

P. H. No. 2256.
CIRCULAR MEMO. No. 2070.

Government of Punjab,
PUBLIC WORKS DEPARTMENT,
GENERAL BRANCH.

To

The *Secy. to Government*
of Madras
P.W.D.

Dated 29th March 1882.

Recd 10 April 1882

Forwards, for information and record in
his office, / copy of the Budget-Estimate
of the Imperial Military Works in the Punjab
for the year 1882-83.

C. POLLARD, MAJOR-GENL., R. E.,

Secy. to Govt. Punjab, P. W. D.

B No 932 Waj 14 April 1882

Recorded

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13.4.82

Intd. in Receipt Reg.

So 18/4

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

10th December 1881, No. 3069 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 31. Endorsement of the Chief Secretary to Government, Political Department, dated 2nd December 1881, No. 1942.

From J. C. HANNYNGTON, Esq., Acting British Resident in Travancore and Cochin, to the Chief Secretary to Government, Fort St. George, dated Cochin, 29th November 1881, No. 131.

I HAVE the honor to forward, for the orders of Government, copy of letter* from the Dewan of Travancore applying to Government for the services of Colonel

Mullins, in view to obtaining his professional advice regarding certain important Irrigation works in South Travancore.

From V. RAMIENGAR, Esq., C.S.I., Dewan of Travancore, to the Acting British Resident in Travancore and Cochin, dated Trevandrum, 25th November 1881, No. 6124/P.W. 1845.

You are aware that His Highness' Government have had before them for some years past two Irrigation schemes known as the Codyar project and the Perinjani reservoir. A good deal of money has been spent on their preliminary investigation, and while no definite conclusion has been arrived at regarding the latter, the former is considered quite feasible by the present Chief Engineer, though his opinion in this respect is opposed to that of the late Chief Engineer Mr. Barton. The Government feel that the system of irrigation in South Travancore is defective and capable of great development. The waters of the Codyar in particular are little utilized and run waste to the sea through lands which are at present without any certain means of irrigation. I have been in communication with General Haig, who was understood to be at Dumagudiem in the Godavari District, to ascertain whether he was likely to visit this part of the country, in order that opportunity might be taken of his visit to seek his advice regarding the state of the irrigation in the south generally and the two projects in particular. As from his reply I see no prospect of our being able to avail ourselves of his services, I write to request the favor of your seeking the assistance of the Madras Government in the matter. His Highness' Government would be glad if Colonel Mullins could be spared for a short time. A tour through the southern taluks which embrace comparatively a small area would be all that would be required to enable him to give us the benefit of his professional opinion on the Codyar and Perinjani projects and on our present irrigation system generally. This Government are naturally unwilling to undertake any expensive schemes without first obtaining the advice of an experienced professional officer. They will be glad, of course, to pay Colonel Mullins' travelling expenses, and, if necessary, pay his salary for the time he may be employed in Travancore.

TRANSFERRED to the Public Works Department (General Branch).

(Signed) R. DAVIDSON,
Chief Secretary.

No. 32. ORDER THEREON, 10th December 1881, No. 3069 W.

THE Right Honorable the Governor in Council is informed that the services of Colonel Mullins are not available for the proposed inquiry. Major Mead, R.E., Superintending Engineer, Fourth Circle, can however be spared for a short time, and he will accordingly report when he will be enabled, with the least interruption of his departmental duties, to proceed to Travancore with the objects in view.

2. The Chief Engineer will duly provide for carrying on the work of the circle during Major Mead's absence.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Colonel J. Mullins, R.E.
,, Major H. R. Mead, R.E.
To the British Resident of Travancore.
,, Political Department.
,, Examiner of Public Works Accounts.



BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 1881 Madras.
PUBLIC WORKS.

Colonel J. MULLINS, R.E.,
&c., &c., &c.

Dated December, 10th.

Issued

Recd.

Encl.

G.O., 10th December 1881, No. 3069 W.

DECEMBER.

Nos. 31-32.

Irrigation Works in South Travancore.—
Intimating that the services of Colonel
Mullins are not available for the inspection
of certain —, but that Major Mead, R.E.,
Superintending Engineer, Fourth Circle,
can be spared for a short time for the above
object.

FROM THE EXAMINER F.W.ACCOUNTS,

MADRAS.

TO THE SECRETARY TO GOVERNMENT,

PUBLIC WORKS DEPARTMENT.

NO. 243 W

MADRAS, 30th MARCH 1882.

COPY OF THE FOLLOWING FORWARDED TO THE SECRETARY
TO GOVERNMENT PUBLIC WORKS DEPARTMENT FOR INFORMATION, IN
CONTINUATION OF THIS OFFICE OFFICE NOTE NO. 1305 DATED 29TH.
MARCH 1882.

D. P. Gnanou

EXAMINER F.W.ACCOUNTS.

COPY OF LETTER FROM THE EXAMINER F.W.ACCOUNTS TO THE
SUPERINTENDING ENGINEER 4TH.CIRCLE NO. 408 DATED 30th
MARCH 1882. *SE 4th*

WITH REFERENCE TO YOUR NO. 64 DATED 23RD.MARCH 1882,

I HAVE THE HONOR TO INFORM YOU THAT THE CLAIMS PREFERRED
BY YOU ON ACCOUNT OF TRAVELLING ALLOWANCES IN CONNECTION
WITH YOUR RECENT VISIT TO TRAVANCORE ARE CORRECT, AND THAT
THE AMOUNT OF THE BILL VIZ. RS. 305-8-1 MAY BE DISBURSED BY
THE EXECUTIVE ENGINEER COIMBATORE DIVISION AND DEBITED TO
MISCELLANEOUS ADVANCES PENDING RECOVERY OF THE AMOUNT FROM
THE TRAVANCORE GOVERNMENT.

IMPERIAL
MILITARY WORKS.

PUNJAB PROVINCE.

FINAL ISSUE.

PUBLIC WORKS DEPARTMENT.

IMPERIAL BUDGET-ESTIMATE

OF

"MILITARY WORKS"

IN

PUNJAB PROVINCE,

FOR THE YEAR

1882-83.

Punjab Govt. Press, P. W. D.—100—29-3-82.

P. W. C. J. 2084
FROM THE EXAMINER F.W. ACCOUNTS,
MADRAS.

TO THE SECRETARY TO GOVT.
F.W. DEPARTMENT.

NO. 243W

DATED 30th MARCH 1882.
RECD. 31st —

B. No 931 Waf 14 April 1882.

MAJOR MEAD'S TRAVELLING
ALLOWANCES WHILE EMPLOYED IN
TRAVANCORE-----

FORWARDS COPY OF LETTER ADDRESS-
ED TO SUPERINTENDING ENGINEER 4TH.
CIRCLE REGARDING -----

Entd. in Receipt Regr.

with order

2078/4

No 931 Waf 14 April 1882.

*Recorded with
reference to Sp. No 8764
73 April 1882.*

13.4.82

*Sp 3069 W. 10-12-81
876.74. 3-4-82
Sp 8080. 25-1-82*

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IMPERIAL
MILITARY WORKS.

PUNJAB PROVINCE

REVENUE.

ABSTRACT OF THE BUDGET-ESTIMATE OF REVENUE OF PUBLIC WORKS DEPARTMENT FROM MILITARY WORKS
IN THE GENERAL BRANCH, PUNJAB, FOR THE YEAR FROM 1st APRIL 1882 TO 31st MARCH 1883.

	BUDGET- ESTIMATE, 1882-83.	REGULAR BUDGET- ESTIMATE, 1881-82.	BUDGET- ESTIMATE, 1881-82.	ACTUALS, 1880-81.
	Rs.	Rs.	Rs.	Rs.
In Public Works Department	4,500	4,000	4,000	1,696
In Civil and Military Departments	1,500	8,000	8,000	15,155
Total.....	6,000	12,000	12,000	16,851

CHARGES.

ABSTRACT OF THE BUDGET-ESTIMATE OF EXPENDITURE OF THE PUBLIC WORKS DEPARTMENT ON MILITARY
WORKS IN THE PUNJAB, GENERAL BRANCH, FOR THE YEAR FROM 1st APRIL 1882 TO 31st MARCH 1883.

	REFER- ENCE TO DETAILED ESTI- MATE.	BUDGET- ESTIMATE, 1882-83.	REGULAR ESTIMATE, 1881-82.	BUDGET- ESTIMATE, 1881-82.	ACTUALS, 1880-81.
	PAGE.	Rs.	Rs.	Rs.	Rs.
ORIGINAL WORKS { IN PROGRESS	4-5	47,000	1,97,257	1,08,000	44,820
{ NOT COMMENCED		88,000	1,06,000	1,47,000	95,092
REPAIRS..... { ORDINARY	...	1,03,450	1,82,700	1,63,700	1,33,234
{ SPECIAL		16,550	9,300	9,300	5,001
ESTABLISHMENT	...	58,500	1,23,815	1,07,000	68,287
TOOLS AND PLANT.....	...	3,500	7,428	6,500	4,097
SUSPENSE ACCOUNTS.....	...	...	...	...	...
BARRACK DEPARTMENT.....	6	8,500	8,500	8,500	11,987
TOTAL.....	...	3,25,500	6,35,000	5,50,000	3,62,518

IMPERIAL
MILITARY WORKS.

ABSTRACT OF THE CHARGES TO BE INCURRED BY THE PUBLIC WORKS DEPARTMENT FROM IMPERIAL FUNDS
AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

ABSTRACT OF THE CHARGES TO BE INCURRED BY THE GOVERNMENT OF INDIA IN THE YEAR 1882-83. AND CONTRIBUTIONS IN BOTH INDIA AND ENGLAND.

BUDGET-ESTIMATE, 1882-83.										REGULAR ESTI- MATE, 1881-82.	BUDGET- ESTI- MATE, 1881-82.	ACTUALS, 1880-81.
ORIGINAL WORKS.			REPAIRS.	ESTABLISH- MENT.	TOOLS AND PLANT.	SUSPENSE AC- COUNTS.	BARRACK DE- PARTMENT.	TOTAL.				
In pro- gress.	Not com- menced.	Total.										
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
PROVISION FROM IMPL. FUNDS— In India ..	47,000	88,000	1,35,000	1,20,000	58,500	3,500	...	8,500	3,25,500	6,35,000	5,50,000	3,62,518
In England ..	...	...	...	...	...	...	...	...	...	...	...	...
Total ..	47,000	88,000	1,35,000	1,20,000	58,500	3,500	...	8,500	3,25,500	6,35,000	5,50,000	3,62,518
PROVISION FROM CONTRIBUTIONS— In India ..	...	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL	47,000	88,000	1,35,000	1,20,000	58,500	3,500	...	8,500	3,25,500	6,35,000	5,50,000	3,62,518

STATEMENT SHOWING THE WORKS ON WHICH THE OUTLAY IN ENGLAND ABOVE PROVIDED FOR IS TO BE INCURRED.

STATEMENT SHOWING THE WORKS ON WHICH THE OUTLAY IS ENDED											
BUDGET-ESTIMATE, 1882-83.											
MILITARY WORKS.	ORIGINAL WORKS.			TOOLS AND PLANT.	SUSPENSE AC- COUNTS.	TOTAL.	REGULAR ESTI- MATE, 1881-82.	BUDGET- ESTI- MATE, 1881-82.	ACTUALS 1880-81.		
	In pro- gress.	Not com- menced.	Total.								
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Nil.											

IMPERIAL
MILITARY WORKS.

PART I.

DETAIL OF THE BUDGET-ESTIMATE*

ORIGINAL WORKS FOR THE YEAR 1882-83.

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION.	LOCALITY.	ITEM No.	PROJECTS AND WORKS.	AMOUNT OF ESTIMATE.	OUTLAY.		
						Actuals to end of 1880-81.	Probable during 1881-82 (Regulated Estimate)	by Estimate
					Rs.	Rs.	Rs.	
Mily. Build-ings for Na-tive Troops	Derajat	D. G. Khan	1	Construction of out-houses to hospital, Cavalry Lines	8,650	..	2,600	
"	"	D. I. Khan..	2	Converting Lines of Field Battery into Mountain Battery Lines	21,921	..	5,000	
"	"	"	3	Constructing hospital in Left Native In-fantry Lines	12,799	..	3,000	
"	"	"	4	Constructing out-houses for hospital for Right Native Infantry Lines	6,635	..	2,600	
"	Peshawar	Abbott-abad	5	Reconstructing and reroofing Right Native Infantry Lines	87,139	..	7,000	
"	Derajat	D. I. Khan..	6	Constructing hospital for Native Cavalry and Artillery combined	20,000	..	..	
"	Peshawar	Abbott-abad	7	Extensions and improvements of Left Native Infantry Lines	..	..	..	
"	"	"	8	Constructing a block of 4 wards and a dead-house for infectious diseases, &c., attached to the present hospital	3,500	..	..	
"	"	Mardán	9	Constructing a new hospital for Native Troops	32,000	..	..	
Fortifications	Kohát	Bahádur Khel	10	Certain improvements and alterations to the Fort and removal of horn-work at Bahádur Khel	4,000	..	..	
"	Derajat	Edwardes-abad	11	Certain improvements to Fort Dalipgarh ..	..	..	..	
"	Swát River Canal	Peshawar	12	Swát River Canal fortified posts— Buildings Miscellaneous Maintenance	2,07,421	98,738	20,000	
Communica-tions	Derajat	Bannu	13	Improvements to road through Bain Dara Pass	4,000	..	2,000	
			14	Allotment for Minor Works	..	..	..	
TOTAL ORIGINAL WORKS					..	..	..	

* Includes Rs. 10,000 and Rs. 15,000 for items 2 and 5 as ordered by Government

(4)

GRANT, 1882-83.										ITEM No.	REMARKS AND REFERENCES.
Normal.			Special.			Total.					
Works in pro- gress.	Works not commenced.	Total.	Works in pro- gress.	Works not commenced.	Total.	Works in pro- gress.	Works not commenced.	Total.			
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.			
6,000	..	6,000	..	..	..	6,000	..	6,000	1	Item No. 3 of Budget 1881-82. Estimate sanctioned by Local Government in May 1881.	
..	..	..	..	..	..	..	..	..	2	Item No. 4 of Budget 1881-82. Estimate returned to Superintending Engineer for revision, with a view to the reduction of cost. The work is allowed to stand as a provisional arrangement, but the grant of Rs. 10,000 for it is disallowed and added to the reserve along with the grant for Minor Works vide para. 7 of Government of India, Military Department, No. 241 M-W dated 8th March 1882, conveying orders on the Preliminary Issue of the Imperial Military Budget for 1882-83.	
10,000	..	10,000	..	..	..	10,000	..	10,000	3	Item No. 6 of Budget 1881-82. Estimate submitted by Superintending Engineer.	
4,000	..	4,000	..	..	..	4,000	..	4,000	4	Item No. 7 of Budget 1881-82. Estimate sanctioned by Local Government in June 1881.	
..	..	..	..	..	..	..	..	..	5	Item No. 12 of Budget 1881-82. Estimate sanctioned by the Government of India, Military Department, in letter No. 186 M-W dated 21st February 1882. The work is allowed to stand as a provisional arrangement, but the grant of Rs. 15,000 for it is disallowed and added to the reserve along with the grant for Minor Works vide para. 7 of Government of India, Military Department, No. 241 M-W dated 8th March 1882 conveying orders on the Preliminary Issue of the Imperial Military Budget for 1882-83.	
..	10,000	10,000	10,000	..	..	..	..	10,000	6	Item No. 8 of Budget 1881-82. Estimate under preparation. It has been considered advisable to construct a combined building for both the Cavalry and Artillery in lieu of providing separate accommodation for each.	
..	10,000	10,000	10,000	..	..	..	..	10,000	7	Estimate called for. The work is considered most urgent by the Military Authorities.	
..	3,000	3,000	3,000	..	..	..	..	3,000	8	Ditto ditto ditto.	
..	10,000	10,000	10,000	..	..	..	..	10,000	9	Ditto ditto ditto.	
..	3,000	3,000	3,000	..	..	..	..	3,000	10	Recommended by the Defence Committee, and ordered by the Government of India, P. W. D., to be carried out in their No. 1027 M-W dated 16th December 1881. Estimate has been called for.	
..	7,000	7,000	7,000	..	..	..	..	7,000	11	Ditto ditto ditto.	
25,000	..	25,000	25,000	..	..	..	25,000	..	12	Item No. 13 of Budget 1881-82. Estimate sanctioned by Government of India.	
2,000	..	2,000	2,000	..	..	..	2,000	..	13	Item No. 14 of Budget 1881-82. Estimate returned for amendment.	
..	45,000	45,000	45,000	..	..	..	..	45,000	14		
47,000	88,000	1,35,000	1,35,000	..	..	..	47,000	88,000	1,35,000		

of India, Military Department, No. 241 M-W dated 8th March 1882.

(5)

of India, Military Department, No. 241 M-W dated 8th March 1882.

(5)

IMPERIAL
MILITARY WORKS.

PUNJAB PROVINCE.

PART II.

DETAIL OF THE BUDGET-ESTIMATE FOR REPAIRS, IMPERIAL MILITARY WORKS,
FOR THE YEAR 1882-83.

HEAD OF CLASSIFICATION.	DIVISION.	LOCALITY.	DESCRIPTION.	ESTIMATE, 1882-83.					ESTIMATE, 1881-82.	
				Periodical.	Quadrennial.	Minor and occasional.	Total.	Total.	Amount.	Total.
				Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Buildings for Accommodation of Troops.	Derajat ...	Rajanpur	Repairs to Native Cavalry Lines ...	400	50	50	500		400	
			Do. to detachment, Native Infantry Lines.	500	50	150	700		700	
							1,200		1,100	
		D. G. Khan	Do. to Native Cavalry Lines ...	550		150	700		700	
			Do. to Right Native Infantry Lines.	1,200	200	300	1,700		1,450	
		"	Do. to Left Native Infantry Lines.	150	50	50	250		200	
							2,650		2,350	
		D. I. Khan	Do. to station hospital and cells...	200	50		250		560	
			Do. to buildings for detachment of British Infantry.	1,200	600	440	2,240		2,240	
		"	Do. to Officers' quarters of British Infantry.	600	300	300	1,200		1,200	
			Do. to Native Artillery Lines ...	800	100	150	1,050		1,050	
		"	Do. to Native Cavalry Lines ...	100	50	50	200		200	
			Do. to Right Native Infantry Lines	860	200	100	1,160		1,160	
		"	Do. to Left ditto ditto	1,080	200	200	1,480		1,480	
							7,580		7,890	
	Edwardesabad.	"	Do. to Native Artillery Lines ...	500	100	100	700		700	
			Do. to Cavalry Lines ...	300	50	25	375		375	
		"	Do. to Infantry Lines in Fort Dalipgarh.	1,000	200	150	1,350		1,350	
			Do. to Native Infantry Lines in horn-work, Fort Dalipgarh.	800	200	100	1,100		1,100	
		"	Do. to quarters for British Officers of Native Infantry, Fort Dalipgarh.	350	150	100	600		600	
			Do. to Garrison Hospital for Native Troops.	350	100	50	500		500	
							4,625		4,625	
	Kohat ...	Kohat	Do. to Native Artillery Lines ...	650	200	400	1,250		1,200	
			Do. to do. Cavalry Lines ...	200	100	100	400		250	
		"	Do. to Right Native Infantry Lines.	800	200	200	1,200		1,500	
			Do. to Centre ditto ditto	400	150	100	650		800	
		"	Do. to Left ditto ditto	600	400	200	1,200		1,050	
			Do. to Garrison Hospital Buildings for Native Troops.	1,000	200	100	1,300		2,900	
		"	Do. to solitary cells for Garrison to house purchased as hospital for British Troops.	100	50	50	200		150	
							6,200		500	
	Peshawar	Mardán	Do. to Native Infantry Lines ...	1,200		100	1,300		1,250	
			Do. to Garrison Hospital ...	300		100	400		300	
		"	Do. to British Officers' quarters and mess-house, Native Infantry.	2,500		500	3,000		2,950	
							4,700		4,500	
		Abbottabad.	Do. to Native Artillery buildings	1,400		100	1,500		1,200	
			Do. to Right Native Infantry Lines.	1,400		100	1,500		1,450	
		"	Do. to Left ditto ditto	1,400		100	1,500		1,500	
			Do. to Garrison Hospital, Native Troops.	900		100	1,000		950	
							5,500		5,100	
			Carried over					32,455		33,915

IMPERIAL
MILITARY WORKS.

PART II.

DETAIL OF THE BUDGET-ESTIMATE FOR REPAIRS—CONTINUED.

DETAIL OF THE BUDGET.				ESTIMATE, 1882-83.					ESTIMATE, 1881-82.		
HEAD OF CLASSIFICATION.	DIVISION.	LOCALITY.	DESCRIPTION.	Periodical.	Quadrennial.	Minor and occasional.	Total.	Total.	Amount.	Total.	
				Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Buildings for Accommodation of Troops—continued.	Ráwalpindi	Jhelum ...	Brought forward ...	...	...	...	...	32,455	...	33,915	
		" ...	Repairs to Native Cavalry Lines ...	600	100	100	800		1,400		
		" ...	Do. to Right Native Infantry Lines	500	100	100	700		800		
		" ...	Do. to Left ditto ditto	500	100	100	700		800		
		Talagang	Do. to Native Infantry Lines ...	600	100	100	800	2,200	1,000	3,000	
	Ordnance Works.	Deraját ...	D. I. Khan	Total Accommodation for Troops	...	...	...	...	800		1,000
			"	Repairs to Magazine Buildings in Fort Akálgarh.	200	100	50	350		350	
			"	Do. to quarters of Deputy Commissary of Ordnance and Subordinates.	300	100	50	450	800		800
			Edwardesabad.	Do. to Magazines	100	...	...	100		100	
			"	Do. to Park Sergeant's quarters	100	...	...	100	200	100	200
Kohát ...		Kohát ...	Do. to Magazine	...	150	...	...	150		100	
		" ...	Do. to Park Sergeant's quarters	...	50	...	...	50		100	
		" ...	Do. to store-room	...	100	...	...	100		100	
			Total Ordnance Works	...	...	...	...	300		300	
					...	...	...	...	1,300		1,300
Commissariat Buildings.	Deraját ...	D. I. Khan	Repairs to Commissariat dry store godown.	200	50	50	300		300		
		"	Do. to Warrant Officers' quarters	100	...	50	150	450	150	450	
		"	Do. to Commissariat buildings ...	200	...	50	250	250	250	250	
	Kohát ...	Kohát ...	Do. to Commissariat buildings ...	...	...	...	...	700		700	
			Total Commissariat Buildings	...	...	...	...		150	150	
					100	...	100	200	200	800	800
Staff and Miscellaneous Buildings.	Deraját ...	Edwardesabad.	Repairs to treasure vault, guard-house and grain-godown.	...	250	...	250	250	300	300	
		Kohát ...	Do. to refuge barrack	...	250	...	50	300	300	300	
	Pesháwar	Abbottabad.	Do. to Assistant Adjutant-General's office.	...	...	...	...	750		1,250	
			Total Staff & Miscellaneous Buildings	...	...	...	...		4,000	4,000	
	Stud Buildings.	Delhi ...	Hissár ...	Repairs to Cattle Farm buildings	5,000	...	1,000	6,000	6,000		4,000
			Total Stud Buildings	...	...	...	...	6,000		4,000	
Roads to Hill Stations and Military Lines of Communications.	Ráwalpindi	Ráwalpindi	Renewal of metal and maintenance of Tarnaul and Khushálgarh road.	...	...	...	...		40,000	40,000	
		Kohát ...	Maintenance of boat-bridge	...	...	...	...		15,000	15,000	
	Deraját ...	Khushálgarh.	Repairs to frontier roads connecting frontier posts.	1,500	...	...	1,500	1,500	1,520	1,520	
		Rájanpur	Ditto	1,300	...	...	1,300	1,300	1,300	1,300	
	Kohát ...	D. G. Khan	Ditto	1,800	...	...	1,800	1,800	1,400	1,400	
		D. I. Khan	Ditto	1,400	...	...	1,400	1,400	1,400	1,400	
		Edwardesabad.	Ditto	650	...	...	650	650	500	500	
		Kohát ...	Ditto	...	...	...	...	6,650		61,120	
			Total Military Lines of Commns.	...	...	...	...	50,855		1,06,285	
			Carried over	...	...	...	...				

IMPERIAL
MILITARY WORKS.

PART II.

DETAIL OF THE BUDGET-ESTIMATE FOR REPAIRS—CONTINUED.

DETAIL OF THE BUDGET-ESTIMATE FOR REPAIRS—CONTINUED.

HEAD OF CLASSIFICATION.	DIVISION.	LOCALITY.	DESCRIPTION.	ESTIMATE, 1882-83.					ESTIMATE, 1881-82.		
				Periodical.	Quadrennial.	Minor and occasional.	Total.	Total.	Amount.	Total.	
				Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Ordinary Maintenance charge of Cantonment Roads.			Brought forward ...	...	...	...	...	50,855	...	1,06,285	
	Deraját ...	Rájanpur	Ordinary maintenance of Cantonment roads.	600	...	...	600		600		
		D. G. Khan	Ditto ditto	...	600	...	...	600	600		
		D. I. Khan	Ditto ditto	...	600	...	...	600	600		
		Edwardesabad.	Ditto ditto	...	1,200	...	...	1,200	600	2,400	
	Kohát ...	Kohát ...	Ditto ditto	...	800	...	...	800	800	800	
	Pesháwar	Mardán ...	Ditto ditto	...	800	...	...	800	800		
		Abbottabad.	Ditto ditto	...	900	...	...	900	900	1,700	
	Ráwalpindi	Jhelum ...	Ditto ditto	...	800	...	...	800	600		
		Talagang	Ditto ditto	...	700	...	...	700	700	1,300	
			Total Ordinary Maintenance of Cantonment Roads ...	...	...	...	...	7,000	...	6,200	
Renewal of Metal of Cantonment Roads.	Deraját ...	D. G. Khan	Renewal of metal of Cantonment roads.	...	...	...	...		2,000		
		D. I. Khan	Ditto ditto	...	2,000	...	...	2,000	2,000		
		Edwardesabad.	Ditto ditto	...	...	...	...	2,000	1,000	6,000	
	Pesháwar	Abbottabad	Ditto ditto	...	...	...	...		1,000	1,000	
	Ráwalpindi	Jhelum ...	Ditto ditto	...	1,600	...	...	1,600	1,400	1,400	
			Total Renewal of Metal of Cantonment Roads ...	...	...	...	...	3,600	...	8,400	
Repairs to General Cantonment Works.	Deraját ...	D. I. Khan	Maintenance of trees round Fort Akálgarh.	1,000	...	...	1,000		1,000		
		" "	Maintenance of river protective works	20,000	...	...	20,000		24,500	25,500	
	Kohát ...	Kohát ...	Maintenance and care of water-supply scheme.	800	...	...	800		600	600	
			Total Repairs to General Cantonment Works ...	...	...	...	...	21,800	...	26,100	
Fortifications.	Deraját ...	Rájanpur Command.	Repairs to frontier posts at—								
		"	Harrand	...	400	...	...	400		400	
		"	Drigri	...	300	...	...	300		300	
		"	Rum-ki-Thal	...	250	...	...	250		250	
		"	Muhammadpur	...	250	...	...	250		250	
		"	Sabzal-ki-Kot	...	300	...	...	300		300	
		"	Toziáni	...	200	...	...	200		200	
		"	Dilbar	...	200	...	...	200		200	
		"	Bandowáli	...	450	...	...	450		400	
		"	Sher Pohowáli	...	150	...	...	150		150	
									2,500		2,450
		D. G. Khan Command.	Vehowah	...	200	...	...	200		200	
		"	Jhok Budhu	...	100	...	...	100		100	
		"	Mangrota	...	500	...	...	500		500	
		"	Mohar	...	300	...	...	300		300	
"	Núrpur	...	200	...	...	200		200			
"	Vidor	...	150	...	...	150		150			
							1,450		1,450		
			Carried over ...	...	...	...	...	3,950	3,900		
							83,255		1,46,985		

HEAD OF CLASSIFICATION.	DIVISION.	LOCALITY.	DESCRIPTION.	ESTIMATE, 1882-83.					ESTIMATE, 1881-82.			
				Periodical.	Quadrennial.	Minor and occasional.	Total.	Total.	Amount.	Total.		
				Rs	Rs	Rs	Rs	Rs	Rs	Rs		
Fortifications—continued.	Derajat ...	D. I. Khan Command	Brought forward ... {	...	...	...	...	83,255	...	1,46,985		
			Repairs to Fort Akalgarh	800	...	200	1,000	3,950	1,000	3,900		
			Repairs to fortified posts in Dera Ismail Khan District—	...	...	...	...	1,000	...	1,000		
			Bain Darra	...	130	...	...	130	...	130		
			Mullazai	...	200	...	...	200	...	200		
			Kot Nasran	...	200	...	...	200	...	200		
			Girni	...	650	...	...	650	...	650		
			Zam	...	450	...	...	450	...	450		
			Kot Khirgi	...	150	...	...	150	...	150		
			Manghi	...	125	...	...	125	...	125		
			Murtaza and Jatta	...	150	...	...	150	...	150		
			Luni	...	200	...	...	200	...	200		
			Zarkani	...	160	...	...	160	...	160		
			Draband	...	300	...	...	300	...	300		
			Rest-house at Tank	...	100	...	...	100	...	100		
			Ditto at Ama Khel	...	100	...	...	100	...	100		
			Shah A'lam	...	50	...	...	50	...	50		
			Chaudwan	...	50	...	...	50	...	50		
			Kot Tagga	...	50	...	...	50	...	50		
			Gulwali	...	50	...	...	50	...	50		
			Daulatwala	...	50	...	...	50	...	50		
			Edwardsabad.	Repairs to Fort Dalipgarh	...	1,200	...	300	1,500	3,165	1,500	3,165
			Bannu Command.	Repairs to fortified posts in Bannu District—	...	200	...	...	200	1,500	200	1,500
			"	Khairu Khel	...	...	...	...	...	...	...	...
			"	Garwali (tower)	...	...	...	...	...	...	...	...
			"	Kurram	...	500	...	...	500	...	600	...
			"	Tochi	...	...	...	...	...	...	...	...
			"	Barji	...	...	...	...	...	...	...	...
			"	Walli	...	...	...	...	...	...	...	...
			"	Tojori	...	300	...	...	300	...	200	...
			"	Kurram	...	200	...	...	200	...	200	...
			"	Barganatto	...	200	...	...	200	...	200	...
			"	Barni	...	600	...	...	600	...	600	...
			"	Jani Khel	...	200	...	...	200	...	200	...
			"	Gumatti	...	...	...	...	...	2,200	...	2,200
			Kohat ...	Bahadur Khel.	Repairs to Fort	...	600	...	...	600	500	500
			Kohat ...	Kohat	Ordinary repairs to fortifications Fort Kohat	1,400	...	...	1,400	600	1,400	...
					Repairs to Forts and Frontier Posts—	...	200	...	200	1,400	200	1,400
				"	Fort Garnett	...	400	...	400	...	200	...
				"	Muhammadzai Post	...	150	...	150	...	100	...
	"	Banda	...	150	...	150	...	100	...			
	"	Lachi	...	100	...	100	...	50	...			
	"	Gadda Khel	...	250	...	250	...	200	...			
	"	Latammar	...	150	...	150	...	100	...			
	"	Watch towers	...	...	...	...	1,400	950	...			
Peshawar	Bara Fort	Repairs to Fort Bara	...	500	...	...	500	500	500			
	Mardan ...	Ditto	...	800	...	200	1,000	1,000	1,000			
	Haripur ...	Ditto Harkishangarh	...	300	...	...	300	300	300			
	Agror ...	Ditto to post at Ughi	...	300	...	...	300	100	100			
Rawalpindi	Jhelum ...	Repairs to fortified post	...	200	...	...	200	200	200			
		Total Repairs, Fortifications	...	...	...	...	17,515	...	16,715			
		TOTAL REPAIRS, ORDINARY	...	...	...	...	1,00,770	...	1,63,700			
		Carried over	...	...	...	...	1,00,770	...	1,63,700			

PART II.

DETAIL OF THE BUDGET-ESTIMATE FOR REPAIRS—CONCLUDED.

HEAD OF CLASSIFICATION.	DIVISION.	LOCALITY.	DESCRIPTION.	ESTIMATE, 1882-83.					ESTIMATE, 1881-82.	
				Periodical.	Quadrennial.	Minor and occasional.	Total.	Total.	Amount.	Total.
			Brought forward ...	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
			SPECIAL REPAIRS.					1,00,770		1,63,700
Delhi ...	Hissár ...		Repairs to Cattle Farm buildings ...							
Derajat ...	D. I. Khan		Renewing roof of married men's barrack in Left Native Infantry Lines.			5,480	5,480	5,480	3,000	3,000
	"		Renewing roof of Khalásis' lines in Right Native Infantry Lines.						300	
	"		Renewing roof of verandah of Gunners' barrack in Artillery Lines.						300	
	"		Special repairs to roof of Right Native Infantry Lines.						400	
	"		Special repairs to roof of Left Native Infantry Lines.			1,000	1,000			
	"		Special repairs to roof of Native Artillery Lines.			1,000	1,000			
	"		Special repairs to wells in Artillery Lines.			500	500			
	"		Special repairs to roof of Native Artillery Lines.			2,000	2,000			
Edwardsabad.			Special repairs of Native Infantry Lines in Fort Dalipgarh.					4,500		1,000
"			Special repairs of timbers of Garrison Hospital.						700	
"			Restoring levels of Fort ditch			2,700	2,700		1,800	
"			Repairs to floor and roof of store godown, Fort Dalipgarh.						300	
"			Improving drainage, Fort Dalipgarh.			300	300			
"			Do. Artillery Lines							
"			Special repairs to escape wall, Fort Dalipgarh.			500	500			
"			Reroofing and repairing Native Officers' quarters, Horn-work, Fort Dalipgarh.			400	400			
"			Special repairs to supply-channel			350	350			
"			Ditto buildings of Native Troops.			500	500			
Rawalpindi	Jhelum					300	300	5,050		2,800
Kohát	Kohát		Special care and maintenance water-supply scheme.						1,500	1,500
Pesháwar	Abbottabad		Reroofing verandahs of married men's barracks.			1,200	1,200	1,200	1,000	1,000
	Haripur		Special repairs to Fort Harkishangarh			2,000	2,000			
						1,000	1,000	3,000		
			TOTAL SPECIAL REPAIRS ...					19,230		9,300
			GRAND TOTAL REPAIRS ...					1,20,000		1,73,000

PART V.

BUDGET-ESTIMATE OF THE BARRACK DEPARTMENT FOR THE YEAR 1882-83.

EXECUTIVE DIVISION.	ITEM No.	LOCALITY.	WORK OR PROJECT.	BUDGET-ESTIMATE, 1881-82.	GRANT, 1882-83.	ITEM No.	REMARKS AND REFERENCES.
				Rs.	Rs.		
Derajat	.. 1	Dera Gházi Khan ..	...	2,500	2,500	1	
"		Dera Ismail Khan ..	...				
"		Bannu ..	...				
"		Rájanpur ..	...				
Rawalpindi	.. 2	Jhelum ..	...	1,200	900	2	
"	3	Talagang ..	...		300	3	
Pesháwar	.. 4	Mardán ..	...	600	500	4	
"	5	Abbottabad ..	...	1,200	1,500	5	
Kohát	.. 6	Kohát ..	...	2,200	2,000	6	
Add 10 per cent. for Estabtd.	..			800	800	...	
Total	...			8,500	8,500		

PART VI.

ABSTRACT OF THE PROBABLE INCREASE OR DECREASE IN THE SUSPENSE BALANCES OF THE DIVISIONS CLASSED AS IMPERIAL BUILDINGS AND ROADS FOR 1882-83, AND PROVIDED FOR IN THE IMPERIAL BUDGET-ESTIMATE OF MILITARY WORKS FOR THAT YEAR.

NOTE.—No Increase or Decrease in the Suspense or Stock Balances is anticipated.

IMPERIAL
MILITARY WORKS.

APPEN

LIST OF WORKS (OR CLASS C WORKS) OMITTED FROM THE BUDGET-ESTIMATE FOR 1882-83, BUT ON WHICH

HEAD OF CLASSIFICATION.	EXECUTIVE DIVISION.	LOCALITY.	ITEM No.	PROJECTS AND WORKS.	AMOUNT OF ESTIMATE.	OUTLAY.	
						Actuals to end of 1880-81.	Probable during 1881-82, (Regular Estimate).
					Rs	Rs	Rs
Mily. Buildings for Native Troops	Derajat	D. G. Khan	1	Completing reconstruction of Left Native Infantry Lines	2,78,925	19,415	67,000
"	"	Edwardesabad	2	Completing accommodation, Artillery Lines	15,000	...	...
"	Rawalpindi	Jhelum	3	Reroofing hospital, Right Native Infy. Lines	7,300	...	...
"	Peshawar	Abbottabad	4	Extension of Native Artillery Lines	8,100	...	...
"	Kohat	Kohat	5	Reconstruction of Centre Native Infy. Lines	1,21,758	...	...
Fortifications	Peshawar	Mardan	6	Alteration to Fort and two new extra barracks for Guides	24,000	...	...
"	Kohat	Kohat	7	Certain improvements to the Fort at Kohat	10,000	...	...
Genl. Cantonment Works	Derajat	D. G. Khan	8	Drainage in Cantonment	3,500	...	...
Water-supply, Drainage, &c.	"	Edwardesabad	9	Making water-courses and masonry drains in Cantonment	8,000	...	...
"	Kohat	Kohat	10	Constructing two large masonry drains for water-supply	3,798	...	...
Cantonment Roads	Derajat	Rajanpur	11	Metalling road round Cantonment	4,643	...	...
"	"	Edwardesabad	12	Ditto ditto	7,000	...	...
"	Peshawar	Mardan	13	Ditto from mess-house to Cantonment boundary	2,500	...	...
Military Lines of Communications	Derajat	D. G. Khan	14	Raising Vidor road between Shoria and Manka Canals	3,000	...	...
"	"	"	15	Roads in Lower Derajat	...	...	...
TOTAL ORIGINAL WORKS					...	...	...

DIX B.

EXPENDITURE MAY BE INCURRED DURING THE YEAR BY RE-APPROPRIATION FROM CLASS B WORKS.

GRANT, 1882-83.										ITEM No.	REMARKS AND REFERENCES.
Normal.			Special.			Total.					
Works in pro- gress.	Works not commenced.	Total.	Works in pro- gress.	Works not commenced.	Total.	Works in pro- gress.	Works not commenced.	Total.			
Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs			
1,00,000	...	1,00,000	...	...	...	1,00,000	...	1,00,000	1	Item No. 2 of Budget 1881-82. Estimate returned for amendment and revision to Superintending Engineer. This work was included in the Preliminary Issue of the Imperial Military Budget Estimate 1882-83 but was disallowed by Government of India, Military Department, in para. 6 of their letter No. 241 M-W dated the 8th March 1882 conveying orders on it.	
...	15,000	15,000	...	...	...	...	15,000	15,000	2	Bough project under preparation.	
...	7,300	7,300	...	...	...	...	7,300	7,300	3	Item No. 9 of Budget 1881-82.	
...	6,000	6,000	...	...	...	...	6,000	6,000	4	Recommended by the Annual Standing Barrack Committee.	
...	50,000	50,000	...	...	...	...	50,000	50,000	5	Estimate received.	
...	24,000	24,000	...	...	...	...	24,000	24,000	6	Item No. 2 (Class C), Budget 1881-82. Recommended by the Annual Standing Barrack Committee.	
...	10,000	10,000	...	...	...	...	10,000	10,000	7	Recommended by the Defence Committee. Estimate called for.	
...	3,500	3,500	...	...	...	...	3,500	3,500	8	Item No. 5 (Class C), Budget 1881-82. Estimate prepared.	
...	8,000	8,000	...	...	...	...	8,000	8,000	9	Item No. 6 (Class C), Budget 1881-82. Work considered very desirable by the Brigadier-General Commanding Punjab Frontier Force.	
...	3,800	3,800	...	...	...	...	3,800	3,800	10	Item No. 7 (Class C), Budget 1881-82. Estimate prepared.	
...	4,000	4,000	...	...	...	...	4,000	4,000	11	Item No. 8 (Class C), Budget 1881-82. Work deferred pending final decision as to the reteution of the Cantonment.	
...	7,000	7,000	...	...	...	...	7,000	7,000	12	Item No. 9 (Class C), Budget 1881-82. Work considered very desirable by Brigadier-General.	
...	2,500	2,500	...	...	...	...	2,500	2,500	13	Item No. 10 (Class C), Budget 1881-82 Recommended by Military Authorities.	
...	3,000	3,000	...	...	...	...	3,000	3,000	14	Item No. 11 (Class C). Ditto ditto ditto.	
...	20,000	20,000	...	...	...	...	20,000	20,000	15	Ditto 12 ditto. Ditto ditto ditto.	
1,00,000	1,64,100	2,64,100	...	...	...	...	1,00,000	1,64,100	2,64,100		

P. Dr. Cuiclos: 2256/82

P.R. No. 3256.
CIRCULAR MEMO. No. 2070.

Government of Punjab,
PUBLIC WORKS DEPARTMENT,
GENERAL BRANCH.

To

The *Secy. to Government*
of Madras
P.W.D.

Dated 29th March 1882.

Recd 10 April 1882

Forwards, for information and record in
his office, / copy of the Budget-Estimate
of the Imperial Military Works in the Punjab
for the year 1882-83.

C. POLLARD, MAJOR-GENL., R. E.,

Secy. to Govt. Punjab, P. W. D.

B No 932 Waj 14 April 1882

Recorded

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13.4.82

Intd. in Receipt Regr.