9,230 1 1 1,779 6 9	Completed season 1847-48.	- The bridge over the Kolah Khaller is to be of 70 feet span; that on the Tangoah Khall of 60 feet span.
Khails.					Rs. 4,009 7 10	84 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Kyook Phyon: Construction of a masoury Stuice.		- Sanctioned season 1849-50.	- The sluice is con- structed in Jopphoe's Bund.	570 10 7		- Constructed season 1849-50.	This sluice has a self-acting gute.
Kyook Physo: Construction of a new masonry Bridge called Budder Mokane Bridge.	- Constructed on the requisition of the local authorities, the old bridge having fallen down.	ditto	• • •	507		ditto `	This bridge is of 8 1 feet span.
ROADS AND BRIDGES,	UMBALLA DIVISION:	н "					
Kaika to Dugshye	- With reference to the forma- tion of a new cantonment on the hills at Dugahye, the road from Kuika at the foot of the hills will be extended to Dugahye.	Longth 184 miles; sanctioned 28th April 1847.	Dugshye		1,90,250		Up to the let April 1848, a sum of Rs. 45,068. 1. 3. had been expended on the work, the progress of which has also been assisted by three or four companies of the corps of Sappers and Miners.
CIVIL BUILDINGS, LOW	ER PROVINCES—JUDICIAL:	The second		and the second		#	
Ryouk Physo: Construction of a Catcherry Bungalow at.	To be used either by the as- sistant at Acng, or by the com- missioner.	G. O., 26th Sep- tember 1830.	Kyouk Physo -	7,498 5 8	5,995 O B	Completed season 1843-43.	The whole, or nearly so, of this ex- cess has been expended on works not
	, ,		e pe ^e ter		20 E		included in the original estimate.

Koosbaugh, mear Moorshedabad: Repairs to buildings at the		Sanctioned seasons 1840-41 and 1841-42.	Koosbaugh	9,00	08 10 đ	39	2,308 10 6	Seuson 1841-42.	_
Mausoleum of Mohabut Jung.					- 35		·		
Kishenagur Gaol: Rection of Bond-house.		Sanctioned 23d November 1846,	Klabenagur	41	7 11 4			Constructed sea- 808 1847-48.	-
Khoolna: Construction of a Cutcherry and Dwelling-house	The construction of the build- ing was rendered unavoidable in	Sanctioned 3d June 1844.	Khoolna	0,79	90 11 10		7,150 8 9	Completed season 1845-46.	-
for the Joint Mugistrate.	consequence of a tendency to out- rage and distorbance existing in that quarter, which called for the				g 8	38			2
	constant presence of a joint ma- gistrate.							X 10	
Kissenpore Gaol: New Tile	The gaol had heretofore been thutched, but a thatched roof.	- Sanctioned 16th September 1844, *	Kissenpore	9,06	6 5 11		9,616 4 9	Completed season	
	from its liability to take fire, was considered particularly objection- able for a gool.			5-	7.				
	pose sur a grou		P .	3° 2	22				
	TH-EASTERN PROVINCES_J	DDICIAL:	10 m 10 m		2000				
Kyouk Physo:	Principle of the second					١.	• • • •	La Carrier	
Addition of Out-offices to the New Circuit-house.		- Sanctioned 5th October 1841.		1,08	2 8 3		1,089 - 8	Completed season 1842-43.	
Construction of new Guol Buildings.	The old gaol wards were quite unworthy of further re-	Sanctioned 31st July 1843.	Kyouk Phyoo		• •	٠	20,867 5 \$	_	
	pairs.			, °					
Construction of a Sudder Hos- pital.	- Indispensably necessary for the accommodation of the sick of the police, the flotilla, and	Sanctioned 24th June 1644.	• • •	1,75	3 10 6	•	1760 5 -	Completed season 1845-46.	-
	other civil establishments.	ŕ			er Norman	E 3		_	
Construction of two new Wells for the gast.		Sanctioned 31st July 1843.	- · ·	. 61	7 5 9	1	617 6 9	Constructed sea- son 1845-46,	•
* CIVIL BUILDINGS, NOT	RTH-WESTERN PROVINCES	IUDICIAL.		N 10	1				
Kumaon: Construction of a'l	For the accommodation of the junior Assistant Commissioner	Sanctioned 7th		69	5 1 9		779 15 -	Completed season 1841-42.	.
	and Sudder Ameen.	• 44			n 9	,			
Kuchwager: Construction of Police Guards.	For prisoners under trial	Sanctioned 27th April 1844.	Kuchwagur	2,20	0		2,200	son 1844-45.	-
CIVII PRU DINCE don		La Signa and "			to 8"		er 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Kyouk Physo:	TH-HASTERN PROVINCES—B	RAENOR:	9			œ.,			
The second secon	In compliance with the recom-	Sanational 4th	In Freeman's Bund.		7 2 11	÷	A F7F B 77	C	in the graph of
Sluices with self-acting	mendation of the Commissioner of Arracad.	Murch, and 20th May 1846.		2,57	,	****	. 2,577 9 11	Completed season 1847-48.	
Construction of a masonry	- ditto	Sanctioned 15th	In Hopkinson's	. 09	2 -1 11		7 989 1 11	Completed season	
Sluice with self-acting gate.		April 1846.	Bund, at Kyonk Physo.	99.5		5 1	- 5	1847-48.	
N According		E st			S 6 9 7	ia 2		Profit is a finished and a figure	(continued)

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
Civil Buildings, Sours	-Eastern Provinces-Revent	B—continued.		Rs. a. p.	Rt. a. p.		
Kyouk Phyoo continued.	A man j		*				
	In compliance with the recom- mendation of the Commissioner of Arracau,	Sanctioned 4th March 1846.	- In the Fish Village Bund.	508 14 9	598 14 9	Completed season 1847-48.	
Construction of a Sluice Bridge called Chota Nemuch Gol- lab.	With the view of improving the salubrity of the station.	Sanctioned May 1847.	Kyouk Phyoo - •	860 - 4	860 - 4	Constructed sea- son 1849-50.	- This work was projected by the Commissioner of Arracan.
New Stuice in Freeman's Bond		• • Sauctioned season 1849–50.		949 9 4	949 9 4	Constructed sea- son 1849-50.	The sanction for this work was obtained from the Government, direct by the Commissioner at Arracan.
CIVIL BUILDINGS, SOU	TII-BASTERN PROVINCES-G	ENERAL:	N 50				
	For the security of the estab- lishments at Kedgerea, as well as of the lukabitants, in the event of a gale occurring similar to that in 1833.		Kedgeree -	4,169 11 -	4,214 9 9	Completed season 1841—42.	Three of the stories will be for places of refuge in times of inundation, and the fourth may be used by the Semaphore establishment, and also for the purpose of exhibiting a light,
Kulderpore: New Fitting Shop		Sanctioned season		12,945 - 1		Completed season	if necessary, for the use of the ship- ping. - The work has been satisfactorily
in the Steam Dockyard.		1838–39.				1841-43	executed.
Kedperee: Enclosure of the Burial-ground.	- The place was represented to be a perfect jungle, without any surrounding wall, hedge, or fence of any kind whatever.	Seactioned 28th April 1842,		764 12 111	79 6 . 5. –	Completed season 1845-44	
Kyouk Physo:						280	
Construction of Godowas' -	For marine stores	By order of the Commissioner of Ar- racan, dated 17 Feb- ruary 1840.	Kyonk Physo-	9,550 a 10		Completed season 1841-43.	- These buildings replaced two others which had been pulled down.
Construction of a new Marine Magazine.	- The old building has been in a state of dilapidation stace 1888.	Sanctioned season 1842-43.	Kyouk Phyoo	1,798 9 9		Completed season 1842-43.	-
Kootubdea Island: Construc- tion of a Lighthouse, &c.		Sanctioned 11th January 1843.	Kootubdea Island	35,511	99,235 6 5	- Completed 21st February 1846.	The light will be exhibited 100 feet above high water spring-tides, and the lantern is to be 12 feet in
Kidderpore:							diameter.
Additional accommodation in the Steam Department.	- For a new store room, offices and model room.	Sanctioned 20th July 1842.	Kidderpore	40,036 12	45,376 4 6	Completed season 1844-45.	The saving of Rs. 5,339. O. S. is accribed to modifications from the erigi-
a contract of the contract of				e e e ac		1011-10.	nal design.

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	PAPERS
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8				92.043 7 94	87,788 7 1	Completed season	1
Construction of Pucca Dry Dock.	In lieu of the existing cutchs	October 1842, and 5th		92,043 7 94	61,105 1 1	1844-1845.	In consequence of the difficult nature of the undertaking, the floor
4		February 1844.					of the dock resting on a mass of springs, it became necessary to change
Completion of the River Wall, piling and filling up the old							the mode of laying the foundation.
Mud Dock and Tank.					F		
et .		1		4 2			
Kidderpore: Renewing a Store-room, con-	At the request of the Super-	Sanctioned 9th	Kidderpore	6,507 6 9	6,564 4 1	Completed season	- (
structing a Coal-tar Tank,	intendent of the Marina.	April 1844.		* * * *		1844-46.	
&c., in the Naval Store- keeper's Department.						8 H N	
	For the reception of the pump	Sanctioned 17th		8,429 8 9	7,005 8 6	Completed season	-
Construction of Buildings -	and punching machine.	June 1844.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1000 0 0	1645-46.	Luc e
Kidderpore:		1				Constructed season	, m
Construction of a Shed -	As a receptacle for coals	Sanctioned 28th		477	477	1844-45.	
	* 100	Pebruary 1844.		This work was suspended	83,557 1 io		The section of the new wall will be
Dockyard; ranewal of a por-	The old retaining wall is in a dangerous state, and the founds-	Sanctioned 22d July 1946.		in 1845-40, as the entrance	93,007 1 10		similar to that of the wharf wall at Sheerness, where the soil somewhat re-
tion of the Retaining Wall.	tions are supposed to be defec-	ow, 1010.	(A) (A) (B)	to a projected wet deck		An and the second	sembles that at Kidderpore.
*	tire.			on part of the intended site;			
			a d	the revetment wall was re- constructed in season 1840-			Z
			*	50, at a cost of Rs. 11,272. 15. 11.	,]	
		1.44				· _	
Kyouk Physo: Construction of	For the convenience of the	Sanctioned 16th September 1844.	Kyouk Phyon		3,748 8 -		a a s s san a kara .
three Jettles or Piers.	salt traders frequenting the port.	Debremon 1045		20.340	17.375		
Sidderpore Dorkyard: Con- struction of a musoury Plat-	ahipped by the Court of Direc-			20,040	11,010	11.	
form.	tora			N N N			
Kootubdea: Lighthouse Build-	For a lighthouse tower and	Sanctioned 8th Oc-	Kootubden Island -	85,289 - 5	29,235	Completed Feb- rusry 1846.	The excess over the original estimate was occasioned by the rates assumed
ings.	lantern, with buildings for the	tober 1845.	61			9	by the executive engineer being purely conjectural, in consequence of the iso-
e e e a,	Lascars, on the island of Kootub-		38	•		06 8	lated spot at which the work was to be
5 30 3	dea.					* *	carried ent.
Kidderpore:	acee ga es é				1,97,911 6 9	1	T It is proposed to make the entrance
Proposed construction of a Basin or Wet Dock.	For inland steamers	Submitted for sane- tion 19th June 1846.	Kidderpors		1347411 0 8		into the wet dock through the dry
to the second se	a ne it		1	. I N	F . N .		structing a new entrance with locks, &c., will be in great part avoided, while
	and the second of					2 2 2 XXX	the dry dock will still remain available for the purposes of its original con-
25	ii.		a ge ==		(4.9°) - 8°	9 37 5	struction, whenever required.
Dockward: construction of	The necessity for these works	- Sanctioned Elst	- Ditte		16,057 7 6		7, 3, 30
Bost and Conl-sheds, and	was brought to notice by the Act-				was to	* D ********	
fitting up a Tank.	ing Superintendent of Marine,	* * * * * * * * * * * * * * * * * * *			Viii phone na	I	(continued)

No. 0.—Statement compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK	Object of Construction.	Length, and Data of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
Civil Buildings, South	-Kastern Provinces-Genera	_continued	*	Rs. a. p.	Re. a. p.		
Kidderpore-continued.	-£". * 1		• •				
Dock yard; construction of Dwelling-houses.	For the Naval Storekeeper and Marine Surveyor and Builder.	Sanctioned 29th April 1848.	Kidderpore		19,008 11 8		- This arrangement will make the pre- sent house occupied by the naval store- keeper available for the assistant sur-
		*	*	7 88			veyor and builder. The quarters of the latter, which are unfit for a dwelling house, the rooms being confined and
			3 X		## ## ### ##		low, will be converted into godowns, as proposed by the Marine Superin- tendent.
•		2 19					
Additions and Alterations to the Marine Superintendent's house.	- Most of the beams and burgahs were in a decayed state.	Sanctioned 7th May 1649.	- Ditto	7,803 14 -	7,803 14 -	Completed season 1849-50.	- It was at first contemplated, on account of the almost rulnous state of the building, to substitute a new one at an
						810	estimated cost of Rs. 27,898. 2., but a committee of civil architects were fa- vourable to the retention of the old
Kyouk Phyoo:	•	•					building.
New Office for the Salt Super- intendent.	the Board of Customs, Salt and Option, of the necessity for such	- Sanctioned 24th March 1847.	Kyouk Phyoo	11,090 6 10		Constructed season 1849-50.	
	an office, in lieu of the old di- lapidated building previously used.	- e			2 2		
Erection of a New Treasury, Record Boom, and Guard Room,	- Under a representation from the Commissioner of Arracan, that the existing buildings were un-	Banctioned 12th December 1840.	- Ditto		3,656	Scaron 1849-50.	
ж о е	safe, having been several times actually on fire.		2 2d 4 2d				
CIVIL BUILDINGS, LOW	VER PROVINCES-GENERAL				\$1 (e. 248)		# # # # # # # # # # # # # # # # # # #
	- This bungalow is to be in the place of the staging bungalow at	Sanctioned 5th August 1844.	Kurseong	8,190 11 6	8,107 15 4	Constructed season 1846-47.	tendent of Darjeeling, the site of the
	Mahalderam, built by the Darjec- ling committee, but now in a dilapidated state.	* **				3 AND 3	bungalow has been removed to Kur- seong, which station is five miles nearer the plains than Mahalderam, at which latter place there has hitherto been,
, r r g	ran e						and still is, an hotel for the accommodation of travellers.
Kishenogur: Construction of a Post-office at.	The accommodation heretofore afforded to the records of the Post- office in the Collector's office, is	Sanctioned 6th March 1846.	Kishenagur = =	739 9 5	723	Completed season 1847-48.	This building is to be of puces, on account of the great destruction of woodwork at the station.
the state of the s	ne longer available.			l	12	1	The state of the s

듯			GENERAL:	_12				
87.	Kurnaul: New Roof to the Roman Catholic Chapel.		Sanctioned 6th April 1842.	Kurnaul	677 15 11		Completed season 1842-48.	
10	Kussquiles:	* 1	100 100 100 100 100 100 100 100 100 100	10		described to the control of the cont	to a fil	200 X X X 2
2	Construction of a Protestant Church at.	* * * * * *	Sanctioned 17th January 1845.	Kussowles	- This work was suspended in season 1845-46.	25,734 19 6		
×	Construction of a Staging Bungulow.	- The necessity for this bunga- low appears to have been brought to notice by the Post-master,	Sanctioned 23d No- vember 1844.		9,808 19 8	8,018 12 . 8	Completed season 1845-46.	
		North-Western Provinces.	1 2000					
	Enclosure of the Burying- ground.	On a representation from the Archdeacon of Calcutta.	Sanctioned 6th No- vember 1848.		2,356 5 6	3,565 6 6	Completed season 1849-50.	The total length of the exclosur wall is 816 feet.
	Kurraches: Erection of a Post-	Sanctioned by Government in	Sanctioned 13th		849 8 ~		Constructed sea-	
37.5	office.	the Foreign Department,	July 1844.		AMERICA AND 1879	V. A.		
	Kummon: Alterations to four Staging Bungalows.	- The necessity for these altera- tions was brought to notice by the Postmester-general.	Sanctioned 10th November 1848.	These bungalows are situated at Penra Ramgar, Bhumtal an Bamouri.	no see on province and the see of the least of the see	1,909 0 8	Completed season 1849-50.	
	er da e			Bamouri.	3		i	
in B	CIVIL BUILDINGS, CEN	I TRAL PROVINCES—GENERA	Lı	*				
L	Kheres: Construction of a Sta- glog Bungalow.	The existing buildings, owing to the inefficiency of accommo- dation, did not meet the public	Sanctioned 9th September 1843.	Kheres	1,047 & 9	2,037 10 2 and Ro. 136. 7. 8. for the requisite furniture.	Completed season 1844-45.	
	The second second	wante.			4 12			
•	CIVIL BUILDINGS, SOU	TH-WESTERN PROVINCES-M	ARINE:	#1				
,0 5. 10	Kidderpore: Construction of a Workshop for the Comptrol- ler of Steam Machinery.	ingen by en en eigen and eigen	Sanctioned 22d May 1839.		6,601 12 -	6,893 & 8	Completed season 1839-40.	
161	ROADS AND BRIDGES,	CENTRAL PROVINCES:		E 10			100 0 0 10 100 0	
St 18	Lucknow Canal: Bridge over tite, on the rxd from the City to Constants, and Bridg- ing of the Wat recurses on	new line of road, half a mile less in length than the old road, which is through the King of Oude's	ted 26th February		Not reported	12,565 3 6 and Rs. 682. 7. 10., for bridges.	Not reported	The bridge over the Lucknew Can is to be of three arches; the cost wi it is believed, be defrayed from to Maritime Fund.
	that road.	private park at Delkonsah; and although his Majesty permits all European gentlemen to use this bended that this privilege would	road, it is appre-			•		
	The second of th	all classes of persons proceeding stantis, after it shall have become	to and from Con-					
e.	ROADS AND BRIDGES,	NORTH-WESTERN PROVINCE	ES:	e e				
	Lokares Bridge, over the Uril River.	- Increase of the waterway in consequence of the approaches to it being flooded in the rains.	Sanctioned 3d June 1842.	Loharee	11,322 3 5	11,999 15 1	Completed sesson 1842-43.	
	To go a	re norma mooned to me times.	10 10		:	i	L a fa	- (continue

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive -continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of . lutended Termination.	Amount of Expense Incurred.	Betimated Amount for Completion.	Probable Time of Completion.	REMARKS.
ROADS AND BRIDGES, No.	PRINCES-CON	tinued.		Rs. a. p.	Rs. a. p.	34	
ucknow Bridge, and repair of the Canseway.	- Two lengths of the exuseway, measuring 551 and 307 feet re- spectively, were entirely destroyed by a violent flood on the 20th Jane 1842,		Near Scharnnpore -	• • • • • • • • • •			The causeway of the Lucknow Bridg is constructed on land arches travers ing a plain of deep sand, and extend to a length of 2,324 feet. The bridge and causeway were constructed in th year 1827, at a cost of 36,000 rupes
	a Salaa A ay a g	8 8 8	6 D	* Fig. 18		down 26 feet Two of the e symptoms of Rs. 536. 8. 0	the main arches of the bridge are carrie below the bed of the river to solid soi trees having been choked up, and show f bettlement in 1847–48, a sum of Co. i, was expended in flooring the space
			an e _{a a} e an	4		roadway of t	piers with rough wooden caissons. A senting to Rs. 1,907, for metaling the bridge, was sanctioned on the 1st Marafic over the bridge was represented
ndowr Roads: Reconstruction of several por- tions of the Embankment Walls.	These ronds were greatly in- jured by heavy rains in August 1842.	Sanctioned 6th Ja- mary 1843.		5,548 3 8	5,832 7 11	Completed season 1843-44.	
Repair of, and Enclosure of parts of the Road leading from the Barracks to the Hospital, with a rough Rell- ing.	These roads were again in- jured by the heavy rains of Au- gust and September 1843.	Sanctioned 1st De- cender 1843.		2, 191 5 3 .	8,444 5 8	- Completed season 1844-45.	- A railing has been erected alo the road.
hoo Gheed: Construction of n Iron Suspension Bridge ver the Lohoe River, at.	This bridge is intended to re- place as old wooden bridge, which is considered by the local autho- rities to be no longer safe.	Sanctioned 20th Sep- tember 1846.	Lohoo Ghaut		2,455 0 7		
CIVIL DUILDINGS, NOT	RTH-WESTERN PROVINCES-C	PENERAL:	•				
ndour: Enclosure of the Bu-		Sanctioned 1st Oc- tober 1843.		781 12 9	781 12 9	Completed season 1844-45.	1 2 8
too Chaut: Construction of Wall around the Burial-		Banctioned 21st July 1843.	å	201. i 2	26ì 1 s	Completed season 1844-45.	
ediana Crurch: Addition to	In consequence of the accom- modation being insufficient for the increased number of European troops.	Sanctioned 3d April 1844.	* * * *	4,043 11 2		Completed season 1845-46.	An addition of 40 feet has be made to the length of the church.
		1 1 mm	g a vir e e	Para Para Para Para Para Para Para Para		#1052 	
CIVIL BUILDINGS, CE	STRAL PROVINCES-ECCLESI	IASTICAL:	•			1.0	
cknow Courch		Sanctioned in August 1838.		5,400 of which, 1,900 rupees were by private subscrip-	\$. P. 7 S	Completed season 1840-41.	- The future repairs of the chur will be repaid by the State.
8		1		tion			g #0

	hth-western Provinces	Sanctioned in 1838 -	1	12	- 1	6,403	7 8		5,000	1	Completed season	
Landour Church; Construction of.		respectation in 1994 -	,	- T		,	* *			A 1	1840-41.	
Landour Buriol-grounds Con- struction of a Wooden Hall- ing.	To incluse the burial-ground -	• Senctioned 29th November 1839.	•		-				997 1	1 7	· ·	
CIVIT BUILDINGS CEN	TRAL PROVINCES—POLITIC	AL:			.]	2					· · · · · · · · ·	f All the day
	THAL THOTHCES—TOLLING	- Batimates aub-	1	5	- 1	- 13 		. 1	1,98,650	4 4	100.11	The estimates were returned with
Lucinow: Completion and re- pairs of the Constantia House Buildings.		mitted 13th July 1843.			,				, populo			an opinion that the design appeared good and the rates moderate.
CIVIL BUILDINGS, NOR	TH-WESTERN PROVINCES	POLITICAL:			- 1	251	# E	-	,	*		3
Lahore: Conversion of the Amar- kuller House into a Resi- dency.	For the Political Resident.	Sanctioned 9th October 1847.	Lahore			• • •	5	7	24,900	= , *		- The Resident is to be permitted to occupy the building rent-free, on the condition that he shall keep it in tenantable repair at his own cost, after
				10 M		1 × 10	*** ***		yo u	N: 100 10		the additions and repairs provided for
CIVIL BUILDINGS, PUN	JAUB CIRCLE-GENERAL:			15. 18	- 1		*	3			y e	have been completed.
Lahore:			1		- 1	1,837	9 2	1	_		Senson 1849-50.	
Fitting up of a large Hall in Dyan Ming's House.	To serve as a place of Divine worship.	Sanctioned ceason 1840-50.	Lahore		-	4.5	3 27					
Fitting up a Residence in Suchet Sing's House.	+ - For the ans of the Civil De-	Ditto	- Ditto			709		2		_00		Ke a a a a
Erection of a Staging Bunga- low, with Offices.	- On a representation from the Postmaster-general, North- Western Provinces.	Sanctioned 20th November 1849.	- Ditto	• , •		Σ, Σ···Σ			Not stated	; r.;	Season 1849-50 -	- The bungalow is to consist of one large room 80 × 18, with two rooms on each side 16 × 14, the whole to be surrounded by a versadah 10 feet high;
				6		e 6	ie		.MI (8	ă "	** **	this will be enclosed on two sides, forming four rooms 10 × 14, with four bathing rooms each 10 × 10.
Construction of a Chapel for the Roman-catholics.		Sanctioned 27th October 1849.		•	-		• •	-	4,801	Đ		With reference to the removal of the cantonment from Anarkulles to Mean Meer, this chapel will be con-
		e				364	Sep. (5)	1	e 4 ·	2000		structed at the latter place.
Repairs, &c. of General Ven-	- To adapt it for the residence of the Resident and his assist-	Sanctioned Octo-	i	•	•	- 12,408	7 8	-	• •		Beason 1850-51 -	The house is situated in the Auar- kulles cantonment.
	ents.					£0		.				
EMBANEMENTS, SOUTH	-EASTERN PROVINCES:		6.0	19	4		80			•		
Midnapore Division -		Length 657 miles -						-		• •		- Estimate for annual repairs of 1850-51, including repairs to sluices and impection bungalows, amounts to
				2.5		Į,ik	77.2	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,		Re. 85,411. 2. 1.
Construction of a new line in lieu of the old Zemindary Kimttee Bund, in Pergunnah Mingleghaut.	· For the protection of the Oolabareah amil road.	- Length, 8 miles 1 furlong; sanctioned 14th February 1842.			-	7,717	5 P		3,717	Δ	Completed acaseu 1843-44.	- Large plains, herstofore totally un- productive, have been brought under cultivation. Estimate for repairs to the Zemindury embankments for 1850-
TATAL DIRECTOR	* ,**	The state of the s		20 000 1		68 SSR		3	20 986	ASCE.	!	51, amounts to Rs. 12,334. 8. 6. (continued)

No. 6 STATEMENT compiled from the R	eports of the Military Board at B	engal, from Season 1839-40,	to 1850-51 inclusive-continued.
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construction of two Inspection Chamels, with Sluices. construction of two Inspection Bungalows. construction of a sew Bund. CANALS, SOUTH-RASTERN fofusii Canals: Improvement	To enable the executive officer to exercise a vigilant superintendance over the works in progress, In consequence of the old and having been nearly washed way during the gale of September 1840. PROVINCES:	- One of the sluices 16,000 feet in length, the other 765 feet in length, from the Cossye River, with two sluice-gates; sanc- tioned 8th October 1845. Sanctioned in 1847 Sanctioned 17th February 1847. - Sanctioned 28th September 1843.	Midnapore Bleetcool and Itchapore.	Rt. a. p. \$,078 509 - 5	Rt. c. p. 2,078, 599 - 5	Season 1845-46. - Completion reported in 1849.	
construction of two Inspection Channels, with Sluices. construction of two Inspection Bangalows. diddleton Point, Saugar Island: Construction of a new Band. CANALS, SOUTH-RASTERN fofusil Canals: Improvement of the.	- These works were proposed by the local authorities for the improvement of the Government state; viz., the pergunnals of Khider Koond. - To enable the executive officer to exercise a vigilant superintendence over the works in progress. - In consequence of the old way during been nearly washed way during the gale of September 1640. N PROVINCES: - By cutting down jungle, re-	16,000 feet in length, the other 705 feet in length, from the Cossye River, with two sluice-gates; sanctioned 2th October 1845, Sanctioned in 1847 Sanctioned 17th February 1847,	- Bheetcool and	8,078 509 - 5	2,078,	Completion re-	
Bangalows. Iddleton Point, Saugor Island: Construction of a new Bund. CANALS, SOUTH-EASTERN Tofusil Canals: Improvement of the.	o exercise a vigilant superintend- mee over the works in progress. In consequence of the old ound having been nearly washed way during the gale of Septem- mer 1840. P PROVINCES: By cutting down jungle, re-	Sanctioned in 1847 Sanctioned 17th February 1847 Sanctioned 28th			1,025		
Band. CANALS, SOUTH-EASTERN fofusil Canals: Improvement of the.	ound having been nearly washed way during the gale of September 1840. N PROVINCES: - By cutting down jungle, re-	February 1847. - Sanctioned 28th		1,625			
of the.	- By cutting down jungle, re-				241 343 A 951		
of the.							
CANALS, NORTH-WESTERN			,		4,368 4 6		These works will materially facili- tate the inland communication.
	N PROVINCES:	. 4		188	* 4 *		
Dam, south of the Ma- when sonry Dam, 21	- For the protection of the dam, which, during the flood of the let and 22d June 1842, appears a have been in great danger.	Senctioned 2d March 1842.	• • • •	10,490 ,5 -	. 13,630	Completed season 1843-44.	This work has fully answered the expectations entertained of it.
	- Considered indispensable for he safety of the dam.	Sanctioned 20th January 1844.		5,398 13 10	6,102 8 5	Completed season 1844-45.	
damage occasioned by floods. br. la. location in the location	- The Muskurra River, by the reaking of the bunds at the Ko-awalia Pass, and at the Daws-ooka, received all the mountain upply which usually passes off lown the Hindun.	Sanctioned 20th March 1845.	* * Y		6,222		
BOADS AND BRIDGES, SO	OUTH-EASTERN PROVINCES) 3:	1				
fidnapore: Construction of a -	- In lieu of an unserviceable ledge.	Banctioned 28th February 1842.	• • • •	781 8 10		- Constructed sea- son 1843-44.	
faggra to Chotckund, on the Grand Trank Road, metalling of.		- Sanctioned 22d April 1847.	Chotekund		76,186 10 6		20 miles. The high rate for metalling (amounting to nearly 4,000 rupees per mile) is occasioned by the great distances at which the quarries are attuated.

								Ð .
				a .	* ** ** ** ** ** ** ** ** ** ** ** ** *			
Mmaubheom : C	Construction of the Juilgarrah		Sanctioned 16th October 1843.	Maumbhoom	<i>5,</i> 029 9 3	9,801 7 1	Completed season 1840-47.	- This bridge is of three arches, of 25 feet span each. The saving of Re. 2,131, 13, 10, was in consequence
o a Bridge over	į	a a						of a saving on the quantity of masonry in the foundations, and of a great re- duction of rates.
					12		Completed sesson	dection of race-
Midnapore to E Construction of Bridges and Dr	f 12 Masonry w	- To replace the old dilapidated rorks.	- Senctioned 8th September 1847.	Bissenpare	1,418 15 7	1,480	1849-60.	
Midnapore: Con new Line of B	load, and five		. Sanctioned 30th May 1849.	Midnapore Division -	1,748 8 4 5	2,094 - 0	Completed season 1849-50.	- One of the bridges is of two arches, 13 feet span, at Bagdcoby Shele; two of one arch, 10 feet span, at Kathee-
Masonry Bridg	(3)							pottuh Khaul, and Kunkabeetha Shole; and two of one arch, 10 feet span, at Range Jhore, and Lodhasoh.
8		, w				(8)	a	
ROADS AN	D BRIDGES, LC	OWER PROVINCES:					Completed season	The line of road was considered by
Munipore Road	. be	- To make the communication etwern the Eastern frontier and he Burmese country compara-	Length, 99 miles and 6 furloogs.	- Bunksandy, in Cachar, to the village of Munipore.	92,427 B 1	1,26,940 4 4	1642-43.	the committee appointed in 1843 to have been judiciously selected, and the
- M		ively easy.				24	•	construction of it generally to reflect the greatest credit on the engineer officer. The road is quite practicable
* *								for the passage of guns, except at one point, where, however, the difficulty
							•••	may be obviated by the use of ropes.
A						5.15		
BOADS AN	D BRIDGES, CI	ENTRAL PROVINCES:		2000		Estimate for the		In 1840 the Government stated
Mogul Seral to Al) cn	The project is highly adve- sted, as forming a direct com- panication between the Grand	93 miles; estimates submitted 28th Feb-	Allahabad		from Mogul Seral to		that the large amount contemplated was more than could be assigned to the object from the general resources
	T1	runk Road, East of Benares	ruary 1840.			Mirzapore, 113 a miles, 1,08,940 rupees.	8 8 A	of the State; it was not intended to abandon the plan altogether, and the
	Cr.	no Ganges at Benares, and re- rossing it at Mirzapore, as at resent.				* ac 2	K s	surveys and estimates are, therefore, made over to the Commissioner of the Benares Division, with instructions to
* ** **	t f		A Ago	,				apply all available resources for the advancement of the project.
Mirzapore to Jubb		- For opening a communication	Commenced in 1824 -	- Jubbulpore (this is a portion of the	7,60,302	60,000 also, Rs. 3,579. 7. 2.	- Completion reported season 1839—40.	
	te	erritories, and with a view to its ltimate continuation to Nagpore		Great Deccan Road).	•	for the reconstruction of bridges carried away by hill floods		
	20	nd Comractee.				in 1839.	la FAS	
Metalling the rem portion of the r			- Length, 18 miles, 6 furlangs, 25 yards.		24,944 8 6		Completed	- The entire line of this road, mea- suring 239 miles, is now metalled.
Construction of	three Bridges	- In lieu of bridges carried away	Sanctioned season		3,506 14 -	8,573 7 21	Completed season 1842-43.	-
on this Road, he	etween Myhna by	y floods in 1839.	1839-40.	965 W			21.0	(continued)
				l	4. * *	T	• (4)	· · · · · · · · · · · · · · · · · · ·

No. 6.—Statement compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
		0.182					
BOADS AND BRIDGES,	NORTH-WESTERN PROVINCE	KS:		Rs. a. p.	Re. a. p.	25	
terrut to Ghazecoodennujgur: Improvement of the Road.		Sanctioned season 1848-49; length, 28	Ghazeeoodennuggur-	For bridges - 7,745 - 5 For metalling 68,861 14 11	27,407	Completed season	- The construction of this road was first undertaken by the Meerut Ros
(2.42)		miles, 7 furlongs.		For a pucka drain - 7.745 - 5	ling this road.	E .	Fund Committee, by whom it w
			a v ga	drain - 7,740 - 0	F 97.5	4 T 4 K	abandoned, after eight miles had be completed, owing to insufficient mean
Š ir	•					1 10	the Committee pledges itself to execu
				• • •			the earthwork, leaving the metallic
w	8.00 SES				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and bridges to Government. This li
n ~				rig	. '	W 2	Meerut to the 7th division of the Gra
		~		5 10 0	2.00	100 Page	Trunk Road; the unnual repairs a
				- N		8 76 ess	equimined at 0,042 supecs.
onstruction of a Bridge over a Nullah.	For drainage	• • Sauctioned 27th October 1842.		620 4 4	620 4 4	Constructed season	
1. milani	· ·	OCCUPATIONS.	14 PM:	1 2 2 2	5 · * * *	1843-44.	a e e e e e e e e e e e
serut to Kurnaul	Represented to be useful both						
	for commercial and military pur-	95			, A		
Miles	•					p. 2 p. excel	ge e
chana: Construction of a Paved Causeway across the River Peorbattes.	 This work is considered absolutely necessary on account of the roughness of the present crossing. 	Sanctioned 16th January 1847.	On the road be- tween Gwalior and Seepres.		9,490 9 6		- The causeway is of rough stor dressed with chisel-
	at which vehicles frequently break		occpros.	1			രാഹങ്ങള് ഉത്തര് വര്
• .	down, or are so much shaken as		1				
• " "	to render them almost useless.	·	2 7	8	223		
oczuffernuggur : Restoration of the Bridge over the Kallee Nuddee.	Carried away by a flood on the 20th June 1842.	Sanctioned 17th November 1843.	At Mulleerah	14,404 12 9	11,205 8 2	Completed season 1844-45.	- This bridge was constructed 1826 by Captain M Mullin, at a c
N UMITOS		* / *					of 52,000 rapees. The five principarches which withstood the flood we
4.			100		1 1 1	26 18 2 19	founded on wells; those which fai
						* • * *	rested only on caissons. To the def
35		1	, a 2				and to the contracted span of the arch the failure is in a great measure to
©• 991	20 M 20 M			8 m3 g 2			ascribed. The piers are to be raised
			a di	E 10			14 instead of nine feet.
			77 - nata	. 149010 0 0	on our or o		
tion of a Road.		Length, 50 miles; sanctioned 24th Janu-	Koorja '-	1,48,019 3 8	93,645 3 8	Completed season 1846-47.	- Twenty bridges will be construct
•		ary 1843,	· 4 *				viz., Kurkhonda, Hauppera, Gallowt
	w C Francis		*			lows, it was sub	Boolundshur. The three former bung sequently found, would not be require and metalling of the portion of this ro-
		r n n				hetween Gallowt	ee and Khooria (22 miles), which h
		the state of the s	0.00 NO 10		N (4)	been left to the	Boolundshur Road Fund Committee, w
a gara		2 A 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		that a adpoleme	ne in the first instance by that committed that estimate of Re. 55,274. 10. w
	3	e e				sanctioned on the	27th August 1846, for repairing ruts as
NS SSN 29	I	II 0	4 (9)	4 800 15	4	restoring the meta	alling.

secretary of the rentinements at April Construction of stakes of the maintenance of a profession with a position of the profession of the	2	<u> </u>		Longth, 14 miles;	A		n 3236					1		20		la a ·
at Act a Construction of a Table Mills in Bounded at Contract the Mills at Chitroch between the Wills at Chitroch and Sandinger. CIVIL WILLDINGS, SOUTH-RASTERN PROVINCES—UDIOIAL: — Sunctioned 9th Meximus Chitroch and Shidlings. Minimators: Construction of an all districts of Chitroch will be wi					with can	constitution			0,8:50	•	El .	, ,	5,235	4 -		l
Table 1 State Stat	70		and t				107					ł		20	1840-47.	
The Nithia is nomined at The Nithia is contended the December 1846.	DE			AUTOS,	j	16.7		***				ł		(#X)	, 0 0	E S T
The Nithia is nomined at The Nithia is contended the December 1846.	77	ANIAGA TATERAL BEORG'		*		8	(* 2									*
December 1840, at Chitrokhara. Civil RULDINOS, 80UTH-RASTERN PROVINCES—TUDICIAL: Mondemin Alterations to the solid construction of salidinase and the second court, by the second tries of the proper case of the proper cas	88	and the same and the same and			4000	£ 18									2 560	
thirtyshorms. Chiltyshorms. Chilty	1						•		· 2		•		8,870			This bridge is to be of three arches.
there is sometimes adopted free free free free free free free fr				December 1640*		48	2.10	1	20.	95	9.0	8	7476	8 8		with raised approaches,
fee of water on the first crossed, by the root. The National Solid Impressable for travellers or corts out the season of tringuists has construction of the Solid Impressable for travellers or corts out the season of tringuists has construction of the Solid Impressable for travellers or corts out the season of tringuists by the solid Impressable for travellers or corts out the season of tringuists by the solid Impressable for travellers or corts out to the Solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or corts out to the solid Impressable for travellers or the solid Impressabl		Chittrok beree.		8 14			- 1			8.					i .	· .
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mount for trigation has passed over, the necessity for the contraction of the contraction	9	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	being black soil, and the ford		*	1,5	- 1	i i	35	10			- 2			ter to the second
passed over, the necessity for the contraction of this brings is anticiously obvious. - CIVIL MULLINIOS, SOUTH-RASTERN PROVINCES—JUDICIAL: - Sanctioned Pt. May 1807. - Modimain Attentions to the May 1807. - Midnarpore: Construction of an additional Houn to this Mangistrate's Cutchbury. - Owing to the small star of the appear connected with the surgestrates cover is brid; at has been found movement of the Mangistrate's Cutchbury. - Sanctioned South - Sanct		*		*	1						19	1			fee e	**
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Moulineis Alterations to the Castaland of Balidings. - Sanctioned 15th May 1897. - Sanctioned 15th May 1897. - Sanctioned 25d May 1897. - Sanctioned 25				1 to 1						8		10		181	* **	
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additional Room to the Mo- gistrate's Cutcherry. Significate's Cutche				** ***********************************	Ī										- 186 G	
additional Room to the Mo- gistrate's Cutcherry. Significate's Cutche	7	Lidnanare: Construction of an	Owing to the small sign of the	Sanotloned 18th		_			2.348	8 -	ă.		2.349	5 64	Completed senson	The existing buildings were trade
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a Cutchorry for the Native Judga. Moulinein Gaol: Alterations to		200 19	actually being heard.							20		Ī			1	to B closs.
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a Cutcherry for the Native Judge. Moulinein Gaol: Alterations to ———————————————————————————————————	A	faumbhom; Construction of		Sanctioned 20th	Maumbho	onm +			1.264	11 -	3 855	١.			Completed season	
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Watch-houses. From listing of the Commissioner of the Tenaserim provinces. Manufacin: Construction of Commissioner of the Tenaserim Provinces and his October 1845. Manufacin: Construction of Commissioner of the Tenaserim Provinces and his October 1845. Manufacin: Construction of Tenaserim Provinces and his owing to difference of rates, and the execution of much work which was not provided for. Manufacin: Construction of Tenaserim Provinces and his owing to difference of rates, and the execution of much work which was not provided for. Marqui: Purchase and Repair of a Circuit-house Sanctioned 2d June 1847.		to the Gaol.		April 1845.		- 9			20					3	1845-46.	
Watch-houses. requisition of the Commissioner of the Tensaserim provinces. Maulinein: Construction of Office and Sessions Court. Construction of Decidence and his principal assistant. May 1845. May 1845. May 1846. Sanctioned 17th Moulmein - 13,877 8 7 10,600 Completed season 1847-48. Sanctioned 17th October 1845. May 1845. May 1846. Sanctioned 17th October 1845. The excess over the estimate is owing to difference of rates, and the execution of much work which was not provided for. Marguit Purchase and Repair of a Building. May 1846. Sanctioned 2d Morgul - 1,863 14 9 Sanctioned 2d June 1847.		K.					1		528			ļ			en state to our	
Watch-houses. From listing of the Commissioner of the Tenaserim provinces. Manufacin: Construction of Commissioner of the Tenaserim Provinces and his October 1845. Manufacin: Construction of Commissioner of the Tenaserim Provinces and his October 1845. Manufacin: Construction of Tenaserim Provinces and his owing to difference of rates, and the execution of much work which was not provided for. Manufacin: Construction of Tenaserim Provinces and his owing to difference of rates, and the execution of much work which was not provided for. Marqui: Purchase and Repair of a Circuit-house Sanctioned 2d June 1847.	C	onstruction of seven Police	Constructed on the amergent	Sanctioned 934	2 2	* 2	120	Ü	821		9	1	891		- Constructed senson	<u></u> -
Moulmein: Construction of For the Commissioner of the Tensserim provinces and Sessions Court, Others and Sessions Court, Tensserim Provinces and his principal assistant. Mergui: Purchase and Repair of a Building. Moulmein - 13,877 8 7 10,500 Completed season - The excess over the estimate is owing to difference of rates, and this execution of much work which was not provided for. Season 1847-48. Season 1847-48. Season 1847-48. Season 1847-48.		Watch-houses.	requisition of the Commissioner		2 0		1000					1	RANGE I			
Offices and Sessions Court. Tenasserim Provinces and his principal assistant. October 1845. October 1845. October 1845. October 1845. Origination of much work which was not provided for. Merguit Purchase and Repair of a Building. Tenasserim Provinces and his principal assistant. October 1845. Oc		A Section of the sect	of the Tenesserim provinces.							62		1				
Others and Sessions Court, Tonasserim Provinces and his principal assistant. October 1845. October 1845. October 1845. October 1845. October 1845. October 1845. Owing to difference of rates, and the execution of much work which was not provided for. Merguit Purchase and Repair of a Building. For a Circuit-house Sunctioned 2d Mergul - 1,863 14 9 Season 1847-48		W.	9				ं	ř				l	. #			
Offices and Sessions Court. Tenasserim Provinces and his principal assistant. October 1845. October 1845. October 1845. October 1845. Origination of much work which was not provided for. Merguit Purchase and Repair of a Building. Tenasserim Provinces and his principal assistant. October 1845. Oc	8	foulmein : Construction of	For the Commissioner of the	a Sepationed 17th	Monlmetre		1947		13.877	8 2		17	0.500		L. Completed serson	Mha anna anna sha ann
principal assistant. Sexecution of much work which was not provided for. Mergui: Purchase and Repair For a Circuit-house Sanctioned 2d Morgul - 1,863 14 9 Season 1847-48 Grant 1847.		Offices and Sessions Court.	Tenseserim Provinces and his		Divament	8		8	10,011			• •	0,000			
Merguit Purchase and Repair For a Circuit-house Sanctioned 2d Morgui - 1,863 14 9 Season 1847-48 June 1847.		•		72		60			92				8		1	
Mergui: Purchase and Repair For a Circuit-house Sanationed 2d Morgui - 1,863 14 9 Season 1847-48 June 1847.		9	u=naron sumit≡s sir en rumanen ar varaditiretit. St	•			- 1	000							1	
of a Building. June 1847.		in the contract	5 194 S20 OI				8		3			1		4	(a)	
of a Building. June 1847.	A	ferguit Purchase and Renair	For a Circuit-house	Sanctioned 9.1	Morent				1 883	14 0	,	1.			Seeson 1847-48	
					- willers	-	- 1	S 15	2,000			I -				(76)
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No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive - continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
Civit Buildings, South	BASTERN PROVINCES—JUDICIA	L—continued.		Rs. a. p.	Rs. a. p.	•	
Mideapore Ga-4: Construction of improved Ventilators, and additional accommodation.	- Fifty-serea ventilators were constructed in 1841-42, which only partially succeeded, in con- sequence of their inadequate size, being only 14 feet square, in im- proving the salubrity of the gaol.	Senctioned season 1846-47.	Midnapore	4,485 1 9	4,010 8	- Completion reported season 1849-50.	The new ventilatiors are of a larger description, being 8 × 2 in the clear.
Midnopore: Additions to the Collector's and Magistrate's Cutcherries.	The construction of seven ad- ditional rooms, of pucca masonry, with flat roofs, is required.	Sanctioned 16th June 1847.		0,612 11 -	9,111 8 -	Completed season 1849-50.	·
Mergui Gaol : Construction of a Gaoler's House and Cook-houses.		Sanctioned 3d November 1847.		1,647 4 1	1,647 4 1		- The cook-houses were in lieu of their considered to be too near to the compound wall; the house for the gade was built in consequence of it bein deemed necessary that the gadershoul be lodged within the premises, especiall at night.
Mostmein Goot; Construction of a new Granary.	- Undertaken on the recom- mendation of a special committee of survey.	Sanctioned Loth February 1849.	Moulmein	3,420 4 10		Season 1849-50 -	- The old granary was composed e tirely of wood, and covered with thate and was reported to be in a ver dilapidated and unsafe state.
Houlmein Good: Additions to the Gaol Buildings.	- The Commissioner of the Temaserim Provinces represented the works to be indispensably necessary with reference to the discreditable and unsafe state of the gaol.	Sanctioned 5th February 1851.	Ditto	* * * * * *	38,545 14 -		- The required buildings consist additions to the main ward, a hospite deputy gaoler's house, solitary cel dead-house, dissecting room, with ou offices.
CIVIL BUILDINGS, LO	WER PROVINCES-JUDICIAL	r ·					* N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
foorshedabad : Construction of four experimental Penitentiary Wards.		Sanctioned 8th February 1842.	Moorshedabad	23,962	23,962		These four wards are for 120 men.
Moozufferpore: House of Cor- rection.		Sanctioned 7th December 1841.	Moozufferpore	14,947 4 14	13,000	Completed season 1842-43.	- The gad of this place, in con- quence of the encroachments of t river, must are long be entirely giv up. The prisoners of this distr- sentenced to longer periods of confir- ment than one year, will be sent to t Patna Penitentiary.
Noorshedahad Imambarrah	- To replace an old imambarrah in a state of great decay, and which was considered too close to the palace.	Sauctioned 7th December 1840.	Moorshedabad -	Not reported	90,000	Not reported	This work will be paid for from t Nizamut Deposit Fund.
Monghur Gael: Construction of additional Wards.	For the accommodation of the prisoners, the existing space being insufficient.	Sanctioned 17th November 1840.	Monghyr	885 0 4 1	095 8 9	Completed season 1841-42.	

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Monghyr: Construction of a Cutcherry for the Magistrate,	Called for with reference to the appointment of a separate officer to the magistracy.		Ditto	4,081 - 6	5,100 13 10	Completed season 1848-47.	
Construction of a Circuit House.		Sanctloued 20th November 1844.		4,572 0 84	4,009 5 -	Season 1847-48 -	- A private house was purchased and converted into a circuit house, in ac- cordance with an estimate sanctioned on the 7th October 1845.
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		To the same of the	8 8 6 8	The same of the country to the
Mostecaree Construction of a Circuit House and Out-offices.		Sanctioned 20th November 1844.	Mootecares	\$,07\$ 10 S	4,999 5 -	Completed season 1847-48.	
Maidah: Purchase of a House, and its adaptation for the purposes of a Circuit House,		Sanctioned 20th November 1844.	Maldah	8,761 18 11	8,761 18 11	Вевзоп 1844-45.	
Moozufferpore: Purchase of a private Building at.	Sessions Judge.	Sanctioned 28th December 1838.		1,700		Season 1841-42 -	This building, which was the pro- perty of Meer Abdoollah, and had been hired ever aince the year 1808
			G#	2 2 2		ł	at a monthly rent of 80 rupecs, has been purchased for less than two years'
		A 20 Mag					rent.
	To afford more accommodation -	Sanctioned 2d No-	4		100		
Monghyr: Additions to the Magistrate's and Collector's Cutcherry.	To anord more accommonation -	vember 1841.					
, y . ch . check 250 250 - 51		F 4			-		I
Mymensing: Addition of a pucks tiled verandah to the Judicial Cutcherry.	For the accommodation and convenience of suitors,	Sanctioned 6th July 1841.		883 4 10		Constructed season 1842-43.	= =
Construction of Cutcherries for the Principal Sudder Ancen.	- The present building is a cutcha building with a thatched roof, and is considered by Go-	Sanctioned 30th July 1845.	Mymensing		5,038		
	vernment an unit place (in consequence of its liability to be destroyed by fire) for the reception of documents of great importance,	at a sp	a g la				
Mymensing Gaol: Construction of seven Night Privice.	which are now lodged in it.	Sanctioned season	Ditto	607 18 9 1		- Completed season 1845-40.	
Monghyr; Construction of a	This building is required in	Sanctioned 16th	Monghyr	908 13 1 1	1,097	- Completed season	
suitable Court-house for the Budder Amers and Moonsiff.	lieu of a private building, the pro- perty of the former native judge, which is inconveniently situated.	April 1846.			er. F	1647-4d.	eri, agis manin
	being in the heart of the town,	4 g s .	20 Na 20 Na			scho war en effort	
Moozusterpore:	from other public offices, which are all within the fort.						
Raising the pillars of the verandah of the Judge's Cutcherry.	- To raise the verandah two feet, and to give it a sloping terraced roof.	Sanctioned S0th April 1845.	Moozufferpore	1,541 13 6	1,541 18 6	Completed season 1840-47.	
Construction of a House of Correction.	For 562 prisoners, including patients in hospital at Moosuf- ferpore.	Banctioned 17th November 1847.			20,601 9 8		
		l	, ,	1.			(continued)
	46	7 E			* *	¥ *	

No. 6 -STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Longth, and Date of Commencement.	Place o	or of		1	Amor of Expense I		red.	1	imated for Comple			Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, NO	TH-WESTERN PROVINCES	UDICIAL:					Re.	a.	р.		Re.	a. p			• 8 s
	To increase the accommodation -	Sanctioned 20th April 1840.	-	,	• •		3,238	15	9		4,041		-	Completed season 1841-42,	
Malhout in the Bhuttee Ter- vilory: Construction of a well.	;	Sanctioned season 1830-40.	•	•			1,408	8	4		1,000			Completed senson 1840-41.	The excess of 408 rupees was owin to the necessity for making the we 108 feet deep, instead of 90 feet,
*.					*					1	60	140 FM		** * *	contemplated by the estimate.
forms: Construction of houses	For the non-commissioned officers of the police battalion.	Sauctioned Blst March 1845.		3	S (10)	.	3,677	-	-		3,658	3 10	•	•• Completed sesson 1845-46.	* *
fooradabad: Construction of a record room for the Col- lector and Magistrate's Cut-	- The Lieutenant-governor satisfied himself, on a visit to the station, of the necessity for this	Sanctioned 22d August 1845.	Moorail	Lada	• •		5, 238 (11	4		5,235		•	Completed season 1847-48.	· . — · ·
cherry.	accommodation.				97	1				1	*				• * * * * * * * * * * * * * * * * * * *
CTUTE DISTRIBUCE CON	TRAL PROVINCES—JUDICIA	T.:				1			81	1				*	*
10 THE 1	TRAL PROTINCES		g w		3	120	5			[9. *	77
Construction of a new Gad Hospital	- On account of the confined and unhealthy site of the existing hospital.			• •			12,408	6	2	,	2,098	8, 1	i	Completed season 1843-44.	, - , s
Construction of a bridge near Weilesley's Thannah.		Sanctioned 23d March 1841.					610		6	-	•	•	•	• • Completed season 1841-42.	- This work was represented to be ve much required.
Construction of a Cutcherry for the Collector and Ma- gistrate.	In consequence of the sale of the Custom-house.	Sauctioned season 1839-40.		• ,	• •		15,029	4	6 <u>}</u>	-		•	•	Completed sesson 1841-42.	
fundlaiser Gaol : Additions to		- Sanctioned 27th November 1841.	•=	•	•		3,771	- ,	3		2,041	5 .	-+	Completed season 1842-43.	• • The new building is capable of holding 60 or 70 convicts.
			Ì,			1	2 6			ļ					
CIVIL BUILDINGS, SOU	TH-EASTERN PROVINCES—R	E com assert in the common II		2		1			- 6	l		_		Completed scason	
fidanpore: Additional accom- modation to the Collector's Cutcherry.		Banctioned 6th April 1841.					2,643	8	.		2,769	6.	•	1842-43.	• — "
								S		١.		**			
CIVIL BUILDINGS, LO	WER PROVINCES-REVENUE	11							-	į	<u>7</u> S		X.	2 a a a	
forzufferpore: Construction of two dams in the River Little Gunduck.	For the protection of the station.	Banctioned 25th April 1842.	•		•		662	7 1	1	•	•	•		Constructed season 1842-43.	- This work was proposed by the civil officer and the Durbungah Rajah
Moorshedabad: Record - room for the Collector's Cutcherry.		Sanctioned 16th June 1840.	•				1,085	2	9 1		٠,		•	Completed scason 1841-42.	

75	fig. with the second control of the second c	4 . 32.5 §	1		f ·	46	12	5 F	T	AND EN L
987.	Mymensing: Constitution of tiled Cutcherry for the Deputy Collector and Law Otherr, and rooms for records of the Magistrate and Collector.	- Rendered necessary in sonse- quence of the crowded state of the collector's autcherry.	- Sanctioned 21st September 1846.	Mymensing		4,948 1 5		35,75 1 2		- As very indifferent roofs are made from tiles at the station, a revised estimate was passed, previding for the substitution of flat roof and pueca superstructure walls, in lieu of tiled roofs and kutcha pueca walls.
	Moosufferpore: Construction of two pucca Verandahs.		- Sanctioned 1st July 1848,	- To the east and west sides of the col- lector's cutcherry.	•	408 4 3		408 4 8	Constructed season 1847-48.	
	CIVIL BUILDINGS, 801	! UTH WESTERN PROVINCES—I	! REVENUE:	, *****		10 M		e g		
50 50	Midnapors : Enlargement of the Collector's Cutcherry.	- To provide accommodation for the joint magistrate and the	Sanctioned 13th September 1836.			7,054 10 2				The additions made were four rooms, and verandals on three sides of the cutcherv.
	House for the Ravenus Sur- veyors and Establishment.	sinkingt.	Sanctioned 16th January 1838.			2,913 11 4	•	· ·		catcherry.
	No. 1	 RTH-WESTERN PROVINCES1	REVENUE:			* 44.		999		
- A	Mynpoores: Countraction of a Tehalidarry Catcherry.	For the collector and magistrate -	Sanctioned 3d March 1842.	At Ghirole		4,000 11 6		4,174 7 9	Completed season 1843-44.	
, X 4	Alterations and additions to the Sirpoorah Cutcherry.	To adapt for the Tehnil estab- lishment of the Lukat Eytah Division.	Sanctioned 7th Oc- tober 1843.	Strpourah	ļ .	1,728 2 6			Completed season 1843-44.	
	Mahur : Construction of a Bungalow,	For the deputy collector	Sanctioned 18th June 1846.	Scinde Division -		1,984 & 9		1,964 5 9	- Completed season 1840-47.	_
	CIVIL BUILDINGS, LO	WER PROVINCES-GENERA	L:		1 8	2 121				
, i	Moorshedabad College: Con- struction of.		Sanctioned 6th April 1840.	Moorshedabad		76,500 5 4		73,000	Completed season 1843-44.	a - In the amount expended is included Rs. 2,400. 5. 4., for the purchase of land, so, for a site, which was not in- cluded in the estimate.
	The service section and the se	ATH-WESTERN PROVINCES-				8		2 8 50	rv.	It is expected that the convenience
	Mohan Chomber; New Staging Bangalow at.	previously existing at Rejpore.	Sanctioned 14th November 1840.			1,477 7 8		1,169 18 5	Completed season 1840-41.	of travellers will be much increased by this arrangement.
540	Museores Church: Construc- tion of a new Roof, and repairs		Sanctioned 21st September 1841.			1,859 -	ļ		Completed season 1843-44.	the expenditure.
	of.				1 8					
i di	Mozuffermagur: Construction of Staging Bungalows at Scharuspoor.	The executive engineer was directed to commence upon the buildings without delay, as they	Sauctioned 18th November 1844.	Scharunpoor		4,122		4,300 3 9	Completed season 1845-40.	
12		were argently required for the accommodation of travellers.				The second secon				
ž.	Merrit: Purchase of a House for a Post-office.	- Provided on the represen- tation of the Poetmaster-general North-western Provinces.	- Sanctioned 25th September 1849.	Moerut	1	4,500			- Season 1849-50	- This house was the property of Mr. Chardo; the executive engineer considered it well worth the sum asked by the proprietor, and sanctioned by Go-
										verament for its purchase.

NAME OF WORK.	· Object of Construction.	Length, and Date of Commencement.	Place of Terminatio or of Intended Termination	of	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, SOU	 TII-EASTERN PROVINCES_G	 ENEBAL:	•	Re. a. p.	Re. a. p.		E 9
(idnapore :	ë						a• 191
Construction of a Staging Bungalow.	As a resting-place for travellers	Sanctioned 14th July 1841.	Midnapore -	- 1,442 8 9 }	1,463 - 4	Completed season 1842-43.	. 0:
Construction of a new School- house.	To replace a building which is stated to have been accidentally burnt down.	Sanctimed 1st Desember 1841.	- ditto	- 3,917 6 7	5,409 - 7	Completed season 1843-44.	
Addition to the Collector's Cutcherry.	For a post-office		'		1,042 2 1		
subnein: Construction of a new Wharf.	For the principal bazaer	July 1843.	Moulmein -		2,672 1 9		The suspension of the works wordered on the 23d September 1843,
					8 8 e, *	e g	some changes were stated to be in co- templation, which might render t- construction of the wharf unsuitable the place originally intended.
dilleton Point: Renewal of he Stockade, with sand posts.	- This stockade must be main- tained for the protection of the Government establishment from tigers.	Sanctioned 20th November 1844.	Middleton Point	2,576 9 8	2,665 19 >-	Completed season 1845-46.	=
ulmein: Substitution of tiled or thatched Roofs to certain farine Buildings,	For the protection of naval stores.	Sanctioned 11th March 1846.	Moulmeln .	719 9 9	730 - 9	Completed season 1847-48.	
pair of the Roof of St. Mat- hew's Church.	In consequence of the leakage of the old thatch roof.	Sanctioned 4th November 1848.	Moulmein -	- 1,138 11 11	1,138 11 11	Completed season 1849-50.	The new roof is shingled.
CIVIL BUILDINGS, CPN	TRAL PROVINCES—GENERAL		4			a e	
rzapore: Construction of a staging Bungalow.	For connecting the line of bun- galows on the Deccan-road to- wards Nagpore with those on the	Banctioned 25th September 1843.	Mirzapore -	- 2,340 9 2	2,340 9 9	Completed season 1844-45.	
and the same of th	Grand Trank Road from Calcutta to DelhiL			8 0	a, s		
CIVIL BUILDINGS, BOU	TH-BASTERN PROVINCES-M	ARINE:	a		545		
ulmein :							
Construction of a Hospital Ward within the compound of the European Infantry Hospital,	- For the reception of sick men of Her Mujesty's ships on the river.		Moulmein	758 8 10	758 8 10	Season 1842-43,	The seamen have litherto been received into the regimental hospital, but owing to the increase in the strengt of the corps, the hospital is now barely
Construction of a Post-office and five Shads.	For marine stores	Sauctioned 27th April 1842.		4,004 6 9	8,991 5 7	- Completed season	sufficient for the men of the regiment

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98	POLITICAL BUILDING	s, LOWER PROVINCES:		(K) (A)	1		20					· ve v v
Ý	Moreshedabad; Repairs to the Mansolaum of Mahobat Sung.		Sanctioned season 1840-41,	At Kooslibang		1,014				• . •	Completed season 1842-48,	
88	CANALS, NORTH-WEST	ERN PROVINCES:				24				*		
	Nyashur Watercourse	For irrigation	Sanctiond Sist November 1835.	This watercourse leaves the main chan-		4,030	11 8	. 1		• •	Completed souson 1841-42,	-
		·		nel just under the village of Tands, and	,	٠,	D.,		€ 10	• ,		
	Nuggeenah Canal:			passes to the east of Nyashur.		· ×	61 61					
	At Moradobad	For irrigation	Length, 23 miles ; especioned in 1839-40	• • • •		83,809	6 7		• •		Completed season	It is expected that 5,000 rupess will be ultimately realised by water rent.
-11	Raising of the banks of the -	- In order to admit a sufficient quantity of water.	Sanctioned 16th March 1841.			1,049	11 -	,			Season 1842-43.	
	Nujufghur Jheel Canal; Por-	To enable the people to culti-	Sanctioned 1848-47 -				. •		58,077 1	ı -		The complete drainage of the Jheel
•	mation of a Channal for drain-	vate such land which in past sea- sons has been submerged.	**			or A		y				lies this year brought a large quantity of land into cultivation.
•	Nuggernak Canal: Construction of a first-class		Sanctioned 3d	Situated pear the			7 8					
Z	Chowkee.		March 1843,	regulating dam on the Kuroola Nuddee.		904		×	998		Completed season 1848-44.	
	Construction of a second-class Chowkee.		Sanctioned 3d March 1842,	Situated near Jo- geopara.	2.	131	6 9	- 19	181	8 8	Completed season 1848-44.	
	Nyashur Dam: Increase to the Waterway of the.	- In consequence of the exces- sive body of water thrown on the dam during the rains.	Banctioned 31st March 1845.		•	• •		. •)	2,040	• •		
	Nujufyhur Jasel Drain: Annual clearance of the.		Santioned 3d Fe- bruary 1848.			711	14 4		1			
	CANALS AND RIVERS,	LOWER PROVINCES:			٠.	w ***	11 131	140	• 27 10	4		
	Nuddea Bivers; Toll Col- lections.		Length of rivers,		-		-	•				- The tell collections on these rivers, viz., the Blaigerutty, Muttabhaugah,
		•	2	A 250 31			3	12	a .	10	1	and Jellinghy, during the year 1847-48, amount to Rs. 2,88,720, 2, 9. The total expenditure on account of establish-
								18	4 s			ment, and for the execution of the works undertaken to facilitate the navi-
	ala e ten e 🕶					24	*	٠,				gation, amounts to Rs. 47,262, 15. 6.; surplus, Rs. 1,01,406, S. 3.
	ROADS AND BRIDGES,	SOUTH-BASTERN PROVINCE	3.	· .		90				٠. ا		
	Nudden: Construction of an Iron Suspension Bridge over the Ishamuttoe River.		Sanctioned 24th Pebruary 1847.	At the village of Bungong.	-	٠, ٠-	. •	-	48,000 Of which 20 pees will be su	occibed		- The project for this bridge contem- plates two spans of 180 feet each, with a roadway 16 feet wide, including the
		a a sa	ar r	• 1 ± *	1.		1		by Baboo Ka saud Podlar.	alleeper-		thickness of the half drop bars on each side; the angle of suspension will belo. (continued)

*	No. 6.—STATEMENT compile	d from the Reports o	f the Military Board	at Bengal, from Seaso	n 1839–40, to 1850	-51 inclusive—conti	nued.
NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
ROADS AND BRIDGES.	LOWER PROVINCES:			Rs. a. p.	Rs. a. p.		2 2 2 2 2 2 2 2 2
Newgong District: Construc- tion of Two Roads: viz., from Nowgong to Samoogooding, wid Deemapore, and from the Golah Ghaut to Deemapore.	- In consequence of the con- templated operations against the Aagumi Nagas.	Sanctioned 18th October 1850.	- Nowgong District		For the formerroad, For the latter road,		
BOADS AND BRIDGES,	CENTRAL PROVINCES:		KE				
Nusseerabad and Ajmere; Improvement of the Road between.	a - To remove the difficulties attending the passage of wheel carriages between these two places, the one a chief military station, the other a depôt for military stores.	- Length 13 1 miles; estimate sanctioned 13th November 1840.	 	5,773 14 10	7,979 2 9	- Completed season 1842-43.	- This road has been made practicable for wheeled carriages.
Parther Improvements to -	- By constructing pucks revet- ments over watercourses which intersect this line.	- Length 13 i miles; sanctioned 5th No- vember 1842.	:	2,259 4 3	2,204 8 10	- Completed season 1843-44.	
BOADS AND BRIDGES,	NORTH-WESTERN PROVINCE	s:	* 85				
Newabyunge: Construction of an Iron Suspension Bridge over the Pangyle.	 In consideration of the great traffic on the line of road, and of the importance of the bridge to the good of the country. 	- Sanctioned season 1844-45.	On the road be- tween Bareilly and Perlibbeet.	25,943	27,471 11 21	- Completed season 1847-48.	
CIVIL BUILDINGS, SOU	TH-EASTERN PROVINCES-J	DICIAL:				1 .	
Noacolly: Construction of a wall around the Gool Hospital, and one separating the female wards.		Sanctioned 15th January 1833.	- Noncolly	1,021 7 11			The works were executed a con- siderable time back, but there has been delay in the submission of the bill.
Noukalles Gaol: Construction of two additional wards.	- Por the Hazut and Dewanny prisoners; to effect a better clas- sification of the prisoners.	Sanctioned 4th November 1846.	Noakalice	1,740 - 9	1,964	- Completed season 1847-48.	
. CIVIL BUILDINGS, LOW	VER PROVINCES-JUDICIAL:	999 S		* (A)		* ** *	() () () () () () () () () ()
Nonegong: Temporary Buildings, Roads, &c.	- The Civil Station of Bunga- garah has been removed to Nowgong.			2,948 6 6	_		
Construction of additional Buildings.	- As a treasury and record- rooms.	Sanctioned 22d June 1841.		G,417	4,950 8 6	- Constructed season 1846-47.	The buildings are to be of puccal materials, with a terraced roof. There has been an excess of Rs. 1,466. 2. 6, over the sanctioned amount; and as the executive officer has been able to ac- count satisfactorily for this to the extent of Rs. 752. 10. 1. only, he has
e e e			* .		960 S	•	been held responsible for the balance.

PAPERS
RELATING
TO PUBLIC
WORKS (
INDIA).

State of the Constitution	Name of the second	1	ŀ	2000 2 000	1	0051		1					
Construction of an additional, tinol Ward and other Works.		Sanctioned 20th March 1841.	•	•	15	905 1	0 7	1		•	- Completed 1841-42.	Reason	
				-	1	anaoroman		1			V 0	v i	(#) (#) (#)
Construction of 20 Drain Bridges.	For drainage purposes *	Sauctioned 12th September 1849.	• • •		12	1,722 1	3 10		1,729 1	8 10	_		
Construction of a Cutcherry	To replace an old outcherry.	Sanctioned 23d				7,033	5 11 .	1	4,364	9 5	- Completed	BERROTE .	The amount includes the cost of a
	bailt originally of inferior ma-	October 1844.		•	1	200			C-0 - 00100000000000000000000000000000000		1648-49.		additional wing, not provided for
	terials, and now in a decayed	104 H	ł	20	1	0.5		4		en in	, 52 0	erio i	the estimate, but commenced on, compliance with a requisition by the
	State.		ł	F 2			383				•		Commissioner in Assum.
			l -	*	8				2.752 °			X (20	
Construction of a new Circuit Bungalow.	In lieu of the present circuit bungalow, which is in an unsafe	- Sanctioned Decem- ber 1845.	Nowgong	• •	-				2,102		· -		
Zungan.	state.		200	8	1	. 5			- 27		8 8	2 (
	,	- Sanctioned 28th		000 920	1	9,302	1 10 1		0,302	1 101	7 4		The same of the sa
the Gaol Buildings.	In accordance with the views	October 1846.	, ·		5.	U,00		1	5,000				Rs. 3,189. 10. 2., for the construction
			. 6				8 7 8		species of	-	1		of a new gaol in 1848, to consist of
	. 4		f	10	-			1			* × V.	4	criminal ward 100 × 86 a stril war
		I to the first		8	1	7 .	- K - 9	f	40	1 3 1		2	79 × 80, hospital 72 × 80, guar room and mainkana 70 × 20 feet, wi
1 .					1	8							six ranges of cooking sheds : the buil
	W.	ł.		12]			1					ings to be thatched over, supported a
				3			3	1	ř.				The new buildings are to be construct
n Sik		*		8	4								within the walls erected, agreeably
10					B .			-	-				the estimate sauctioned in 1847.
fatters: New Roofing the			***		1	1,732			٤		- Completed	*agron	
south end of the Judge and		Sanctioned 20th May 1846.	Nattore -		1	1,1.02	u - #			. 6 .8	1847-48.	-	
Magistrate's Cutcherry.		1 , 10101	. A		1 1			1		*			3. 3.37
1		1						1	27	2.5	1 1 E	•	*
CIVIL BUILDINGS, CEN	TRAL PROVINCES-JUDICIA	L:		10	1		100 mg	94		B 9			* ** se
Jursingpore : Construction of		Sanctioned 1st	2.0	-	F 8	4,094 1	Λ . κ		4,739	9 -	- Completed	****	- The necessity for these works w
a Malkana, and additions to		April 1844.			1.	-,004			*,	. T	1846-47.	PURBUL	brought to notice by the Commission
the Cutcherry st.	8			×	1 .	e 18			σ,		1 .	×	of the Saugor Division.
levabyunge: Addition of a	Great inconvenience was	- Banctioned 14th		0		7,407	9 Q	1	7,164		- Completed	SPREATS	
Record-room to the Collec-	experienced from the distance	January 1840.	1	- A	7	.,	50 F51			_	1847-48.		
tor's Cutcherry.	between the cutcherries of the		±0	•	t	323		1.			1	35.3	
-4	Magistrate and Collector; the new record-room was to be con-		3.60		200			9	200	50	1.		(20) X (4)
	nected by a covered passage.		-		I.						**	3 .	
eemuck : Construction of a	The outlay is chargeable to	Banctioned 10th	Noomuck -	12 12	ľ	14,109 1	0.10	1. 4	17,800	9 8	- Completed	BOOMON	
Gnol pt.	the revenues of the district of	October 1840.	Mannage .	•		19,100 1	0 10	100			1848-49.	SCHOOT	
	Jawud Neemuck, transferred by		F 10 30		1	_ 4		S 1950	e 2			12	
	Scindle to the British Govern-		S	31	I		3 5 52	3		*		45	
				94	1.	en v		1 .		88			
CIVIL BUILDINGS; CEN	TRAL PROVINCES-REVENU	E:		6			i i		90	79		es di	
	To superseds the old cut-	Sanctioned in 1843 -	014			5.687	4 11		5.674	a	- Completed		le e <u>e_i</u> ee"
manal . Construction of a con-	cherry at Sorb, which will be	Principles 10 1949 .	Cawnpore I			0,007		700	4,014	- ·	1844.45.	BORNOR	
Tehnidarry Cut herry at.		i de contractor	Boosulampo	re.	1	T		1	100 t 40		•	•	
Veroal: Construction of a new Tehniklarry Cut herry at.	sold.										JET TOTAL HE STATE		1 . (cont inu
				1. 1.	4	100	311		a, 11		Section 1.		r
		l		. i. I.	ka, a	1 · · · · · · · · · · · · · · · · · · ·		ar yel de	a, 1,	i i gal	A. S. e. J.		

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction	Length, and Date of Commencement.	Place of Ter or o Intended Te	of	Amou of Expense In		_['	Estimated A for Complet		Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, SOI imihalig: Construction of a Record-runn over the Collec- tor's Cutcherry.	was brought to notice by Mr. Commissioner Ricketts, who stated that all useless papers among the Bullooah records had	EVENUE: Sanctioned 20th December 1847.	Nonkhally			a. p. 7 9 1	-	Rs.	a. p.	Completed season 1850-51.	
6 50 e ¹⁰	been destroyed, and that the re- maining papers had been arranged with all practicable accomy of space, but that there was no accommodation for them.	ei e e	* :-		× er			20	#S 26		•
CIVIL BUILDINGS, SOU onkhally: Enlargement of the Burial-ground.	TH-EASTERN PROVINCES-G	ENERAL: Sanctioned 26th Beptomber 1842.	Noakhally	•	30	7 14 9		307	14 8	Completed season 1843-44.	- The space enclosed measures 92 × 63.
The second secon	- In lies of the existing bunga- low, which is in a ruisous state and not worthy of repairing.	Sanctioned 16th September 1846.		• •	3,02	۱		3,021	-	Season 1840-47.	_
CANALS, SOUTH-EASTE	RN PROVINCES:	- · [∞] · ·		0 . •		. 8	-]-	-	a•a (• •		The abandonment of this caual was determined on, on the 12th February 1845, owing to its encroach ment on the road along its aide, and the Khuttee Canal, which is also a communication between the Dausoorde and Hooghly Rivers, was repaired and improved.
Iron Suspension Bridge -		- Estimates submitted 19th May 1840.		• •	12,65	8 8 8		12,040	3 6	- Constructed season 1843-44.	Under instruction from the Cour of Directors.
Construction of Roads to the East and West of the Bridge.		Sanctioned 25th July 1844.		-	1,50	5 7	-		2 × 1 × 1	Completed season 1845-46.	_
ROADS AND BRIDGES,	SOUTH-EASTERN PROVINCE	3:				ž?		* 5		ä	
Construction of a Bridge on, at Sirrerampore.	-,,	- Leogth 51 miles : sanctioned in March 1841.	From t River to the River.		1,61	12 8		2,000		Completed season 1841-42.	- Through this road the communication is at present maintained with Bombay wid the Raspore Road.
Renewal of a portion of the -	- This road, owing to the mistake, in its first formation, of placing the canni to the south or lowest side, instead of the north of the road, is liable to constant injuries during the rains. Owing to this defect, it was found necessary to abandon about 15 miles, and a new and more retired line was adopted.	Length 131 miles; sanctioned in March 1841.	Ditto -	•	6,50	. 8 3		6,343	19 8	Completed season 1848-43.	This new line is at a safe distance from the Canal.

		" PEN	ar a] - ,	1	1 8	\$6	1	1 .		(continued)
120	* 2 *		20000		No. of the second secon	1	* · · · · · · · · · · · · · · · · · · ·	190		20.5 E	
			from Kuss lee to Suba	0₩ -		1				×	· E
	Alexander and the same	· Sacra	3d Porti	ion.	8 8		10		ł	2.5	
		•	to Kussow			1	, ,			68	a v.
25			22d March 2d Port 1845. from Kha			1		25 III	'		*
	manual of a twent.		sanctioned			1		3 100	1		5 5
	scroles to Subathoo; Con-		21 miles 6 from Pin furlougs; to Khalks		500 S		0. 201	1845-46.	1 .	(96)	
1	Pinjore via Khalka and Kus-		Length - 1st Port	ion,	60,787 15 6	1	87,307 6 11	Completed season	1	-	1000
				M. fgs. ft.		ļ	9 ,				
	٧.			Length, Width	1.	1		9	V. V.	•	2
	Peelibheet.			1 85 spine	8 8	100	20		l .		5%
	the road between Barelly and					1	• 16 W N 18 18 18	1	I	13	
	of an Iron Suspension Bridge over the, at Newsbrunge, on	900.05 EN 500	February 1842.		in season 1842-49.	1		1.	1	ž.	16
-	Pangyle Nuddee: Construction		Sanctioned 1st	Newabgunge -	This work was suspended		22,000	_	1 .		© ¥
260	ROADS AND BRIDGES.	NORTH-WESTERN PROVINCE	8:				3 A	10 10	1 100	- Tab.	(F
	Roads between.	flood.					. 4	F R V S	1.	¥7	
	struction of Drains on the	nullalis, liable to temporary		1 12					{	15773	•
		- This road is crossed by many	Length of road,	Dumow	1,484 1 81	1.		Completed 1840-41.			
L	ROADS AND BRIDGES,	CENTRAL PROVINCES.		5 0		1	100				=
Z'		within the station lands.			1	1		1			8
		height, for the purpose of letting off the rain-water, which collects		22	1	1				18 19 31	•
	PART PARTIES SANGETON	raised from three to four feet in				Ι.	· · · · · · · · · · · · · · · · · · ·		1		¥ .
	Pucca Arched Drains across the Station Roads.	prevent in future the cutting of the station roads, which are	June 1843.		A 100 Te			1848-44.			14 50 T 18 50 T
×	Purnsah : Construction of four	These drains are required to	Sanctioned 5th	Purneah	- 983 11 -		• • • • · ·	- Constructed season			. 29.7
	struction of the.							1845-46.		· .	· ·
é 9	Patna City Road: Recon-		Length 7 miles -		- 15,765 11 8	•		Completed season	1	- "	
	Road.		1838–39.		a a , d	ł		1841-42.		1000	8 ×
	Patna to Gyah: Raising of the		Sanctioned season	Gyak	- 51,292 18 7	(2)	70,229 10 7	Completed season	20	-	
	ROADS AND BRIDGES,	LOWER PROVINCES:				Ī	76			and the second as	•
		rains of 1844.		5 ° 0		4	. as &	888 8	1		0
	the.	ment, which failed during the						1846-47.	1 × * *	8	
		NORTH-WESTERN PROVINCE - The renewal of the east abut-	Sanctioned 22d		- 644	-		Completed season		a 5	
		NAPORI WHOTERN PROPINCE	e. * •			100	12 00 Days		1		· · · · · · · · · · · · · · · · · · ·
*	tra.	the necessity of the work.		bur, or Bhindaree.		1	¥	MATERIAL STATES	1	25%	. •
	Oorai Gaol: Construction of -	- A statement was received from the local officers, showing	Sanctioned 9th May 1846.	- In the Gwalior Ced District of Kuchmar		1	* *	Completed sesson 1847-48.		-	Was _ as _ gr
		TRAL PROVINCES—JUDICIA				1	5 . 56				
	and the second				1	100		* * * * * * * * * * * * * * * * * * *	ł		121
987.	2		tioned 28th Novem- ber 1842.			1	8		1		
9	Bridge at Jorehuttee on the -	Required for purpose of general drainage.	Of one arch of six feet span; asne-	Ditto	- 280 10 0	1	390 10 6	Season 1842-48.			121
				Ditto	- 1 890 10 6			C 9040 40			

. No. 6 STATEMENT compiled from the Reports of the Mil	tary Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.
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NAME OF WORK.	Object of Construction.	Place of Termination, or of Intended Termination.	Length, and Date of Commencement.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, SOU	TH-EASTERN PROVINCES-JU	DICIAL:		. Rs. a. p.	Rs. a. p.		
Penitentiary: Plan for a Cen- tral one.	To contain 2,004 prisoners -				4,41,564 8 5	• ∺	
Poorer: Construction of a Circuit House.	- For the use of the Commis- sioner. The temporary building was destroyed by a gale, on the 30th April 1840.	- Sanctioned 29th September 1840.	Poores	7,596 8 6 1	5,751 8 5	Completed season 1842-43.	
Pooree Gaol : Additional Hes- pital.	For sick and insane prisoners	- The gaol was con- structed in the year 1638; the addition of a hospital sanctioned in season 1840-41.		1,392 15 7	1,190 11 3	- Completed season 1841-42.	
ooree:		¥	i	7		120 8 9	
Reconstruction of the Dispen- sary.	In lies of a ballding which was blown down by a gale on the 30th April 1840.	Sanctioned 21st February 1843.	Poorce	- 6,25 8 15 B	5,437 9 1	Completed season 1843-47.	
Buildings for the use of the Treasury Guard.		Sanctioned 27th March 1843.	Ditto	9,030 8 4	2,030 8 4	Season 1843-44.	•
CIVIL BUILDINGS, LOW	FER PROVINCES—JUDICIAL:	. 11			n 8		
Patna Penitentiary: Construc- tion of four Wards.	- To supersede the present places of confluencent situated in differ- ent parts of the station and its vicinity, each at an inconvenient distance from the magistrate's office.	Sanctioned 27th October 1845.	Patna	36,251 15 3 }	23,677 ~ -	Completed season 1840-47.	The plan approved is for the accommodation of 240 prisoners.
urellia Temporary Gaol, Chota Esgpore.		Sanctioned 11th October 1836.			2,924 7 8	M.,	
Purnouh Ganl: Estimate for flueing the floors.	Owing to the dampness in the existing floors.	Sanctioned 17th November 1840.		1,151 13 1	1,220 10 - 1	Completed season 1841-42.	
Purneah Gaol Hospital ; Addi-	Additional wards for medicine rooms, &c.	Sanctioned 12th October 1841.	Purncah	4,825 7 2	5,098 4 5 }	Completed season 1845-46.	
Pubna:	* 9	e gan a	2 × 2 × 1 ×	· · ·		. 2	
Construction of a Circuit		Sanctioned 20th November 1844.	Pubush	4,614	4,999 5	Completed season 1845-46.	
Construction of a Guard- room for the Burkendauzes attached to the Judge's		- Sanctioned 28th December 1840.	Ditto	334 13 5 4		Constructed season 1847-48.	
Catcherry	2			F			

17	ar las El as		975 W	92		8	
struction of Guard-roo	Con- s and over the security of the guard	- Sanctioned 10th February 1851.	Purneah		1,270		It was considered desirable to allow the convicts a free resort to the inner compound, as at Oyah and Furreed-
Sentry-boxes.			997 gr	9	22° - *	### ⁽²⁾	pore; but in order to carry out this plan, it was necessary that the guards
* * * * * * * * * * * * * * * * * * *				200 0		a con C o sa	should be placed in greater security.
CIVIL BUILDING	, SOUTH-EASTERN PROVINCES-	GENERAL:	120	*,		*	
Pooree:	¶ a a g φ				a n	-	
Construction of a Wall the Burial-ground.	ound bauor	Sanctioned 28th August 1843.	Pooree	945 2 7	1,108 4 -	Completed season 1843-44.	- The necessity for this work was brought to notice by the magistrate of the Southern District of Cuttack.
Reconstruction of the Treasury and Coll Cutcherry.		Sanctioned 17th April 1843.	Pooree	2,720 5 8 }		Completed season 1844-45.	<u> </u>
Puchim Banney Khall struction of an Iron S slon Bridge over the.		Sanctioned 20th January 1847.	On the road from Calentia to Nullocah and Calpee.	15,800 D 4	15,715 4 5	Completed season 1849-50.	- The span of the suspended roadway is 100 feet between the centras of the standards, with 16 feet width of road-
							way, or 14 feet clear traffic way. The soil of the khall is good; the piers will therefore be built merely of gratings of saul wood, without plies below them.
x 2 5	a kada a≇t sessa''						The word without place being their
CIVIL BUILDING	, lower provinces—general					-	
Purneah: Construction Cutcherry.	of a For the sub-deputy oplum	July 1838.		± * • * * * * *	2,048 19 5 4	Completed season 1840-41.	- The foundation and plinth of the building are of pucks masonry, the su- perstructure of cutchs pucks, and the
							roof of tiles.
Patna:						227	
Donation towards the struction of a new C		Sanctioned 15th December 1840.		Government donation of	Rs. 16,072		For this edifice the Protestant residents at Patna have subscribed 5,500 rupees. It is the intention of the Lord Bishop to make up the deficiency from
r y 16 *						M No. D. E.	the Church Bullding Fund.
Construction of tiled- dah to the Cutcherry sub-deputy opinin as	f the which no longer affords the re		Patna	1,115 17 94	1,338 10 11	- Completed scason 1844–45.	-
Punkabarree: Construct a new Staging Bungale Out-offices.		June 1845.	Punkabarres		8,221 18 1	•	
Patna : New Bulldings		- Sanctioned 8th	Putpa		- 5,381 14 9 -		This work was undertaken on the
Insane Hospital.	dation.	July 1850.	\$			1 <u>9</u> 9	requisition of the magistrate of Putna.
CIVIL BUILDING	. SOUTH-WESTERN PROVINCES-	REVENUE			an areas areas to	A PE	
Pooree Pilgrim Hospita built.		Sanctioned 1838-99 -	Pooree	1,386 4 9			(continued)

No. 6 STATE MENT compiled from the	Reports of the Military	Board at Bengal, from	Season 1839-40, to 1850-51	inclusive—continued.
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NAME OF WORK.	Object of Construction.	Length, and Data of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion,	Probable Time of Completion.	REMARKS.
Creit Buildinds, Souts	-Western Provinces-Rever	B—continued.	,	Rt. a. p.	Rs. a. p.	• •	
Patna: Provision of a Circuit Bangalow.	- The Special Commissioners' cutcherry has been converted for the reception of the office of the	- Sanctioned 25th May 1845.	Patna	861 14 8 }	* . * . [* . *	Completed season 1846-47.	
	Commissioner of Revenue, in order that that officer's cutcherry may be given over for a circuit bungalow.	e a a					
CIVIL BEILDINGS, SOR	TII-EAST PROVINCES—REVE	l NUE:	X X			as we s	
Poores: Construction of a Treasury Guard-house for the Collector's Cutcherry.		Sanctioned season 1839-40.		643 7 51	1,060 8 4	Completed senson 1841-42.	- The difference is owing to its having been found practicable to dispense with eight iron gratings, for which provision had been made in the estimate.
			· ·	2 00 6		is a	
	EASTERN PROVINCES:						
CANALS, LOWER PROV	considerable extent in 1848.		_	# #			note per a
	For irrigation, and to super-	Y 11 *00 11	*	8 8 8	55.45.455		- The boats proceeding through the
or.	seds the changeableness and un- certainty of the channels of the Nuddea Rivers, any permanent improvement of the navigation of which cannot be reckoned on.	Length 130 miles; breadth 50 feet, and carrying at the lowest depth five feet water.		- The scheme was re- jected by the home autho- rities in sesson 1844-45, but a report was called for on another line, vis., from a point near Chinsorah on	38,47,437		canal would reach Rajmehal on the great river by traversing 202 miles instead of 528 miles, as by the Soonder- bund route, saving 326 miles in distance, and from 15 to 20 days in time; an
o e inc e di	inches sure sure sure sure sure sure sure su	8	illi det	the Hooghly to one near Monghyr on the Ganges.			impetus would be given by it to the working of the iron mines and coal fields. The income from it is calculated at 5.80,000 rupees per annum, or 141
* * * * * * * * * * * * * * * * * * *	* *- ***		* ¥ 12				per cent. on the gross expenditure, essumed at 40 lacs, to be raised by a toll of two rupees per 100 manads on
CANALS, NORTH-WEST		10-5				r s	all boats.
Rohilcund Canal	Irrigation	estimates submitted in 1840.	From a point on the Ramgunga to Shahpore, on the banks of the Dhela,		4,50,000		- It is probable that 291 square miles will be susceptible of irrigation when the whole of the waters of the Ram- gunga are turned into it; the revenue to be derived from it is assumed at
	eg e e		near Moradahad, with a series of branches for irrigation.	E a			to be derived from it is assumed at Rr. 87, 531. 4. per annum. The Revenue Board suggested to Government to postpone this scheme until it can be ascertained with greater certainty what
		d m	. 8				advantages it holds out, and whether the undertaking may not interfere with the completion of works of higher
Rajpore Watercourse; Repairs to the.	Owing to the unusual height of the floods of the year, some injury had been sustained.	Sanctioned season 1846–47.			1,88 7 7		importance.

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The Requires Road : From Calcutta To Boulary. The residering the overland communication with Regards of the mails To Boulary. The residering the overland communication with Regards of the mails To Soly,19,000 — To Soly,19,	BOADS AND BRIDGES	SOUTH-EASTERN PROVINCE	S:		22	•		. T		85	. v s 35		g twee
to trevellen, and rapid for the correyance of the mulis. Content Conten	O Raspore Road : From Calcutta	For rendering the overland	Length from Bom-	Bombay		· · .							
Construction of farr large Stringer on the Tild Ditt sian of this Rondy, 50 feet Stringer on the Tild	to Bombay.										,	communication bet	tween Culcutta and
Section of the line of frauds, or the nature of the real which already he constructed. The Resident at Negation reported list for the state of the real which already he constructed as a chancer state of the state			gested by the Bombay	. 100		7. "	100	1					
The Robiest at Nagorer reported the willingness of the Rajah is contribute as acknowledgment. Two plans were shallfully first for the construction of a standard product of the standard products of a road to be at all times practicable for wheel carriages, for travellers, and for two at the standard products of a road to be at all times practicable for because or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes or fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes and fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes and fold-roannes. Of the 1,000 miles, 203 had been small practicable for borsenes and throughout the countribute small practicable for the 2,000 miles, 203 had been small practicable for the 2,000 miles, 203 had been small practicable for the 2,000 miles, 203 had been small practicable for the 2,000 miles					1		1713					of the road which al	ould be constructed.
acknowledgments. Two plans were submitted; first for the construction of a cond to be at all times practicable for both of the control to the condition of the						. 2							
transit of fride between Bombsy and Calcatins; associal, to facilitate the conveyance of a main between the capitals, by Middlergidg bill has of communication made practicable for because or dark runners, by means of a grant of 30,000 princes, which had been already unthorieted, and the South were desirous that no portion of that was made, and a satimate of the exposes administed to the a house authorised to the action maintained as the plane invaried a very large cuitary, be Count were desirous that no portion of that was made, and a satimate of the exposes administrative to the cap has the main vasa and throughout the year. The Court subsequently (under data the 30 January 18-05) followed to the completed for some year, the Government was an administration of an exposure word, and directed that their carrition be confined to the discovery of the mail impressively required. Of 3 arches, 45 feet span each. Of 45					. 1	ec.			acknowle	algment	te. Two plans were su	bmitted; first for th	e construction of a
anse of mults between the capitals, by rendering the line of communication practicable for between or foot-numers, of the 3,900 miles, 229 had been represented to the state of the state o				the array of		920	* 14						
inade practicable for horsessum or dawk runners, by sman of a grant of \$0,000 rapees, which had been at antewny authorited, and \$05 miles remainded. At the which remainded and \$05 miles remainded an		* 8 4.				's se'	0.40		ance of	mails 1	between the capitals, b	y rendering the line	of communication
rupoes, which had been already antherized, and fills miles remained. As the plans invalved a very large emist, the Count were desirons that no portions of that which remained in read on the country and the plans invalved a very large emist, the Country end that the plans invalved a very large emist, the Country end of the suppress absoluted to those him, and not Bombay could not be completed for some year, the Government were not down another than they could not associate the temperature of the suppress and solar exposure road, and distinguory, which would be presented for the year and solar exposure road, and distinguory which would be presented on the country to the best roats, on which such improvements only about be made as the trust of the surpress road and distinguory which would be presented to the discovery of the best roats, on which such improvements only about be made as the trust of the test roats, on which such improvements only about be made as the trust of the best roats, on which such improvements only about be made as the trust of the best roats, on which such improvements only about the made as the trust of the best roats, on which such improvements only about the construction of the best roats, on which such improvements only about the made as the trust of the best roats, on which such improvements only about the made as the trust of the best roats on the best roats of the best roats on the best roats of the best roats on the best roats of the best			5	na y s			1	1					
visich remained should be commenced until a more satisfactory survey of the line was made, and a reguess submitted to then a late as the main read on to Bonbay could not be completed for some years, its Government were down runners from Almedingage and the Completed Season are specially could not be completed for some years, its Government was easiented to the appearance of the mails imperatively could not sensition the construction of surveys runners and its Salamary 18-05. Construction of four large Bridges on the Third Division of the mails imperatively required. Of 3 arches, 20 feet span each. Of 5 arches, 20 feet span each. Of 6 arches, 20 feet span each. Of 8 arches, 20 feet span each. Of 9 arches, 20 feet span each.						60 SEC. 8	0201		rupees,	which h	and been already autho	rised, and 908 miles	ramained. As the
was made, and an estimate of the expense submitted to those but as the name and not bombey could not be completed for some parts, the Government were authorised to take immediate missaces for forming a road for homeman, and throughout the year. The Count interpretation of the mide imperatively required. Of 3 arches, 20 feet again and. Of 3 arches,					· .								
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Construction of four large Bridges on the Third Division of this Read. Cutting and rooting out Jungls between floars and Soharspalles. Cutting and rooting out Jungls between floars and Soharspalles. Cutting and rooting out Jungls between floars and Soharspalles. Ruitenpoored Nullah, by the Grand Trans Rood: Construction of anasonry Bidge over the: Roads AND BRIDGES, LOWER PROVINCES: Roads AND BRIDGES, LOWER PROVINCES: Roads AND BRIDGES, NORTH-WESTERN PROVINCES: Roads AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhaodles: Wideolog of the Road. At 5akclic River - 10,074 7 4 5,857 4 6 72. a. p. 48,023 2 8 7.042 10 8 7,042							0.089						
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Construction of four large Bridges on the Third Division of third Division of this Road. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. Cutting and rooting out Jungle between Barra and Schar- spalles. - Lungth 202 feet; sun of the Jungle Schar- spalles. - Lungth 202 feet; sun of the Jungle Schar- spalles. - Lungth 202 feet; sun of the Jungle Schar- spalles. - Lungth 202 feet; sun of the Jungle Schar- spalles. - Lungth 202 feet; sun of the Jungle Schar- spalles. - Lungth 202 feet; sun of the Jungle Schar- spalles. - Lungth 203 miles farrions; sanctioned 20 October 1843. Mosafferpore - Completed season 1898-40.	170.12						n n					ments only should be	e made as the transi
Construction of four large bridges on the Third Division of this Road. Cutting and rooting out Jungle between Sacra and Scharspallee. This bridge is stated to be a hand some and out out out Jungle between Sacra and Scharspallee. Cutting and rooting ou					1	9.0					1	7.	
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Cutting and rooting out Jungle between Barra and Scharspalles - Length 434 miles; sanotioned 3d April 1850. Ruttenpooral Nullah, be the Grand Trunk Road: Construction of a masonry Bridge over the: ROADS AND BRIDGES, LOWER PROVINCES: ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Roapore Dhoodles: Widening of the Road. Sanotioned 3d April 1850. 11,325 11 3 11,325 11 3 Completed season 1846-47. 11,325 11 3 Completed season 1846-47. House over two very awkward miles in the heights east and west. - Length 23 miles 7 furloage; sanctioned 22d November 1856. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: - Length 14 miles; sanctioned 12th January 1845-44. Dhoodles: Videning of the Road.	Bridges on the Third Divi-		Of 2 arches, 451 feet	At Cheekala -		- 1.		1	7,942 10	8 .]}-		2 380
Cutting and rooting out Jungle between Sacra and Sohar apalica. Ruffenpooral Nullah, on the Grand Trunk Road: Construction of a masoury Bridge over the: RoADS AND BRIDGES, LOWER PROVINCES: Reapher Chat to Mosufferpore in Tirhoot. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhoodles: Wideolng of the Road. Clearing the road - Length 43 miles: anactioned 2d October 1843. Soharupallee - 7,159	• 100 00 100 1000				ŀ.	· · · · · ·		1 .					× (**)
between Sacra and Sohar- spallea. Rustenpooral Nullah, bu the Grand Trunk Road: Con- struction of a masonry Bridge over the: Roads And Bridges, Lower Provinces: Resphar Chat to Moxufferpore in Tirhoot. Roads And Bridges, North-Western Provinces: Roads And Bridges, North-Western Provinces: Rajpore Dhoodles: Widening of the Road. North Roads And Shar- sanctioned 3d April 1850. - Length 922 feet; sanctioned 2d October 1845. - Length 22 feet; sanctioned 2d October 1845. - Length 23 miles 7 furlongs; sanctioned 22d November 1856. Roads And Bridges, North-Western Provinces: Rajpore Dhoodles: Widening of the Road. - Completed season 1845-44.		,						1 .	20 40	6.30			
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Grand Trank Road: Construction of a masonry Bridge over the: BOADS AND BRIDGES, LOWER PROVINCES: Resolver Chat to Moxufferpore in Tirhoot. BOADS AND BRIDGES, NORTH-WESTERN PROVINCES: Resolver Dhoodles: Widening of the Road. BOADS AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhoodles: Widening of the Road. BOADS AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhoodles: Widening of the Road. BOADS AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhoodles: Widening of the Road. BOADS AND BRIDGES, NORTH-WESTERN PROVINCES: BOADS AND BRIDGES AND B			1000.				10		**		1.1.		
struction of a mesoary Bridge over the initial structure of the road over two very awkward null labs, and bringing it up to a horisontal labs. ROADS AND BRIDGES, LOWER PROVINCES: Remotar Chat to Mozufferpore of the Road. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Roads and Bridges, North-Western Provinces: Roads and Bridges, North-Western Provinces: Sectioned 12th January of the Road.					1 .	11,325 11	. 8		11,325 11	8			
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HOADS AND BRIDGES, LOWER PROVINCES: Resultar Chat to Mozufferpore - Length 23 miles 7 furlongs; sanctioned 22d November 1838. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhoodles: Widening - Length 14 miles; Sunctioned 12th January of the Road.	over the.	The second of th			1 -	· ·	16	II.		2	•		
Resolver Chat to Mozufferpore Completed season 1839-40. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhoodles: Widening Length 14 miles; suctioned 12th January of the Road.	· I asias ras also sas						21		n. 3	0.00			•
7 furloage; sanctioned 22d November 1836. ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Raipore Dhoodles: Widening Length 14 miles; Bunctioned 12th January 1845-11 1 Completed senson 1848-44.	a a managaran panahan kanan kana	LOWER PROVINCES:							1	- 85			
ROADS AND BRIDGES, NORTH-WESTERN PROVINCES: Rajpore Dhoodles: Widening Length 14 miles: Dhoodles - 1,485 11 1 Completed senson 1845-44.				Mozufferpore -	•	63,291 -		-					.
Rajpore Dhoodles: Widening Length 14 miles; Dhoodles - 1,485 11 1 Completed senson 1845-44.				8 8 9		- 1. (1.1) 10 • 1		1	į.	3.0		1	STOR SEE S
Rajpore Dhoodles: Widening Length 14 miles; Dhoodles - 1,485 11 1 Completed senson 1845-44.	BOADS AND BRIDGES	NORTH-WESTERN PROVINC	Pa.	18.			e						
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	Rainors Dhandles: Widening					TATELLE A		1404	1000 E			■ 59	

No. 6 .- Statement compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive - continued.

NAME OF WORK	Object of Construction.	Length, and Date of Commencement.	Place of Termination or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
Samrer: Construction of a New	TH-EASTERN PROVINCES—J - To replace the old good, which	Sanctioned 14th	Ramree	Ra a p. 7,056 8 5	Rs. 2. p. 6,739 10 6	Completed sesson 1844-45.	- The new goal will be surrounded b a pucka wall 18 feet bigh, and wi
Gaol.	was represented to be in a dan- gerous state of decay.	August 1643.				a 2	eonsist of one dewanny ward and thre foujdance wards, a hospital, guar- room, &c. The walls of these building will be composed of planks, and al- roof of thatch.
camere: New Circuit Ban-		Length 80 feet; breadth 64 feet; same- tioned 1st August 1839.	Ramree	5,964 18 9	6,071 6 8	Completed season 1841-42.	=
CIVIL BUILDINGS, LOW	er provinces—judiciat:		340		(4)		
ungpore Cael: Additions to -	To improve the salubrity of the gaol.	Sanctioned season 1841—42.		619 6 2	Q19 Ø 9	Completed season 1841-42.	Much sickness had existed at the gaol.
ungpore: Conversion of an old Judicial Cutcherry luto a Gaol Hospital.		Sanctioned 28th December 1842.	, , , ,	3,493 6 9	11,928 5 5	Season 1849-50 -	- The estimate provides for new re- ing part of the building, removing p tition walls, and dividing the hospi for the separate accommodation of m
				a a			and female patients; it also provide place for the native doctor, and me cines, and for a guard-house, co room, and well.
House, Sudder Ameens'	- To provide accommodation for the Judges' records, and the pro- perty of persons dying intestats at Rungpore.	Sanctioned 3d	Rungpore	7,728	6,701 % 8	Completed season 1845-46.	- Owing to the porous nature of tiles made at Dacca, and the cor quent leakiness of the roof, it has b found necessary to replace the ti- roof with a flat roof; the excess
ATTIC BUTTOURS NO.			ž	ž ,	V.		Rs. 1,403, 5, 3, has been disallowed Government.
	TH-WESTERN PROVINCES—			wife attraction value involve			
notuck: New Gaol -		Sanctioned 7th December 1839.		7,790 15 71	6,742 2 8	- Completed season 1839-40.	This gaol is capable of account dating 350 prisoners; the walls are cutcha pucka materials, and the row of thatch.
CIVIL BUILDINGS, NOR	TU-WESTERN PROVINCES-	BENERAL:	, a	ž **			
orkhee: Construction of Buildings.	For a civil engineering college -	Sanctioned December 1847.	Roorklies		19,000	-	
CIVIL BUILDINGS, SOU	TH-EASTERN PROVINCES-G	ENERAL:		8		. An	
	To convert it into a school- room.	Sanctioned 15th February 1843.	Russopuglah	- It was decided by Government, on the 5th July 1848, not to sanction the proposed outlay on this account.	8,851 6 1		- The Board solicited the orders Government to be allowed to call tendors for the execution of the wo by contract.

			* *	¥ 40 100	on a d	1	1	î -	7
i.	9	CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES.	HEVENUE:		*			
	987.	Rancea in the Bhuttee Terri- tory: Construction of a Teh- sildary Cutcherry.	• • • • • • • • • • • • • • • • • • •	- Banctioned 7th November 1840.		6,014 14 -	5,668 15 1	- Completed sesson 1842-43.	-
		EMBANKMENTS, LOWI	ER PROVINCES:	e x		370		2	x 2 *
		Sarun and Tirhoot Bunds: Construction of a new Bund, about 1,000 yards from the old Bunds.	- For the protection of the country between the villages of Nowkurrah and Pursades from eneroachments of the Canduck River.	sanctioned October		4,877 4 8	5,031' 4 9	Completed season 1843-43.	- The length of these bunds is 140 miles, and the estimate for their annual repair, Rz. 28,205. 11. 3.; the executive officer has been directed to adopt the standard section, making the bunds three feet above the highest known rise of the river, three feet wide at the top, and giving a slope of three to one towards the river, and two to one in the rear.
20	*	Construction of some new inner Bends at Saren, and strengthening of part of the main Bund.	Owing to encrosciments of the River Gunduck.	- Length four miles; sanctioned 4th April 1845.		5,619 7	9,181 4 9\$	- • Completed conson 1848–49.	
¥ 19	٥	Construction of new Bunds -	- In parts where the main bund is encroached on by the River Gunduck.	Sanctioned 39th April 1846.		2,781 9 9	3,351	Completed season 1848–49,	
	ှ	CANALS, NORTH-WEST	ERN PROVINCES:			×		arting.	
	*	Scharunpore: Construction of a Corn-mill House.	- To replace the former building, act of milts which were destroyed by the failure of the foundations in December 1844.		श _ल (स्थ ३०) अ	j w e a u ei	a 4		general section of the section of th
	50	ROADS AND BRIDGES,	SOUTH-EASTERN PROVINCE	! Ցւ	*			# # # # # # # # # # # # # # # # # # #	
•		Bandoray: Reconstruction of the Theo's Bridge at	- To keep open the communica- tion between his outcherry and the most populous part of the Sandoway Vailey below the vil- lage.	Sanctioned 30th October 1844.	Sandowsy	643 B =	1,111 11 -	Completed season 1845-40.	- A saving of Rs. 408.2. 6. was effected by a reduction in the rate for carpen- ters' work.
	31 3.	Sourah Bridge: Repairs to -	- This bridge crosses the Sowral. River.	- Length of the bridge 300 feet, width 20 feet; repairs sanc- tioned scasons 1845— 46 and 1848—49.	Crosses the public read between the sta- tion and town of Pur- neah.	1,694 8 -		Completed season 1845–40.	- This bridge was built in the year. 1822, and the woodwork had become decayed, and required to be replaced.
er I	4	Shaikpore: Construction of two Bridges on the Grand Trunk Hoad.		Sametloned 1st July 1640.	- Between Burdwan and Gyretty.		18,458 15 8		- One bridge of three openings of 36 \(\frac{1}{2} \) feet each, and arches to be segments of a circle, rising 14 feet; the other of three openings 20 feet each, with similar arches, five feet in height.
	2 1	Sutgrag to Muggra, on the Grand Trunk Road; Widen- ing of the Road.	- The metalled portion has been widened and the road straight-	Length two miles and 100 yards; sanc- tioned 24th March 1847,	Muggra	- 7,118 10 -	7,490 11 1	Completed season 1847-48.	- Both khod and gooting have been used in the repuirs and extension of the tuctai.
		d d	e" .				l sanj	ec 16	(continued)

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengul, from Season 1839-40, to 1850-51 inclusive -continued.

· NAME OF WORK.	Object of Construction.	Longth, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
ROADS AND BRIDGES, Scabsauger to Jypera in Upper	LOWER PROVINCES:	Length 56 } miles -	-	Rs. a. p.	Rs. a. p.		
Seebsaugor to Borahaut, in Upper Amam; Bapair of an Old Road.		Length 50 miles.	Borahaut		5, 765		- This work has been executed by the political officers of Government.
Seebauger to Debroghur -		Length 17 & miles.	_		3	8 .	
Serbanger to Chokey Haut, on the Booree Dehing River.		Sanctioned 21st June 1641.	Chokey Haut	-		and the property of the proper	A second
Saikruk to Runyagorah in As- sam: Opening of part of the Boad.	• • • • • •	Sanctioned 14th December 1844.	Runyagorah	2,145 13 -	2,146 13 -	Season 1844-45.	_
ROADS AND BRIDGES.	CENTRAL PROVINCES:			*	•		
Sauger to Dumah: Change in the line of Road.	- To obtain a line more acces- sible to the traffic of the country, to which the imperfectly fluished ghants on the old line presented	Sanctioned 22d October 1840.		1,031 4 2 j	1,199 9 10	Completed season 1842-43.	The ascents over the ghauts on the old line were as steep as 1 in 10 or 1 in 12.
	obstacles.					and the same and the same and	
Sauger: Erection of an Iron Suspension Bridge over the Boose River.	a a		- 10 miles east from Sauger.	88,177 6 -		Constructed in 1832	by Major Presgrave. The span is 200 feet; breadth of platform 12 feet; beight of pillars and pleas 68 feet. Repairs were effected in season 1846-47, at a cost of Rs. 3,448. 5. 9.
Bridge over the Surjoe River at Lot Ghaut, in the District of Azimgbur.	For the promotion of the traffic between the districts of Goruckpore and Azimghur.	Sanctioned 24th January 1848.	Lot Ghaut	8,752 5 11	* 6	Completed season 1841-42.	This bridge is of mesonry and of three arches; the centre arch 34 feet span, and the side ones 28 feet each.
		290	2.7	8	21	3	
ROADS AND BRIDGES,	NORTH-WESTERN PROVINCE	S: .	(3)	a	12 1 9 0		
Schagur River: Bridge over the	To keep open the communi- cation between Futtyghur and Etawah.	Sanctioned 25th July 1840.	Sehagur River -	2,513	2,513	Season 1840-41.	
Scharunpore: Bridge over the Dholla Khallat.	- In lieu of a bridge of two arches, which was destroyed by a high flood on the 27th September 1841.	- Sanctioned scason 1841-42.	Shranpore	2,753 4 9	2,753 4 9	Season 1841-42.	
Singapore Bridge		- Sanctioned season 1838-39.	- Over the Singapore River.	19,511 6 %		Completed season 1841-42.	This bridge was constructed under contract, and it is reported to be of a permanent and sustantial order.

98	Scharunpere: Repairs to the Dumolah Bridge.	Injured by the floods of 20th June 1842.	Sanctioned 17th November 1843.	٠,		•	S. 92	1,582	8 9		1,64	5 14 9		Completed season 1843-44.		. —		
57.	Sukkur and Shikarpore: Con- struction of a Road.	To be passable throughout the year for troops and wheel car-	Length 84 miles; width 40 feet; sanc-	Shikarp	ore -		-		*	•	52,00	8 2.8		-	•	9	8	
٠.		riages.	tioned 21at February 1845.		•	2.0			6								Tip es	e ee E x
4	Sombre River; Works on the	For the protection of the right bank of the river.	Sanctioned 5th		•			3,450	8 10		4,56	1 8 4		Completed season 1849-60.	river from	n its tortuc	us cour	iverting the se by direct-
			9 # # . #			: 4(1)	8 T 1				12	16 16		N.	excavated	l by Maj	or Buk	ut formerly er, and in uth to the
	•					•		c	3 0	٠		•		×	at its he	ead, forme	d of c	out a spur sy rivetted oaded with
	Eubathoo to Hurripore Road:					.r 1 41.					464		٠	a ^N s	clay.	WILL CLIDS	, 6180 1	named with
A 200	Construction of a Revetment Wall.	To prevent land slips near the Koujar Nuddle.	Sanctioned 28th December 1849.	At the 1	roules l	andare.	-	•	•	•	, 4,94	9 9 11		Season 1849-59.		-		*
ef (3)		mu promensi provinces v	Internal			~	,			9 0							\$6 555 100	
	Soory: Construction of a Cutch-	TH-EASTERN PROVINCES—JU	Sanctioned 20th		8 8	•		959	- 11		1,17	677		~- Completed season			40	
0	erry for the Native Judge.	In the magistrate's cutcherry be-		7		3		53.5						1849-44.	2.5	8	**	1504
03	Sandoway: Construction of a	eourt In lieu of others of a like na-	~ - Sanctioned 19th	Sandow	ay -			2.600	6 2		2.24	3 6 5		Completed assson		e si	ji n	8 9 6
250	Treasury Record-room and Guard-room of mesonry.	ture, which were condemned in the annual survey report of the 26th November 1841.	June 1843.					-,	7	0			ň	1845-46.	100		-	w w
	Sulkea: Construction of a Than-	Intended to replace the exist-	- Sanctioned 11th	Sulkea	<u>,</u>		i Ali	1,126	12 10		1,05	5	٠,	Completed season		-	- 1	
•	san of Pucca Materials.	ing thatch and bamboo houses, which being situated in the heart of Sukes, are liable to be burnt down.	March 1846.		a 8						* 1	**	50	1847-48.		37/	·	
	Soory Gael: Construction of a	In consequence of the crowded	Sanctioned 17th	Soory			i s	4,248	1 10		4,33	4 2 8		Completed season 1849-50.	The er	niargement	of the	area of the
	new Hospital.	state of the gaol, the ward hereto- fore used as a hospital has been assigned for the use of the prison-	June 1846.						8		3			1849-00.	wall on vation of	the north	side, s	nd the ele- unding wall
		ers, and the sick removed into a thatched building in the civil gool.	AND ABBURE TO SERVICE						10	. [to the un tended.	iform heig	nt of 18	feet, is in-
2	CIVIL BITTI DINGS TO	VER PROVINCES_JUDICIAL:			23	:0 :		* ***	10 100 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1			39 8 5,5022		***	,			12/6
	Sandoway:	VAR PROVINCES—JUDICIAL.	ata"			1)		1.		.	2		.59			5 ³	i i	ver ver
	New Thana House in Arracan	*	- Measurement 60 feet by 30; sanction- ed 14th April 1840.	•	•	-	a	810	3 10		84	4 13 %		Completed senson 1841-42.	thatched,		finor w	at, the roof ill be well
	New Circuit House	For the use of the Commissioner	Sanctioned season 1838-39.	Sandows	у -	, -		2,347	9 6	٠,	2,	406 9	-	Completed season 1842-43.		8 -	- (o	onlinued)
N 84	ist of the state o			282		8	Ç., 109		60				e' '		K E	•	- 5	

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
CIVIL BUILDINGS, LOWER	 Provinces-Judicial-contin	ued.	2	Ri. a. p.	Rs. a. p.	su e	
Seibpors, ia Assam		- Catcherry, 100 by 40 feet; with wings, 30 by 40 feet; a trea- sury guard, £2 by 53 feet; a criminal gaol, 100 by 38 feet; a de-			2,535 \$ 10	; ·	
* *		wanny gaol, 100 by 38 feet; a thanah house, 35 by 22 feet; sanctioned 20th Fe- bruary 1839.	gg * *		ê e		Bartagi Talah Sanasan S
hakabad: Purchase of a School- house.	For a cutcherry for the magis- trate.	Sanctioned 4th Fe- bruary 1841.		8,000		Season 1848	This building had been newly constructed.
Improvement of the Drainage of the Gaol.		Sanctioned 26th January 1842.		1,105 12 6	1,248 6 6	Completed season 1842-43.	
cehsangor, in Upper Assam : Construction of a Cutcherry.	For the magistrate, in lieu of a cutcherry which was destroyed by fire on the 25th August 1840.	Sanctioned 26th January 1841.		1,618 15 10 1	1,520 9 -	Completed season 1842-43.	The building consists of a root 80×20 feet, with a wing 80×20, and a 10 feet verandah all round.
eebstuger: Construction of a new Gaol Hospital, with a new Bamboo Stockade to the Gaol.		Sanctioned 18th February 1840.	• . • •	887 13 8		- Constructed senson 1842-43.	The building consists of one centroom 84×20, with an eight feet versu dah all round.
chaugor, Lower Assam: Construction of a Gaol st.	For 204 prisoners, males and females.	April 1843.	Seebsaugns	- This work was suspended in season 1843-44.	9,008 14 4		The foundation and plinth of the gaol wards will be of mesonry, and it remainder of the building will be con posed of temporary materials.
Silcherr Construction of a new Mohafez Thanna and Treasurer's Room.	For the security of the records and treasure.	Sanctioned Sth November 1844.	Bilchor •	2,079 1 7	2,230 4 7	Completed season 1846-47.	
Secbsurger: Construction of a new Treasury and Thaunah.	- In lieu of similar buildings blown down in a storm in May 1843.		Sechsangor	618 8 1	n *	,	
Provision of a new Gad -	- The permanent hospital con- structed for the light infantry is to be converted into a gaol.	Senctioned 34 April 1843.	Secheauger	17,884 10 4	17,308 9 1	Completed season 1845-46.	
Syllart: Improvements to the Casol Heapital.	- This hospital, which was originally a mosque, is considered by the medical officer, from its extreme lowness, an unfit habi- tation for the sick.	- Sanctioned 15th March 1847.	Sylliet	1,821 1 4	1,885	- Completed season 1849-50.	- The estimate provides for raising the roof 61 feet higher; and with view to improve the veutilation, the surrounding wall, with the goard- room, will be removed to a proper distance.

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×	Seelvanyor:	1	Y control of	1075 555	2	1								*		1
9	Rebuilding of the Circuit	- This work was necessary, in		Boobsaugor		-	• •		•	-				Completed sesson	* *	1
987.	House.	consequence of the damage sus-	1847-48.								98		1	1847-48.	и и и	
		during a storm-on the 98th April	1	1	•		27						ł		1	
		1840, when the walls were so forced out of the perpendicular													9	
	,	as to make the building in immi-			_								J	l i	1	l
	. ,	nent danger of falling.	S 8 10		Ī	- 1				1					2 40° K X	
	Renewal of the Gaol Stockade	The necessity for this work	Sanotioned 8th De-	Seebsauger	r w	- [ÿ.	485	4 1	1	46	33 8		C		
		was reported by the civil autho-	comber 1847.	•		1	à say		-		-	99 9	ا و	Completed season		1 5
	29	ritles,			20					.]		e 9		1		13
• **		A second				20		22		- 1			1		5 E E	1 📆
	CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES-	IUDICIAL.		16										2 6 00 00 0 0 00	PAPERS
10	10.00	15 D MANAGEMENT AND THE STREET OF THE STREET				J	2						J	1		5.
	Shajehanpare: Construction of	In lieu of inferior buildings		Shajehanpo	ora -	-		5,976	8 7	1	5.90	07 13	31	Completed sesson	m m _ m _ m n	100000
	a new Pueca Guel Hospital and Buildings.	built by the civil officer.	September 1843.	200				20	56	1	GEORGE A	files even	2261	1845-46.	N 1 241	
	• 4	(' '		1	r v								Ĭ			· [-
			- Depth 113 feet,	Birea -		-		1,198	10 10		1.15	3 10	10	Season 1841-49.	v	RELATIN
	e d	Department.	diameter 8 feet; sanc- tioned 26th March			-		5		1	7		- 1	E	The state of the s	1 3
	·	f - 7	1841.			ŀ				- 1			1			i i
#3 30	Salamanana Construction of	- Owing to the insufficiency of		1,200						1	0.00		. 1	10.		1 15
192	a Pucka Guard-room at the	the axisting gnard-rooms.	- Sanctioned 8th De- cember 1848.	Seharunpor	.e -	- [030	1 10	- 1	- 00	30 1	10	Season 1843-44 -	- The new building is to accomme	- 3
0	Gaol.	,	Communication of the communica			.	**	-	%	ı					date 80 men.	
4	Shikarpore; Conversion of the				. 8. "						5			**		70
	Fort into a Gaol.		- Sanctioned 3d April 1845.	Shikarpore	1 . ·	- [4,531	8 3		4,60	31 8	9	Season 1845-46.		19
VQ0		promise of and		l						1	9	20			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
31	Shikarpare Gaol: Construction , of a Hospital, Cook-room, &c.,		- Banctioned 24th	Shikarpore		-		1,521			1,55	21 -		-	*	РГВГІС
	to the		January 1846.	1	750 8						5.56	4	- 1	55	1	
		/ Epita territoria 🚚 🎵	4	l .	er er	1				- 1			78	8	v.	1 =
		English and the second of the			2	1				1	•		/	ļ	* 1	o o
	CIVIL BUILDINGS, CEN	TRAL PROVINCES—JUDICIA	L:	1				*	i e	. 1	*	25	1	-48		I≅
	Savage Gaal - Enlargement of	In consequence of the removal	Sanctioned 16th	00.00 \$79a45	-	i .			20 . 80					5	10.00 SS: 10.00	WORKS
	About 1 years and	of 100 prisoners from the district	April 1845.	• •		- 1		47,386			45,55	28 P	8	Completed season		at I
8 N. W		of Dumoh.		1				16 X	1001 10	1	9 .		6 B	1847-48,	occasions might arise in which the	
	53.00 to 50	,	f		59	107	A 10			10			10766 1		the place, and expressed a desire the	# 1 G
				1						- 1			1	e has	the building should be calculated for	oi
					10.50	(8)		10	65			*	•	* * * * * *	that provision abould be made with	in 💮
	1.00	, *	1		ē	1				- 1	60		1	iii	the gaol for the occasional close con	n-
	1.5	,	F	2	2.40	1	2.5		Sav	1			1	l	fluement of all the prisoners. The he good has been fortified, and is on a muc	W
9		, - 1	í t		10	1		E 2	555	1	•		` 1		more extensive scale than the Dumo	oh .
•	e veva V	,	100 J	ļ., ,		.]							- 1	0	gaol.	~ i
89	Seconde Gaol: Additions and	Under a representation from	Sanctioned 80th	Весопае -		. !		9.184	4 9			9	- 1	Completed season	The gaol accommodation had becom	
	Alterations.	the Sessions Judge of the want of accommodation for the ordinary	August 1840.					,	-	1	70 m	9	1	1850-51.	quite inadequate, as Government re	e-
25.90		number of prisoners of the dis-		*	Alby-	1							\$T		fused to allow the surplus prisopers t	to
		trict.	1				100			-	2.	8		6.7	be employed in out-gangs.	h
	,	, J	<i>!</i>	l	27	1	85							· .	(continues	(i) - =
			15	55						17					* 3 .	

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement,	Place of Termination, or of Intended Termination,	Amount of Expense Incurred.	Estimated Amount for Competition.	Probable Time of Completion.	REMARKS,
CIVIL BUILDINGS, EAS	STERN SETTLEMENTS—JUDIO	IAL:		Rs. a: p. ,	Rs. g. p.		
lingapore: New Polics-offics		~ - Sanctioned 13th November 1839.	Singapore	. 4,041 B 7		Constructed 1840-41.	
Construction of a Police Thannah at Campong Clang.		Sanctioned 25th March 1840.	Singapore	3,143 7 6		Constructed 1840-41.	
8/4/17/17/16 15/4/4 18/5	TH-EASTERN PROVINCES-G	()	2 9. 8		Section 50		
augor Island: Construction of a Lighthouse on Middleton Point,	- With a view of replacing the present tripod, which the Super-intendent of Marine, after a personal inspection, reported to be in a ricketty condition, and accordingly recommended a masonry tower in preference to the reconstruction of a tripod, on the accre of ultimate economy, as well as superior efficiency.	- Sanctioned 18th January 1847.	Middleton Point -		25,938 9 4		- The new lighthouse will be a ta column, divided into five vaul storys, and surmounted by a lant of copper and plate glass. Total her of the beacon terrace 102 feet; shaft 82 feet in height, tapering if 20 feet at bottom to 12 feet diame at top, and aurmounted with st coping and battlement. In eas 1847-48 the Military Board reporthat the encroachment was so great the statement of the statement was so great the statement w

No. 6 .- STATEMENT compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued.

of the beacon terrace 102 feet; the shaft 82 feet in height, tapering from 20 feet at bottom to 12 feet diameter at top, and surmounted with stone coping and battlement. In season 1847-48 the Military Board reported that the encroachment was so great, that it was feared that the masoury lighthouse must be abandoned, and an iron lighthouse substituted, the rough estimate for which, amounting to 44,130 rupess, had been referred to the Home Authorities. Court, on referring to parties experienced in the construction of iron lighthouses, for their opinions as to the relative merits of Colonel Irvine's, Major Godwyn's, or some other plan, were satisfied that preference was due, on several necounts; to the shell or iron plate mode of construction; they accordingly accepted an offer made by Messrs. For, Henderson and Co, to furnish an iron plate lighthouse, with iron staircase, gun metal. lautern, glazed with plate glass, and covered with copper, reciprocating light, with allvered parabolic reflectors, together with certain stores and lighting materials, for the sum of 2,164 i., or about 4004 less than the estimated cost of a structure of

masonry.

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5	CIVIL BUILDINGS CR	NTRAL PROVINCES-GENERA	T. •	1.	1			* *
20	Civing Beings, en	1	i			1 8/	•	
1 ,	Sulken:			3.			, .	in anti a
	Construction of New Salt		Orders of Govern-	Sulkes	50,901 · 5 10	67,244 8 4	· - Completed season	These golahs, 11 in number, are of
	Golaha.		ment, 5th July 1837.				1838 -3 9.	pucca masoury, and have been well constructed by Captain Fitzgerald at
	. * *		e 2 22		1	16		a cost of Rs. 6,843. 2. 6. less than the
2	e e						e	sanctioned estimate.
		1 345	F 5		1			
					7.070 4.0	8.008 B - 4		
	Construction of Division Walls in 27 Salt Golahs.	In consequence of the loss re-	- Sanctioned 19th Au- gust 1840.	Sulkes	7,879 4 3	0,000 0 - 7	Completed season 1841-42.	to the transfer of the contract of
	Traffe in 21 Safe Guanet	sulting from the present plan of separating sait of different qua-	Pass 10 apr		N mas S and	28 3		
		lities by mats, in these golahs, as	* 2					
		the mats frequently rot, and the						
		sait becomes mixed.	2 0					
	2 (4) T							
	Renewal of the roofs and Im-	In consequence of the great	- Sanctioned 23d De- cember 1840.	• • •		16,470 3 -	- ,	
	Salt Golahs.	wastage of salt occasioned by	COMORE 1040'	to see a "	l			
2.0	Property of the second	anaugu .		712 to 1 1 1 1				
•						0.00	6	
	Staging Bungalow and Out-		- Sanctioned 19th Au- gust 1843.	- Situated on the Grand Trunk Road	2,072 13 5	2,138 4 4	- Completed season 1843-44.	- 1
٠.	otticer		guar 2020.	between Allygbur and		* *	1040-55,	
				Delhi.		• ***	Note 1	
							0.22	
,	CIVIL'SHITDINGS WOL	TH-WESTERN PROVINCES-	TUNDDAT.		k . ** . 1			
	CIVIL BUILDINGS, NO.	THE WESTERN PROVINCES	in and nati	9.5			* 4	the second of the second of the second
	Sheknabad: Erection of a	For the accommodation of tra-	- Sanctioned 5th Sep-	40 miles from Agra -	794 10 6 and	844 13 9	Completed season	
	Staging Bungalow.	vellers proceeding to or from	tember 1840.		60 18 7		1841-42.	
		Agra.	85.00		for furniture.	· · · · · · · · · · · · · · · · · · ·		and the same of the same and the same
		withing to the same of the sam	78	18 8 1		H 5		
4	gree, in the Hill District of	To replace an old bungalow,	Sanctioned 1839-40			1,282 6 9	·	
	Subathoo: Construction of a Staging Bungalow.	which did not afford sufficient accommodation to travellers,		Min ex	199 199 1	1. 1.2.2. 1. 1. 1.	The system of	 approximate a second
100	Brakar Dungason.	SCOMMONIATION SO PLEASURE.		5		18		
	reserve a logical soul		•			, sine no		200
1	Similah : Construction of Public	For the civil officers of the	Sanctioned season	Simleh	6,053 4 4	4,649 14 -	- Completed season	The excess was owing chiefly to the
9 3	Offices.	station.	1840-41.		1	***	1842-43.	erection of out-offices, which were not
39						H 0	v	included in the estimate.
- 6	Called No. 1	La a se Marke de de		m K nii		a K Wa		
ું ક	lubathoe:		Consideration of PAL W. L.		must week	10,798 7 6		- "The mesoner shappeleus s. t. s
8	Construction of a Protestant Church.	This building is to be calcu-	- Sanctioned 7th February 1845.	Subathoo	This work was sus-	10,100 1 0		The masonry throughout to be of dressed stone, with lime coment, but
	Cauren,	seces to noid noo believing		•	322 and 323 of Report of		* *	without plaster, and the roof to be
					1845-46.			formed of shingles on battens, rafters,
*		Ree e e	2 4 F 4 W 6	p		From Jergon Kunner	ander to the contract of	purlins, and trusses.
33	* * * * * * * * * * * * * * * * * * *		H w	Tank y		A Section 1	0.000 %	
160	Proposed construction of a	To serve for the performance] , - • -	5,401:15 G		
	House.	of Divine Service on the Sabbath,			g vitam	f , a	*	
	12 · 12 · 12 · 12 · 12 · 12 · 12 · 12 ·	and for a school-room on other . days.	ye s					
	8			L.	t 1	gen and the		(continued)

No. 6 STATEMENT compiled from the	Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive-continued	<i>!</i> .

NAME OF WORK.	Oigest of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
Civil Buildings, North	C-Western Provinces-Gener	▲U—continued.		Re. a. p.	Rs. a. p.	B (8)	
Syree: Construction of addi- tional rooms to the Staging liangulow.	The necessity for additional accommodation was brought to the notice of Government by the	- Sanctioned 23d August 1850.	Syres		1,276 12 4	- A - A - A - A - A - A - A - A - A - A	
2	Postmaster-general.	17		×		Į.	
941 H				•	24 040	4 A 40 V	
CIVIL BUILDINGS, CEN	TRAL PROVINCES-REVENU	E: *		# #	2.	***	
Seconce: Construction of a Tuballdarry Cutcherry.		Sanctioned season 1839-40.		986 14 8	1,304 13 9	Completed scason 1841-42.	_
	* 1		35 ONS X	8 a 18		• •	
Sumeerpore: Construction of a Bungalow and Out-offices at the Cotton Farm.		Sanctioned July 1842			9,944 10 7		The execution of this work was subsequently entrusted to the Civil Department, not however before an
the Column Farms.	ot:			ti .	a g	200	ontlay of Rs. 1,587, 12. — had been incurred by the executive engineer in the collection of materials.
~		ę				· .	the conection of materials.
Secundra, in Zilloh Caumpore: Construction of a Tubsildarry Cutcherry at.	In consequence of the lapse of the Secundra Jagheer, and the annexation of the Pergunnah to	- Sanctioned 4th No- vember 1842.	Secundra	5,491 2 - 1	5,139 13 8	Completed season 1844-45.	
Cutcherry ac	the Cawppore District,		e		<u>3</u>	8 H E	
Skeorajpore: Construction of a Tubsildarry Cutcherry at.	- To replace the present entch- erry, which is represented to be very confined and insecure, being	- Sanctioned 9th May 1844.	Sheorajpore, in the Cawupore District.	5,624 2 1	5,679 15 -	Completed season 1846-47.	
W M a	surrounded by and connected with the houses of the village.	8	9 *	2	% *		
1				*		*	er er
CIVIL BUILDINGS, CEN	TRAL PROVINCES-ECCLESIA	STICAL:		* *			
Saugor Church	For the benefit of the Christian community and the European soldiery.	Sanctioned 30th December 1835,	Sangor	10,272 14 5		Completed season 1840-41.	This church was surrounded by a wall in 1842-43; the cost, Rs. 1,568, 14. 10., was paid by sub- scription.
			1	<i>3</i>	207	5 × 7	Designation.
CIVIL BUILDINGS, NOT	RTH-WESTERN PROVINCES-	REVENUE:		SQ-7	,	Χ.	
Soneput, in the Northern Divi- non of the Delhi District: Construction of a Cutcherry.	- To replace a cutcherry built by the late Baba Bhac, which was in a state of disrepair, and in an objectionable situation.	- Sanctioned 18th December 1838.		6,405 1 4	*		

		, ¥			g # 3		•
Shabjehanpore: Additions and	Rendered necessary by the	Sanctioned 16th September 1840.	Shahjehappore	7,364 11 6	7,700	Completed season 1844-45.	- The old cutcherry was disposed of, for a sum of 3,100 rupees, to Captain
afterations to the Collector's Cutcherry.	and Magistrate of the district	Schrenber 1040.		· · · · ·			Ludiow.
the contract of		1.					85 N 128 N
CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES-	POLITICAL:				93	8 W 8 V 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Shikarpore: Repairs to the		- Sanctioued 22d July 1844.	Shikarpore '	7,000	7,000	Şeason 1844-45.	
Old Agency Bulldings.					. se		
Scinde: Construction of an Office.	For the Secretary to the Government of Scinde,	- Sauctioned 9th No- vember 1844.	Scinde		2,169 4 3		The walls will be of brick and mud, and the roof tiled.
			* *		* * * *		
EMBANKMENTS. SOUT	H-BASTERN PROVINCES:	1 1 10					
Twenty-four Pergunnals:	1:		. 2				
Construction of a new line of		- Sanctioned 1st June	Twenty-four Per-	5,398 14 -	8,939 14 4	- Completion reported season 1844-45.	- A considerable saving on the esti- mate was effected by dispensing with
Bunds from Kalkapore to- wards Moneergong, and		1841.	gamaus.				a portion of bund where the damming of a khall had sufflood. The eati-
back to Barreenbuugh, to include the Village of					•		mate for annual repairs of 1850-51 amounts to Rs. 15,642. 14. 2.
Gillerchut.	escii i		100			lan, 5 x	W . + S
Construction of 11 Bungalows on these Embankments.	For the use of the superin- tending engineer and the super-		- Ditto	1,070 1 -	• • • •	- Constructed season 1844-40.	embaukments in these provinces have
**	intendent while on inspection duty.		* * * * *	*			been made available to the Magistrates, Collectors, and other Government offi- cers, for occasional use when their
el sece of			e		12		duties call them into the interior.
· V					1 1400 E	1	
							The state of the s
EMBANKMENTS, LOWI	RR PROVINCES:	v a e					
THE RESERVED TO THE PROPERTY OF THE PROPERTY O	1.000.000						
Twenty-four Pergunnals:		The reconstruction		1,80,000	95,160 14 94	Completed season	The estimate for effecting annual
		of these bunds was senctioned on the 1st		a gran with		1843-44.	repairs of these embankments for season 1849-50 amounted to Ms. 14,928. 0. 7.
g g a v v v		November 1842. Their entire length is 300					
		miles; the cost of their annual repair	• • • • • • • • • • • • • • • • • • • •	10 N 10 Test			* * * * * * * * * * * * * * * * * * *
	3	is estimated at Rs. 18,751. 14. 6.		* * * * * * * * * * * * * * * * * * *		* * *	
	10 KE 10 100 100 100 100 100 100 100 100 100	210 2001000 270 00		E SI	0.000	Senson 1840-41 -	This estate ought, it is stated, to
Ditto - • •	The construction of a bund has been authorised for the pro-	Length 11 miles; commenced in scason		6,008	6,068	Den200 1040-44	yield at least 20,000 rupees, if properly
	tection of an estate situated on the verge of the Sounderbund	1839-40.					neglected state, it does not pay to Government one-fourth of that sum. (continued)
f _a	Forest, near the Channel Creek.	1		100 to 10	I ;	1	1 (continues)

:No. 6 .- STATEMENT compiled from the Reports of the Military Beard at Bengal, from Sesson 1830-40, to 1850-51 inclusive-continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	. Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
					* V		
ENDANEMENTS, LOWER I	ROVINCEScontinued.	* * * * * * * * * * * * * * * * * * *		Rs. a. p.	Rs. a. p.	44. 2 0 /	N g
Twenty-four Pergumahs—cont	inaed.	100		•	4		e w
New Line of Bunds from Cal- cutta towards Monocryong, and back to Borrehaugh Khal, to include the Village of Gillarchat.		- ~ Length 14 miles, 3 furlongs; sanctioned 1st June 1841.		8,333 14 4	8,333 14 4	Sesson 1841-42.	
Construction of Husses Bunds, and Dam across the Khas Meksi Nunnoraj.	With a view to the improve- ment of the mehal.	The Bhoords Khall has been excavated to the length of 3,000 fiet, and Huseces three feet in height, with a dam, has been		1,248 6 3		Completed season 1843-44.	It is expected that the returns from this estate (8,000 rupees per annum) will be almost doubled, when a proper system of drainage has been established.
ar y		constructed, under orders 19th October 1841.					
CANALS, SOUTH-WEST Fully's Nullah: Strengthening: Banks apposite to the Kidder- pure Tollbones.		- Sanctioned 10th May 1847.	Kidderpore	317 10 -	501 5 -	- Completed season 1847-48.	The banks have been protected by pilling, and with stone ballast
pas rollboase.	s as	a"	** ** ** ** ** **	* A 64 **	S no		
CANALS, NORTH-WEST	ERN PROVINCES:	14 B T		26		a * 1	
Tajjawalla New Cut: En- largement of the.	The width, 40 feet at the base, was found to be insufficient to pass the water accumulated at its mouth.	- Length about 900 feet, the width at the base to be increased from 40 to 50 feet; sanctioned 24th April	* * * **,	Not reported	1,990 1 2	Season 1844-45 -	This cut was originally excavated by Colonel Colvin, immediately below the junction of the two canal heads.
		1844.	36	* .			
ROADS AND BRIDGES,	SOUTH-EASTERN PROVINCE	5 68 3: **	:e3			H .	
Tumlook Road: Construction of Drain Bridges.	The road interfered with the natural drainage of the country.	Length 18 miles; enerioned 27th March and 24th July 1843.	From Paunelicoo- rah to Narrainpore Khaul.	3,128 8 1	3,602 11 8	Completed season 1844-45.	Such of these drains as it may be desirable to adapt to purposes of infigution, will have sluice-gates attached to them at the cost of the landholders
¥ e	į .			2004 F			and the case of the supplemental

126	텣	v. · · · · · · · ·			n.	Î s		
200			,					
CO	Topechanches:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		8282 B DO DA	1 1	80	
7	Construction of a Bridge two		Banctioned 10th October 1843.		8,063 11 -7	8,000 7 8	- Completed season	The bridge has two semicircular
	miles east of.	* *	- October 1040.		H "	- V	1840-47.	arches, 22 feet in span. The saving is powing to a great reduction in the quan-
	@				49	100	S _a	tity of musoury-work, and in the rates
10 10	Construction of two Masoury	1	Ennetioned 16th October 1843.			7,018 1 8		generally.
81	Bridges, one three miles	19.7	OCMUNIT 1940.				* * * * * * * * * * * * * * * * * * *	1
88	of.	*						La y a
		505 20		10 A 11		1	No. of the last of	H
r			196			3		
a. @				180 to 10		100 mg		
	HOADS AND BRIDGES,	LOWER PROVINCES:						<u>}</u>
	×0.€0 • 5	98 1950 16 N		2 2				
8	l'espore Bridge, in Lover Assum	To complete the communica-	Sanctioned 12th		716 18 7	841	Completed sesson	<u>+</u>
		tion between the station and the	January 1841.	Test on a d			1840-44.	
60	a 100 T	gaol.		* a *	2 X , 2			Tag of a second
	Manage Control		Length 44 miles;	Pancegong	. 8.886 1 0	1	Completed in sea-	The whole line, us it exists now,
a 1	Pitiliga Chant : Across the Cussyah Hills to Pancegong.		sanctioned in season	z morgong	1 0,000 1 0		bon 1841-49.	may be traversed to every part by
	in Assau.		1638-30.	1, 0				are of wood, and being built of large
	* *				(86)	10 St 1611 1015 10		trees, they will answer even for ladus
		V 40 K Z		93			J. 100	elcubants.
×.	3 N N N] *	g 2 ¹	1			
	www.addeds.com		a a Tord	W _ {	* * * * * * * * * * * * * * * * * * *		5 65	
Hol	x e "me se s	* *** * * * *	* y			\$ 5		
	ROADS AND BRIDGES,	NORTH-WESTERN PROVINC	RS :		140		. 19 948	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		*	(Se) (7) (8) (8)		1 2 2	2 2 2
9	Pongra to Goona : Straighten-	1	Banctioned 1st Au-	Goons	1,003 15 11	1,005 18 11	Completed season	
68	ing the Read from, and Con-	, a s	gunt 1845.	,	2 10	30 A	1840-47.	3 2 4
	struction of a Bridge across a Nullah at Lockwas.	l 31 . 5	1000	•		r _o	\$ - \$ - · · · · · · · · · · · · · · · ·	
	Million St Lock was.		e	4.	a a see terms		Simply groups and the Mark Section	
21.0	Y 40 10 10 10 10 10 10 10 10 10 10 10 10 10		10 To					
1		With reference to Government		Plujors		DI'08T 8 Q ,		The calimate provides for the con- struction of two bridges across the
100	tion of a Military Road.	general orders of 17th Novetu- ber 1849, relating to the opening		8.6	×	1	ř.	Latirew Nullah and the Chonr, near
	s <u>s</u>	of reads adapted for all military	ber 1844	2 A	V	597		Monkambpore, and 76 drain bridges of
		purposes in the North-western frontier.			H g			shorts.
8		ALOMETER .	· · · · · · · · · · · · · · · · · · ·	8				S S
]		l. I					
8				//		200		1 to 1 to 1
2	CIVIT BEILDINGS BOT	TH-EASTERN PROVINCES-J	IIDICIAL.	3 " 11 11		6	Accountage of State Co.	5
	DATE BUILDINGS, 600	LIL-LINUI LINUI E NOTATIONS	V W W V V V V V V V V V V V V V V V V V	N. 10 "				, a
	VI 90 10 200	N NO CONTRACTOR	5	4,375	o" and			
. 1	Comfy-four Pergininalisi Con-	we have the second	Sanotioned 20th	Bijunted between the Budder Dewannes	47,847 15 5	47,329 8 10-	Completed season	
	struction of a New Issue	, , y , , , , , , , , , , , , , , , , ,	January 1844.	Court-house, and the	para sab		1848-40.	* 2" 1
60	Mospital.	ي د ًا ً	and the second	Iron Bridge-yard,	N		1	
	Charles Access	1 man	1	, , , , , , , , , , , , , , , , , , , 	Harana and an	II	A STATE OF THE STA	
3.63	9 99	8		<i>*</i> *	- 100 C		NO. 10. 10. 10.10.00	(continued)

No. 6.—Statement compiled from the Reports of the Military Board at Bengal, from Season 1839-40, to 1850-51 inclusive—continued.

NAME OF WORK.	Olject of Construction.	Length, and Data of Commencement.	CI	ermiustion, r of Fermination	of	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS.
Civil Buildings, South	-EASTERN PROVINCES-JUDICIA	L—continued.	+		Rs. a. p.	Rt. a. p.		
	A new house for the gasier and	Sanctioned 20th	Tavoy -		1,253 10 9	1,751 3 -	Completed season 1846-47.	1 - 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	required to replace the gauler's house, which had decayed; the latter in lies of the present sheds, which, from their objectionable position, affords means of escape to prisoners.	• 1	â	te,				and great a second
		9 141		3				
Construction of Circuit-Louses and Out-offices.		Sanctioned 17th September 1846.	Татоу -		- Rs. 3,893. 6. 8. was incurred in the construc- tion of the Circuit-house.		The completion of the Circuit-house was reported in season	-
		* ×			1		1847-48.	
de s		10 KT		9.		9 100		-
CIVIL BUILDINGS, LOW	ER PROVINCES-JUDICIAL:							The state of the s
espere, in Lower Amont				7.5			585	
Construction of a Treasury and Ercord-rooms.	To secure the records of the magistrate's office.	Sanctioned S0th March 1841.	Tézpore -		4,589 14 4	2,563 2 4 Exclusive of convict labour.	Completed season 1846-47.	
New Gaol - • • •	- The existing good holiding being in a very dilapidated state.	- Sanctioned February 1841.	Tezpom -		13,923 1 6	13,805 12 6 This amount, it is expected, will be considerably reduced by	Completed season 1846-47.	- This consists of four criminal, one nazet, one civil, one female, and our hospital ward, with dead-house and out- offices. The whole of the buildings are
	s .			12		the employment of con- vict labour.		of kutcha pueca masonry, with thatch roof, with the exception of the work- rooms, which have tiled roofs.
Construction of a Thatched Roof Cutcherry.	a. At the requisition of the Com- missioner of Assum, in 1:so of the present cutcherry, which is in a	Sesetioned 24th June 184ti.	Tézpore -		4,209 15 4	4,403		
	dilapidated state.							R as a
Additions of Catcha Pucca.	- In lieu of the present tempo-	Sanctioned Decem-	Tezporo -	• • •		2,008		
galow.	destroyed by storms.	1	- A				w E s	79.
CIVIL BUILDINGS, SOU	TH-EASTERN PROVINCES—G	ENERAL?		E 100			9 0 90 50 50	
	- In lieu of the old wharf, which is in a decayed state, and of little use except at high water, owing to there being a space of 73 feet of soft mud between it and	Sanctioned 9th Sep-	Tavoy -		1,778 11 2	1,778 11 2 -	Season 1844-45,	
\$1 %	the strong.		15.	ty:	1	i		

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-			

		f -	1	f	1 .			, a
S	CIVIL DUILDINGS, LOV	VER PROVINCES—GENERAL:	2.					8 9
-1	Aller State of the	- To provide accommodution to	22d September 1847	Tiinlya	9,517 4 9	- An advance of 2,000 rupees was made. An estimate, amounting		- Will supply the place of an hotel which existed at the supply, but was burnt down in 1847. In season 1849-60
		jac jac jac	8			to Rr. 3,230, 14, 8, was subsequently (5th September 1848) sanctioned.	(g)	sum of Ra 148. 7. 7. was expended in furnishing this bungalow.
	CIVIL BUILDINGS, CEI	TRAL PROVINCES—REVENU	Œ:			#1 10	2 08	2
	Toshqum, in the District of		Sanctioned 1830-40	Toshnum	3,609 8 7	8,568 3 7	Senson 1839-40.	
	Hissar; Construction of a Tubsocidarry Cutcherry at.		3			, 0,000	cellaur 1998-AV	-
9	CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES-	REVENUE:		* ** ** ** **			
38 5	Tirmah: Construction of Build- ings.	For the accommodation of the Tubscel and Thannah establish- ments.	Sauctioned 18th February 1840.			7,127		- The execution of this work was antrusted to the civil officer.
	CIVIL BUILDINGS, NO	RTH-WESTERN PROVINCES-	BENBRAL:		:35 ° 3			
P 4	Umballah: Staging Bungalow at	For the convenience of tru- values proceeding to or from Simila-	Sanctioned 1830-40	Umballah	1,846 4 6	1,645 4 6	Season 1840-41.	
8	* 1		2 W E			V = _ = = = = = = = = = = = = = = = = =		į į
	Umballah Church: Purchase of the Private Church.		Sanctioned 8th December 184th	Umballah	8,000		Purchased season 1846-47.	- The sum of 5,000 rapoes provides also for elterations and purchase of church farmiture.
	Umballak :		N N N	9 *				
090	Construction of a Dawk Bungalow.	- To provide good accommo- dation for travellers at the station, through which many of the ser- vants of Government are con-	October 1848.	Umballah	8,901 4 9	0,806 10 7	-+ Completed season 1849-AO.	- The contemplated outlay, although large, is not considered incommensurate with the object in view.
		tinually passing.	Φ.				5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	
	Construction of Bathing- houses and Pucka Well,	For the accommodation of tra- vellers passing through Um- hailah,	Sanctioned 20th October 1849.	Umballah	1,158 13 d		Completed season 1850-51.	- The number of travellers passing through Umballok is very great, and the private accommodation is limited to four suites of spartments.
			e ac (*e	3 1493 •				an man pareds de Blattemende
	CIVIL BUILDINGS, NOF	TH-WESTERN PROVINCES—	UDICIAL:	a			•	* * * *
	Umballah: Construction of Buildings.	For the police battalion	Sanctioned 19th June 1844.	Umballalı	8,034 14 10		- Completed senson 1840-47.	- These buildings consist of a bunga- low, with out-offices for the adjutant, a mugazine, eight bells of arms and a
24		8 24 4 40		·)		reur-guard, and are constructed of por- manent materials.
						200 CO (10 CO)	- 3 - 3 - 3 - 3	

No. 7.

A STATEMENT exhibiting the EXPENDITURE incurred under the Presidency of Bengal on Works, Salaries, Establishments, &c. in the Civil Department of Public Works within the Ten (10) Years from Season 1839-40 to Season 1848-49 inclusive, from the Military Board Office Bill Books, will be found at Page 154 of the Printed Parliamentary Paper of the Honourable the House of Commons, No. 622 of 1851, the Total Amount being—

9		Rs.	a.	p.	
		2,23,65,343	15	1	
The Expenditure for Season 1849-50 was		29,29,480	_	10	
Ditto ditto 1850-51 was -	-	32,10,067	7	6	
Total for Season 1839-40 to Season 1850-51 inclusive	Rs.	2,85,04,891	7	5	

PRESIDENCY OF FORT ST. GEORGE.

No. 8.

In the printed Parliamentary Paper of the Honourable the House of Commons, No. 622 of 1851, pages 154 to 158, particulars are given of the formation of the Department of the Superintendent of Roads, of the arrangements adopted for the management and classification of the trunk roads, and of their condition, to the 1st May 1848. The following additional information has since been furnished in a General Report on the Road Department, to the 1st May 1851, dated 17th October 1851, in which year a new line from Madras to Cuddapah by the Goolcherroo Pass from Garampilly, was classed as Trunk Road No. 12; the old direct road to Cuddapah from Kankaloor, by the Valley of Chitwail, was thenceforth to be classed as a minor branch road.

TRUNK ROADS.

No. 1.-Western Trunk Roads, Madras, towards Bangalore.

The traffic on this road is so great as to make it of primary importance in a commercial point of view; the portion of it which lies between Madras and Waniambaddy, 121 miles, was reported in January 1852 to be perfectly made and bridged throughout, with the exception of the Palaur River, 2,440 yards wide, between Arcot and Vellore, its two branches near Waniambaddy, respectively 180 yards and 130 yards, and the Agarum River, 850 yards wide, between Pulliconda and Amboor; a new road four miles in extent, and partly in the town of Waniambaddy, has been opened for use, while a road for carts, between the 18th and 60th miles, with improvements of the road between Waniumbaddy and Bangalore, are the further works proposed to be undertaken; 352 carts per day, on the average, pass on 125 miles on this road, and in consequence of this great traffic 57,496 rupees were expended on repairs in 1851; and a sum of Rs. 31,179. 14. was demanded for the following season. The amount laid out on the Western Road from May 1845 to May 1851 was Rs. 3,30,655. 9. There are altogether 566 bridges, with an aggregate of 668 arches, and 3,984 feet of water-way, besides 78 road dams, over which water runs occasionally.

No. 2.—Frazerpett, on the Cauvery River, to Mangalore.

The portion between Mangalore and Frazerpett, a distance of 101 miles, has been much improved throughout. A bridge of an oblique arch of 42 feet has been constructed in lieu of one of two arches of 18 feet span, carried away in 1847, estimated at Rs. 2,024. 9. 9., but only cost Rs. 1,245. 14. 9.; and another of one arch of 45 feet is being rebuilt at Feringypett, at an estimated cost of Rs. 5,620. 3. 9. A branch road, practicable for carts, has been opened from Pootoor to Oopinungady, the object of which is to enable "carts that travel between Buntwall and the Munzerabad Ghaut to avoid the difficulty between the former place and Oopinungady, by following the Road No. 2 as far as Pootoor."

No. 3.—From the North Western part of Mysore, towards Canara, by a Pass descending from the Table Land near Munzerabad.

This road extends from Mangalore to Bangalore, by the Munzerabad Pass, and is now nearly completed from Mysore to Oopinungady, a distance of 112 miles. An estimate of 30,000 rupees for carrying it 18 miles further on from Oopinungady to Buntwall is under revision.

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No. 4.—From Hoonsoor, in Mysore, to Cannanore by the Parumbaddy Pass.

Advances to the amount of Rs. 1,83,135. 5. 2. were made up to 1st May 1851. In March 1851 this road was reported nearly completed from Cannanore to the Mysore frontier. The road by this Ghaut has been in continual use since May 1848. It is considered that an expenditure of 100 rupees per mile, per year, will be required to keep the road in order.

No. 5.—From Waniambaddy, by Salem and Coimbatore, to the Western Coast at Ponany.

Between Walliaur and Ponany, a distance of 70 miles, a bridge of five arches of 39 feet, over the Nurgumpully, and another of one arch of 36 feet, over the Yettaditooloo, have been built; a bridge of 10 arches of 45 feet, over the Parlakadow, will be completed in 1852. A new road from Coimbatore to Waliaur, a distance of 15 miles, has been completed, and a bridge of 26 arches of 471 feet span, over the Cauvery, between Bowany and Comarpollium, has been opened for use. A new direct line of road between Avernashy and Bowany, and further improvement of the road between Waniambaddy and Comarpollium, are proposed.

No. 6.—Great North Road from Madras to Calcutta.

The portion of road between Goomdipoondy, in the district of Chingleput, and Ulloor in that of Nellore, is far from being complete; the portion between Nellore and Ulloor will be superseded by a more favourable line through Mocberla to Tungatoor. The road from Madras to Goomdipoondy will be bridged, also three streams between Goomdipoondy and Nellore. From Nellore, to Ongle the road has been re-surveyed throughout, and a new line marked out between Covoor and Tungatoor. An excellent road has been made from Vizianagarum to Bimlipatam, at the expense of the Zemindar of Vizianagarum, and a bridge over the Bimlipatam River is being constructed at the expense of Government.

No. 7.—From the Great North Road near Ongle, to the Nizam Frontier.

The traffic on this road is exceedingly trifling, and the road is only of importance as being on the route by which troops march from Madras to Hydrabad,

No. 8 .- Inland Southern Road, as far as Trichinopoly.

The portion of road from Chingleput to Ooloondoorpett (95 miles) was reported in 1851 to be constructed, and would be metalled in the next year; the road from the north bank of the Cauvery to Samiaverem has been completed, and a beautiful and convenient approach made to Trichinopoly. A bridge of 32 arches of 45 feet span has been built over the Cauvery, and another of 32 arches of 60 feet span, over the Coleroon, is under construction. A road has been surveyed between Toramungalum and Sirooganoor, and estimates have been sanctioned for a bridge over the Chinaur, and a causeway over the Oopaur. When these works are completed, the Palar at Chingleput will form the only obstacle to rapid travelling between Madras and Trichinopoly.

No. 9.—Proposed to branch from No. 8, and take a more easterly direction, so as to lead to the new Annicut, lately built over the Vellaur River, thence across the Coleroon River at its lower Annicut, into the Tanjore District, near Combaconum and Myaveram.

The principal works executed are, a road south of the Coleroon Annicut, and a bridge of 19 arches of 31 feet, built above the Annicut, over the Vellaur; the road from the lower Coleroon Annicut to Vikravandy, 64 miles, has been cleared of jungle, and marked out, and a bridge over the surplus channel from the Toollajah Tank, and another over the Vuddavaur, with a new head sluice to the South Rajah Voikal, will be far advanced, if not finished, in 1852.

No. 10.

No. 10.—Proposed Road from Madras through Chittoor, Palmanar, Balsamoodram, to Bellary.

The principal works under construction are, roads from Raneepett to Punautoor, from Punautoor to Chittoor, and from Chittoor to Palmanair; these roads would be opened and the bridges finished in June 1852.

No. 11.—New Line from Madras by Roychotty, the Goolcherroo Pass, and Cuddapah, to Bellary.

The line from Madras to Codairy has been surveyed, and the portion of it from Madras to Cavetrajpett, near Poinay, has been marked out and estimated. Improvements are suggested to bring this road into general use, and to relieve the road from Madras to Poonamallee of a large number of carts carrying Bungalore, Cuddapah, and Bellary goods; thus reducing the wear and tear, and diminishing the expense of maintaining that portion of Trunk Road No. 1.

No. 12.—From Madras to Cuddapah, by the Goolcherroo Pass from Garampilly.

The principal work done on this line, has been the improvement of the Goolcherroo Ghaut, on the road from Roychoty to Cuddapah; improvements have also been made to the old direct road to Cuddapah from Kankaloor by the valley of Chitwail, which it is proposed should henceforth be classed as a minor branch road.

No. 9.

MADRAS DISTRICT ROADS.

Particulars as to the state of these roads, compiled from reports of the collectors, submitted by the Government of Fort St. George to the Honourable the Court of Directors, under date 6th May 1850, will be found at pages 158 to 165 of the printed Parliamentary Paper of the Honourable the House of Commons, No. 622 of 1851. The following is a statement of the more important works executed under the Civil Engineers' Department in the years 1848 and 1849.

No. 9

INDEX to STATEMENTS of Works Executed by the CIVIL ENGINEERS DEPARTMENT during the Years 1848 and 1849.

NAME OF WORK.

No. 16. Absanagrum Tank, repair of the Bank of. 24. Arbyle Ghaut, and line of Road from Yellapoor to Meerjan.

32. Agoomby Ghaut, Road from the foot of the, at Somaishwar to Bujjay.

33. Agoomby Ghaut, Road from the fact of the, at Somaishwar, to Halandee.

41. Araselaur River, Bridge over.

82. Annamullay Teak Forest, examination of.

94. Ambasamooduram Bridge, flooring to six of the Arches of.

7. Cocanada, Lattice Bridge at.

18. Construction of Sluices to different Tanks.

23. Coloor Ghaut.

27. Cassergode and Solea Road.

35. Cauvery Pauk Tank repairs. 38. Calavaye Tank Calingulah.

47. Corayaur River, Bridge over the.

48. Cuddaveyaur River, Bridge over the.

59. Covellay Surplus Channel, extending the. 67. Cauvery River, Bridge over, at Trichinopoly.
72. Coleroon River, repairs of the Banks of.

78. Calicut Canal (Malabar).

89. Coonoor Annicut, restoration of the.

100. Cunnadien Channel, from an Annicut across the Tambrapoorny.

5. Dhowlaisweram, permanent Railroad to. 22. Davamunny Ghaut and Road.

87. Dindigul and Pulney, repairs to Road No. 2, between.

Ellore and Masulipatam, Road and Bridges on the Road between.

1. Godavery Annicut. 8. Godavery Guttoo Annicut.

36. Goonamadee Calingulah.

31. Honore Jetty.

80. Hassanoor Ghaut.

12. Kristnavarem Limekiln.

14. Kundlairoo, Annicut across the.

75. Khansaibs Channel, Bridge across the.

74. Laulpett, improving the Road from, through Manargoody, to Womampillicor.

21. Munjerabad Ghaut and Road.

25. Mangalore and Agoomby Road.

45. Mercalcurray River, improvement of.

51. Moodecondaun River, Bridge over.

73. Manargoody and Chellumbrum, improving the Road between.

83. Madura, New Sepoy Lines in the Town of.

84. Madura, improvement of Drainage in Town of. 95. Madras to Quilon, repairing High Road, No. 4,

from. 104. Madras to Quilon, repairs on the High Road from, in several Talooks.

105. Mailsoul Channel, from the Murdoor Annicut.

6. Naraipoor, Road from, to Cakarapurroo.

19. Nellore Tank, completion of new Channel of supply to.

37. Notairy Otairy Calingulah.

40. Narasinga Canvery River, improving the.

49. Nundalam River, Bridge over the.

56. Negapatam, improving the Port of.

60. Nadookurray Main Channel, improving the, 76. Nundimungalum Oopenaur River, Bridge across

93. Nully Oday, Bridge scross the.

99. Nenmany Annicut Channel and Tank.

28. Oopenungudy and Pootoor Junction Road.

NAME OF WORK.

No. 85. Oopaur River, improvement of Road to, and construction of Bridge over the.

9. Poolapurty Annicut.

10. Pedda Oopalem Channel, Annicut across the.

15. Pennair, opening of a new Channel from the.
52. Pootaur, Bridge over the.
53. Paumany River, Bridge over the.

54. Point Calimere, Beacon Column at.

64. Peravully Channel, improving the. 65. Pungoony Channel, improving the.

77. Perambaddy Pass, Line from the frontiers of Coorg to the Coast at Cannanore.

88. Panlaur River Wagganies.

106. Paupancaul Channel, from the Carapanuddee.

61. Rettenagoody Annicut, extending the, and widen-ing the Nuttud Nullah Channel.

3. Samulcottah Channel.

13. Survapully Channel.17. Survapully Talook and Bodelingumpaud Cutcherries.

26. Sirey and Darwar Road Bridges.

44. Shembu Cauvery River, head Sluice of the.

92. Shevacausee, Cotton Gin House at.

103. Streevigoontum, Talook Revenue and Police Cutcherry in.

Thoolia Bagah Channel.

42. Trimulrajen, Bridge over the.
50. Trimulrajen, Bridge over, on the road from Combaconum to Negapatam.

Tranquebar, Beach Defences at.

62. Trichinopoly, improving the Road from, along the right bank of the Cauvery.

63. Trichinopoly, Gaol at.

68. Trichinopoly, new Road from, to Towagoody, the first stage to Tanjore.

Trichinopoly, constructing part of Road from, to Arrialoor.

70. Trichinopoly, improving the Road from, to Laulgoody.

81. Teppacandoo Bridge.

86. Thiroopoovanum Channel, Bridge stross head of.

96. Thimmarajasamoodrum Cooticaul Annicut, reconstruction of.

97. Thirtangul Perescolum, restoration of the.

98. Thentherapairee Head Sluice, repair of the. 101. Tinnevelly Channel from the Sootamullay Annicut across the Tambrapoorny.

102. Teutacorin, New Sea Custom-house and Masta. Attendant's Office at.

39. Vuddavaur River, improving the.

43. Veerasholen River, Bridge over the

46. Valavanaur River, improvement of the. 66. Vitticutty Main Channel, improving the.

71. Vuddavaur River, widening the, and forming a Dike on its left bank.

90. Vigay River, rebuilding Causeway across. 91. Vaddakurray Tank, supplying Channel of.

20. Wullabapoor Annicut, reconstruction of.

34. Wotairy Nullah, Embankment Channel and Bridge across the.

57. Weyscondaun Channel, improvement of the.

58. Weyacondaun Channel, rebuilding of Dark's Bridge across.

Yanam Embankment.

29. Yellapore and Moondagode Road.

80, Yellapore and Halliaul Road.

79. Yenudmuckle Apron.

No. 9 PARTICULARS of some of the more important of the Works executed under the Madrae Civil Engineers' Department, in	the Years 1848 and 1849; e:	stracted from the
Divisional Reports.		26

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
FIRST DIVISION. Rajahmundry Distric				Rt. a. p.	•		
(1.) Godavery Annicui	For irrigation			- Total expenditure to end of 1849, 6,50,344			The opening of the quarries, laying ra- roads, building stone dams, construction of at Dhowlalswerum and Muddoor Branch and suts, and lock and aluiess at various places.
(2.) Thoolin Begah Channel -	Clearing the old channel, and embanking.	Commenced in 1846	Cocanada River	16,929			- Average collections: 1840 to 1845 - 34,641 rupees, 1849 - 59,239 s
							Increase = 17,691
(8.) Samulcottah Channel	For irrigation	97 miles in length -		4,844			Chiefly for sluices. This is an entirely no line, carried through a tract of country alm without water, excepting some tanks depende on the local rains; it is a striking proof of value of water, the average collections have risen from 36,380 repose to 80,440 repose
		2	* 7	* *			1846-47, and 86,093 rupess in 1847-48, a 47,010 rupess in 1849.
(4.) Yanara Embankmeni -				8,120	• • •		This embankment, earlied along the easts side of the Godsvery, was utterly inefficient previous to 1848.
(5.) Permanent Railroad to Dhowlaisweram,	For the permanent use of the district.	• • • •	• • • •	6,410	• • • • •		Leading from the Quarry Hill to the be of the river.
(6.) Boad from Naraipoor to Cakarapurroe,	- To connect Narsipoor with Rajahmundry.	Length, 24 miles -	Cakarapurtoo	9,407			Expenditure incurred in the erection bridges and tunnels, and repairs to the ro- way.
(7.) Lattice Bridge at Cocasada Vizagapatam District :		- Length, 940 fast botween the abut- monts, in three bays of 50 feet each, and two of 40 fast,		1,065 balance of a contract of 2,400 rupees.		Pinished in 1848 -	This was a first experiment to ascertain a cost and efficiency of a mode of construct so extensively used in America, and which is also been adopted in England. It has been the greatest use, many thousands of peo- passing over it daily.
(8.) Godayary Guttoe Anniout	 For damming up the water which flows down the river, to supply irrigation to a tract of conatry paying revenue to the amount of 15,500 repeas. 	Length, 324 feet		8,167	• • • •	Completed; date not given.	- Constructed across the Shadah Nudd near Cassimouttah.
(0.) Poolapurty Annient -	To cause the water which comes down the river, instead of running wastainto the sea, to be stored up in several tanks or reservoire for irrigating lands in the Survasiddy Talooi, assessed at 11,600 rupees.			1,718			Constructed across the Pundaroo River.

		_					
NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
FIRST DIVISION—continue	d						
Fizagapatam District				Rs. a. p.	¥		*
	For turning the River Pun- darso into its right sourse.		1 1 1 1	830 = =			en la salatione de la compansión de la comp
Mandipalum District			10				
(11.) Road and Bridges on the Road between Ellore and Masulipatam.	- For making the passage of irri- gating channels practicable for bandies at all seasons.			4,029			Nearly 40,000 bullocks pass over them yearly with salt alone, to the Hyderabad ter- ritories, which before were weeks in the mon-
() 1 p							soon, waiting till the water fell to ford the rapid streams.
(12.) Kristna rarema Lime Kila -	- Por supplying lime for all the contemplated bridges on No. 6 Trunk Road.		• • • •	143			
SECOND DIVISION, Nellore District:	• •	8 EFF E					
(13.) Survapully Channel -				1,751			Leads off from the Pennair River, and after running a course of nearly three miles, branches
		3 *** 21 ***	0 v				into three channels. Passes on the western side of the town of Nellors, and is spanned by three bridges and an aqueinct built of laterits atone. The revenue derived, in 1848–49, from the tanks depending upon the Survapully River channel for their supply of water, was 12,500 rupces.
(14.) Annicut across the Kund- lairon.	To afford a better supply of water to the tanks of Buolvole, Colleccodocroe and Cutwapully, of the Survapully talook.	Length, 90 feet; commenced, May 1849.		3,090		Completed, July 1849	- The body of this work is 90 feet long by 4 is wide on the average, and six feet high, of laterite stone. Standing on a foundation 8 feet deep and 8 is feet broad on the average, sup- ported by wing walls of brick in chunam 12 feet high, with buttresses, and further strength- ened by an aproo of rabble stone, 33 feet wide, which was secured by a retaining wall sunk 9 feet deep in the bed of the river.
(15.) Opening of a new Channel from the Pennair.	For the better supply of the Nellore tank.	- Rather more than five miles in length.		6,519		• • •	This is a capacious reservoir, capable of irrigating 2,143 goortoos of land, the ayacut revanue of which is 32,167 rupess, but of late years the average revenue derived from it is only about 18,000 rupess.
(16.) Repair of the bank of the Absanagrum Tank in the Calagherry Talook.				2,065	• • • •		- In 1847, this tank was breached in several places; this expenditure was therefore neces- sary to protect existing revenue.
(17.) Survapully Talook and Bodelingumpand Cut- cherries.		# • • •		4,194	* * * * * * * * * * * * * * * * * * *		Constructed of brick in chunam, with beams of teak wood, and palmyrah rafters and respects.
24	The state of the s	* S S S S	•	7.0	■ 10 19 16 16 12 3	 In the part of th	Nacional Tract of the size and the

(18.) (Construction of aluices calinguishs to diffe	and tent	- •			•	•	-	• •	•			-				6,234		.		-	•]	" 2
(10.) C	tanks. Completion of the channel of supply to Nellore tank.	Dem		d 11#	. •	•		-		•	•		•0	(4)	•		2,316		-	•	•	•		Con	plete	d 18	49	-	- The revenue, which in 1844-45 was 10,882 rupees, was, in the season of its completion, 1848-49, 18,234 rupees.
TI	HIRD DIVISION. Bellary:		91.			59	8		41							,	8						4	ž					
	leconstruction of the l labapoor Annicut.	Wul-	• •		P	a •a	-		Commen	ed 18	46-47	-	•		•	Not	stated	٠	•	•	•	•	-	184	Compi 8.	leted	in h	fay	This work is a dam across the Toombudra River, 44 miles west of the town of Beliary.
	Canara:	30 N		0 pr	9	*		٠	,		9			38		-	1 -	87		*	a (4)	***	. 1		l w	vbich	thre	ougho	The chief executive difficulty was to keep the sudden freshes, as also from the water above, ut the dry season stands from 8 to 12 feet above ks on which the foundations of the work are laid.
	dunjerabad Ghaut Road,	and	C				u of	the	Lengt			-	•	٠	•	1	32,481	-		•					Expe				This line leads from Munjershad, in the Mysers country, towards Mangalors wid Oope-
1 1	North Canara:	8 8	, ,	100				10.	a 8 .	8	8 10		Q.	12				99			e 3			185	2.				nungady. A few carts only have yet been on the line, owing to a part of it belog impracti- cable for cart traffic.
		and		,4	•	-	-	•	Length,	30 mile	es -	١.	•		•		12,819	_	- 1		•	•		Ju	ie 185	51		•	This line leaves the old Sirces and Neel- coold road in the Baldghat of North Canara,
27		4	a (5)	9			* *	1		S:	*		1	±	(8)			S.	î		ber was	norti	of Norsell	eelco nd nui d by e llocks	ond ; linha erts c	early	y in i requ sying et wi	1848 ired i cott th at	d over the ghauts at Davamunny, a few miles to it was first passable for carriages, but us a num- ridging, it was not nutil the end of 1849 that it ou from the interior. Numbers of those vehicles, every turn of the road. One large bridge and juired.
23.) C	Coloer Ghaut -	-				•	-	•	Lang			-	٠	-	•]		8,000	-	•	•	-	-	-	Con	mplet	ed 1			Nearly midway between the Munjershad and Davamunny Ghauts. When complet d,
25		11			8			621 74 87	eombeac					1			x 5.00	. •	•	11	the	foot	oor, S of the	hikar ghau enera	poor, it to t	and Coon	dapo f the	or an	the roads above the glaut will lead to it from and below; junction lines are in progress from d to Byndoor, a small portnearly due west of the line of road has been selected, and though not unidered very easy for bullocks and horses.
- 1	trovie Ghaut and lin road from Yeliapoor Meerjan.	e of	• •	•	•	98		•	Length,	is mile	e s -	-	*				8,091		-			•						•	The slope of this road is very gentic, and easily practicable for bandles; it is being car- ried on from between Soonkeal and the River Gurgawally. A branch line to Aucola, about 15 miles in length, is baing surveyed.
	Mangalore and Agoo Boad.	шЬу		•	-	•	٠	٠	Length,	30 mile	es •		ugge	rn par r distr			5,6 91	-		-	<i>::</i> ●	•	•	1-	•	. 1			Leads through Goorpoor, by the foot of the Agoomby Pass, to the southern parts of the Nugger district of Mysore. This road has been
. *				25				•		7 ₂₉₀ 11	$p \cdot k_0$		3	ői.	8 0 (•		. 1		·		•					2.5	made practicable for carts as far as Yenna, Nolay, Mutt, and will probably be made so throughout, during the next working season.
	lircy and Darwar : bridges.	baor		-	•		-	-		•		-		•			15,668	•	• .	15,72	4 rap	Dee s -			Com		d, se		- To complete the line of road from Sircy to Darwar district frontier with substantial bridges. The span of the largest of these
. ; ;		3.		10. ₅₀	:	6 s	1.		17.7.7	•	? .,					: -	•		•	: "	18	otler	that	from	the s	erint es ce	ende est	at C	bridges. The span of the largest of these litt in 1845-49, is 42 feet; the road beyond the fit the Bombay officers. It is expected by season compta to Darwar the road will be practicable ges.

No. 9.—Particulars of some of the more Important of the Works executed under the Madras Civil Engineers' Department, in the Years 1848 and 1849, &c.—continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination,	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
THIRD DIVIDION CONCERN	ed.		8 E 14			VM	
· North Canara—contin	ued.			Re. a, p.	Re. e. p.		
(27.) Caseergode and Scoles. Road.		Length, 29 miles; commenced 1849-50.	Jaulsoor	1,845		Next working season	This is a branch line from the sea coast at Cassergode to Janisoor, near Scoles, about 12 miles from the foot of the Simpajee Chaut;
g si k	* , ,	•	8 B	* 2 2 16 2 2 2		the other lines good deal of t	road work has been completed. Like most of s leading from the coast towards the ghauts, a blok jungle has to be cleared away, and many is surmounted.
(28.) Oopeningady and Pootoor Junction Bond,	- • • •	Length, 8 miles; commenced 1849–50.		1,175			The estimate does not provide for any ma- soury works, with the exception of a few small tunnels; the larger nullahs have been tempo-
			,	8 a a		Owing to the and the rocky	with trees, cut down in the neighbourhood, depth of water at the ferry at Oopennogady, bed at other parts, carts will not be able to being unloaded.
(29.) Yellapoor and Moondagode Road.	To connect the Darwar and Sircy line with the top of the Ar- byle Chant.	Length, 25 miles; commenced season 1849-50.		1,269		- *	The main obstacle on this line is the Baidti nullah, which will be bridged.
(30.) Yellapoor and Halliani Road.	To connect the northern parts of the Scopan Talook with the head of the Arbyle Ghant.	Length, 30 miles -			4,625	Expected time of completion, and of April 1851.	- The line twice crosses a large nullah, over which wooden bridges will be erected.
(31.) Honore Jetty	As a breakwater to protect the custom-house and adjoining ware- houses from encroachments of the sea.			1,708		Completed 1848-49 -	 Appears to have fully answered the purpose. The wharf, walls, and other conveniences for shipping and landing goods have been much improved.
(32.) Road from the foot of the Agoomby Chant at So- mainhear to Bujjay.	- Completed for the purpose of connecting the Agoomby Ghaut with the head of the navigation of	Length, 18 miles -	Bujjey	4,479	4,485	Completed; date not given.	Estimates for bridges are being prepared.
	the Nullah (Savourna Nuddy) which runs into the backwater two miles south of Bramahwar.		1020 FRAS	* 1	e e m	and a second	
(33.) Boad from the foot of the Agoomby Chant, at So- maishwar, to Halandee,	For the purpose of connecting the foot of the Agoemby Ghaut with the head of the navigation of the large nullahs running into the broad back water east of Coonds- poor.	Length, 15 miles -	Halandes •	3, 274	2,239	Completed ; date not given.	- This road has been made practicable for carts throughout.
POURTH DIVISION. Chingleput:					3	£ 5	
(34.) Embankment, channel, and bridge across the Wotalry Nuliah.	To divert the waters of the nullah into the Coun River, to prevent them, as hitherto, over- flowing the Perambore lines, near	Length, 492 yards -		1,441 11 -		Completed 1849 -	The work is considered a great boon by persone in Perambore.
	Madras.	** · · · · · · · · · · · · · · · · · ·	, ,				

		T = 1	1 1 1		s s
North Arcot:	d.			. 1	
(35.) Cauvery Pauk Tank repairs.	1	Length, 32 miles	• • • • • • • • •		- The bank of the tank is 35 miles in length, rayeted throughout, and is wil feet high in the inside. The revenue collected from entityation
1960 9 6 97 9 29 W 9					for the last 20 years amounts to 804,208 rapess; the repairs to 97,605 rapess.
(36.) Goonamadee Calingulah	- Built in the supply channel of the Cauvery Pank Tank, at a place where it was continually being		- ±,516		- This is a satisfactory work. This mork was very necessary; the Cauvery Pauk supply channel is now in good order.
for the same of the same	breached.			850	,a
(87.) Notairy Otairy Calingulates			s.009 s.400	not stated.	The work has been almost entirely rebuilt; the wing wells are 28 feet high; the apron is cutirely of dressed granite.
(38.) Calavaye Tank Callogu- lah.			- 1,589	1	- The surplus water from the calingulah of this tank has an overfall of 11 feet; the apron,
SIXTH DIVISION.	a	9 4 5			which is 5 feet thick of solld stone and shunam, with a good rear retaining wall, and covered with dressed granite, has been rebuilt in a most substantial manner.
(39.) Improving the Vaddaveur River in the Paupana- som and Manargoody			- 5,985 6,408	Completed; date not stated.	The Vuddavaur branches from the Ven- neur River about 10 miles west of Tanjore, and brigates an extent of land equal to 7,014 acres,
Talooks.	***				part of the river course has been colarged, and several sharp bends cut, the result of which
					has been highly satisfactory.
(40.) Improving the Naminga Cauvery River in the Put- tacottal Talook.	Per irrigation purposes		. 9,190 2,196		- This river branches from the Vellaur, and irrigates a great extent of land, principally on
	· · · · · · · · · · · · · · · · · · ·			a As a g	shrotrium leaure, but of which 1,183 seres yield a revenue to Government of 5,103 rupees. Owing to freshes throwing sand into the brunch, the cultivation had suffered greatly
	* *			1997	for want of water, and the bed was deepened and widened to increase the supply.
(41.) Bridge over the Araselsur River, on the road from Madras to Negapatani.			5,632 6,595		- The bridge is of five oval arches of 30 feet span. The foundations are of wells filled in with cubes of brick masonry, and resting on
sid Mayaveram and Shealey.					sand; the rest of the work is formed of brick in chanse. The road is 24 feet wide, including the parapote.
(42.) Bridge over the River Frimulrajen on the same word.				not given.	- This bridge is of five oval arches of 38 feat span, and re-mahles the Arcschaur bridge in all respects, excepting the foundations, which con-
					sist in solid blocks of brickwork resting on a firm bed of clay.
(43.) Bridge over the Veerasho- len River, on the road from Combaconum to Tranquebar.		Commenced 1848	2,217 9,510		- This work was commenced and finished in 1848. The foundations are of solid brick masonry, and the superstructure of the same material. The width of rosetway, including paraputs, is 24 feet. The utility of this bridge
9 8 80 80 80 80 80 80 80 80 80 80 80 80 8					has been very great in facilitating the export of grain from Tranquebar.
# T. T.		NO 10 10 10 10 10 10 10 10 10 10 10 10 10			100 Vac (#35/2007/80 f2

No. 9.—PARTICULARS of some of the more Important of the Works executed under the Madras Civil Engineers' Department in the Years 1848 and 1849, &c.—continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Istended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Timp of Completion.	REMARKS.
Array Directortin			•			x* 140	
Tanjore—continued.	1			Re. a. p.	Rs. a. p.		
(44.) Head slaice of the River	To regulate the supply of water -	Commenced 1849 -		3,106	.3,143	Completed 1849 ,-	The Shembu Cauvery branches from the
Shemba Canvery.		- 1		7		Composite to the second	left bank of the Vennaur, four miles from Tan-
a " a					consisting by ample faced wit	of five vents each six fe wing-walls, and secured	jore, and irrigates 3,903 acres of land, vielding guinte the supply of water, the sluice was built, et wide, divided by piers seven feet high, flanked by broad aprons in front and rear; the piers are aprons covered with granite; the foundations chunam.
(43.) Improvement of the Mer- calcurray River.	- To prevent the overflow of its banks in the rainy weather.	Commenced 1848 -		8,398	9,500	Completed ; date not given.	- The Mercalcurry is a stream in the south part of the Cauvery Delta, carrying off the drainage of 15,074 acres of irrigated land,
		e			Avarfage	d the lands west of its	pees; it had never been fully embanked, but chaunel. The bed of the river has been widened. The best results have been obtained.
(46.) Improvement of the Valavanaur River.	For deepening and embanking its channel.			3,672			- The Valavanaur is another great draining channel of the Tritrapoondy Talook, and dis- charges the surplus water from 12,641 acres of
					lying between a banked, a struction.	veen Point Calimere and ad the lands were expose The estimate was sauct	f 42,609 rupees, into the great southern swamp i Adrampatam. This river had never been em- ed to constant inundation, and the crops to de- ioned for deepening and embanking the channel se for its discharge into the swamp. The par- antly performed.
(47.) Bridge over the River Corayanr, on the road between Tritrapoondy- and Mootoopettab.	- To facilitate the export of grain from Tritrappondy Talook by the sesport of Mootoopettah, on the southern coast.	:		6,341	6,400	Completed; date not given.	 This bridge is of five segmental arches of 32 feet span. This bridge has proved a valuable addition to the means of communication.
(48.) Bridge over the River Cuddaveyaur, on the road from Negapatam to Point Calimere, in the Keevalore Talook.	- To connect the villages south of Negapatam with the port of Negapatam, as well as to facili- tate the communication with Ceylon by the cost road.	Commenced 1848 •	* * * * * * * * * * * * * * * * * * *	7,530	7,867	Completed 1849 -	- The bridge is of three segmental arches of 35 and 30 feet span across a tidal river. The bridge was finished in a satisfactory manner, and has proved a most important improve- ment.
 Bridge over the Nun- daiam River, on the road between Tranquebar and Negapatam, in the Tran- quebar Talook. 	Was built in consequence of the great increase of traffic between Tranquehar and the ports to the southward of it.	Commenced 1840		10,179	10,631	Completed 1849 •	- The bridge is of five segmental arches of 38, 35, and 32 feet span; the roadway is 24 feet wide. The construction of this bridge was conducted with the atmost vigour and efficiency, and its completion has conduced greatly to the comfort of a large trading population.
(50.) Bridge over the River Trimulrajon, on the road from Cembaconum to Negapatam.	- Built to open the communi- cation between the large town of Combaconum and the chief sea- port of the province.	• • •		5,202	6,458	Completed	This bridge is of five segmental arches of 30 feet span; the foundations consist of solid brick masonry; the piers and the arches of the same material; the entire work was completed within five months in a perfectly satisfactory
e o					3 de fe		manner. The width of roadway is 24 feet, including parapets.

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9	(51.) Bridge over the River Mondecondam, on the same road,				3,841	4,594	Completed	- Of similar construction with the former bridge, except that it is partly funaded on walls.
987.	(52.) Bridge over the River Pootage, in the Cadavas- sel Talock, on the same road.		• • •		a,030	8,944	Completed	This bridge is similar in construction to the above. The advantages resulting from the con- struction of these three last-meatings bridges are fully appreciated by the traders and land- holders along this important line.
	(53.) Bridge over the Paumany Hiver, on the road from Combaconum to Blanar- goody.	Constructed to complete the communication between these two very large towns.	Commenced 1849 -		5,849	6,286 ~ -	Completed 1849	- This bridge is of five oval arches of 30 feet span; the foundations are of solid brick ma- soury, and the piers and arches, of stoliar material, were finished in a style of great efficiency. The work proves of the utmost convenience to the people, and being on one of the Buit rosale, subserver materially to the convenience of Government.
10	(54.) Beacon Column at Point Calimers,	- To distinguish this important position, where the shouls reader navigation peculiarly unsafe.	Commenced in 1848 -		2,733	2,763	Completed 1840 -	- At this point the shoals render navigation pacultarly unante. The structure consists of a plain Dorie shaft 80 feet high, but hollow, in order to be converted, if necessary, into a lighthouse; the foundations are of wells, and the material is brick in chanam, carefully plastered with a fine white surface; the base is faced with stone to a height of three foot, to secure it from the action of salt.
22	(55.) Beach defences at Tran- quebar.	- • To protect the town of Tranque- bar from encroschments of the sea.			5,059	5,105	Completed	- This work is effected by means of groins and planking and pile work.
ಶ ಟ	(56.) Improving the Port of Negapatam. Trichinopoly:		Commenced in 1840 -		9,009	9,500	Completed 1840 -	- The work consisted of the excavation of a new channel for the Carldavagur River to bring its whole volume of water to the sea at Negapatum, and the construction of a small and rade jetty to restrain the mouth of the river and facilitate the shipment and landing of goods. The result has been great increase in the trade of the port.
.	(67.) Improvement of the Wey- acondson Channel.	Clearing 25 miles of the bed of the channel.	Length, 33 à miles -	17 h miles east- ward of Trichinopoly.	19,748	14,090	Completed	- The channel is led off from the River Cauvery, 10 miles west of Trickinopoly, and flows, including elanosities, 384 miles; it frights land to the extent of 0,281 acres. The channel has been deepened and widened, and the result is highly autisfactory.
	(58.) Rebuilding of Dark's Bridge across the Weys-	In lieu of old bridge, de- stroyed.		Trichinopoly	2,656	3,110	Completed	This channel was crossed near the town of Trichinopoly by an ancient native bridge, or
84	condaun Channel.		**************************************	n u s	192 1	most injust town; the	rious to the cultivation of	struction to the free flow of the water, and was dependent on the channel to the sustward of the l, and a new bridge constructed of three segmantal he width of the roadway is 40 feet. The effect meficial.
8	(59.) Extending the Covellay Burplus Channel.	For Increasing the facility of irrigation.	Commenced in 1848-		2,718	2,000	Completed 1849 -	- The drainage of 1,455 acres of Irrigated land was much impeded by the high level at which it was discharged through the Covellay Channel into the Vennaur. The channel was prolonged a mile and a haif, by which a fall of nearly
				19 E	10			four feet was gained a dam was also construc- ted for the irrigation of the lands of Killioor. (continued)
				50 NA 13		8	Vi.	,
	A 907						525	

No. 9 .- Particulars of some of the more Important of the Works executed under the Madras Civil Engineers' Department in the Years 1848 and 1849, &c .- continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
SIXTH DIVISION— continue Trichinepoly—continue	d.	20 20 10 20 20 20 20		Rs. a. p.	Rs. a. p.		
(60.) Improving the Nadookurray Main Channel.	To prevent its being over-sup- plied from the Cauvery River.			8,701	9,258	Completed	- This channel, branching from the Cauvery on its north eide, irrigates the Island of Serin- gam. The head of the main channel has been extended 3 # miles higher up the course of the
			-				Cauvery, and a head sinice built there for regu- lating the supply of water. The sluice is a work of four vents of five feet each. The irri-
(61.) Extending the Rettena-	- To facilitate the flow of water for irrigation.			10,948 — —	11,278	Completed	gation of 4,021 acres of the Seringum island- will be materially benefited. This annieut is a work of native construction, which serves to carry the Peravally channel.
widening the Nuttud Nullah Channel,					and this, afte	r a course of 10 miles, in	(issuing from the Carvery) across the Oopaur, a large and violent torrent which rises in the sur the channel is called the Nottud Nullah, which it irrigates a large extent of land, finally
					nullah too na to the annicu	the Shengundy Tank. crow for the vast flood out is a solid brick in chu	The annicut was much too confined and the of water that occasionally passed. The addition nam wall 11 feet high, 12 feet thick at the base, 5, secured by an apron of stone 40 feet wide, and.
	For making the road suitable for traffic at all seasons of the	Commenced in 1847		8,683	a wing wall o	of ample dimensions. Completed 1849	- The chief masonry works consisted of nine bridges, with an aggregate of 14 arches, varying
	year.			.e.			from 9 to 18 feet, viz., of a bridge of one arch of 18 feet span across the Kistnarayapoorum irrigating channel; another of one arch, 12
				ાર્થી લ ક ક	span, across gating chang door channe	the Pillapolliam surple led of the same village; l. near Waddium; and	urplus channel; a bridge of three arches, 10 feet is; and one arch of 12 feet span across the irri- a bridge of one arch, 18 feet, across the Mu- ther, of 14 feet, over the same channel near set, across the Nunga Voikal irrigating channel;
		(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c			one of two as was widened Other addition	ches, 18 feet, across a s by 31 i feet by the cons	surplus stream. The roadway of the head sluice struction of three arches of 12 feet average span, ad tunnels have been constructed. This road is
(63.) Gaol at Trichinopoly	- To provide space for more pri- coners, the old gast bring inade- quate in space, and defective in		Trichinopoly	14,441	15,975	Completed -	- The old gabl was inadequate in space, and defective in arrangement. The new building is calculated for 500 prisoners, including sick.
	arrangement.				feet high. 7	he drainage and water	The buildings and arranged in a double row, The gool is surrounded by a boundary wall 15 supply are complete. This gool has been very al and medical officers of the station.
(64.) Improving the Peravully Channel.	For clearing the bed and strengthening the banks of this great channel for about 15 miles.			4,604	5,113	Completed	- This channel branches from the north side of the Cauvery above the apper Colcroon An- nicut, and its main stream irricates 9,737
			я ²		•		acres, yielding 54,552 rupees. The hed has been cleared, and the banks, for 15 miles, strengthened.

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(65.) Improving the Pungoony Channel. (66.) Improving the Vitticutty Main Channel.	- For widening and deepening its channel.	Commenced in 1847	2,535 - 2,581 - Completed 1649 - The Pungeony Chennel is a branch of the Pernvully, and acts both as a draining and irrigating channel. The land dependent on it is about 6,201 serve, producing a revenue of 22,162 repost. The result of the improvements has been a great improvement in the state of the cultivation affected by it. 2,077 - 2,424 - Completed in 1849 - The land irrigated is a comparatively narrow strip, about a mile and a full in width, but its means of supply are shundant. A new
		**	branch channel from the Cauvery has been cut, and the main channel for 8,000 yards widened and embanked. An old states has been enlarged, and a new one constructed; the new sluice has two vents of five feet each.
(67.) Bridge over the Cauvery at Trichinopoly.	* * * * * * * * * * * * * * * * * * *	- February 1846; length, 1,869 feat.	97,414 - 99,146 - Completed 1849 - "- This bridge is of 32 elliptical arches of 49 feet span. The work was commenced in Refert span. The work was commenced in Reductive 1846; in February 1846; in February and April 1847 the works were destroyed by floods. In 1849 the
		6 N	bridge was opened for use. The foundations are on well sunk that feet below the bed, which is sand. The plers are 7 4 feet average thickness, 8 4 feet high, and the rise of the arch 12 4 feet; the width of roudway, including parapets (one foot thick) 97 feet; the total leighth, from wing to wing, is 1,682 feet; the material throughout is brick in chunam. Average daily traffic in October 1850, foot passengers, 9,081; carts and carriages, 223; bullocks and cows, 484; horses, 20.
(68.) New road from Trichino- poly to Towagoody, the first stage to Tanjure.		April 1849; length, Towagoody	17,078 The old line was very circuitons, and in had order; a considerable extent of the land to be traveraed is under frigation; and the Ways-condann channel crosses the line three times,
			besides other unfordable irrigating streams. Operations commenced in April 1840, and by the end of that year the following massonry works had been completed: Two bridges, each of three arches of 26 feet span, across the Wayscondaun; one bridge, of three arches, 20 feet span; one of three arches, of 16 feet, across the Coveily surplus channel; one bridge of three arches, of 12 feet, over the Killy Yolkal (irrigating channel): a sincle arch of 24 feet span over the Betta Volkal.
			au arch of 12 feet over the Tadenvyal surplus channel; besides 27 tunnels, varying from one and a half to eight feet span. The length of road relaed and gravelled through paddy fields is three miles, and through dry lands six miles. The road was opened and used in 1840 (though not quite finished); It facilitates the access to many villages surrounded by wet cultivation and watercourses, which previously cut them off from the great local market for their produce.
(69.) Constructing part of road from Trichinopoly to Arriadoor.			2,186 The portion of road extends for 11 mile scross a sheet of irrigated land; and the massonry works include a bridge of five arches neroes the Codyaur, and one of three arches over the Pungnony. In 1849 the earthwork of the road was fluished and covered with sand; seven tunels and three small bridges of variety.
(70.) Improving the road from Trichinopoly to Laul- goody.		Laulgoody	one dimensions were built. 1.847
	(68.) Improving the Vitticutty Main Channel. (67.) Bridge over the Cauvary at Trichinopoly. (68.) New road from Trichinopoly to Towagoody, the first stage to Tanjure. (69.) Constructing part of road from Trichinopoly to Arrialoor. (70.) Improving the road from Trichinopoly to Laul-	(68.) Improving the Vilticuity Main Channel. (67.) Bridge over the Cauvery at Trichinopoly. (68.) New road from Trichinopoly to Towagoody, the first stage to Tanjure. (69.) Constructing part of road from Trichinopoly to Arriahoor. (70.) Improving the road from Trichinopoly to Laul-	Commenced in 1847 - (66.) Improving the Vitticuity Main Channel. (67.) Bridge over the Cauvery at Trichinopoly. (68.) New read from Trichinopoly to Towagoody, the Aret stage to Tanjure. (69.) Constructing part of read from Trichinopoly to Arrialoor. (70.) Improving the read from Trichinopoly to Laulentee Trichinopoly to Lau

No. 2.—Particulars of some of the more Important of the Works executed under the Madras Civil Engineers' Department in the Years 1848 and 1849, &c .- continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination,	Amount of Expense Incurred.	Estimated Amount Probable Time of Completion.	REMARKS.	
SIXTH DIVISION—continue	NOTIN	-	A	Rs. a. p.	Rs. a. p.	y ve ve	
Trichinopoly—continue					a l		
 Widening the Vuddavaur River, and forming a dike on its left bank in Manar- goody Talook. 	To improve the means of irrigation.		• • • •	3,050	3,058 - Completed -	- The Vuddavaur River branching from the Coleroon, supplies the great Veeranum tan and irrigates about 40,000 acres, yielding 2,00,000 rupees. The channel has been widewed to	
6 85 ₄		:* <u></u>	* * * * * * * * * * * * * * * * * * *		a distance been the re	of S‡ miles, and a dike constructed; the result h sumption of cultivation on 85 acres of land previous and the far more abundant supply of water to t	
ı				1	птідалей и		
Coleroon to the limits of	To force back a due proportion of the current lute the southern branch.		• •	3,230	8,284 Completed -	- The Coleroon divides into two branches short distance below the ferry on the ros from Madras to Tanjore, the southern branches	
iduorum lanok,					great draught of the northern the southern branch, for which provide in height was thrown sort	I up with send. It became necessary to check the combine of the current in unpose an embankment 400 yards in length and fiss the northern stream, with a view of the addition	
- 1	-		535		stream thrown into the southe	n channel clearing out the sand by which it were mained firm until the extreme freshes in Ju-	
v tit eng				180 A S	mb as mas expected is sent	breached: after having had the most decided eff	
* 4	e e e e e e e e e e e e e e e e e e e			20 20	in restoring the proportions of considered final.	the two streams; but the operations could not	
) Improving the road be- tween Manargoody and Chellumbrum.	- Por completing the road as	Length, 12] miles -	Laulpett	4,890	5,981 Completed in 1850	subject in many places to inundation, w	
			· .			impracticable for all wheeled carriages, a very difficult even for bullocks. The distan- formed under this expenditure is 121 mi	
e e 2		0.				in both talooks. There are 16 masonry tunn- varying from one to three feet.	
Laulpett, through Manar-	- Raising and forming the road for six miles, and constructing seven tunnels.			9,717	2,799 - Completed -	- This is a much frequented road between the district of Tanjors and South Arc The road has been raised for six miles, a	
			· ·	, 		seven tunnels of three feet span constructed.	
said's channel, on the road	To enlarge the waterway	Commenced in 1849 -		5,233	8,244 Completed in 1849	The bridge was injured by a flood in 184 while unfinished, and it was found necessar	
between Manargoody and Chellambrum,			(A) (2)		** **	to enlarge the water-way. It has one so mental such of 40 feet span, and was complet in 1849, in a very satisfactory manner. T	
			(i)	SF)		foundations and superstructure are of so brick masonry; breadth of roadway 19 feet.	
Bridge scross the Nundi- mungalum Oppersur River, on the road be-	To obviate the difficulty caused to the traffic.	Commenced in 1848 -	• • • •	16,077	16,170 Completed in 1849	into the Coleroon; it always caused mo	
tween Cheliumbrum and Sheally.					niam 10 feet - plea of the prob 19 f	_Al serious difficulties to the traffic. The bridg f 49 feet span, was fluished in 1849; height of the set; breadth of rondway 24 feet, including parape has resulted to the extensive traffic on the line.	

SEVENTH DIVISION. (77.) Perambuldy Pass. Line from the frontiers of Coorg to the Coast at Campusors.	To connect the great western trunk road from Madras with Caonanore, with a branch to Tellicherry, on the western coast.	part are most will keep the remodelled. 3,400 feet in There is no co estimate cove a distance of tary point of on the Weste the trude will and the town	dangerous, from the fevers which infest then people to their work, and the Ghaut is so significant water and the Ghaut is so significant from 10 miles, the inclination varying from 1 in 10 uniterslope in any part of the line, and only set the cost of the road above and below from the 30 miles. There is a year's work at least to be view, as an approach to Cannanore, which is rn Coast, but the port at which a force could be very great, and the benefit accruing will be of Tellicherry.	It is stated that, in 1842, there was no tolerable road from the interior to the great trading town of Tellcherry, or to Cannanore; the only road practicable for wheels being, by spt in such condition as to be used by bandies upying a third of the year. The roads on this is, and in consequence of which no inducement toward in a narrow gorge, that it could not be a the level of Coorg to the plain of Malabar of 8 to 1 in 24, with a very short grade, 1 in 16, a few yards of level. Healdes the Chant, the e frontiers of Coorg to the station of Cannanore, se done. Hesides the value of the line in a milimot only the principal cantonment and arsenal be best collected for embarkation on steamers, a felt, both by the Astagan division of Mysore
(78.) The Calicut Canal (Melabar).	1st Work. The Pyolee Causl, to enable boafs passing down the Cottinddy River to land their cargo as the port of Vuddagherry. 2d. To connect the Ellator and Beypoor backwater by a cutting, six miles. One great object of the navigation is to take the rice of Southern Malabar to the talcoks in the north, where pepper is the produce. No. 4. To units the Beypoor River with Ponany, and that town will have an inland water communication with Calicut and all the coast towns as far as Vuddagherry, within 12 miles of Tellicherry, a distance of 60 miles.	No. 3 Work- 18,429	No. 2 Work - No. 1 Work - Completed in 1848.	- 3d. Calient Canal. The executive diffi- culties were a rapid and destructive stream, that in the freshes left the Tambercherry River, and flowed into a small lake through which the navigation had to pass. The entiting was through two parambas, or high laterita ridges. The forcible stream from the Tamber- cherry threatened to term the whole current, should it be allowed to flow into the lake, and make its exit by the northern entrance of the canal. This breach was therefore closed, since which much of the lake pas been reclaimed for cultivation. No. 4. Tannour Canal. The work is progressing, but hus been delayed by a bed of sand of the finest description, 30 \(\frac{1}{2} \) feet in depth, having been met with.
(79.) The Yanudmuckle Apron (80.) Hassanoor Ghaut	- To fit a great portion of the bed of the lake for cultivation, which would otherwise be under sait water for six months in the year. - Originally traced as a substi-	about 40,500 23,271	September 1849	The works copsist of an earthen embankment 550 yards in length, and a calingulah 110 yards from wing wall to wing wall; their effect is to exclude the tide water while the drainage of the country has a free passage to the sea. The dam was destroyed in 1840, in consequence of the piles baving been in many cases cut six feet shorter than was planned; the loss by this failure is extimated at 8,758 rupees. A new project has since been sent in for a dam near the sea, on a more secure section and advantageous site. This work was left for two years un-
	tute for the Guzzlehutty, an ancient pass between Mysore and Colmbatore, too steep for wheels.			touched, in consequence of the great loss of life fever had accasioned among the work-people. This road will be of value to the towns of Mysore, Coimbatore, Trichinopoly, and perhaps Modura, by giving them an easy communication suitable for carts. (continued)

No. 9 PARTICULARS of	some of the more Important of the	Works executed under the Madras Civil Engineers' De	epartment in the Years 1848 and 1849, &c continued.
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NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount. of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion,	REMARKS
SEVENTE DIVISION—conf. 81.) The Toppacandoo Bridge	nucd.			Rs. a. p. 3,000	Re. a. p.		Over the River Moydur, a main branch of the Bowany, and tributary of the Cavary, having its source on the Neigheries, its course follows the line of the mountains, its
		. 4. J,		deep an to 3,000 conseque of the s rapidity scaffold	nd precipitous ravine 1,0 to feet spart. This curio wence of the loss of life f simplest form, and prepa y. The centring was of t	00 feet deep, the oppositus feature in the plain is reaffer when the bridge red of teak timber at Ho he rudest kind; a few so ogether did all that was ogether did all that was	untry, while a few miles lower down it forms a esides of which are not more than from 2,000 known by the name of the Mysore Ditch. In go was first erected, the new bridge was made concor, to be put together with the greatest nell straight trees were cut for uprights, and a required. Span of the bridge, 69 feet; beight
(82.) Examination of the An-		Commenced 1849 -					This forest was begun to be worked on ac-
tamullay Teak Porest. EIGIITH DIVISION. Madura.			8 H *		cubic toot, a	is has cost the Bombay (pated in 1849, was the	ount of Government in 1840; it is stated that any, ou the western coast, for half a rupee per government hitherto 2½ rupees. The only difficult of men sufficient to cut the 100,000 veral departments in Bombay and Madras.
(83.) New Bepoy Lines in the town of Majura.		Commenced in 1847	* . * * *	6,090	6,090	Completed in 1848 -	- It was deemed advisable to substitute for the thatched huts formerly occupied by the detachment of Native Infantry at Madura, a superior description of house with tiled roo
			H				and yard in rear, to be in keeping with othe parts of the town, also for the prevention of fires, which were of common occurrence. The new lines have a very near appearance, an are exceedingly airy and healthy.
(84.) Improvement of the drain- age of the town of Madura.		Commenced in 1848		2,586			- The drains are constructed of old for stones (granite), backed and covered with brick in chanam.
(85) Improvement of road to, and construction of a bridge over the Oopaur River on Road No. 5.		Commenced 1846- 47.			2,903		- The bridge is of three arches; centre arches teet, and side arches each 12 feet.
(86.) Bridge across the Head of Thiroopoovanum Channel.	• • • • • •	Commenced 1846 -			1,815		- This bridge is of three arches, but was not quite completed.
(87.) Repairs to Road No. 2, be- tween Dindigui and Pulucy.				6,491	6,519	Completed in 1849	- The repairs provided for in the estimate are confined principally to 4 ½ miles of black cotton soll, between the villages of Chuttra putty and Caunscumputty. The read is pu
(68.) Panlaur River Wagga- nies.	With a view of straightening the course of the stream, and thereby preserving the topes and cultivation on the right bank of the Panlaur from injury during high freshes.	Commenced in 1847		1,990			in very good order.

(continued)

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(89.) Restaration of the Cooner Annicut.	- For restoring the annicut to an efficient state.		1,975		Completed	The cultivation under this annicut had fallen off to a considerable extent for want of sufficient water, the body of the annicut being in a lenky state, and the head of the channel too confined. The materials and workmanship were of good quality.
(90.) Rebuilding Causeway across the Vigay River.		Length, 1,095 feet -	1,173	3 15 -		 The method pursued has been to place three lines of stone endwise, to serve as retaining walls to the pavement, and prevent the stand being removed from under it; the spaces filled up with rubble in cement.
(91.) Supplying channel of Vad- dukurray Tank from the Percanat on the Vigay River.		Commenced in 1849 -	1,720	0		- The estimate provided for raising and widening the right bank and for repairing six sluices of irrigation in the same, besides sundry other items for masonry work.
(92.) Cotton Gin-house at She- vacausee, in the Sautoor Talook.	- To accommodate two (2) 60 saw-gips worked by cattle, and three (3) hand-gips.		2,685	5 2,0	399 Completed	- The materials and workmanship were favourably reported on.
(93.) Bridge across Nully Oday, on the high read from Madras to Quilon,		Commanced in 1846 -	2,087	7 4,0	001 Completed in 1848 -	- The bridge is of three erches of 30 feet span each, and its construction has been of great service to the traffic of the district, par- ticularly to the cotton bandies.
(04.) Floorings to six of the arches of the Ambasa- mooduram bridge across the Tambrapoorney river.			1,299	3 3,5	205 - Completed in 1848 -	- The dip or versed sine of the flooring is three feet, and the spun of the arches 45½ feet. The work was carried into effect in a satisfac- tory manner.
(95.) Repairing high road No. 4, from Madras to Quilou, in the Ootspadarum Talook.		Commenced in 1848	5,811	-7	1011 - Completed in 1949 - Level of the country with soil from the of broken stones nine inches in thicknes thickness. This plan is found to answer.	- The natural soil of the road is "black cot- ton." The principle of construction is, first, to raise the road half a yard or more above the side tranches, and to place thereon a foundation as, and over them a coating of gravel of the same or well.
(96.) Reconstruction of the Thimmarajasamoodrum Cooteecan annicut across the Monucemoolaur.	- Its reconstruction appeared likely to be less expensive in the long run than partial repairs.		2,480	2,4	598 Completed	The body of this annicut was in a very leaky state, and the foundations undermined. The foundations were of brick in chunam laid on rock, at the depth of 24 yards, and the budy of the annicut above of the same material, faced with cut atone.
(97.) Restoration of the Thirtagul Percacolum, in Santoor Talock.	,		1,427	7 1,1	525 Completed 1847-48 -	- The tank bund has been raised, and a breach closed at the south end by a wall of rough stones in chunam. Since the repairs, the tank has been yielding a revenue to Govern- ment.
(08.) Repair of the Thenthera- pairee Head Sluice, in Streevigoontum Talook.	- 		2.700	2,7	09 Completed; date not given.	- This work serves to supply water from the Tamtrapoor River to 1,070 cotays of land, yielding a revenue of 23,031 rupoes an- nually. The foundations are of brick in chu- nam, laid at the depth of nine feet on stiff clay.
(99.) Nenmany amicut chunnel and tank in Sautoor Tu- look.			1,070	0 1,5	272 Completed; date not given.	- The annicut was breached by freshes in 1847, to close which effectually it was neces- sary to extend the annicut for a distance of 44
ė.	(2) (4)		X 888	,	of 16 yards required to be raised, also	with the head of the chunnel; a further portion the channel and tank banks and reverments re- cut is of rough stone in chunam, floored on top

No. 9.—Particulars of some of the more Important of the Works executed under the Madras Civil Engineers' Department in the Years 1848 and 1849, &c.—continued.

NAME OF WORK:	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	RRMARKS.
Elegan Division—confi	nued.		*	· _			
Madura -continued.			190	Rs. a. p.	Rs. a. p.		
(100.) Cunnadien Channel, from an annicut across the Tambre poorny, in Shair- madevy Talook.				2,136	2,231	Completed	The banks were raised, and the bed of the channel cleared, several sluices repaired, &c. The channel is one of the most, if not the most valuable work in Tinnevelly, yielding nearly two lace of rupces annually to Government,
(101.) Tinnevelly Charnel, from the Sootamullay Auni- ent, across the Tambra- poorny.	With the view to the preserva- tion of existing revenue, which, in Pusly 1258, amounted to 63,942 rupees.		-	1,118	1,123	Completed, 1848 -	The repairs were similar to the above.
Tinnevelly:		-					
(102.) New Sea Custom-house and Master Attendant's Office, at Tentacorin,	- The former Sea Custom-house having been found insufficient for the wants of the port of Teutneoria.	Targa Mari		2,338	. 2,339	Completed	* The former Sea Custom-house having been found insufficient for the wants of the port of Teutacorin, has been transferred to the post-office department. The master attendant's office and the customs and sait department are under one roof, with verandahs front and rear. The material is sandstone in chunam.
(103.) Talook Revenue and Po- lice Cutcherry, in Stree- vigountain.	The want of a good cutcherry at Streevigoontum was very much feit.			2,521	2,782	Completed -	Constructed throughout of burnt brick in chunam, with tiled roof, in the form of a pa- rallelogram; length, butside, 91½ feet, and breadth, 53 feet; contains one room for Tamil and another for Hindoovee records, with a room for prisoners under examination. The treasury room is a separate building, in the centre of the inner court, with that terraced roof, and iron-barred door.
(104.) Repairs on the high read from Madras to Quilon, in several Talooks.					1,704 7,786 5,668		- The estimates provided for constructing payements, open drains, and tunnels. Their construction has been of great service to the traffic on lines, of which a part has been made available thereby for wheeled conveyances during the rains.
(105.) Mailscul Channel, from the Mardoor Annicut, on the Tambrapoorny River.				1,048			*- This is one of the most important irrigating channels in the Tinnevelly district, the annual revenue derived from it being about 1 \(\frac{1}{2} \) lace of rupees. The breadth of this channel was insufficient; the first \(\frac{1}{2} \) miles \(\frac{1}{2} \) furious and 170 yards of the channel's course had been widened to an average breadth of 14 yards, and the bed cleared of rock.
(106.) Paupancaul Channel, from the Carapanuddee.				1,017	1,186	Completed	The bed of this channel has been widened, and cleared of rocks and deposit. The numerous tanks dependent on it have been rendered more effective, especially the large tank of Veersakamanee, in the SunkermarcovilTalook, the crops under which frequently suffered from drought, owing to the bad state of the channel.

No. 10.

A STATEMENT of Expenditure on Works of Irrigation, Roads, Bridges, and Ghauts in the Collectorates under the Presidency of Fort St. George, for the years ending 1838 to 1847 inclusive, will be found at Page 166 of the Printed Parliamentary Paper of the Honourable the House of Commons, No. 622 of 1851, the total amount being 82,51,187 rupees.

The expenditure in the Civil Engineer's Department, and by that of the Superintendent of Roads, for the years 1848 and 1849, was as follows:

YEAR	B	BY CIVIL NGINEER'S PARTMENT.	BY DEPARTMENT OF SUPER- INTENDENT OF ROADS.	Total.	in gar a kajaman g
		Rs.	Rs.	Rs.	
1848	- •	13,17,192	1,54,627	14,71,819	Exclusive of ex- penditure on the Godavery Annicut.
1849	•	9,94,603	2,57,519	12,52,122	Conster A Williams

In a Report from the Board of Revenue, in the Department of Public Works, Fort St. George the total disbursement during the year 1850, on Public Works is shown Letter, 18 May to have been

(No. 2) 1853.

YEAR.	FOR WORKS OF IRRIGATION.	FOR BUILDINGS.	FOR ROADS.	FOR TRUNK ROADS.	TOTAL.
1850	Rs. 9,60,960	Rs. 1,05,516	Rs. 1,62,165	Rs. 3,52,523	Rs. 15,81,165
# #:		•			,·

Total	Expendit	ture for the	year 1838 to	1847 inclusive	. •	•	Rs. 82,51,187
	22	,	1848	, ,	٠		14,71,819
	, »	. 22	1849	- 39	-	-	12,52,122
**	. 99	. ,,	1850	, ,,	-	. •	15,81,165
Total	Expendi	ture for the	year 1838 to	1850 inclusive	•	Rs.	1,25,56,293

and 18th March (No. 10) 1836.

Reporting the adoption of a new system for the

Although these measures were not altogether approved

nevertheless requested, as they will prove of immense

PRESIDENCY OF

No. 11.

FORMATION OF THE ROAD AND TANK DEPARTMENT AT BOMBAY.

In 1836, the Government of Bombay represented to the Court the bad state of the roads at that Presidency; that the tanks and bunds also were under no effective supervision, and reported that they had instituted the Department of Roads and Tanks, which measure was approved of by the Honourable the Court of Directors in 1837, as will be seen from the following extract from their despatch to the Government of Bombay, dated the 2d of June in that

Para. 8. "The bad state of the principal roads Answer to Letters dated 28th February (No. 6) 1836, in your Presidency is attributed to the absence of systematic supervision, and to the employment of many persons on the same line, who are frequently improvement of the roads, tanks, and bunds of the without knowledge of road making, and have not time to look after the portion under their charge. Alt The tanks and bunds are also stated to have been of by the Bengal Government, the Court's sanction is

9. "The measures recently adopted to remedy these defects, consist of the appointment of one engineer officer as a survey will prove of immense benefit to the inhabitants, and greatly increase the revenue. The construction of a causeway to connect Salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a construction of a causeway to connect salsette with the Continent, at an estimated expense of a connect salsette with the Continent, at an estimated expense of a connect salsette with the Continent, at an estimated expense of a connect salsette with the continent of th engineer officer as superintendent of roads and the Court's sanction. tanks in the Concan, Poonah and Ahmednuggur

collectorates, to act in concurrence with the Collectors of Poonah, Ahmednuggur and the Concan, having under him two junior engineer officers, as assistants in each collectorate; and you propose eventually to place other districts under similar superintendence. There will, as you state, be some increase of expense occasioned by this plan, but no additional appointments will be required; the officers employed will not be diverted from their usual

duties, their operations will merely become more systematic and combined." 2. Under date the 10th August 1836, the superintendent of roads súbmitted

his first progress report under the new system, with a short description of the roads of the Presidency, from which it appeared, that there existed 449 miles of old roads, the repair of 211 miles only of which had been provided for, at a sanctioned charge of 36,449 rupees per annum. The only metalled road was that from Poona to Panwell (88 miles), being the only made road up the ghauts between the Tull Ghaut on the north and the Parr Ghaut on the south, both of which are nearly 100 miles distant, and both exceedingly difficult, indeed almost impassable for laden carts; so that all the wheel traffic from the Deccan might be said to be dependent on this line. In continuation of this line to the northern stations was the road to Ahmednuggur, but this had never been constructed on any regular system, cheaply patched in parts, and expensively though imperfectly built in others, partly under civilians, partly under contract, partly under engineers. The next in importance was the Great Northern Road, leading by Tannah and Bhewndy to Nassick; this "was constructed several years ago, but the line chosen presents so many difficulties, in the want of forage and water, and the extraordinary steepness of its ascents and descents, sometimes exceeding one in four, that it has become absolutely necessary for the furtherance of trade to improve the old, or construct a new route for the introduction of carts."

Tanks.

Of the old tanks, it was stated in 1836, "few are now in use for the purposes of irrigation, * * * they are choked with the yearly accumulation of mud; one, however (the Paste), has to be partially cleared out for the purpose of affording drinking water; and one (the Goreygaum) has been thoroughly cleared, and its sides built up to the height of several feet."

Bundaras.

On the subject of bundaras, it was stated, that "in the Ahmednuggur collectorate, particularly towards Nassick, every stream appears to have been most carefully husbanded in former days, not by damming it up in large sheets of water, but by merely throwing low walls across them, at distances of three or four miles asunder, and diverting the channel into watercourses for the purposes of irrigation after the close of the rainy season; of these bundaras many are in ruins, and very few complete."

On the receipt of the annual report for 1846-47, Sir G. Clerk recorded a minute concurred in by the Commander-in-Chief, proposing to abolish the Department of Roads and Tanks, and by incorporating its members with the Military Engineer Establishment, to provide a concentrated and general system of supervision and control over the entire Department of Public Works. The plan proposed to provide each district with a superior professional executive officer, in whom should be vested exclusively (subject to the general control of the superintending engineer of the division) the duty of originating and personally planning all public works of importance, he alone being responsible for their proper execution, his subordinates being merely required to work out the details under his instructions.

Sir George Clerk did not, however, remain long enough in India to carry out the scheme, and the Government of Lord Falkland deferred the proposed reforms until the Court's sentiments thereon had been declared. The Court's instructions were communicated to the Government of India in their despatch, dated the 30th January (No. 2) of 1850.

^{*} See printed Parliamentary Return of the Honourable the House of Commons, No. 622 of 1851, pp. 149, 150, and 153.

TABULAR S	STATEME	NT of the P	LINCIPAL	Works executed by the Bombat Road and Tank Department, from 1836 to 1850-51 inclusive, and by the Bomba	T ENGINEERS in the	2
30 20 #	1212	\$ C	046	Civil Branch of Public Works, from 1846-47 to 1850-51 inclusive.	ž. ±0	

*	NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred,	Estimated Amount for Completion.	Probable Time of Completion.	BEMARKS.
e)	Ahmedaugger to Secross -		Length, 16 miles	Beeroor 4	Rs. a. p Executed by con- vict labour.	Rs. a. p.	Formed prior to the year-1840.	This line was excellently completed in two seasons, under the superintendence of the Road and Tank Department.
	Ahmedougger to Melligaum		Laugth, about 10 miles	Malligaum - +	Executed by convict labour.	Re:	Finished in 18:0, with the exception of drains and bridges, but including a very difficult and extended ghaut.	Constructed under the superintendence of the Road and Tank Department.
	Akoordie New Road and Junc- tion Lines.	The Ounde and Panowlie and Bhojapoor lines will be abandoned on the completion of the Akoordia road, and the saving in repairs will amount to no less than 4,800 rupees per annum.	Length, 84 miles; sanctioned 25th No- vember 1847.		Executed under contract.	For Bridges 28,426 and Nulleles Rs. 46,858		- The rate of coat of this read may be accounted moderate for a metalled and perfect road in the Descan, considering that the country is almost always either undulating and intersected by numerous water-courses, or else composed of black soil, where the foundations of a road are an
						Or, 5,512 rupees per mile.		unavoidably expensive item. This road, commencing at the Dapoores Bridge, was stated to be in very good reput in Decamber 1849, but the traffic increasing, it became dreadfolly broken up during the hot weather, and it has subsequently been put into good order. In 1851 an expenditure of 8,938 rupces was sunctioned for increasing the
	Agra and Bombay Road - ~	See paras, 13 to 17 and 66	of Court's Despatch t	o the Government of	İndia, dated 30 Janusı	ry (No.°2) 1850, at p	ages 147, 148 and 153	rupces was sunctioned for increasing the width of the road from 20 to 25 feet, in consequence of the increase of carriage and cotton cart traffic. 3 of the printed Paper of the Honourable
	The Wakes Nullah Bridge, No. 1.	House of Commons, No. 622 of	1851. Commenced 1845–46		3,744 5 6		Completed 1846-47	This bridge consists of a semi-elliptical rabble mesonry arel, 30 feet span and 8 feet rise, with two side semi-circular arches of 5 feet span each. The work throughout is constructed of rubble masonry, me a pitched
	•		,	* *				foundation of the sums; the breakth of roadway between the parapets is 18 feet; the roadway is embanked on the north-side 250 feet in length, and on the south side 450 feet, at an average height of 5½ or 6 feet. The parapet is 3½ feet high, and the
) 8 ₆ 0 (n 2					length of parapet from and to end, 71 feet. The top is coped with chupam plaster. (continued)

No. 12 .- TABULAR STATEMENT of the Principal Works executed by the Bombay Road and Tank Department, from 1836 to 1850-51 inclusive, and by the Bombay Engineers, &c .- continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commoncement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion,	Probable Time of Completion.	REMARKS.
Agra and Bombay Road—contin The Wakes Nullah Bridge, No. 2.	ued.			Rs. a. p 4,120	Rs. a. p.	Completed 1846-47 -	This bridge is composed of two wooden trusses, each 54 feet to length, firmly fixed in rabble masonry abutments. The road helog laid on the lower beams of the trusses,
•			**************************************				it has a water-way of 46 feet in the clear, the read crossing the nullah somewhat obliquely. The trusses are composed of pleces of teak, none exceeding 10 feet in length, taken out of the ruins of the fort of Malligaum. The embankment on the south approach is about 530 feet, filled in to an average height of 0 feet; that on the north approach is 500 feet.
Walwarree Nullah Bridge		Commenced 1845-46		3,004 10 8	H - 2 H E	Completed season 1840-47.	This bridge is composed of two semi- elliptical arches of 13 feet span each, and 6 feet rise. The breadth of the readway between the parapets is 18 feet, and length of parapet, from end to end, 60 feet. The readway is 22 feet bread, and embanked on
e a		•	e y f	¥	* 1	3.	the north side of the bridge 420 feet in length, and on the south side 530 feet, and an average height of 5½ feet. The work throughout is constructed on a pitched foundation of an uncoursed rubble masonry to a depth of 4 feet.
Kussara to Kurdee, pro- posed New Line.	To superseds the old line of road	Sanctioned 18th March 1849.	Kurdes		1,33,391	• .• • · ·	The new line only deviates from the old one where the dips are at present too steep for traffic, and no slope is to exceed I in 19.
Bridge over the Phara- sherry River.	- The post was occasionally de- layed as much as eight hours.	• • • •	At Pimpulgaom.	- .	•		9
Agra Road, between Scindwal Fort and the River Nerbudda, through the Nimar Territory,	Converting It into a fair- weather road.	Length, 43 miles; commenced 1840.	Nerbudda River •	9,705 18 9		Completed 1850 -	2- The nature of the work is the removal of obstructions, the cutting of side drains, and the sloping the approaches into rivers and nullahs. This has been an useful piece of work. The amount here expended is said to be required to be spent annually on this piece of road, to make it a clearly marked fair-weather road during the proper season.
Akheira: Repairing Bhundarrah and Watercourse,				1,183 8 7	8	Completed 1840	- It was satisfactorily completed shortly after the commencement of the past official year,

987.	Bombay, vid. Tannah and Bhowndy, to Nassick, vid Tally Ghant, on the Great Northern Road. Bombay; Continuation from Nassick to Chandore.	with Candeish.	- Length, Bombay to Bhewndy, 33 miles; Bhewndy to Nassick, 78 miles. This road was constructed previously to 1836, and provision ands for annual repairs. - Length, 40 miles, which completes the line as far as the Candeish Collectorate. Sanctioned season 1835-36.	Chandore	1 () () () () () () () () () (and Chandors Road, Le		The line chosen presented so many difficulties, in the want of forage and water, and from the extraordinary steepness of its ascents and descents, sometimes exceeding one in four, that a new route was ordered to be surveyed in 1836.	
(è	Bassein: Construction of the Garridge Bund.	For the recovery of land from the sea.		- In the pelglibour- hood of Bassein.		- Two estimates, Rs. 9,354. 12. 8.		In 1841 the Superintendent reported that the estimates would be considerably exceeded before the works could be completed, if, with reference to the violent cloting and flowing of the tide, that end could ever be accom- plished. Report of 1859; page 19. Letter 61, of 1840.	~ ****
1-3	Basseln: Construction of the Kullum Bund. Bhore Ghaut Road	- Ditto - ditto	- Sanctioned 15th February 1838.	- ditto		9,122 11	- Completion not reported.	- This road runs in a single line as far as Poons, where it receives, as in a centre, the diverging lines from Ahmednegger, Shola- pore, and the Neera Bridge, the prolongation of which extends the communication to the centre of the Peninsula.	
	the Tanush Causeway and Bridge; the road from Trom- bay to Chimboor; the Chim- huor Causeway, and the junc- tion of this work with the causeway at Sion.	- Connecting the former islands of Bombny, Salactic and Trom- bay into one, and these again with the main continent of India.		- These works are all within 23 miles of the capital.	These works were undertaken by convict labour, and are all of such a costly and ex- tensive description that it was considered that they could not possibly have been andertaken by other means.		Completion of the Chimboor Causeway, and of the Trombay and Chimboor Road, reported in season : 1840-41.	- These works open two more lines of ingress for the traffic of the port, which owing to its chief export (cotton), and the one particular season at which it all crowds into the harbour, are purticularly wanted, giving a very greatly increased value to all property in the island of Trombay, and leading to the reclaiming of many thousands of acres of ground from the sea.	
	Bhadne, repairing the Bundar- rah and Watercourse of. Basar, Peera, Satiara: con- structing a tunnel at.	For Irrigation - To connect the town of Sattars with the valley of the Oomoores River, a high ridge having previously interposed an effectual barrier to communication between them without a long detour.	Senson 1847-48	Bhadue	Rs. 2,993. 1. 11.	- Rs. 31,500. 14. 9, of which Rs. 13,709. 14. 9, were to be subscribed by the natives.	Completed senson 1849.	- The work was completed satisfactorily shortly after the commencement of the official year. - This tunnel was completely driven through the range joining Enteshwar and the port of Sattara into the Comooree valley. In January last. Length, 192 feet; breadth at base, 30 feet; at top, 24 feet; height from bottom to roof, 24 feet.	
			1		* * * est			(continued)	

No. 12 .- TABULAR STATEMENT of the Principal Works executed by the Bombay Road and Tank Department, from 1836 to 1850-51 inclusive, and by the Bombay Engineers, &c .- continued,

		1					
NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
Chandere Ghaut Road		- Length, 5 miles; was laid out, and pro- visios made for annual repairs, previously to the formation of the		Rs. a. p. 8,009	Rt. a. p.		- This glaut into the plain of Candeish had a descent of 1 in 5 and a third, but the worst portion is only about 500 feet in length. In November 1841 the Govern
Charles and Care Van		Road and Tank De- partment in 1836.	Callian	00	8 E		ment ordered the slope of this ghaut to be reduced to 1 in 18. This ghaut has been passable for carriages since May 1843.
Chowh on the Great Northern Road to Calling, to be con- tinued to join the Thull Ghant Road.	This road will open up some of the most productive districts in the Northern Concan.	Season 1838-39 -		- 33 miles finished to 1840-41, at an expense of 23,191 rupees.			- This line, when finished, with the excep- tion of a few miles between Perm and Nagota, for which sanction is anticipated, will open a line of road through the Northern Concan, from Mahabaleshwar to the Thull Ghaut.
Chiploon, in the Southern Con- cun, over the Koombarlee Ghant.	With the view of facilitating intercourse and traffic.	Length, 17 miles; season 1838-39.	3	3,340 7 3	This line was origi- nally constructed at a considerable cost, but for many years was left without any re- pairs; a supplemen-		This line was, for the most part, obliterated, and required to be constructed "de novo."
*		# H	N. gr		pairs; a supplementary estimate of 3,119 rupes was passed in 1844-45.	's ~	
Cooly Bridge, repairs of the .	To facilitate communication -	- Sanctioned 26th December 1845.	Situated on the west of the town of Bapeln.	568	569	Completed senson 1845-48.	
Carringa: Construction of a Mamiutilar's Cutcherry.		- Sanctioned 30th April 1847.	At Oorun	· [. ·	1,367 rapees by contract.	- ,	
Chowndanah Bundarrab, im- provements to the.	Por lerigation	Sanctioned 1845-46-	Chowndanah	1,503 9 9		Completed season, 1848-49.	place of a mass of sand and deposit, pre- viously choking up the rear of the bun- derrah wall, and the supply of water has anabled the villagers to bring under wet
Cunnassee Watercourse, im-	For purposes of Irrigation	Banctioned 1848-40 -	Cunnasses	4,961		Completed 1849	cultivation land previously yielding monsoon erops only. - On the 22d of July, and on the 4th
provements to the.	*		3		*		October 1849, the parapets of the aqueducts were injured by floods, owing to the steep slopes to the sides of the cutting of the watercourse.
Churrygaum Khind, construct-	•	* Sanctioned in March 1850.	Churryganm	5,168 9 2	4,000	-	

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Deposite and Hellar Bridge Junction Road. Deposite and Hellar Bridge Junction Road. Deposite and Hellar Bridge Junction Road. Deposite and Hellar Bridge Junction Road. Deposite and Hellar Bridge Junction Road. Deposite and Hellar Bridge Junction Road. Deposite And Hellar Bridge Junction Road. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. Deposite Mark West Labely and Illia shall have been abandonch. To a supply of wester to the suillager. - To a supply of wester to the suillager. - To anothe the truffic from Conserve between Bredge and Hollar Bridge - To anothe the truffic from Conserve between Bredge and Hollar Bridge - To anothe the truffic from Conserve between Bredge Ghorabunder, New Pier at, and Conserve between Bredge and Hollar Bridge - To anothe the truffic from Conserve between Bredge Ghorabunder, New Pier at, and Conserve between Bredge Ghorabunder, New Pier at, and Conserve between Bredge Ghorabunder, New Pier at, and Conserve between Bredge Ghorabunder, New Pier at, and Conserve between Bredge Ghorabunder, New Pier at, and Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge - To anothe the truffic from Conserve between Bredge							_		
Deports and Holkar Bridge Justician Road. Date portrett the contensional residuation from the contensional residuation from the state of the section of the state of the stat	987.	Chinch Khind, constructing a Bullock Track over the.		Length about 24 miles			7,146	* · * · * * * * * * * * * * * * * * * *	- This khind is situated on the direct line of road between Nears and Wase; and a line was marked out with a slope of 1 km 21, the line being about 2 3 miles in length; for the greater part, the cuttings being through
Jacobia Road. Nageta, Since illus Biospaces Dalares Patas Bundarah, in- provenant of the. - For a apply of water to the will gere. - For a apply of water to the will gere. - For a spin of the state of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank. - For a spin of the state bank banks of the state bank. - For a spin of the state bank banks of the state bank. - For analysis the traffic form Conversely states Benderah, in- province to land on both stder of the state and Muhim. - For analysis the traffic form Conversely states Benderah bank of the state and Muhim. - For analysis the traffic form Samus to much Bonkery by the state state of the state bank banks of the state bank. - For analysis the traffic form Samus to much Bonkery bank of the state bank banks banks of the state bank banks banks banks banks bank banks banks banks banks bank banks banks banks banks	91				× ×			19	• , •
with gers. Sank work, but the stiffing of the degree cord of this bunders, consequent or cord of this bunders, consequent or cord of this bunders, consequent or cord of this bunders, consequent or cord of this bunders, consequent or cord of this bunders of the stiffing of the stif			tion between Bembay and Naggur, when the Biogapoor						the greater portion of the truffic between these places will proceed by Puona and
Dorthone to land on both addes of the river; all that of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass as possible of the verter age of the first pass and pass and pass are represented to the first pass and pass are represented to be desired at the pass and pass are represented to a son 1835-36. Ghoreygaum Tatik, reconstruction of. Ghoreygaum Tatik, reconstruction of. Ghoreygaum Tatik, reconstruction of. Ghoreygaum Tatik, reconstruction of. Goldier and applies of water to travellers. - Tatie Northern Concan. - This work was undertaken on point the inhabitants. - This bridge was represented to required on account of its being on the required on account of the supplies of the work was like and inspired to the pass and pass pass and pass pass and pass pass and pass pass the work was all pass of the work was it leaves a possibility of heigh used to the return the pass pass and pass pass and pass pass pass pass and pass pass pass pass pass pass pass pas				Sanctioned in 1847—48		8,719 9 11		opposite banks of about the supply tendent of Road like the Girna constructed, it	of water. It is remarked by the Superla- s and Panks, "In a river baving low banks, River, as the point where this hunderrah is does not appear possible to modify an old
Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and Muhim. Causeway between Bendors and	-1 10			8 8	e as s sa sa M	ž.	-	portions to land done is to render that there may be by the river, leave of the proper a	on both sides of the river; all that can be re the bundarrah and watercoarses so efficient eas little loss as possible of the water applieding it to the villagers, under the superlutendence evenue suthorities, to divide the water proporrequirements on either side of the river."
Gokhirwa Bridge, repair of the Connects the island of Bassoin with the main land. Connects the island of Bassoin with the main land. Connects the island of Bassoin with the main land. This bridge was represented to be required on secount of its being on the road from Bassein to fiberney, and I neighbourhood of extensive all pan produce of which is conveyed over it in laterior of the country; the supplementance and the second of the country; the supplementance and the second of the country; the supplementance and the second of the country; the supplementance are required to be required to be required on second of extensive all pan produce of which is conveyed over it in laterior of the country; the supplementance are required to be required to be required to be required to be required on second of extensive all pan produce of which is conveyed over it in laterior of the country; the supplementance are required by the timbers of the old bridge being in the second of the work was represented to be required on second of extensive all pan produce of extensive all pan produce of which is conveyed over it in laterior of the country; the supplementance are required by the timbers of the old bridge being in the second of the work was represented to be required on second of extensive all pan produce of which is conveyed over it in laterior of the country; the supplementance are required to second of extensive all pan produce of the work was the second of extensive all pan produce of the work was the second of extensive all pan produce of the work was represented to be required to be required to be required on second of the work was represented to be required to be re		Causeway between Bendora	Surat to reach Bombay by the direct routs of the Muhim Cause- way, without incurring the delay often attendant upon the naviga- tion around the southern extre-				84,239 0 3 .		- All intention of building the new wharf was abundanch, for the time, in R46-44, in consequence of the traffic being con- sidered too slight to warrant the extensive outley.
with the main land. Supplementary 976 Estimato Rs. 6,678 Rs. 6,678 This brings was represented to be a being on the road from Basselu to Bhewndy, and I neighbourhood of extensives all past interior of the country; the supplement of the country; the supplement of the country			traveliers.			of which sum 3,000 rupees were subscribed			This work was undertaken on petition of the inhabitants.
estimate was rendered necessary from timbers of the old bridge being in so state as to preclude the possibility of heing used to the extent allowed for progress of the work was likewise retarded by the tides by which, a springs, the pler's and abutments covered for several days.	25.	Gokhirwa Bridge, repair of the					Estimato 976	# # # -	This bridge was represented to be much required on secount of its being on the high road from Besselu to Bhewndy, and in the neighbourhood of extensive salt pans, the produce of which is conveyed over it into the interior of the country; the supplementary
covered for several days.		9 8		•	*	a de		* * *	estimate was rendered necessary from the timbers of the old bridge being in so bad a state as to preclude the possibility of their heing used to the extent allowed for; the progress of the work was likewise much returded by the tides by which, at the
							١.		
				Δ.		•	<u>s</u>	*	· ·

No. 12TABULAR STATEMENT of the Principal Works executed	y the Bombay Road and Tank Departs	ment, from 1836 to 1850-51 inclusive, and I	by the Bombay Engineers, &c continued.
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NAME OF WORK. Jhorgan and Nusseerabad, completing the road between.	Object of Construction.	Length, and Date of Commencement	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
				14			
A Company of the Comp		Length, 63 miles; sanctioned season 1847-48.	Nusseerabad	Rs. a. p. 15,151 - 4	Rs. a. p.	Completed 1849-50 ~	The sum of Rs. 172. 15. 6. out of the total cost was incurred for repairs to the embankments and roadways of the bridges, in consequence of the country people having cut them up with their carts before the earthwork had had time to consolidate. It
Kesseylec Bunder		Completed prior to 1840.	Kesseylee	Actual cost of materials, and all the labour executed by convicts in 1839, Rs, 10,904 6.	By free labour, Rs. 45,653. 12.	Completed prior to 1840.	runs somewhat parallel to the Boree and Geerna Rivers.
Kessoordee Tank, in the Poonah Collectorate.	Por Irrigation	- Estimated in season 1835-36. Length about 1,409 feet, of which 139 feet are solid masomy, 1,170 feet earthen embankment, and 100 feet excavation, for an escape channel for floods.	Within 24 miles of Poons.	11,624	- Two estimates, Rs. 7,045. 3. 11., and Rs. 9,043. 11. 1.	when full, will t mile, and the gre this work failed above the top of a ing away a grea intendent of Ro works designed impress extreme and I think it of extending irrig boundaries which gradually to greatly in the con-	- Lying across the gorge of a long velley, and to form, when completed, a sheet of water, below which there are npwards of 1,900 acres of fine land lying waste, which by the agreements taken from the natives inder cultivation. The greatest depth of water, as 38 feet, the greatest breadth nearly half a seatest length nearly three-quarters of a mile; during season 1843-44, from the water rising the embankment, which was of earth, and carryst portion of it; it is remarked, by the Euperads and Tanks, "results such as these, from by officers of acknowledged talent, must ecaution in all future projects of the kind, ill be found that the most profitable method gation will be, in the first place, to restore the h formerly existed in the richer districts, and trend this system as far as appears practif attempting to form immense reservoirs of ductive parts of the country."
Kanadalia Tank, additions to	To render it efficient and com- plets for the supply of water to travellers.	Sanctioned in 1845 -	Khandalia	1,421		Completed in 1845-46	- The retaining wall has been raised to an uniform height, and a coping added of three feet broad; coping stones of angular formation have also been affixed to the tops of the well walls, so as to prevent people washing in the water they contain.
Kessoylee: Protection of the village of Kurrud from inundation. Kirkee: Construction of a piece of read.	dangered by encroachments of the Kurra Hiver.	Sanctioned May 1845 Length about 3,000 feet.		To be constructed under a contract of 1,920 rupees.	715		- The villagers consented to be assessed for the sum of 200 rupees. - In the event of the junction between the new line by Akoordie and the Nuggur Road being effected across the Dapoorie and Holkar bridges, the newly constructed piece now reported on will also form part of the connecting line.

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987-	Korgaon: Construction of a feet suspension bridge over the Wyturnee River.		a 1844-40.	Kerguon	9 8	10	951	- 1		The amount is probably higher than it may be deemed expedient to lay out on a work off any of the main lines, and for the use of foot passengers only; but no bridge could be built in the locality for less amount.
	Khandalla: Breetion of a small tiled building.	For the purposes of a pos office.	t- Sanctioned senson 1845-40.	Khandalla -	• es a	286	250		- Completed season 1845-4U.	The outlay exceeded the estimate by 30 repres, chiefy in consequence of teak having been used instead of junglewood in the construction of the doors and windows.
	Karles, on the Panwell and Pona Mail Road : construc- tion of new works,	For a travellers' bungalou and a public wall.	Sanctioned season 1845—40,	Karleg	•	- Por bungalow, 2,289 rapecs; for well, 770 rapecs.	• •	• •	Completed senson 1845-46.	- The bungalow was entirely new, and includes out-houses; the well is a complete construction of cut stone musuary.
as:	Kundapah Bundarrah, Improve- ments to the.	For irrigation	- Sanctioned 1847-48 -	Kumianah -	-	1,150 - 1		•	Completed season 1848-49.	This outley has been lust to Government, as it uppears that no water occupies the place of previously accumulated deposit, or at least in quantities too triding to be of any acrvice; it would have been difficult, if not impossible, to have anticipated such a future.
	KlutgbarWatercourse, improve- ments to the.			In Candeish -	-	1,226 7		• •	- Completed season 1848-49.	
13	Moral Bunder to Caraugah -		Length, five miles -				• :	•		- This line existed previously to the for- mation of the Road and Tank Department In 1830, but no regular provision had been made for annual repairs.
	Mulligaum and Surat Road .	* (*);*(*) (*	- Made by the Ploneer Corps, 1823 or 1824,		-					This line never appears to have received any regular repairs; the largest glunt on the line is the Kuondnibharree Ghant, be- tween Dhywell and Boorsurwarree, the slopes of which are in some parts 1 in 5.
	Mhar: Clearing out of the Chowdar Tunks	For supply of water	Commenced 802- son 1846-46.	Chowdar -	•	4,433	6,407		Completed season 1846-47.	The mud in the bed of the tank was found, after the water was drawn off, to be but 4 \(\frac{1}{2}\) feet in depth, instead of 5 \(\frac{1}{2}\) feet, as land been estimated for; the balance was to be expended in repairing partions of the retaining wall.
	Moodes Bundarrah, improvement to the.	For supply of water	- Commenced sea-	In Caudelsh -	•	2,903 5 9	2,028	5 9	Completed season 1848-49.	- The excess of expenditure was occasioned by modifications of the original plan.
	Memadapoor Tank, prolongation of the retaining wall to the	To strengthen it	Length, 639 feet -	In Satture -	-		8,540			- This will complete the retaining wall to a length of 530 feet, averaging from 6 to 43 feet high, and with the other repairs tend to the preservation of this old Mohancdan work.
G.	Nagitora to Malibleshwar Road	ed previous to the fe Tonk Department in had been made for s	- Length, 71 miles; this line of road exist- rmation of the itond and 1836, but no provision munit repairs.		-	5,325	*			- In season 1842-43 it was reported that a contract had been entered into for keeping this line in repair for 6,925 rapecs annually, which plan had hitherto succeeded very well, as the road was reported to be in a much better state than is former years. (continued)
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No. 12.—TABULAR STATEMENT of the Principal Works executed by the Bombay Road and Tank Department, from 1836 to 1850-51 inclusive, and by the Bombay Engineers, &c.—continued.

NAME OF WORK,	Object of Construction.	Length, and Date of Commencement.	Piace of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
howdernare Tank, at Mhar -		Sanctioned season		Rs. a. p.	Rs. a. p 7,234 rupess, of		
*		1844-45.	a 8		which 2,000 rupees are to be defrayed by the inhabitants; the remainder by Govern-		
assick to Chandore, on the Great Northern Road.	Undertaken in continuation of the road which already existed	Length, 43 miles, 2 furlongs, 91 yards;	5 × 4 14	Rs. 37,884 10., viz.	ment.	Completed in 1839	This road, in connexion with the one constructing through Candelah, reaches from
	from Bombay to Nassick, to open the flourishing district of Can- deish.	commenced in senson 1837-88.	20 50 50 50 50	Road - 27,512 13 2 Bridges, 10,371 3 8			Bombay to the Sindwar Pass in the Sar poora range, and forms the whole Bomb portion of the road to Agra, while the tra of Berar flows into it by the line of Oome
** 8		SI SANCE		Average, per 874 14 2 mile-	ac 41 a		witty and Mulkapoor; in 1847 it was ported that it would be difficult to find half mile in any portion of this line wh could be justly characterised as in inc
assick and Sinnur Road	To connect the towns of Nes- sick and Sinner.		Sianur	Expended on the road, Rs. 15,832.11.11			ferent order. - The portion between Sinnur and Si is by no means well laid out; no survey made of this line before commencing it
, g =		* 1 1				formation of a	ared to present little or no difficulty to cleared road; the result has proved that e cases it is impossible to produce any satisfact or through all the preliminary details. The r
		معورة معالم	* g	, e 180		was reported in 1 ordered to be co the traffic was no	ig through six the preinting y events. The B44-45 to be in fair order; paved dips instructed across the four principal nullah is of sufficient importance to warrant the
rrungaon : Repairs to a Bridge cross a nullah, between Seroor and Soopah.		Erected in 1842 -	Narrungaon		wa := '= '=	lay for bridges.	- This bridge was designed by Major P some deflexion is observable in the j
iau soopaii,		* * *					which will render supports necessary; is ascribed to no fault in workmanship, solely to deficiency in the scantling of timber.
ons to Panwell Road, vis Dhn- porce, with old Branch, vis Cuad and Panowlee.	For traffic over the ghavts -	- Length, 88 miles; constructed, and pro- vision made for an- nual repairs, previous	Panwell 2 = _	Not known	Not known	This road was con- structed previously to the formation of the Road and Tank De-	- This is the only made road up the gh
99 S 9	a management of the second of	to the formation of the Road and Tank Department in 1830.		ghaut in several	places is still somewhat	partment in 1896. In may be said to be dep steep, being in some pl	distant; and both exceedingly difficult, indeed almost impassable for lades carts sendent on this line (in 18:0-40); the pre- laces about 1 in 10, which renders it necess
e 2			**	for carts to drag 1840–41 to 27,7 breadth and 470	their wheels in descend 41 ropess, being an incr feet in length, with a rai	ing. The toll returns of ease of 0,112 rupees. (sed approach on the right	of 1839-40 amounted to 18,629 rupees, and On this line is the Dapooree bridge, 20 fee t bank 540 feet in length; this bridge is of t ree trusses, each composed of a straining-be

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Pounth to Ahmedonggur	In continuation of the Poons and Panwell lines to the northern		Abmednuggur	30,161 rapees had been laid out on about		By the employ-	Partly to 1606 this line had been taid out and kept up, partly under civilians,
· · ·	stations.	Beroor to Ah- 31 4		17 miles of the road	1 • <u>.</u> .)	it was hoped that the	partly under contract, and partly under en-
9 2 5		Miles 75 #		prior to 1836, but the total expenditure		completion of this line would be effected	gineers; the Shikrapers bridge was com- pleted in season 1842-43, at an expenditure
120 20	1			on the line is not		in sesson 1846-47, at a	of Rs. 22,433. 3. 5. 4 the Muragaon bridge,
	1	This line had been laid		known.	. ,	trifling cost to Govern- ment.	which had been washed away, was rebuilt in season 1649-44, at a cost of 1,700 reposes:
		out previously to 1836, but no provision had	• 0				it has four waterways, 12 feet cuch.
,		been made for annual		· .			
	ľ	repairs.	2			F 19	
Penn to Kussooles Road, at the	Is expected to advance in an	Length 17 1; com-	From Penn, in the Northern Concan, to	6,700 9 5	9,025	Completed in June	
bottom of the Bore Chaut.	extraordinary degree the salt trade carried on from Penn with	menced in October	Kussoolee, at the foot			1837.	
	the interior of India, by intro-	137.50	of the Bore Ghaut.				4 70 2
	ducing the use of carts instead of bullock commerce.		3.0				*
	2						
Poons to Shelspeer = -	To open out the valuable Bar-	Length, 140 miles; surveyed in season			1,27,805 6 6		- The portion of this road through the cantonment of Poons was specially, in 1846-
	communication for troops and	1835-36.		7		187	40, repaired by contract, for 8,236 rupees ;
	guns with that military station auring the rainy season.				91 14	2 8 8	estimates were also prepared for extending this road for some distance towards Hunses-
a	annua tue many actions.						seer, crossing the Nuils which flows past
						1 1	the horse artillery lines by a bridge.
	Undertaken for the purpose of	T		f,42,284 rupees		1	The superintendence of this work was
Patus and Indapoor Road -	furnishing food and employment			expended to 1847. of			entrusted to Serjeant Oversear Armistend,
ન ેં ં	to the distressed population of the		The stage of the s	which 1,23,208 rupess	, and a second		whose constant and severe attacks of ill- health at the Thuil Chaut had incapaci-
> "	Bleemturry and Indapoor dis-	46.	75	tolely on labour and		E A 1200	tated bim from further employment in that
	be suffering severely, in conse-		¥9		n des	13/4	neighbourhood, except at the risk of life; the number of people daily employed on
_ f	quence of a succession of unis-				i .		the line averaged, in June 1840, six thou-
• 3						[*	sand four hundred and seventy (6,470); the workmanship on this line was reported in
g02: S	* * * * * * * * * * * * * * * * * * *)		, 1		1847 to be inferior to none in the Bombay
*							Presidency.
Poons to the Neers Bridge -		Length, 40 miles		The expenditure of			(1890). The Bapdeo Ghaut, near Poons,
. I bond to the receive and		6 farlongs; this line		Rs. 2,075. 12a. 10p.	88 A	Maria y	is the great obstacle on this line, being ai- most impracticable for curts, and in some
		was in existence pre-		was reported to sen- son 1843-44.			parts dangerous from want of parapet walls ;
14 19		tion of the Road and			N.		the traffic on this ghaut, however, is stated (in 1847) not to be so important as to render
F* .		Tank Department in 1886, but no prevision					the construction of a new ghant advisable.
		had been made for			. *		
		annual repairs.					
Poons to Narrangaum		Length, 45 mlles	Narrangaum				In 1840-41 this road was represented to
g:• o: e:		7 furlengs; this road existed previously to	n e 🐞 🖈				he in good repair, but as it crossed so many nubridged rivers, it was of little use during
	. * .	the formation of the	74 2.8		* *** ***		the mouseon, and could only be considered as
		Road and Took De- partment in 1830, but	a a		* 1	180	a good-weather road; it will form a portion of the central line between Belgaum and
50		no provision had been					Nussick,
*		made for annual re-		120			
w u]			l a s 2nd		(continued)
			2 2 3		W 88 88	2	

No. 12.—TABULAR STATEMENT of the Principal Works executed by the Bombay Road and Tank Department, from 1836 to 1850-51 inclusive, and by the Bombay Engineers, &c.—continued.

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	REMARKS.
		•		Re. a. p.	Rs. a. p.		
Panwell to Pena	For the accommodation of the salt trade.	•. • •	•	148 9 -			- Improvements were made to the Aptah Ghant in season 1843-44, much to the convenience of the Bringares, con-
				(a) (a)			siderable numbers of whom proceed from Panwell to Penn, to take salt from the latter
75 T							place.
Paste Tank, repairs to	Por purposes of irrigation	1835-30; length 1,680		Cost to Govern- ment, 250 rapees, an		Completed in sea- son 1830-37.	This work, in addition to securing the former baghayet revenue of the village, is
	. π	feet; greatest breadth 125 feet, and greatest depth 9 feet.	Pergunuah.	equal amount having been given by the villagers in money.		Section of the sectio	to return to Government an additional 30 per cent. on the capital expended.
B 🗷	10 1040		8	materials and la- bour,		9	
Panwell Port to the Sult Pance	This road was undertaken by	Length, 40 miles		13,188 14 B			
of the island of Carranjah,	Government, not only with a view to its general usefulness, but also	4 furlongs.		10,100 14 B	_		
	to furnish employment to the Kat- tywar emigrants.		**				
Poona New Bridge					N age of the second	APP	
oun New Dridge w	- The old bridge has been re- moved, it having been in a very unsafe state.	Commenced on the 1st November 1845.		Rs. 29,564, of which Rs. 10,382 were sub- scribed by the inha-	Commenced by contract, under Lieu- tenant Cowper's su-	Completed in De- cember 1846.	- This bridge was designed by Major Peal The excess over the contract amount wa expense allowed by Government for re
* * * * * * * * * * * * * * * * * * *		20		bitants of the town.	perintendence, for 26,975 rupees.	e e e	moving the centreings, &c. of the old bridge.
Panwell Bunder	Raising the platform on which	Sanctioned 2 Jan-	Panwell	5.725	Under contract for	Completed sesson	
	the custom-house is situated, to- gether with the reconstruction of	uary 1846.			5,725 rupees.	1840-47.	
# * * * * * *	masonry revetments.		a year				The second
Poons to Ahmednuggur Road .	- Estimates for constructing sic a second flying bridge was constru- Nullahs, the streams of which had	ted at Karringaon, at a	cost of 800 runees. Bri	liges were sanctioned or	the Sith January 1846.	over the Kondangor an	d Namedwards
	Kondapoor Nullah for 6,995 ruj	ces, that over the Nusu	dwady Nullah for 4,805	rupees.	. Duns by contract, on t	esigns by major a car,	that over the
Poons and Wangoolie, new line of road.	To avoid the present circuitous route by Holkan's Bridge and Lowgaum, as far as traffic and		e s	2 B H	e s s	* (6)	
10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	communication between Poons and Nugger are concerned.	*	* * *	19 180	2	5 w.	

PAPERS	
RELATING TO	
TO	
PUBLIC	
WORKS (
(INDIA).	

	Rutongherry Collectorate : Con-	To perfect the communication	*	GLI-1		100 N	0	This cross road was very defective:
9		between the town of Chipkon and	Length, S miles;	Chiploon	2,700	** ** **	1845-40.	This cross found was very desertives
987.	Chiploon.	the Koombarlee Chaut.	1045-46.			e A		a w or v v
•	7 9	20 N	× ====================================		1 100	8. 8.		l
	Rawere and Dhurungaum Road		Length, 54 miles .					This is a fair-weather road, passing
								mostly over black soil; it crosses the Tapter
	· ·						**	and Geerna, both large rivers with very
	A	1692 EE	4			20 NO 10	- 8 ×	I I I I I I I I I I I I I I I I I I I
	Ratras Tank, clearance and im-	en	G 1040 40			40 508		The work to be parformed includes the
	provement of the.	The tank is for the supply of the inhabitants of Poona with	Season 1840-47 -	Poons		40,700		removal of 2,000,000 cubic feet of earth.
		water; the additional quantity of	12 O	l P		200 T 10 T	8	also the re-opening of a channel, and repair
17	<u> </u>	water which it was calculated		•		***		of a bund, which had been originally con- structed with the intention of carrying off
-	E E E	would become available through the intended improvements, a-		24 ×			4	removal of 2,000,000 cubic feet of earth, also the re-opening of a channel, and repair of a bund, which had been originally constructed with the intention of carrying off all earthy matter, and preventing any deposit in the rank, but which had fallen into
	9, 9,	mounted to 30 days' supply.	2 2 2	į.	1			
				3 /4	1			complete neglect and disuss.
	* · · · · · · · · · · · · · · · · · · ·				1			
	Salsette, roads in the island of		40 miles of road	Balsetto				complete neglect and disuss. - These roads consist of 17 t miles of the Agra Road, between Sion Causeway and and Colsett lunder, of 21 t miles between Bunders and Gherabunder and Sauksee, and an area of 5 t miles between Trombay and Sion Chowking. Their succeptus annual coat
			existed previously to the formation of the			- T 180		Agra Road, between Sion Causeway and and Colsette Bunder, of 21 1 miles between
		**************************************	Road and Tank De-					Bandors and Gherabunder and Sauksee, and
	•	20	partment in 1830, for	***			and the second	an eres of 5 miles between Trombay and
			the annual repairs of			21.700		
20	N 23 2		which provision had been made.		360 30 25			for repairs is 12,000 rupees, or 270 rupess per mile.
	e Se		been made.		N 8 8	.w * *	ì i	
d	Salestte: Road connecting Sion	Opens up a fertile district in	- Length of road, five	Trombay			- Completion re-	This work was performed antirely by convict labour.
	with Trombay.	the vicinity of Trombay, to the	miles,	Trontmay			ported in 1840-41.	convict labour.
	The state of the s	Bombay murket, and also affords		la K				
		facilities for the transit of the mail from Panwell during the	•	1 m 2 m 2 m				l
		monsoon.	V4	5 0.51	12 12		8 4	
20			2 2 ²	1 1		e s ^e	E 121	
3	Sulsette : Girridge Bund						Completed 1840-	- The slope of this bund is 1 i to 1, with a surface of turf; whereas with such material, the inclination should have been as
							41, with the excep-	a surface of turf; whereas with such ma-
	1 0 0				••	9	tion of the sluices.	much us & to 1 to ensure stability.
			1		1			
	Salastte: Construction of a	In lieu of an old wooden	Sanotioned season			1,810		This bridge has masonry abutments and
		bridge reported to be in a dilapi-	1844-45.	1		1,010		This bridge has masonry abutments and wooden superstructure.
	the 21st mile on the road to	dated and ruinous state.			1	*	A50 W	
	the Chimboor Causeway.	2 3 8	•		1 . [35	
	Salsette: Proposed new bridge	In lieu of one which was re-	Sanctioned season	About five miles		5.224		- The new work will be a skew bridge,
	at Erla Parla.	presented by Sir Jamsetjee Joe-	1845-46.	from Bandora.		of which Sir Jam-		consisting of two brick arches, of 20 feetspan,
	1	jeebhoy to be inconveniently shaped and situated, so as to im-	,	ľ	1 20 1	setjee Jeejechhoy ex-		with a stone pier and abutments.
		pade the increased traffic which		, it		pressed his readiness to furnish 4,000 ru-	3	f8 •s ≤50
	76	the new causeway was calculated	2 × E			pess.	9	
	· Ing State to	to attract; the old bridge had been built at right angles with						
	* * 1	the course of the stream, while	1810 d ag		921 Ge			R 6 8
		the direction of the road is very	g 10 g	7 2 2 7			8 5	
•		oblique.	a a N	A 121 0		4.	r	, (continued)
•		- Daniques	- CO		9 9	12 N	6	

NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Of Completion.	REMARKS.
bads : Repairs to a Bundarrah	Por irrigation	Season 1848-49 -	At the town of	Rs. a. p. 683 3 5	Rs. a. p.	Completed season	- The repairs consisted of stopping a
and Watercourse.	To angular	D24501 1040-49 -	Shada, in Candelsh.		#A	1848-49.	siderable leak in the rear of the bundar wall, by backing the wall with new man near the leaky point, and construc
* * *	# % # **			v .			four breast walls on the line of the wa
erwarra: Repairs, &c. to the centre Bundarrah and Water-	For irrigation purposes	Season 1848-49 -	In Candeish			Completed 1848-49	- The works consisted of breaking scouring sluices in the main bundarrah u building a screen wall with an arched o
			9) 				ing at the mouth of the watercourse, breaking a small open-headed scouring s
w		2.0	•	5 (4) 9			below this screen wall. The parapets old aqueduct on the line of watercourse to be renewed.
rusmeense Bundarrah, con-	For purposes of irrigation -	Scason 1847-48 -	In Candeish	9,047 12 2		Completed May 1849	- It is the first bundarrah constr- entirely by the Engineer Department.
	20 X	55A	•	E no sm		mouth of the w	arrangement of the measurement of the management of the existing bunds on of a reservoir and cluice apparatus a atercourse. During the monsoon of 184
		*		Jac	* a	bed of the river	sually high, inflicted some slight injuries and the pointing, but the work had bon monsoon as well as could have been w was repaired and the excavation in the
		page .				begun to he fi	lled in with dry stone work, protected bry apron above, and supported by a ret
ara and the Limb Khind:	This is a part of the Sattara	Season 1850-51;	Sattara	8,000	- For the bridge over		Of the first portion of four miles
ond with continuation for miles.	and Poona Road.	length from Sattara to the Limb Khind four miles, beyond the Limb Khind 3 1 miles.		940 940 84 144	the Kodally River, 8,748 rupees.		were completed by the prisoners, the re- ing two miles were made by Ballajee Nathoo, hamdar of Punchwar, at his expense; the second part has been by
		same a mine of mines.				Fupees, and Gov Kodally River b	e inamdars of the Wace Valley giving eroment another 4,000. A bridge across as also been sanctioned. The following
*						ous obstacles on River, the Khrisi the Katriz Gha	n these lines have to be overcome: The l na River, the Kamalkee Chaut, the Neera l ut. Travellers' bungalows bave been er
	0K 87 EM2'			•			Punderpoor, Waugi, Poosusacice, and K are much required, and will be construc-

market formed out of the old engineers' stores, yielding a yearly rent of 375 rapees, and every stall rented and occupied.

by the Imaginpoora tank by the prisoners. A new line of road, 2,740 feet long, made, running at the back of the palace joining the Shukurwar Petta and the Genda Mall lines. A vegetable

ing, of but a couple of ramps, one or bank of the estuary, cutter approac of the towards, cutter of the where there is a flooded interval natural their of considerable length title, and never less than 60 for The greater portion of the ramps is	reach troum, of the at ebb ; deep. conse- nd the
tide, and news less than frac(b) is	deep. conse- nd the
quently submersed at high water,	arvose E 🛏
of matering vessels to, were completed as considering with the invisible days of the translation of the constant of the consta	much A
Trombay Pier (see Bombay) Commenced in 1887 Completed season 1843-44.	
Tull Ghant Road: Survey and Improvement. - The sum of 1,16,783 rupes was expended on its construction; the belowned to the amount expense to the amount e	ported 5
the balance, 21,728 rupees, was to be laid out in metalling the road; also an additional sum of 7,386	OL D.
Tupees, for further inprovements, recommended by the comments of the comments	PuB
Tull Chaut: Experimental Line - Commenced December 1845. Length, December 1847 until the related of the Chart	PUBLIC WORKS
been in other respects completed, we originally contemplated; whereas, to answerable reasons, it has been plugged added to with the pursuet simultaneously with the roat and the	us not OR Cornect OR Conse-
quence is, that a well-built wall, three feet in height, and feet in length, had been completed up to 1845-40. It he found that the entire distance requiring to be so do	
by soveral circumstance of the works is stated to have been by soveral circumstance and in a remarkable of the programment of t	k, far
shunned; thirdly, the scarcity of water, which at the c the hot scanon occasionally fails in tot, and the neighbor to consequently partially deserted; building materials a expensive, and have to be brought from a distance.	mband .
Tannah Church, repairs to the roof of. Some of the timbers were discovered to be in a state of decay. Some of the timbers were of the timbers were discovered to be in a state of decay. Some of the timbers were of the timber	
Toka: Construction of a new rafter, or decked double hoat. River. - For erossing the Codavery rafter, or decked double hoat. River. - Toka on the Nag-poor dawk line. - Toka on the Nag-poor dawk line.	nued) 55

No. 12.—TABULAR STATEMENT of the P	rincipal Works executed by the	Bonibay Road and Tauk Department,	from 1836 to 1850-51 inclusive, and t	y the Bombay Engineers, &c continued.
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NAME OF WORK.	Object of Construction.	Length, and Date of Commencement.	Place of Termination, or of Intended Termination.	Amount J of Expense Incurred.	Estimated Amount for Completion.	Probable Time of Completion.	RRMARKS.
Tannah : Construction of a new hospital.	For a detachment hospital -	Sanctioned 19th March 1847.		Rs. a. p.	Rs. a. p. 4,340	H and Comm	- 50 f feet in length, by 18 feet in breadth, with dispense floms and out-offices.
Wurgzon Bundarrahs in the Ahmednoggur district.	For irrigation	- These bundarrahs are three in number; sanctioned 1836-37.	- In the Sunnur Pergunnah.	Two bundarrahs, 54 rupees.	236 The Gaom was to contribute 150 rupees, and a jagheerdar 100 rupees.		377 beegahs and four pands are watered from these bunds, assisted by a few wells.
Werrunder Ghant to Mhar, constructing a bullock track over tha.		Commenced 1850-51	Alber		17,500 has been raised for the purpose of this work.		- As a great part of the proposed line would pass through the Suchew Punt's territory, at a visit from Mr. Frere, the Punt expressed his willingness to subscribe a sum of 8,750 rupees; the Government granted a like sum.
Zoykheira Bundarrab, com- pleting the, &c.	For purposes of Irrigation			86,451 15 11		~ Completed season 1848-49.	- The magnificent old bundarrah, which for some portion of its length is from 20 to 30 feet in height, and 10 feet thickness at top, has been raised and strongly coped for securing a larger supply of water in its rear. The water-course is carried over five miles of most difficult ground, and in its course is carried through three tunnels of considerable length; over three pullahe, by means of arched aqueducts; four nullahs are carried clear over it, and is crossed by roads in three
a and a and			8	9 4 4			places. The work thus completed affords a fine specimen of the application of the resources of the Engineer department to the restoration and improvement of an old work of irrigation. It is only to be hoped that a work on which upwards of \$5,000 rupes have been expended by Government may not suffer injury from the notorious inat- tention of the villagers (in whose charge it now is) to the care of all permanent works on the line of their water-courses.

In the Printed Parliamentary Paper of the Honourable the House of Commons, No. 622 of 1851 (Pages 206 and 207), Statements have been given of the Expenditure incurred under the Presidency of Bombay, on Works of Irrigation, and in the Construction of Roads and Bridges, for the Ten Years from 1836-37 to 1845-46 inclusive. The following Statement exhibits the Amount of Expenditure reported by the Road and Tank Department, from its formation to the year 1850-51 inclusive; and in the Civil Branch by Superintending Engineers from 1845-46 to 1850-61 inclusive.

	YEAR.	Road and Tank Department.	Civil Architect's Department.	By Superintending Engineer, Southern Provinces.	By Superintending Engineer, Northurn Provinces.	By Superintending Engineer, Scinde.	By Civil Engineer, Candelsh.	By Civil Engineer, Settars.	TOTAL.
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
	Total expenditure to 30 June 1839 -	4,58,702 11 1	· se se, e	• • • •					4,58,702 11 1
	From 80th June 1839 to end of Season 1840-41	2,70,815 14 -							2,70,815 14 -
=	Season 1841-42 .	1,76,118							1,70,118
3	Sesson 1842-48 -	1,24,914 14 2							1,24,914 14 2
	Season 1843-44 -	1,27,814 6							1,27,814 6 -
	Season 1844-45 -	1,27,044 7 -							1,27,044 7 -
	Season 1845-46	No Report* 3,14,795 18 8	1,07,037 8 10	1,84,991 14 6	64,709 5 5	3,76,200 5 8	54,439 11 2	<i>:</i>	10,82,354 10 5
	Season 1847-48 -	8,09,179 15 8 J					* (2) N =		8,09,179 15 8
	Season 1848-49 -	2,83,158 8 1	42,582 15 8	1,60,466 12 -	51,002 10 11				5,87,210 14 8
	Season 1849-50 -	3,53,788 1 7	33,316 11 2	1,56,957 - 8	85,855 13 9	2	58,000 9 -	42,205 15 8	6,60,124 8 5
	Season 1850-51 -	3,81,893 4 4	50,815 10 2	8,99,559 11 5	43,293 10 7	4,619 13 6		2,25,314 13 4	10,03,098 15 4
	¥ 2	M 19	* *	<u>a</u>	Total E	Expenditure reports	orted from the fo	rmation of the Road	40,88,270 15 9

Note.—The practice of printing the Reports of the Superintending and Executive Engineers, in connexion with those of the Road and Tank Department, appears to have been first adopted in Season 1846-47, and to have originated from the plan proposed by the Chief Engineer and the Military Board in 1844, for the abolition of the Road and Tank Department.

SUMMARY.

SUMMARY of EXPENDITURE Incurred under the several Presidencies of India, as follows: viz.,

PRESIDENCY.	DESCRIPTION.	AMOUNT.
Bengal	Known expenditure on works under the general management of the Military	Rs.
	Board, as per Preparatory Report, dated 8th September 1840	1,39,64,099
Ditto -	- Amount expended from season 1839-40 to season 1850-51, inclusive	2,85,04,891*
Fort St. George	On repair and construction of works of irrigation, and on roads, bridges and ghauts, from 1838 to 1850, inclusive -	1,25,56,293
Sombay	Amount of expenditure reported by the Road and Tank Department, from its formation in 1836-37 to	
	1850-51, inclusive	49,88,277
	Rs.	6,00,18,560
The amount thus far expended under or the Ganges Canal, and for Works is	special grants (which exceed two crorés) n the Punjab, has been about	1,00,00,000
	Making a Total, still exclusive of Rs.	7,00,13,560

While the total of ascertained expenditure, as above, amounts to the sum of 7,00,13,560 rupe es in the aggregate, that sum cannot be considered as the total amount expended by Government on Works of public utility, the outlay incurred in public improvements under the control of Local Committees, from the proceeds of the One per Cent. Fund in the North-Western Provinces, from the Ferry Funds and from other sources, not being included, nor the value of convict labour employed on Public Works.

* Exclusive of Expenditure on the Godavery Annicut.

Considerable progress has been made in the several works alluded to at page 208 of the Printed Parliamentary Paper, No. 622 of 1851, for which special grants had been sanctioned, as will be seen from the Court's more recent despatches, given in Appendix No. 1.

Copies of Despatches to the Governments of the respective Presidencies on certain subjects which have of late engaged the attention of the Court of Directors, and a Memorandum on the Roorkee College, form Appendix No. 2.

APPENDIX.

APPENDIX No. 1.

GANGES CANAL

India Revenue Despatch, 21 December (No. 17) 1847.

Our Governor-General of India in Council.

1. We have received two letters from our Governor-general, dated 3d and 20th September last (Nos. 16 and 17), transmitting further proceedings relative to the Ganges Canal, consequent on the receipt of our despatch of the 7th July (No. 9) 1847.

Ganges Canal.

- 2. His Lordship had communicated extracts of that despatch to Major Baker, director of the canal, and to Lieutenant-colonel Abbott, Superintending Engineer in the North-Western Provinces, and now forwards copies of the observations which they have submitted to him.
- 3. Major Baker is of opinion that the estimate of 93 lacs, as given by Major Cautley, is not likely to be exceeded beyond the sum of four lacs, which he considers will be required to give greater strength to the works of the Solani Aqueduct. The period within which the whole work can be completed will be regulated by that occupied in the construction of the aqueduct, and he is confident that this may be accomplished within six years. Lieutenant-colonel Abbott confirms Major Baker's opinion with regard to the Solani Aqueduct, adding a recommendation for increasing the strength of some of the abutments, which it appears Major Baker had already effected by an alteration in Major Cautley's original plans.
- 4. With respect to the expediency of making the canal subservient to purposes of navigation, Major Baker estimates the total additional expense which will have to be incurred for that object, at 2,23,770 rupees. He says, "It has been shown in reports already before Government, that the navigation of the Ganges below Cawnpore will not be impaired by the abstraction of the canal supply at Hardwar, but that during a few months of the year some hinderance may occur in the higher course of the river. The inconvenience thus arising would be practically small, and is easily remediable by the substitution of a safe and expeditious route for the tedious, and often dangerous, passage now afforded by the river." Major Baker adds, "The sum of money which might be saved by leaving navigation entirely out of account, is thus seen to bear a small proportion to the whole estimate, and the additional expenditure of 21 lacs will be well bestowed on the provision of a navigable communication through the centre of the Doab, especially as the river steamers will be enabled to approach by the Jumna to the canal terminus, and there to deliver their freight at once into the canal boats."
- 5. Major Baker estimates the net revenue from the canal at 10 lacs, or 10 per cent. on the outlay, observing that "the rates of irrigation rent have been purposely fixed below the real value of the water, and therefore that the amount of direct revenue cannot be looked upon as a fair measure of the work of the canal."

- 6. The Governor-general informs us that he has applied to the President in Council for the services of Mr. Simms, the civil engineer, being of opinion that "it will be satisfactory to all parties that this gentleman should in person make an inspection of the Solani Aqueduct, assuming that his experience in this description of work justifies the reference."
- 7. We shall be glad to be furnished with Mr. Simms's opinion with regard to the Solani Aqueduct, and he may also be able to afford information respecting the suggestion of Lieutenant-colonel Abbott, for the construction of galvanic telegraphs on the line of the canal, "so that in case of accident at any part of the works the immense flow of water might be instantly stopped, and let off at the places prepared for its escape."
- 8. We trust that the Earl of Dalhousie will apply himself to the consideration of the question in all its bearings, with the same zeal and judgment which have been evinced by his predecessor in the Government of India.

We are, &c,

London, 21 December 1847.

(signed) H. S. G. Tucker. J. L. Lushington, &c. &c.

India Revenue Despatch, 2 June (No. 11) 1852.

Our Governor-General of India in Council.

- 1. WITH his letter dated 28th July last (No. 1), our Governor-general has forwarded to us a revised estimate, prepared by Lieutenant-colonel Cautley, of the probable expense to be incurred in constructing the Ganges Canal works. His Lordship observes, that although the increase of cost which is contemplated in this estimate is undoubtedly large, he conceives that Lieutenant-colonel Cautley has satisfactorily accounted for it in the paper submitted by him to Government, and he accordingly trusts that we shall see cause to bestow our approval on what has already been done, and to give our sanction to the revised estimate now submitted.
- 2. The former estimate, as sanctioned in our despatch of the 7th July (No. 9) 1847, amounted to 93,39,746 rupees. In the estimate now before us the probable cost (including establishment and current repairs, which were omitted in the former one,) is given at 1,55,55,481 rupees. Of this sum the total amount actually expended up to the 30th April 1851 is stated to be 72,45,560 rupees.
- 3. This estimate has been prepared under instructions dated the 12th June 1850, addressed to Lieutenant-colonel Cautley by the Lieutenant-governor, who observed that it had occurred to him that sufficient progress had then been made in the construction of the Ganges Canal to enable a proximate estimate of its entire cost to be formed. "It is obvious," he remarked, "that in all great undertakings of this nature, the first estimate of the cost can only be a rough approximation towards the truth. It is impossible to foresee all the difficulties that arise from a new and large demand for labour and materials, which have hitherto been required only in small quantities or at places favourable for their production. It is also well known that during the progress of this, as of all other similarly large undertakings, important modifications of the original plan suggest themselves, which, though at first more expensive, add greatly to the stability and efficiency of the work, and will save future expense.

"But it is of importance that the earliest possible period should be seized for correcting the unavoidable errors of the first estimate, and for accurately appreciating the real expenditure involved in the undertaking. It is believed

that

that this period has now arrived in the progress of your works on the Ganges Canal, and that you will find little difficulty in forming a revised estimate of the whole, which will be a near approximation to the truth."

- 4. The causes which have led to the increase in the estimated cost of the canal are given in detail in Lieutenant-colonel Cautley's report, and are briefly summed up as follows:
- "There are three points which have greatly influenced the designs of the works now estimated for; viz.:
- 1st. "The results of the proceedings of a medical committee, which determined that the high-water mark of the canal should be kept as much as possible below the surface of the country.
- 2d. "The results of excavation in the upper division, showing that the supersoil only was clay, with an uninterrupted substratum of sand.
- 3d. "The change of design in the distribution of the supply below the 110th mile, which, in connexion with the results above referred to, have in fact led, with few exceptions, to the total reprojection, not only of the masonry works, but of the capacity of the canal channel.
- "In referring, therefore, to the papers already printed, the present may rather be considered a fourth in succession to the three projects formerly submitted, than a revised estimate of what has gone before."
- 5. The excess of the revised over the original estimate is doubtless large, but considering that the latter was framed on data which were necessarily, to a great extent, imperfect or conjectural, we agree in the opinion expressed by the Governor-general, that Lieutenant-colonel Cautley has satisfactorily accounted for it. With full confidence, accordingly, in the zeal, ability, and high professional attainments of that distinguished officer, we give our sanction to the revised estimate now submitted to us, and we trust that every means will be taken for carrying on the construction of the canal with all practicable speed.
- 6. We take this opportunity of acknowledging the receipt of the letters and paragraphs referred to in the margin,* by which we have been kept informed of

India Revenue Letter, 26th June (No. 6) 1847, paras. 24, 25.
India Revenue Letter (Governor-general's), 6th December (No. 26) 1847, whole.
India Revenue Letter, 24th December (No. 21), whole.
Bengal Military Letter, 17th March (No. 36) 1848, p. 111 to 114.
Bengal Military Letter, 14th July (No. 110) 1848, p. 43 and 90.
India Public Letter, 14th August (No. 41) 1843, paras. 16 and 19.
India Revenue Letter (Governor-general's), 17th November (No. 4) 1849, whole.
Bengal Military Letter, 19th November (No. 185) 1850, p. 45, 46.
India Foreign Letter (Governor-general's), 26th February (No. 14) 1851, whole.
Bengal Military Letter, 26th September (No. 152) 1851, para. 38.
India Public Letter, 28th November (No. 37) 1851, para. 32.
Agra Revenue Narrative, 15th March (No. 1) 1847, paras. 12 to 46.
Agra Revenue Narrative, 12th May (No. 2) 1847, paras. 11 to 42,

Agra Revenue Narrative, dated-

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29th June
                                              10th October (No. 3) 1849
              (No. 3) 1847
                              - p. 13 to 38
                                                                                p. 17 to 38
15th October (No. 4) ,,
                                              26th December (No. 4) "
                              - p. 8 to 47
                                                                                p. 23 to 42
20th December (No. 5) ,,
                              - p. 22 to 52
                                              27th April
                                                            (No. 1) 1850
                                                                               p. 18 to 45
16th February (No. 1) 1848
                              - p. 14 to 38
                                                            (No. 2) "
                                              15th June
                                                                                p. 21 to 59
30th May
              (No. 2) "
                                              16th September (No. 3) ,
                              . p. 15 to 46
                                                                                p. 23 to 61
24th October (No. 3) "
                                              13th November (No. 4)
                              - p. 22 to 70
                                                                                p. 21 to 51
30th December (No. 4) 9
                             . p. 41 to 85
                                              14th April
                                                            (No. 1) 1851
                                                                                p. 20 to 62
10th May (No. 1) 1849
9th July (No. 2) ,,
                              - p. 22 to 53
                                              29th July
                                                            (No. 2) "
                                                                                p. 28 to 66
           (No. 2) ,,
                              - p. 18 to 43
   987.
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of the details of progress in the works of the Ganges Canal, and of other less important works of irrigation and drainage in the North-Western Provinces. It does not appear to us that they contain any particular points on which our observations are required, but we cannot pass them over without expressing our gratification at the evidence they offer of the zealous services rendered by the late and present Governors-general, no less than by the Lieutenant-governor. in the efficient prosecution of these important works, in which the best interests of the country are involved, and which has been ably and actively responded to by the officers of all grades attached to the Canal Department.

London, 2 June 1852.

We are, &c. J. W. Hogg. R. Ellice, &c. &c.

ROADS in the PUNJAUB.

India Public Despatch, 4 August (No. 30) 1852.

Our Governor-General of India in Council.

Foreign letters from the Government of India,

- 1. We now reply to the letters and paragraphs dated 7th December (No. 29) 1850, paras. 232 A, noted in the margin, relating to the construction of and 247; 7th March (No. 10) 1851, para. 190; 7th various lines of road in the Punjaub, the expense November (No. 34), para. 83. Foreign letters from the Governor-general, dated of which will be chargeable to the five lacs of 18th January (No. 4) 1851; 5th April (No. 26) 1851. rupees annually set apart under our sanction for public improvements in that territory.
 - 2. The following are the works which, as here reported, have received your sanction: 1st. A fair-weather road from Lahore to Mooltan, the cost of which, at 200 rupees per mile for 224 miles, is estimated at 44,800 rupees. 2d. A road from Dera Ismael Khan to Shahpoor, a distance of 104 miles, the formation of which for ordinary traffic, with the necessary wells, is estimated to cost 3,000 rupees.
 - 3d. A good but unmetalled road from Sheikapoora (between which place and Lahore a road was previously in course of construction) to meet the above road at Shahpoor, and thus complete the communication between Lahore and Dera Ismael Khan. The distance is 100 miles, and the estimated cost, including all expenses, is Rs. 21,651. 4.
 - 4th. Two roads, from Mozuffurgurh, in the Khangurh district, one to Mooltan, a distance of 13 miles, and the other to Dera Ghazee Khan, a distance of 20 miles, at a cost of 1,000 rupees.
 - 5th. The completion, as a second class road, of a line on which 20,000 rupees have already been expended, from Rawul Pindee to Kalabagh on the Indus; the distance is 107 miles, and the additional expenditure was estimated at 13,775 rupees.
 - 3. All these lines of road are severally recommended by their greater or less importance in a military, a political, or a commercial point of view, and we approve the sanction given to their formation.
 - 4. The most important work referred to in the letters under reply is, the proposed new road from Lahore to Peshawur, the formation of which was recognised in our despatch in the Revenue Department, dated the 5th December 1849, as a highly desirable object. The Governor-general has now forwarded to us plans and estimates for the construction of this road, to which he requests our sanc-

tion;

tion; and, pending the receipt of our orders, his Lordship has authorised the commencement of operations and an advance of 3,00,000 rupees for the needful preliminary expenses.

- 5. The proposed line has been carefully surveyed by Lieutenant Tayler, the executive officer, with the personal assistance, in some parts, of Lieutenant-colonel Napier; and while it adheres generally to the direction of the existing road, deviates from it in those places where a more favourable course could be selected. It is proposed that the road shall be of the width of 40 feet; that it shall be metalled throughout; that the numerous small rivers and nullahs shall be crossed by timber bridges; and that across the four great rivers, the Ravee, the Chenab, the Jelum, and the Indus, bridges of boats shall be thrown, which, in the case of the last, will be maintained throughout the year, while those over the other rivers will, during the rainy season, be disconnected, and the boats used for the purposes of a ferry.
- 6. The length of the road will be 275 miles, and the estimated cost, including the floating bridges and establishment and superintendence for two and a half years, is Rs. 15,48,841. 2.
- 7. We concur with the Governor-general in regarding the formation of an efficient road to Peshawur as a work not simply of importance, but of absolute necessity. It is most desirable for military purposes that the road should be passable at all seasons, and that there should be no danger of a stoppage at any point. On these grounds it is necessary that the road should be metalled, and that adequate means of crossing the great rivers on the line should be constantly kept up. We accordingly give our sanction to the entire scheme for the formation of the proposed road, which will join the grand trunk road at Lahore, and by means of which a direct line of communication will thus be opened between Calcutta and the extreme boundary of our territory on the north-west frontier.
- 8. The estimates submitted to us for this road are not of so detailed a character as is usually required, but they are stated to be "as near the truth as the most detailed estimate could be in the present knowledge of the resources of the country." The work will, of course, not be finally proceeded with till the fuller estimates called for by the Governor-general shall have been submitted for sanction.
- 9. We take this opportunity of repeating our orders that when sketch and survey maps accompany the estimates for roads submitted for sanction, a copy be invariably forwarded to us with the papers relating to the case.

We are, &c.

J. W. Hogg. Russell Ellice. &c. &c.

London, 4 August 1852.

KURRACHEE MOLE AND ROAD.

Bombay Public Despatch, 11th August (No. 28) 1852.

Our Governor in Council at Bombay.

Para. 1. Your letter, dated the 16th February (No. 9) 1852, informs us with Further proceedings reference to our despatch No. 4 of 1851, that the Military Board has reported respecting the Mole that the mole and road at Kurrachee can certainly be completed within the and Road at Kursestimates: that in their oninion the avelusive attendance of an envision officer rachee. estimates; that, in their opinion, the exclusive attendance of an engineer officer 987.

64 PAPERS RELATING TO PUBLIC WORKS (INDIA).

is not necessary for the superintendence of the work, and that you have therefore authorised its completion, and have placed it under the superintendence of Captain Hill; providing that officer with an assistant to aid him in the performance of general duties as executive engineer in Lower Scinde.

- 2. These proceedings do not require any other notice than the expression of our approbation.
- 3. We are glad to observe that the Military Board has been directed to furnish quarterly reports of the progress of the works, by which your Government will be enabled to judge whether they are proceeding within the estimates.
- 4. With regard to the opinions of Lieutenant-colonel Scott and the Military Board respecting the probable effect of the mole on the Chinny Creek, we do not think it necessary at present to offer any remark.

We are, &c.

(signed)

J. W. Hogg.

R. Ellice,

&c. &c.

London, 11 August 1852.

APPENDIX, No. 2.

Copy of Despatch to the Government of India, - Works on the Eastern Jumna Canal. The improvement and extension of Cochrane's Canal. The improvement of the Begaree Canal in Upper Scinde. Progress of the Hindoostan and Thibet Road.

Copy of Despatch to the Government of Fort St. George,—The construction of the Pennair Bridge and Annicut; the proposed construction of a Dam at

Copy of Despatch to the Government of Bombay,-Improvement of the roads in the Breach Collectorate.

Copy of Despatch to the Government of India,-Preparation of annual . schemes for the construction of roads and bridges by the Governments of Fort St. George and Bombay.

Memorandum on the Roorkee College.

EASTERN JUMNA CANAL.

India Revenue Despatch, 15th June (No. 11) 1853.

Our Governor-General of India in Council.

Para. 1. In your letter in the Home Department, dated the 11th March last (No. 10), you have submitted for our sanction a plan for remodelling the central division of the Eastern Jumna Canal, the estimated expense of which is Rs. 1,52,760. 5. 1.

- 2. The necessity which would ultimately arise for straightening the tortuous course of this portion of the canal has long been recognised by the officers employed on it, and the time seems now to have arrived when it is most desirable that the work should be commenced. The mode in which it is proposed to carry it out is clearly shown in the printed memorandum prepared by Lieutenant Morton, the superintendent of the Eastern Jumna Canal, and has received the entire approval of Lieutenant-colonel Cautley, of the Military Board, and of the Lieutenant-governor of the North-Western Provinces.
- 3. The main advantages which are anticipated from the work consist in greatly economising the water and facilitating its distribution for purposes of cultivation. In addition to this, the high embankments which now exist on this part of the canal, and which occasionally give way, and thereby cause much loss and injury, will be dispensed with, and the sanitary condition of the country near its banks, which now suffers materially from the swamps which are formed by the leakage of the water, will be largely improved.
- 4. We observe that Colonel Cautley states the clear profit to the Government from this canal, after allowing 5 per cent. interest on the receipts and disbursements, to have amounted on the 1st May 1852 to 97,595 rupees.
- 5. Under these circumstances we have no hesitation in acceding to your recommendation, and willingly accord our sanction to the expenditure proposed.

We are, &c.

(signed)

London, 13 June 1853.

R. Ellice. J. Oliphant.

Cochrane's Canal.

India Public Despatch, 31 March (No. 14) 1852.

Our Governor-General of India in Council.

Public Letter, dated 20 September (No. 36) 1850.

Cochrane's Canal.

July (No. 33) 1851.

Para. 1. In this letter you request our orders on the measures proposed by Public letter (Public Works Depart- the Madras Government for the improvement of Cochrane's ment), duted 24th January (No. 2) Canal and for the extension of the line of canal communication through the Pulicat Lake to Doogoorauzepatam. The subject Revenue letter, 6th June (No. 30) in rough the Funcat Lake to Doogoorauzepatam. The subject is placed more fully before us in the letters from the Government of Fort St. George, noted in the margin.

- 2. In our despatch to the Madras Government, dated 31 May (No. 12) 1848, we expressed our approval of the proposed expenditure of Rs. 22,047. 7. 9. for the improvement of the water communication between Madras and Scoloorpet, by means of Cochrane's Canal. This portion of the work, it would appear, has not been carried into execution, in consequence of the wish of the Madras Government to give their previous consideration to the recommendation conveyed in our despatch of the 22d July 1846, in favour of Colonel de Havilland's proposition for the extension of the canal. As the work appears to be desirable, it is unnecessary here to do more than renew our sanction to its adoption.
- 3. The extension of the line of water communication to Doogoorauzepatam, at the northern extremity of the Pulicat Lake, was recommended by us to the consideration of the Madras Government in our despatch above referred to of the 22d July 1846. All the officers consulted appear to concur in opinion as to the practicability of this measure. It is proposed to carry it out by means of a channel, to be formed by a dredging machine in the bed of the Pulicat Lake, between Sooloorpett and Doogooranzepatam, and the expense is estimated. after a careful survey by Captain de Butts, the executive engineer, at Rs. 47,274. 15.
 - 4. We are willing to give our sanction to this expenditure, provided that you adhere to the opinion that the proposed measure will not only be of great advantage to the trade of the district, but will also lead to a considerable increase in the traffic and revenue of the existing canal.
- 5. As the work in question is intended to occupy two years in completion, a considerable time must elapse before it will be possible to judge of its results, but we desire to be kept duly informed of the proceedings of the Madras Government on the subject.

We are, &c.

(signed)

J. Sheppard. J. W. Hogg,

London, 31 March 1852.

BEGAREE CANAL

India Revenue Despatch, 25 February (No. 3) 1852.

Our Governor-General of India in Council.

Begaree Canal.

Para. 1. In a letter dated the 26th of September last'(No. 2), the Governorgeneral has solicited our favourable consideration of a project which had been submitted to him by the Government of Bombay, for widening and deepening the Begaree Canal in Upper Sinde. The cost of the work is estimated at 1,30,094 rupees, and the probable return at 1,19,000 rupees per annum. The canal flows partly through territory which belonged to Meer Ali Moorad, and it was proposed that that chief should be called on to defray a portion of the cost, but in the peculiar state of our relations with him, it was deemed un-'advisable

advisable to enter into any negotiation on the subject. Under the decision communicated to you in our Political Despatch, dated the 24th September (No. 33) 1851, no difficulty will probably be found in making the needful arrangements, or perhaps in dispensing altogether with his co-operation.

- 2. The account given by Mr. Frere, in his letter of the 10th June 1851, of the greatly improved condition of that portion of Upper Sinde which is under the charge of Major Jacob (with whom the project under consideration originated), is highly satisfactory. Besides the anticipated increase of revenue, advantages of various kinds, tending to the prosperity of the people, to be expected from the execution of this work, are pointed out by the Commissioner, and we readily accord the sanction solicited.
- 3. We observe with satisfaction the praise bestowed by the Commissioner in Sinde, Mr. Frere, on Major Jacob, for the part he has taken in bringing this project to the notice of Government, and that that recommendation is fully concurred in by the Governor of Bombay.
 - 4. We shall forward a copy of this despatch to the Government of Bombay.

We are, &c.

J. Sheppard. J. W. Hogg,

&c. &c.

London, 25 February 1852.

. 987.

PROGRESS OF THE HINDOOSTAN AND THIBET ROAD.

Public Department, 18th May (No. 26) 1853.

Our Governor-General of India in Council.

Para. 1. THE plan for the construction of this road was regarded Foreign Letter from, dated 7 December by us with great interest when it first came under our notice. Not only did we warmly approve the Governor-general's object of putting an end to the "Begaree system," by the formation of that portion of the line lying between Kalka and Simla, and look with interest to the political and commercial advantages likely to result from the opening of a line of communication with Thibet by way of Chini, but we regarded as highly important the solution of the question raised by Major Kennedy, when he laid out the line, viz., the possibility of constructing, through such a region as the Himalayas, a road which, while formed on correct Kussowlee to Buddee. and scientific principles, might yet be executed at a moderate cost.

(No. 74) 1852.

With reference to paras, 16 to 19 of Public Despatch, dated 15 September (No. 35) 1852, transmit copy of. a report, by Lieutenant Briggs, on the Hindoostan and Thibet Road, with the accompanying minute and correspondence, and solicit sanction to the further works required for the completion of the road, as well as to the construction of a branch road from

2. The results, as exhibited in the highly interesting report of Lieutenant Briggs, must be considered to be eminently satisfactory, so far as the work has yet proceeded. "Within little more than two years," observes the Governorgeneral, "a road of more than 50 miles long, 12 feet broad, and with a ruling gradient of three in 100 feet (temporarily departed from in two places where it will hereafter be rectified), will have been constructed from the Plains to Simla. One half of the road from Simla to Chini, that is 70 miles in length and six feet in breadth, with the same ruling gradient of three feet in 100, has been constructed, and a tunnel of 200 yards in length has been excavated through solid rock. By the aid of the tribute labour due by the hill chiefs, the road of 12 feet in width has cost only 1,237 rupees a mile, and the road of six feet 690 rupees." The leading principle of Major Kennedy's plan, adherence to the ruling level, has thus, as more fully shown by Lieutenant Briggs, been departed from in two or three unimportant instances only; and though the former officer's sanguine expectations as to cost and rapidity of execution, have not perhaps been altogether realised, the experiment has been fully as successful in these respects as could have been expected, had the formidable nature of the country and the difficulty of procuring labour been more accurately known.

X 4.

It appears desirable that this example of the successful working out of an important principle in road-making should be made generally known, and the printing of Lieutenant Briggs' report and its communication, not only to the officers of your Government, but also to the Governments of the other Presidencies, would seem to be the best means of accomplishing this object.

- 3. Additional works are still required on the Kalka and Simla road, at a cost of 10,000 rupees, in order to make it thoroughly complete, and 71 miles of the road between the latter place and Chini still remain to be finished, the cost of which will probably not exceed that of the completed portion. In addition to these works, Lieutenant Briggs proposed the formation of a branch road from Kussowlee to Buddee, at an estimated cost of 15,000 rupees, which would open a way from the Hill Stations to the Punjab, and the Governor-general is desirous that a branch road should be constructed from Dugshai to Subathoo, for the purpose of connecting all the stations in the hills with each other and with the plains. We give our cordial sanction to the expenditure required for the execution of these works.
- 4. We have, in conclusion, to express our concurrence in the commendations bestowed by the Governor-general on Lieutenant Briggs, the perusal of whose report has impressed us with a very high opinion of his general intelligence, as well as of his professional qualifications.

We are, &c.
(signed) R. Ellice.
J. Oliphant,
&c. &c.

London, 18 May 1853.

PENNAIR BRIDGE AND ANNICUT.

Madras Revenue Despatch, 18th February (No. 2) 1852.

Our Governor in Council at Fort St. George.

Pennair Bridge and Annicut.

- Para. 1. In a letter dated the 12th August last (No. 10), the Government of India have submitted for our favourable consideration a project laid before them by your Government for the construction of an annicut (to serve likewise as a bridge) across the Pennair River, in the Nellore district, at a cost of Rs. 85,547. 4. 6.
- 2. This work is intended to secure and extend the cultivation of a large tract of country. It is stated that on the average of the last five years, land bearing an assessment of 13,094 rupees has been annually abandoned, solely from the want of water to irrigate it. This amount would be at once secured by the execution of the proposed work; but it is further confidently anticipated that by increased cultivation, the ultimate gain to the revenue would not fall short of 20,000 rupees.
- 3. Relying on the correctness of your estimates, both of expenditure and return, we accord the sanction solicited by you and by the Government of India. Although in authorising expenditure on works of this description, we of course look to the direct return which they are calculated to produce in the shape of an increase to the land revenue, we are also mainly influenced by a consideration of the great advantages which they afford to the cultivators by extending the field of their labour, securing to them its fruits, and adding to its productiveness.

We are, &c.

London, 18 February 1853.

(signed) J. Sheppard. J. W. Hogg,

&c. &c.

Chetwye Dam.

CHETWYE DAM.

Madras Revenue Despatch, 15th December (No. 19) 1852.

Our Governor in Council at Fort St. George.

- Para. 1. WE now reply to your letters of the dates noted in the margin, forwarding for our sanction a proposal of Major Cotton to construct a dam at Letters dated Chetwee is some miles further down the stream than Yennamaikal and 25th June (No. 39)
- 2. Chetwye is some miles further down the stream than Yennamaikal, and 1852. before finally determining on the new site, the question seems to have received a very careful investigation, and no effort seems to have been spared to arrive at an accurate view of the comparative advantages of the former and proposed position of the dam. The discussion which preceded the decision of the question being of an exclusively professional character, it is not our intention to enter into a review of it. It is sufficient to observe in this place, that Major Cotton appears not only to have effectually disposed of the objections which were urged against the work so far as to carry the opinion of his official superiors with him, but to have obtained the acquiescence of his opponents in the correctness of his views.
- 3. We observe also that the opposition originally offered by the Cochin Sirkar to the removal of the bund from Yennamaikal to Chetwye was based on an erroneous view of the subject, and was subsequently withdrawn.
- 4. In a financial point of view, the proposal of Major Cotton appears to possess many great advantages. The expense of restoring the dam at Yennamai-kul is estimated at Rs. 34,814. 13., and that of constructing a new dam at that place at Rs. 74,214. 4.; while the total expense of a dam at Chetwye is estimated at Rs. 36,215. 14. The revenue derived from the bund at Yennamaikul is 2,500 rupees per annum, and the annual sevenue to be expected from the erection of the bund at Chetwye is, at the lowest estimate, 7,500 rupees. If, therefore, the cost of erecting a bund, and the return to be expected from it at these two positions, be compared, it appears on a rough computation that the work might be executed at Chetwye

at half the cost, while the return would be trebled, showing a return of 3 1 per cent.* on the outlay in one case, and of 21 per cent. in the other.

• Cost.	Return.		Return.				
Rs. 74,000 36,000	Rs. 2,500 7,500	Dec. 3'24 20'83	0r 10	Rs. 3 20	3	11	

- 5. Relying, therefore, on the accuracy of the information and estimates submitted to us, we have no hesitation in according our sanction to Major Cotton's proposal.
- 6. You solicit our orders on another question in connexion with this work, viz., the portion of expense that the Cochin Government should bear in its construction and subsequent maintenance in repair. As the Cochin State will participate in the benefits accruing from the work, it seems but reasonable that that State should contribute towards the expense of constructing it. But the dewan of Cochin, and the Resident, Major-general Cullen, object to such contribution, the former on general grounds, and the latter on the ground that the Cochin Government was in no way responsible for the failure of the bund, and is in consequence of its poverty entitled to liberal consideration. The force of these objections is recognised by your President, while Mr. Thomas does not wholly concur in them.
- 7. Under all the circumstances of the case, we are disposed to concur in the opinion expressed by your President in his minute, dated 12th June 1852, that the Cochin Durbar having intimated its readiness "to contribute to the preservation of the dam so soon as it shall be built, this is as much as ought to be required.'

London, 15 December 1852.

We are, &c. (signed) J. W. Hogg. R. Ellice, &c. &c.

REPAIR of ROADS in the BROACH COLLECTORATE.

Extract Public Letter to Bombay, dated 29th June (No. 22) 1853.

Letter from, dated 15th February (No. 13) 1851.

5) 1852, p. 28.)

Expenditure of 2,000 rupees, out of certain fines imposed on account of the adulteration of cotton, on the repair of roads in the Broach Collectorate, sanctioned, in addition to 1,000 rupees from the annual repair fund, which it was intended to appropriate to the object. An estimate was subsequently sanctioned for the construction, at a cost of 879 rupees, of a causeway over the Dhadur Creek, which had long been a serious obstacle to the traffic between the different parts of the Broach Collectorate. The causeway was to be made by driving in two rows of piles across the river, at the distance of 12 feet apart, the inner sides being boarded with coarse planks, and the centre being filled in with stones and rubbish, which would form the roadway.

Para. 30. It appears to be the decided opinion (Paras, 24, 25; also fetter dated 27th January (No. of Mr. Davies, the Collector, that no expensive measures for the improvement of the roads in the Broach Collectorate are required, and that the removal of the obstacles, arising principally from their narrowness, which at present impede traffic on "the rough though practicable roads," by which the district is intersected in "all directions," may be accomplished without much difficulty. It is highly satisfactory that Mr. Davies finds the inhabitants ready to assist him in these works, and that he expects to be able to carry out his objects as regards the improvement of the roads, without the aid of the engineers' department.

- 31. The want of the means of crossing the numerous streams within the collectorate, appears far more pressing than even that of the repair of the roads, and should receive your early attention. The simple method employed at the Dadur Creek, where it is crossed by the road leading to the port of Tunkariá, may, if successful there, be applicable probably to other places of the same character; but we are desirous of learning whether the suggestion of Mr. Davies to Captain Goodfellow for the construction of "a strong, simple, wooden bridge" over the Kharree, between Khutpoor Sumlee and Hansote, and which he thought might serve as a model for others, if it should be found to answer, has yet been acted on.
- 32. We observe that, in this instance, the Collector of Droach, finding the amount assigned for the repair of the roads in his district insufficient, applied for an additional amount (2,000 rupees) out of the sums realised from fines levied under a recent law upon persons guilty of the offence of adulterating cotton. You are aware of our objection to any special appropriation of assets of this description to local purposes, but we should have entirely approved of your having sanctioned the additional grant out of the general revenues for an object of public benefit, such as that in question.

.. Public Department, 24th May (No. 32) 1853.

Our Governor-General of India in Council.

Preparation of annual schemes for the construction of roads and bridges by the Governments of Fort St. George and Bombay.

- 1. We have been anxiously awaiting the result of the inquiries which, in accordance with our orders of the 30th January 1850, have been instituted by the Governments of Fort St. George and Bombay, with regard to the superintendence and execution of public works at those Presidencies:
- 2. In our consideration of the proceedings of the above-named Governments with regard to various proposed works of public improvement, and especially in the case of roads, we have often, and in that despatch especially, noticed the irregular and unsystematic manner in which the plans laid before them have been disposed of. The sanction given to the several schemes by the local governments, or the recommendations made to your Government in favour of them, appear to have been grounded too frequently on considerations limited to each particular project, and having no reference to the general wants of the country. The natural consequence of such a mode of proceeding, as regards roads, has been that large expenditure has not unfrequently been incurred on lines of inferior importance, while the trunk lines have remained in an imperfect state, on the ground that the necessary funds could not be spared to complete them.

- 3. In the despatch above referred to, we showed ourselves strongly impressed with the evils arising from so imperfect and inadequate a mode of considering the subject, and referred to your consideration not only the best mode of departmental management to be adopted with regard to public works, but also the importance of taking into view all such works, and especially trunk and branch roads, as portions of one connected system. While we shall await the information referred to in the first paragraph of this despatch, before entering on a consideration of the general subject, we are desirous that no time should be lost in applying a remedy for the particular evil we have pointed out.
- 4. It is our opinion that the object in view may best be attained by the adoption of a plan of the following description. Each of the local governments should require, annually, from the officers who, in the respective Presidencies, may be vested with the general charge of the roads, a statement of the new works most urgently required for the purposes of inter-communication, and the execution of which, within the ensuing year, he may be prepared to undertake. On receiving this statement, it would be the duty of the Government to decide, after a careful consideration of the circumstances of the Presidency at the time, whether the works proposed had been properly selected, in preference to others, for immediate execution; and having come to a conclusion on this point, the whole scheme involving the proposed expenditure on new roads and bridges for the coming year, should be submitted for your final sanction and approval.
- 5. The plan above indicated, though peculiarly required with reference to the means of internal communication, ought also to be applied to public works of every description; and believing that much benefit would arise from the means it would afford of bringing annually under review the wants of each Presidency, as regards buildings, works of irrigation, and other works of a miscellaneous character, we direct that its operations be extended accordingly. It is desirable that, with respect to these works, as in the case of roads, the statements should exhibit the entire expenditure proposed to be incurred on new works, whatever may be the amount of the estimate for each; and we forward to you a number in the packet, a copy of the Ordnance Estimate, as annually laid before Parliament. You will find in that portion of them which relates to the public works, the form giving the estimated expense of new works, and the past as well as probable expense of those in progress, and we should recommend that this form should be adopted so far as it is applicable to the circumstances in India.
- 6. We wish it to be distinctly understood, that in issuing these orders, it is far from our desire either to place any further restriction on the amount here-tofore expended on works of public improvement, or to deprive the Governments of Fort St. George and Bombay of any of the power they have hitherto possessed of authorising expenditure on such works. Our object is primarily to secure the application of the money to be expended in such a way as to produce the greatest possible benefit to the country and to the community; but the proposed plan, while preserving to your government that general control over the finances of India, which it is intended that you should possess, will have the advantage of relieving your government from that unnecessary distraction of attention and waste of time, which arise from a number of separate projects, relating to objects of a kindred nature, being brought under your consideration at different periods.

We are, &c.
(signed) . R. Ellice.
J. Oliphant,
&c. &c.

· London, 24 May 1853.

MEMORANDUM on the ROORKEE COLLEGE.

For years there had existed a large demand for skill in every branch of civil engineering, to supply which efforts were for some time made by providing the means of special training in institutions which were then existing. In January 1845, Lieutenant Baird Smith, of the Engineers, superintendent of the Eastern Jumna Canal, undertook to conduct, at Saharunpoor, the education and trainger,

ing of native youths in civil engineering; and two of the most advanced scholars in the Agra and Delhi Colleges were placed under Lieutenant Smith's care. Towards the close of the same year masters were appointed to the Delhi and Agra Colleges for the special purpose of teaching architectural drawing and surveying; a class of "sub-assistant engineers" was also formed, with fixed

allowances and a recognised standing in the public service.

The number of sub-assistant executive engineers was at first limited to four. but was subsequently (22d December 1846) increased to 20. One of Lieutenant Baird Smith's pupils, named Mannoo Lall, was immediately examined. and found qualified for an appointment of this nature; he has since rendered valuable services as a teacher in the Roorkee College. Three other native vouths passed the required examination and obtained appointments as subassistant executive engineers. The chief benefit of the measure had been, to hold out definite expectations to the educated youth in the Government colleges. The standard of mathematical attainments had been designedly fixed high, and there were many who were making great exertions to reach the mark.

In 1847 Lord Hardinge determined on the vigorous prosecution of the Ganges Canal. The science that was necessary to construct a work of this magnitude would also be constantly kept in exercise for its maintenance, improvement and extension; immediate measures were necessary to meet the emergency, and to provide a constant supply of well-trained, experienced civil

engineers. Out of this emergency Roorkee College had its rise.

The proposal for its institution obtained the immediate and cordial support of the Governor-general of India. On October 19th, 1847, Lieutenant R. Maclagan, of the Bengal Engineers, was appointed principal of the college, and on November 25th of the same year the Prospectus was issued:—

No. 949.

General Department, North-Western Provinces. Ilead Quarters the 25th November 1847.

NOTIFICATION.,

by order of the Honourable the Lieut.-Governor of the North-Western Provinces, 1851.

"The Lieutenant-governor directs the publication, for general information, • See Report printed of the following * Prospectus of a college for instruction in civil engineering, which is now established at Roorkee, and of which Lieutenant R. Maclagan, Engineers, has been appointed principal."

It was reported in 1851 that, though little more than three years have passed since the first opening of the college, and during part of that time the exigencies of the public service in the Punjab war caused a temporary suspension of operations, yet a considerable number of well-trained men had been furnished to the service of the state, and the institution had obtained a standing and organization which afforded promise of much future usefulness.

The following measures were proposed, in 1851, for the further development of the scheme which was contemplated in the first design of the institution; viz., -

1st. The admission of officers, both of the Royal and East India Company's armies, to study at Roorkee College.

- 2d. The improvement and superintendence of the village schools in a circle of 40 or 50 miles round Roorkee.
- 3d. The establishment, in connexion with the college, of a depot of mathematical and scientific instruments, and of a workshop for their manufacture and
 - 4th. The formation of a museum of economic geology.
 - 5th. The crection of an observatory for instruction.

6th. The maintenance of metal and stone printing presses, with a bookbinder's establishment, and all that is necessary for the publication of scientific works, with appropriate drawings and illustrations. 7th. The

7th. The enlargement of the college building and establishment to meet all the purposes.

The applications for admission into the several departments of the college had been very great.

The following are Extracts from the Court's Despatches on the subject of the College.

EXTRACT Public Letter to India, dated 28 March (No. 6) 1849.

Para. 2. We concur in the view taken by the Lieutenant-governor of the North-Western Provinces, of the advantages which may reasonably be expected from an institution of this nature, and we therefore approve of its establishment.

EXTRACT Public Letter to India, dated 2 June (No. 23) 1852.

Para. 7. We accordingly give our sanction to the expenditure which will be necessary to carry out the plan of the Lieutenant-governor.

8. While we have been mainly influenced in authorising this large outlay by the considerations placed before us by the Lieutenant-governor, arising from the advantages to the public service, and the general benefits to the people which may be expected from placing the college on a thoroughly efficient footing, we hail with much satisfaction the means which the institution, on its extended plan, will afford to the native youth of qualifying themselves for the service of Government in a way which is, to a great extent, new to them, but for which, so far as they have been tried, they have manifested a perfect aptitude.

EXTRACT Public Letter to India, dated 14 July (No. 27) 1852.

68. We notice with much satistant institution, and we approve the fulness.

Letter from, dated \$1 December (No. 47) 1850.

faction the additional evidence (7 to 9.) The establishment of a class in the Roorkee College for imafforded in these papers of the parting the rudiments of civil engineering in the vennecular language successful working of this impor-16 to 24. At the same time, the allowance of one-third of the whole number was fixed at 10 rupees instead of 5 rupees per mensem, and as it was thought measures which you have sanctioned desirable to encourage the resort to the college of youths from the Punjab, for the further extension of its usesanction was given for the payment of travelling allowance to a limited
number of young men from Lubore.

(True copies.)

East India House, 17 August 1853.

(signed) T. L. Peacock, Examiner of India Correspondence.

PUBLIC WORKS (INDIA).

A RETURN of all Sums spent on Public Works (not of a Military kind) in India, since April 1834, keeping distinct the Amounts spent on the Repairs of Old, and on the Construction of New Works, together with the Objects of the Works newly Constructed; and stating, when remunerative, the Amounts received from such Works.

(Mr. Bright.)

Ordered, by The House of Commons, to be Printed, 20 August 1853.

[Price 1s. 10d.]

Let A. Marine Marine

987.

Under 16 oz.