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MIL NADU ARCHIVES

ERNMENT OF TAMIL NADU

PUBLIC WORKS DEPARTMENT

G.O. No. 672.W
B.P. No.
Press.
Mis.

Dated 6.3.1879 197 .

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

6th March 1879, No. 672 W.

General.
Account.

ad the following papers :—

Endorsement of the Acting Superintending Engineer, Third Circle, dated Mount, 30th January 1879, No. 435.

ieutenant W. L. C. BADDELEY, R.E., Acting General Superintendent, Public Works Stores and Workshops, to the Executive Engineer, Presidency Division, dated Madras, 28th January 1879, No. 1,129.

HAVE the honor to forward for submission to Government, through the Superintending Engineer, Third Circle, the annual indent on the Home Government for the year 1879-80, together with a copy of the same, recast in the form required by the Government of India to accompany the budget.

l Home Indent in duplicate, 2.
l Indent for Government of India, 1.
V, Budget Estimate, 1.
al Instruments, 1.
l Tools, 1.

The total requirement of the Circle Officers for 1879-80 amounts to s 77,703, out of which stores to the value of Rupees 10,194 can be supplied tocks in hand and supplies expected from England on previous indents. Stores value of Rupees 16,505 have been eliminated on account of intrenching tools able for transfer from famine supplies, leaving a balance of Rupees 51,004 for h funds will have to be provided as detailed below.

3. Expenditure in India—

	RS.
Circle Officers for new supplies exclusive of stores available in Public Works Stores, as per red ink figures in Part IV, Budget Estimate	8,663
Do. do. for repairs and carriage ...	21,620
General Superintendent, Public Works Stores, for contingencies ...	5,000
Do. do. for repairs to machinery, tools and instruments, &c.	7,000
Total, Indian Expenditure ...	42,283
Funds required for London supplies, Public Works Stores, general, as per Home indent for 1879-80.	8,721
Total requirements in India and England ...	51,004

Metal required by the Dowlaishvaram Workshop as per Home indent for 1879-80 not included in Part IV, Budget Estimate, being raw materials for Workshop purposes.

Machinery for Public Works Stores "Special" as per Home indent for 1879-80 Rupees 2,360, making a total of Rupees 28,206 for London supplies as per Home indent for 1879-80.

4. As all stores are now classed as "Provincial" and no article will be issued from stores without payment, it becomes necessary that Divisional Officers should have funds placed at their disposal to pay for such articles as they may require.

5. Actual requirements only of Divisional officers have been included in this indent, with the exception of intrenching tools which have been eliminated, as the tools issued to Famine Relief Works, of which a large number must still be in the districts in fair order, ought to be available for transfer from one division to another. I have omitted also such articles as are readily and economically manufactured locally, thus reducing the amount for London supplies to the lowest limit compatible with efficiency.

6. It is assumed that under G.O., 20th August 1878, No. 3,521 W, large numbers of tools will be sent to the Workshops for repairs. These tools after repair will either be returned to the Divisional officers or deposited in stores for re-issue, and as the cost of repairs must be borne either by the Divisional officers or by the Store Department provision of funds should be made for meeting this charge. The same remark applies also to unserviceable instruments sent for repair or returned for final deposit in store.

7. The machinery and plant of the stores generally will require repair during the year 1879-80, and it is expected that the provision of 7,000 rupees will be sufficient to cover this and the repairs to tools alluded to in the preceding paragraph.

8. No established proportion has been fixed, pending issue of orders on Circular from Chief Engineer, No. 11, dated 4th January 1879, on the maximum value of reserve stock to be hereafter held by each division in the Presidency.

9. I beg to invite particular attention to Part IV, Budget Estimate, compiled from the Divisional returns herewith submitted; the largest amount required is by the Kistna Division for repairs to floating plant. It is for Government to determine whether the amount asked for will be given.

10. The department has been put to much inconvenience for the want of pumps, those in store are much worn and work very unsatisfactorily. I have included in this indent under "Special Service" three Gwynne's centrifugal pumps, with one twelve horse-power engine portable for driving them, also a steam fire engine. I beg that the Government may be moved to accord sanction for the supply of these most necessary articles.

No. 5,908.

SUBMITTED to the Superintending Engineer, Third Circle, with reference to his No. 241, dated 17th January 1879.

29th January 1879.

(Signed) S. C. PLUMMER, Lieut.,
Asst. Engr. in charge, Presidency Division.

FORWARDED to the Chief Engineer, Public Works Department, with the six enclosures duly countersigned.

(Signed) S. C. CLARKE, Major, R.E.,
Ag. Supg. Engineer, Third Circle.

No. 93-A. From Supg. Engr., Third Circle, dated 3rd Feb. 1879, No. 532.
No. 93-B. From " " " " 18th " " " 855.
No. 93-C. From Genl. Supt., P.W. Workshops, " 25th " " " 4,504.

No. 94. ORDER THEREON, 6th March 1879, No. 672 W.

WITH the foregoing endorsement the Superintending Engineer, Third Circle, forwards the Annual Home indent for Public Works Stores for the year 1879-80, with the budget estimate of Tools and Plant to be obtained locally.

2. Under London supplies, the amount required, as per tabular statement now submitted with the Superintending Engineer's endorsement, No. 855, of 18th February 1879, is Rupees 25,513 as shown below:—

	RS.
Instruments	1,817
Machinery	56
Tools	1,340
Special machinery	2,300
Steamer for Godavari Deltas	20,000
	25,513

but Rupees 48,206 having been provided for London supplies in the Provincial budget for 1879-80, the difference, Rupees 22,693, will now be withdrawn and credited to the reserve under Tools and Plant.

3. In Part IV of the Provincial budget for 1879-80, Rupees 12,000 have been allotted to the General Superintendent of Public Works Stores for repairs and carriage of tools; but as that officer now applies for only Rupees 5,000, the difference, Rupees 7,000, will also be withdrawn and credited to the Reserve under Tools and Plant.

4. The amounts of the demands for Tools and Plant, as given in the Superintendent's statements, differ from those in the budget estimates of the Superintending Engineers. It will be better if, in future budget estimates, the Superintendent enters only the amounts required for expenditure by himself, and for London supplies, leaving the Superintending Engineers to include in their budget estimates the sums proposed to be expended by Divisional officers. On the present occasion, the figures entered in the Superintendent's budget estimates have been adopted only when provision for Tools and Plant was not included in the Circle budgets.

5. The sum of Rupees 30,000 has been provided in the budget for 1879-80 on account of probable increase of Capital of the Presidency Workshops; but as the Government are of opinion that Rupees 10,000 should be sufficient for this purpose, the difference, Rupees 20,000, will also be withdrawn and credited to the reserve under Tools and Plant.

(True Extract.)

Colonel, R.E.,
Ag. Secy. to Govt., P.W.D.

To the Superintending Engineers.
" Examiner of Public Works Accounts.
" Financial Department.
" General Superintendent, Public Works Stores.

Exd. E. C. Shunker.

Spare Copies

GENERAL

GOVT. OF (1879)

PUBLIC WORKS.

MARCH

Nos. 23-26

3

Presidency Workshops, D. P. W.,
Madras, 25 February 1879.

No. 4504

From
The GENERAL SUPERINTENDENT,
Public Works Workshops,

To
The Deputy Chief Engineer
D.P.W.
Fort St George

Sir,

With reference to your enquiry regarding the Capital of the Workshops, I have the honor to report that on the 1st April 1878 the Capital was Rs 4,71,920

2. Capital increases and decreases in the manner which I have explained in my No 4233 of 11th Feby 79

3. The cost of the removal of Workshop Stores from Chepauk and the fitting up of the shops have been debited to the Workshops in the Capital account for 1877-78 to the amount of Rs 25385-13-3

4. I would also point out that the value of buildings at Chepauk was only 69,481 on the 1st April 1877 whilst on the 1st April 1878 the value of the present buildings stood at 118,280 thus causing a large increase in the amount of interest which has to be paid yearly to Government by the Workshops.

Enclosures.

I have the honor to be
Sir
Your most obedient Servant
R L C Baddeley Lieut
Ag Genl Supdt Workshops

Ref of 6-3-77 No. 672W

6

Public Works Store Department

List of documents returned with the Revised Indents for 1879-80

2	Revised Indents for Home Government
1	do Govt. of India
1	List of Scientific Instruments
1	do Tools & Plant
1	Detailed Estimate Part IV
1	Copy of letter from Genl. Supdt. thro. asst Engr Supy to Circle No 438 of 20th January/79
1	Letter from Supg Engr to Chief Engr DPW No 532 of 3rd Feby
1	G O on above
1	Tabular Statement
1	Cancelled Indent for Home Government
1	do from Government of India
8	G. O. Nos $\frac{3774}{20-8-75}$, $\frac{1246}{4-6-75}$, $\frac{1942}{9-7-75}$, $\frac{330}{23-3-76}$, $\frac{1258}{19-5-76}$, $\frac{2314W}{14-1-78}$, $\frac{3324W}{20-8-78}$ & $\frac{6763W}{14-12-78}$
1	Circular No 14 of 4 January/79
1	Memo from Under Secretary to Supdg Engr 3rd Circle of 10th Jany No 261
22	Total

Madras
13 Feby/79

pp H. L. C. Beasley Lt.
Ag Genl Supdt PW Store

Pas of 6-

cl: 22

er list attached

7

Public Works Store Depart
Madras 13th February /79

No 1198

From

The General Superintendent
Public Works Stores & Workshops

To

The Executive Engineer
Presidency Dn

Sir,

I have the honor to forward for submission to Government through the Supg Engr. the annual Indent on the Home Government for the year 1879-80 revised in accordance with instructions received from His Grace the Governor.

I append a statement showing the alteration that has been made and also a list of documents bearing on the subject, which were given to me, to be returned with the revised Indent.

It will be observed that Part IV Budget estimate has been left unaltered, as on enquiry I find that under G.O. 1866 of 13th April /78. this will no longer be required; but 5000 Rs will

have

have to be provided to meet the Contingent and maintenance charges of the Stores during 1879-80.

The 3000 Rs for the repair of Tools will not now be required as the cost of repairing the Tools received from the Delta will be added to the value of Tools under the head of suspense account

With regard to the specification for the Steamer required for the Godavery Delta, I have noted in the Indent the G.O. in which it is contained and as a copy has already apparently been sent to the Secretary of State for India I have not attached one to the Indent nor have I a spare copy, if necessary one should be printed and attached

I have &c

(Sd) W L C Baddeley Lt RE
Ag Gl Supdt Wr Stores

No 6227

Submitted to the Superintending Engr 3d Circle

Encl. 22

(Sd) S C Plummer Lt
asst Engr in ch. D. Divn

14 Feby/79

No.

No 855.

(True Copy)

Encl 22.
as per List.

Forwarded to the Chief Engineer Public Works Department with the enclosures duly countersigned.

Supdg Engrs Office 3d Circle
18th February/79

Major RE
Ag Supdg Engr 3d Circle

Con of 6-3-79 2 at 6.7.2

ue 27. 8

9

No. 532.

3rd Circle
~~Chingleput~~ Superintending Engineer's Office,
Saint Thomas' Mount, 3rd ~~January~~ Feb 1879.

From

THE SUPERINTENDING ENGINEER,
~~Chingleput~~. 3rd Circle

To

The Chief Engineer,
Public Works Departmen

Sir,

With reference to your Memorandum No. 261 dated 15th Instant, I have the hono to inform you that the Superintendent of th Public Work Workshops reports, that Rs. 2,00 should be provided in the Budget of 1879-8 for increase of Capital of the Workshops, thi being the sum usually estimated and [illegible] for the purpose.

I have the honor to be,
Sir
Your Most Obedient Servant,

Major R.E
Ag. Supg. Engineer 3rd Circ

From

The Supᵈ Engʳ 3ᵈ Circle

No 532

Dated 3ᵈ
Despatched 4 } February 1879
Received

Increase of Capital of the Presidency Workshops

Informing that the Supdᵗ of the P. W. Workshops reports that Rs 30,000 should be provided in the Budget of 1879-80.

[illegible]

[illegible]

Provincial Services
Public Works Budget Estimate

— Government of Madras — — Madras —

— Part V —

Detail of the Budget Estimates of Tools and Plant under Provincial Service in Madras for the year 1879-80

Divisions	Surveying and Math. Instr.	Machinery	Tools	Plant	Office Furniture	Camp Equipage	Live Stock	Repair and Carriage	Total
1st Circle									
Ganjam	416 12 11	-	3731 4 -	-	-	-	-	-	5173 - 11
Vizagapatam	-	-	490 11 -	-	-	-	-	-	6710 - -
Godavery	-	1000 -	[2665 9 8]	-	-	-	-	-	
Kistna									25714 5 8
Total	416 12 11	1000 -	13026 3 5	-	-	-	-	-	31554 - 7
Nellore	-	-	-	-	-	-	-	-	-
Cuddapah	-	-	-	-	-	-	-	-	-
Kurnool	-	-	675 -	-	-	-	-	-	800
Bellary	980 6 4	-	-	-	-	-	-	-	1980 6 4
Total	980 6 4	-	675	-	-	-	-	-	2780 6 4
Chingleput	185 1 4	-	[81 - -	-	-	-	-	-	647 1 4
North Arcot	374 - 10	-	3053 4 6]	-	-	-	-	-	684 - 10
South Arcot	229 13 8	-	-	-	-	-	-	-	4155 2 2
Presidency	-	-	-	-	-	-	-	-	-
Bangalore	-	-	-	-	-	-	-	-	-
Public Works Stores	-	-	-	-	-	-	-	*	12000
Total	785 10 10	-	3319 8 6	-	-	-	-	-	17459 4 4
Salem	260 7 -								980 7 -
Coimbatore	341 12 -	[278 1 6]	[3255 15 -]	-	-	-	-	-	5483 12 6
Nilgiri	276 11 -	-	1961 9 6	-	-	-	-	-	4378 4 6
Malabar	970 3 7	-	-	-	-	-	-	-	970 3 7
Canara	298 9 3	-	1602 [illegible] 6	-	-	-	-	-	2796 8 9
Total	2147 10 10	278 1 6	7050 8	-	-	-	-	-	14529 4 4
Trichinopoly	1078 5 11	197 12 -	-	-	-	-	-	-	1276 - 11
Tanjore	685 15 5	-	[376 14 -]	-	-	-	-	-	3171 5 5
Madura	588 2 -	-	2614 12 6	-	-	-	-	-	4487 10 -
Tinnevelly	692 10 3	-	1365 10	-	-	-	-	-	2440 12 3
Total	3045 1 7	197 12 -	6429 12 6	-	-	-	-	-	11375 13 7
Grand Total	7398 15 6	1675 13 6	30371 - 8	-	-	-	-	-	77702 13 2

[illegible]

* Rs. 5000 — for Contingencies
" 7000 — for Repairs to Machinery Instruments Tools & Plant

Madras
28th January 1879

[illegible] Chief Engr. & Secy.

M. Baddeley Lieut. R.E.
Acting General Supt. P.W. Stores & Workshops

28-1-79

Pro of 6-3-79 No. 672B

Provincial Service

List
of
# Tools and Plant
for
1879–80

Diamond Harbour

List of Tools and Plant required by the Circle Officers of the D. P. W. for 1879-80

Description of Articles	1st Circle	2nd Circle	3rd Circle	4th Circle	5th Circle	Total	Rate	To be procured from Local Market	General Store	London Indent	Total	Grand Total
Machinery												
Vertical Sawing Machine Complete	1					1		1 1000 . .		~~1 1000 . .~~		
Apparatus Boring				1	1	2	177 12 .	2 395 8 –		~~2 395 8 .~~		
Screw jacks 10 tons to 5 tons				1		1	40 5 6		1 40 5 6			
Lamps Storm 100 lb pressure	2					2	20 2 .			2 56 4 .		
Tools												
Anvils Iron Smiths 2 cwt each	4					4	36 3 .			4 144 12 .		
Axes Pick 10 lb	800	1020	1000	440		3265	1 12 6	3265 5815 12 6				
Do 7 lb	400		1000	700		2100	1 5 3	2100 2779 1 .				
Axes Hand	50					50	. 11 .		50 34 6 .			
Axes felling 5 lb	150				10	160	1 1 .		160 170 . .			
Axes Broad	20					20	2 . .		20 40 . .			
Adzes Iron Carpenters			6			6	1 . .		6 6 . .			
Nippers Iron 3/4" 1/2"			18	4		22	1 9 .		22 34 6 .			
Anvils 2 cwt	2					2	40 . .			2 80 . .		
Do 3 cwt	2					2	35 . .			2 70 . .		
Do 1 cwt	2					2	30 . .			2 60 . .		
Blocks Iron, Galvanized Single for a rope 6"	4			5		9	16 3 .			9 145 11 .		
— double 6"	4					4	20 11 .		4 82 12 .			
— treble 6"	4					4	22 . .		4 88 . .			
— for 3/4 chain single 6"	4					4	9 3 .			4 36 12 .		
— double 6"	2					2	14 10 .			2 29 4 .		
— treble 6"	2					2	21 15 .			2 43 14 .		
— wooden single					5	5	1 4 .		5 6 4 .			
Braces Carpenters with 36 bits			6			6	12 2 .		6 72 12 .			
Belts Single Leather 3"	50					50	. 5 .	50 15 10 .				
— 4"	150					150	. 6 .	150 56 4 .				
— 5"	100					100	. 12 .	100 75 . .				
Chisels Carpenters firmer 1/8 to 5/8 set	4			4		8	3 6 .			8 27 . .		
Compasses Carpenter	3					3	1 6 .		3 4 2 .			
— spring	2					2	2 10 .			3 7 14 .		
							Carried	Over 8731 14 6	.. 678 15 6	2096 10 .		

List of Tools and Plant required by the Circle Officers of the D. P. W. for 1879-80

Description of Articles	[illegible] Circle	[illegible] Circle	[illegible] Circle	[illegible] Circle	[illegible] Circle	Total	Rate	To be procured from Local Market	General Store	London Indent	Total	Grand Total
							Brought forward	8754 11 6	678 15 6	2496 15 -		
Crowbars 16 lb	525	.	.	100	.	625	1 5 .	625 820 5 .				
— 14 lb	1200	.	.	.	220	1420	1 4 .	1420 1775 .				
Brass claw Cross cutter	.	.	.	1	.	1	. . .					
Tubs flat Custard 18"	72	.	.	.	.	72	. 12 .			36 27 . . 72 54 . .		
— " — 16"	72	.	.	.	.	72	. 8 .			36 18 . 72 36 .		
— " — 14"	36	.	.	.	.	36	. 7 .			18 7 14 36 15 12		
— " — 12"	36	.	.	.	.	36	. 6 .			18 6 12 24 13 8		
— " — 8"	24	.	.	.	.	24	. 3 .			12 2 4 24 4 8		
— " — 6"	24	.	.	.	.	24	. 2 .			12 1 8 24 3 . .		
Tubs flat with [illegible] edge 16"	24	.	.	.	.	24	. 7 .		24 10 8 .			
— " — 12"	24	.	.	.	.	24	. 6 .		24 9 . .			
— " — 9"	12	.	.	.	.	12	. 4 .		12 3 . .			
— " — 8"	12	.	.	.	.	12	. 3 .		12 2 4 .			
Tubs flat smooth 18"	36	.	.	.	.	36	1 5 .			36 47 4 .		
— " — 14"	24	.	.	.	.	24	. 9 .			12 [illegible] 24 13 8 .		
— " — 10"	24	.	.	.	.	24	. 6 .			12 4 8 24 9 .		
— " — 6"	24	.	.	.	.	24	. 4 .			12 3 24 6 .		
Tin half pound custard 16"	72	.	.	.	.	72	1 2 .			36 40 8 72 81 .		
— " — 14"	72	.	.	.	.	72	. 14 .			36 31 8 72 63 .		
— " — 12"	48	.	.	.	.	48	. 12 .			24 18 48 36 .		
— " — 8"	12	.	.	.	.	12	. 8 .			12 6 .		
— " — 6"	12	.	.	.	.	12	. 6 .			12 4 8		
Tin half pound smooth 18"	24	.	.	.	.	24	1 6 .		24 33 . .			
— " — 14"	60	.	.	.	.	60	1 2 .			60 67 8 .		
— " — 12"	48	.	.	.	.	48	. 14 .			48 42 .		
— " — 8"	48	.	.	.	.	48	. 10 .			48 30 .		
— " — 6"	36	.	.	.	.	36	. 7 .			36 15 12		
Tin pound custard 18"	108	.	.	.	.	108	1 2 .			108 121 8		
— " — 16"	108	.	.	.	.	108	. 14 .			108 94 8 .		
— " — 15"	96	.	.	.	.	96	. 12 .			96 72 .		
— " — 8"	12	.	.	.	.	12	. 8 .			12 6 .		
							Carried over	11349 16 6	736 11 6	3339 3 -		

Roll of Tools and Plant proposed by the Circle Officers of the D. P. W. for 1879-80

Description of Articles		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Total	Rate	To be procured from Local Market	General Store	London Indent	Total	Grand Total
Tools round bastard	6"	12							Brought forwd 1337 - 6	636 0 6	737 2 -		
Tools round smooth	12"	12	.	.	.	.	12	- 6.			12 4 8 -		
———	14"	12	.	.	.	.	12	1 2.		12 13 8 -			
———	10"	12	.	.	.	.	12	- 4.		12 10 8 .			
———	8"	12	.	.	.	.	12	- 11.			6 12 7 8 -		
———	6"	12	.	.	.	.	12	- 8.		12 6 - -			
Tools flat rough	10"	72	.	.	.	.	12	- 6		12 6 8 -			
———	14"	72	.	.	.	.	72	- 10.		72 65 -			
———	12"	72	.	.	36		108	- 9.			108 60 12 -		
———	10"	72	.	.	36		108	- 8.			108 36 -		
———	8"	72	.	.	.	.	72	- 8.		72 36 - -			
Tools half round rough	16"	.	.	.	36		36	- 8.		36 18 - -			
———	14"	72	.	.	.	.	72	- 10.		72 65 -			
———	12"	.	.	.	36		36	- 8.		36 12 -			
———	8"	72	.	.	36		108	- 6.		108 40 8 -			
———	6"	36	.	.	36		72	- 6.		72 27 - -			
Tools round rough	16" x 7/8"	36	.	.	.	.	36	- 6.		36 13 8 -			
———	18" x 1"	36	.	.	.	.	36	- 8.		36 18 - -			
———	18" x 7/8"	36	.	.	.	.	36	1 .		36 36 - -			
Tools square rough	6"		.	.	.	.	24	- 6.		24 9 -			
" " Pit Saw	7"		.	.	12		12	1 .		12 - 12 -			
" " Hand Saw	6"		.	.	48		48	- 3.		48 9 -			
Gouges Carpenter	¾" to ½"	.	.	.	36	.	36	1 .		36 2 4 -			
Gimlets		.	.	.	1	.	1	3 4.		1 3 4 -			
	lbs	.	.	.	2	.	12	- 8.		12 6 - -			
Hammers Sledge	8 & 12												
———	15 lb	20					20	3 12½		20 76 10 7			
———	12 lb	20					20	2 2.		20 44 8 -			
———	8 lb	20	.	.	100	100	220	1 12.		220 385 -			
Hammers Hand	6 lb	20	.	200	.		220	1 8.		220 330 -			
———	2 lb	420	.	.	.	670	1090	1 8½		1090 1866 1 6			
Hammers Stone & Smith		20	.	100	.	500	620	- 2.		620 530 12 -			
——— Claw		.	.	3	.		3	3 8.		3 10 8 -			
		.	.	6	.		6	- 15.		6 5 10 -			
									Carried Over 1807 - 6	4033 9 8	2065 15 -		

Provincial Service

List of Tools and Plant required by the Circle Officers of the D. P. W. for 1879-80

Description of Articles	1st Circle	2nd Circle	3rd Circle	4th Circle	5th Circle	Total	Rate	To be procured from Local Market	General Store	London Indent	Total	Grand Total
— Machinery —												
Vertical Sawing Machine Complete	1	"	"	"	"	1		1 1000 "		~~1 1000 " "~~		
Apparatus Boring	"	"	"	1	1	2	197 12 "	2 395 8 –		~~2 395 8 "~~		
Screw jacks Hulley's 6 Tons	"	"	"	1	"	1	40 5 6		1 40 5 6			
Gauges Steam 100 lb pressure	2	"	"	"	"	2	28 2 "			2 56 4 "		
— Tools —												
Anvils Iron Smiths 2½ cwt	4	"	"	"	"	4	36 3 "			4 144 12 "		
Axes Pick 10 lb	800	"	1025	1000	440	3265	1 12 6	3265 5815 12 6				
Do 7 lb	400	"	"	1000	700	2100	1 5 3	2100 2789 1 "				
Axes Hand	50					50	" 11 "		50 34 6 "			
Axes felling 5 lb	150			"	10	160	1 1 "		160 170 " "			
Axes Railway	20					20	2 " "		20 40 " "			
Adzes, Iron Carpenter	"	"	"	6	"	6	1 " "		6 6 " "			
Augers Iron ¼" ⅜" ½"	"	"	"	18	4	22	1 9 "		22 34 6 "			
Anchors 2 cwt	2					2	40 " "			2 80 " "		
Do 1½ cwt	2	"	"	"	"	2	35 " "			2 70 " "		
Do 1 cwt	2	"	"	"	"	2	30 " "			2 60 " "		
Blocks, Iron, Galvanized, single for 2" rope 6"	4	"	"	"	5	9	16 3 "			9 145 11 "		
" " double 6"	4	"	"	"	"	4	20 11 "		4 82 12 "			
" " treble 6"	4	"	"	"	"	4	22 " "		4 88 " "			
" for ½" chain single 6"	4	"	"	"	"	4	9 3 "			4 36 12 "		
" " double 6"	2	"	"	"	"	2	14 10 "			2 29 4 "		
" " treble 6"	2	"	"	"	"	2	21 15 "			2 43 14 "		
" wooden single	"	"	"	"	5	5	1 4 "		5 6 4 "			
Braces, Carpenter with 36 bits	"	"	"	6	"	6	12 2 "		6 72 12 "			
Belts single Leather 3"	50		"	"	"	50	" 5 "	50 15 10 "				
" 4"	150	"	"	"	"	150	" 6 "	150 56 4 "				
" 5"	100	"	"	"	"	100	" 12 "	100 75 " "				
Chisels Carpenters firmer ⅛" to 1½" — set	4	"	"	4	"	8	3 6 "			8 27 " "		
Compasses Carpenter	3	"	"	"	"	3	1 6 "		3 4 2 "			
" Spring	3	"	"	"	"	3	2 13 "			3 7 14 "		
							Carried Over	8731 11 6	678 16 6	2096 16 "		

required by the Circle Officers of the D. P. W. for 1879-80

Description of Articles		1st Circle	2nd Circle	3rd Circle	4th Circle	5th Circle	Total	Rate	To be procured from Local Market	General Store	London Indent	Total	Grand Total
								Brought forward	9271 11 6	678 10 6	7096 15 -		
Crowbars	16 lb	525	"	"	100	"	625	1 5 -	625 820 5 -				
"	14 lb	1200	"	"	"	220	1420	1 4 -	1420 1775 -				
Cast Iron Road Rolls		"	"	"	1	"	1	" "					
Files flat bastard	18"	72	"	"	"	"	72	- 12 -			36 27 - - ~~72 54 - -~~		
"	16"	72	"	"	"	"	72	- 8 -			36 18 - - ~~72 36 - -~~		
"	14"	36	"	"	"	"	36	- 7 -			18 7 14 - ~~36 15 12 -~~		
"	12"	36	"	"	"	"	36	- 6 -			18 6 12 - ~~36 13 8 -~~		
"	8"	24	"	"	"	"	24	- 3 -			12 2 4 - ~~24 4 8 -~~		
"	6"	24	"	"	"	"	24	- 2 -			12 1 8 - ~~24 3 - -~~		
Files flat with round edge	14"	24	"	"	"	"	24	- 7 -		24 10 8 -			
"	12"	24	"	"	"	"	24	- 6 -		24 9 - -			
"	9"	12	"	"	"	"	12	- 4 -		12 3 - -			
"	8"	12	"	"	"	"	12	- 3 -		12 2 4 -			
Files flat smooth	18"	36	"	"	"	"	36	1 5 -			36 47 4 -		
"	14"	24	"	"	"	"	24	- 9 -			24 13 8 -		
"	10"	24	"	"	"	"	24	- 6 -			12 4 8 - ~~24 9 - -~~		
"	6"	24	"	"	"	"	24	- 4 -			12 3 - - ~~24 6 - -~~		
Files half round bastard	18"	72	"	"	"	"	72	1 2 -			36 40 8 - ~~72 81 - -~~		
"	14"	72	"	"	"	"	72	- 14 -			36 31 8 - ~~72 63 - -~~		
"	12"	48	"	"	"	"	48	- 12 -			24 18 - - ~~48 36 - -~~		
"	8"	12	"	"	"	"	12	- 8 -			12 6 - -		
"	6"	12	"	"	"	"	12	- 6 -			12 4 8 -		
Files half round smooth	18"	24	"	"	"	"	24	1 6 -		24 33 - -			
"	14"	60	"	"	"	"	60	1 2 -			60 67 8 -		
"	12"	48	"	"	"	"	48	- 14 -			48 42 - -		
"	8"	48	"	"	"	"	48	- 10 -			48 30 - -		
"	6"	36	"	"	"	"	36	- 7 -			36 15 12 -		
Files round bastard	18"	108	"	"	"	"	108	1 2 -			108 121 8 -		
"	12"	108	"	"	"	"	108	- 14 -			108 94 8 -		
"	10"	96	"	"	"	"	96	- 12 -			96 72 - -		
"	8"	12	"	"	"	"	12	- 8 -			12 6 - -		
								Carried forward	11867 - 6	636 11 6	7909 3 -		

[illegible] Hand Plant required by the Circle Officers of the D. P. W. for 1879-80

Description of Articles		1st Circle	2nd Circle	3rd Circle	4th Circle	5th Circle	Total	Rate	To be procured from Local Market	General Store	London Indent	Total	Grand Total
Files round bastard	6"	12	.	.	.	.		.	Brought fwd 1337 - 6	636 0 6	727 3 -		
Files round smooth	18"	12	.	.	.	.	12	. 6.			12 4 8 -		
ditto	14"	12	.	.	.	.	12	1 2.		12 13 8 -			
ditto	12"	12	.	.	.	.	12	. 14.		12 10 8 -			
ditto	8"	12	.	.	.	.	12	. 10.			12 7 8 -		
ditto	6"	12	.	.	.	.	12	. 8.		12 6 - -			
Files flat rough	18"	12	.	.	.	.	12	. 6.		12 4 8 -			
ditto	16"	72	.	.	.	.	72	. 10.		72 45 - -			
ditto	14"	72	.	.	36	.	108	. 9.			108 60 12 -		
ditto	12"	72	.	.	36	.	108	. 8.			108 54 - -		
ditto	8"	72	.	.	.	.	72	. 8.		72 36 - -			
ditto	6"	.	.	.	36	.	36	. 8.		36 18 - -			
Files half round rough	18"	72	.	.	.	.	72	. 10.		72 45 - -			
ditto	16"	.	.	.	36	.	36	. 8.		36 18 - -			
ditto	12"	72	.	.	36	.	108	. 6.		108 40 8 -			
ditto	8"	36	.	.	36	.	72	. 6.		72 27 - -			
ditto	6"	36	.	.	.	.	36	. 6.		36 13 8 -			
Files round rough	12" × 3/4"	36	.	.	.	.	36	. 8.		36 18 - -			
ditto	15" × 1"	36	.	.	.	.	36	1 . .		36 36 - -			
ditto	18" × 1 1/4"	24	.	.	.	.	24	. 6.		24 9 - -			
Files Square rough	6"	.	.	.	12	.	12	. 1.		12 . 12 -			
ditto Pit Saw	7"	.	.	.	48	.	48	. 3.		48 9 - -			
ditto Hand Saw	6"	.	.	.	36	.	36	. 1.		36 2 4 -			
Gouges Carpenters	1/4" to 1 1/2"	.	.	.	1	.	1	3 4.		1 3 4 -			
Gimlet	1/4	.	.	.	12	.	12	. 8.		12 6 - -			
Hammers Sledge	28 lb	20	.	.	.	.	20	3 13 4		20 76 10 8			
ditto	16 lb	20	.	.	.	.	20	2 2.		20 42 8 -			
ditto	12 lb	20	.	.	100	100	220	1 12.		220 385 - -			
ditto	8 lb	20	.	.	200	.	220	1 8.		220 330 - -			
Hammers Hand	4 lb	420	.	.	.	670	1090	1 8 7		1090 1636 1 6			
ditto	2 lb	20	.	100	.	500	620	. 13.		620 503 12 -			
Hammers Saw Hand		.	.	.	3	.	3	3 8 -		3 10 8 -			
ditto Claw		.	.	.	6	.	6	. 15.		6 5 10 -			
									Carried fwd 1337 - 6	4031 9 8	2063 15 -		

[illegible] Plant required by the Circle Officers of the D. P. W. for 1879-80

Description of Articles		[illegible] Circle	[illegible] Circle	[illegible] Circle	[illegible] Circle	[illegible] Circle	Total	Rate	To be procured from Local Market		General Store		London Indent		Total	Grand Total
Hammers & Tools								Brought forward		[illegible] 0 6		4038 9 8		3065 15 -		
Rock Drill		„	„	„	3	„	3	15 -			3	2 15 -				
Hammers Stone Breaking	2 lb	20	„	100	100	800	1020	1 - -			1020	1020 - -				
— do —	4 lb	„	900	„	1300	500	2700	·12·	2700	2025 - -						
Iron for Planes		„	„	„	350	200	550	1 8	550	825 - -						
Jumpers 4 feet 1⅛" bar Steel		„	„	„	12	„	12	1 - -			12	12 - -				
— do — 4 feet 1⅛"		„	„	„	60	„	60	4 - -	60	240 - -						
Mamooties	7 lb	„	„	„	„	20	20	3 - -			20	60 - -				
— do —	10 lb	1500	„	1600	1000	100	4200	·14·	4200	3675 - -						
— do —	6 lb	150	„	„	„	40	190	1 4 -	190	237 8 -						
— do —	5 lb	200	„	„	„	„	200	·12·	200	150 - -						
Picks Quarry	8 lb	1000	„	„	450	450	1900	·10·	1900	1187 8 -						
Planes jack		50	„	„	„	„	50	1 1 -			50	53 2 -				
— Trying		12	„	„	4	„	16	1 12 -					16	28 - -		
— Smoothing		12	„	„	„	„	12	2 2 -			12	25 8 -				
— Rebating 1½		18	„	„	„	„	18	2 8 -					18	45 - -		
— do — ¾"		4	„	„	„	„	4	·10·			4	2 8 -				
— do — 1"		4	„	„	„	„	4	·10·			4	2 8 -				
Plane [illegible]		4	„	„	„	„	4	·10·			4	2 8 -				
Hammers & [illegible]		„	„	„	4	„	4	2 11 6			4	10 14 -				
Hooks [illegible] Large		„	„	100	200	30	330	1 12 -	330	577 8 -						
Saws Circular	36"	„	„	„	25	„	25	1 - -	25	25 - -						
— do —	18"	3	„	„	„	„	3	30 - -					3	90 - -		
Saws X.C.	6 feet	3	„	„	„	„	3	7 9 -					3	22 11 -		
Saws hand	20"	12	„	„	„	„	12	5 - -			12	60 - -				
— do —	25"	6	„	„	„	„	6	1 1 -			6	6 6 -				
— English	29"	6	„	„	12	„	18	1 6 -					18	24 12 -		
Saws Tenon		3	„	„	„	„	3	1 10 -			3	4 14 -				
— Dovetail		„	„	6	„	„	6	1 14 -			6	11 4 -				
— [illegible]		4	„	„	4	„	4	1 4 -			4	5 - -				
Stone Grinding [illegible]		„	„	„	„	1	1	1 8 -			1	1 8 -				
[illegible]	38"	3	„	„	„	„	3	12 - -			3	36 - -				
								Carried Over		20279 8 6		5355 6 8		3376 6 -		

Provincial Service

List of Tools and Plant required by the Circle Officers of the D. P. W. for 1879-80

Description of Articles	1st Circle	2nd Circle	3rd Circle	4th Circle	5th Circle	Total	Rate	To be procured from Local Market	General Store	London Indent	Total	Grand Total
							Brought forward	20289 8 6	5355 6 8	3076 6 -		
Stone Levelling Rollers 36"	3	"	"	"	"	3	17 2 -		3 51 6 -			
Stone Oil Turkey in case	6	"	"	3	"	9	3 1 -			9 27 9 -		
Stone Ray	2	"	"	"	"	2	" 1 -		2 " 2 -			
Screw Jacks	"	"	"	1	"	1	140 - -	1 140 - -				
Stock and Dies for Whitworth's Screws ¼ to ¾	6	"	"	"	"	6	88 6 -		1 88 6 -	5 441 14 -		
——— " ——— ¾ to 1	6	"	"	"	"	6	90 9 -		2 181 2 -	4 362 4 -		
——— " ——— ⅝ to 1½	4	"	"	"	"	4	138 14 -			4 555 8 -		
——— " ——— 1⅜ to 2	1	"	"	"	"	1	256 10 -		1 256 10 -			
——— " ——— 2¼ to 2¾	1	"	"	"	"	1	398 2 -		1 398 2 -			
——— " ——— 1¼												
Shovels Barrows	"	"	"	1	"	1	90 9 -		1 90 9 -			
Spades	"	"	"	50	40	90	1 2 -			90 101 4 -		
Sieves Circular with Frames	"	"	"	50	"	50	" 15 -			50 46 14 -		
Taps and Dies for cutting wooden screws male & female 2" to 3"	2	"	"	6	"	6	3 2 -		6 18 12 -			
Turn Screws 8"		"	"	"	"	2	25 - -			2 50 - -		
Trowels Small	"	"	"	12	"	12	" 15 -		12 11 4 -			
———	"	"	"	24	"	24	" 9 -		24 13 8 -			
Vices Standing 70 lb	3	"	"	"	"	3	13 - -			3 39 - -		
— " — Bench 12½ lb	3	"	"	"	"	3	10 12 -		3 32 4 -			
— " — Hand 6"	3	"	"	"	"	3	2 - -			3 6 - -		
——— " ——— 4"	2	"	"	"	"	2	2 - -			2 4 - -		
Weston's Patent Differential Pulley Blocks 10 cwt	1	"	"	"	"	1	24 13 -			1 24 13 -		
——— Do ——— " ——— 3 ton	1	"	"	"	"	1	82 6 -			1 82 6 -		
						Total Value of Tools and Plant		20429 8 6	6497 7 8	5019 14 -		
Stock articles Metal												
Iron of sizes for Double Reverse Workshops Tons 67¾	"	"	"	"	"	67¾	130 - -			67¾ 8805 - -		
										13824 14 -		

Madras
25th January 1879

Acting Supdt Engr
26.1.79

Baddeley
Acting General Supdt of Workshops

Progs-3-77-161-724

Provincial Service

List
of
Scientific Instruments
for
1879 – 80

Provincial Division

List of Scientific Instruments required by Circle Officers of the P. W. D. for 1879-80

Description of Articles	Circles					Total Rate	To be procured from						Total Grand total
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		Local Market		General Stores		London Indent		
						Rs. As.	No.	Amount	No.	Amount	No.	Amount	
Barometer Aneroid													
Chain Iron Gunter's 100 ft with arrows	.	.	.	.	2	2 20 .	.	.	2	50 .	.	.	
——— ——— 50 ft	1	.	.	10	20	37 8 9	19	162 11	.	.	37	216 13	
——— ——— 33 ft	2	4	.	.	4	10 7 3	6	42 2	.	.	12	86 .	
Cross-staffs with Telescope	.	.	2	.	.	5 6 .	.	.	3	31 .	.	.	
Compasses Prism large	.	.	.	1	.	2 116 8	.	.	2	220 .	.	.	
——— Prismatic large	.	.	2	.	.	2 22 1	.	.	2	44 2	.	.	
——— Surveyor	.	.	2	.	.	2 18 10	.	.	2	37 12	.	.	
——— Clinometer with stand	.	2	.	.	.	2 11 7	.	.	.	.	2	22 14	
Curves French Sets	2	2	.	1	4	10 58 .	.	.	.	.	5 12	290 — [illegible]	
Dividers & Sets No.	.	.	.	1	.	1 8 .	.	.	1	8 .	.	.	
Levelling Instrument Y 20"	.	.	.	1	1	2 49 10	.	.	2	99 4 6	.	.	
——— ——— Y 14"	.	.	.	1	.	1 162 8	.	.	1	262 8	.	.	
——— ——— Y 10"	.	.	.	.	3	3 17 8	.	.	.	.	.	.	
——— ——— Dumpy 14"	.	2	.	1	2	6 152 .	.	.	.	.	3 2	460 10 957 10	
——— ——— ——— 10"	.	.	.	.	1	1 115 .	.	.	1	115 .	.	.	
Mathl. Instruments in Cases 1st Sets	1	.	2	.	1	8 52 11	.	.	8	421 9 .	.	.	
——— ——— 2nd Sets	3	2	4	.	1	21 26 4 4	.	.	21	221 11	.	.	
——— ——— 3rd Sets	2	.	2	.	1	6 12 .	.	.	6	72 .	.	.	
——— Cross Staff large	.	.	5	.	.	5 7 6	.	.	5	46 12	.	.	
——— ——— Small	.	.	4	.	.	4 4 7	.	.	4	15 .	.	.	
Levelling Staves Troughton's Pattern	.	.	.	2	1	3 189	.	.	3	567	.	.	
Pens, Drawing	.	.	6	2	.	8 2 4	.	.	8	23 .	.	.	
Pens Drawing & Writing with bow pencils	.	2	.	.	.	2 3 4	.	.	2	6 12	.	.	
Carried over Rs.										2821 4 10		1920 4 .	

Provincial Service

List of Scientific Instruments required by Circle Officers of the P. W. for 1879-80

Description of Articles	Circles					Total	Rate	To be procured from						Total Grand Total
								Local Market		General Stores		London Market		
	1st Circle	2nd Circle	3rd Circle	4th Circle	5th Circle			No	Amount	No	Amount	No	Amount	
							Brought forward Rs	..	..		3621 4 10		1933 11 ..	
Brass Rod	..	..	2	..	..	2	7 6	..	..	2	14 12 ..	..	..	
Pentagraph	..	..	2	..	..	2	73 3	..	..	2	146 6 ..	..	..	
Planimeter	..	..	..	1	..	1	46 4	..	..	1	46 4 ..	..	..	
Protractor Brass Circular	..	..	..	1	..	1	21 9	..	..	1	21 9 ..	..	..	
Rules Par Ebony Rolling 24"	..	..	..	1	..	1	6 6	..	..	1	6 5 ..	..	..	
do 12"	..	..	..	1	..	1	3 3	..	..	1	3 3 ..	..	..	
do 18"	..	..	5	..	..	5	4 ..	..	..	5	20 15 ..	..	..	
Rules Par Brass Rolling 24"	..	2	..	..	..	2	21 ..	..	..	2	42 4 ..	..	..	
do 18"	1	3	2	2	..	8	17 ..	4	68 8 ..	..	..	4 8	68 8 .. 137	
do 15"	1	..	..	..	..	1	9	..	..	1	9 ..	..	..	
do 12"	1	..	4	2	..	7	11	4	44	..	..	3 7	33 .. 77 ..	
Rules folding boxwood 3' 9" joint	6	..	..	6	..	12	2 7	6	14 10 ..	..	..	6 12	14 10 29 4	
do 2' 6"	6	..	..	6	..	12	1 11	6	10 2 ..	..	..	6 12	10 2 20 4	
Rain Gauges Glew's	..	..	..	..	4	4	7 4	..	..	4	29 ..	..	..	
Sextants Pocket Large	..	..	..	..	1	1	47 4	..	..	1	47 4 ..	..	..	
Scales Plotting Boxwood	2	..	1	1	1	5	9	3	27	..	..	2 5	18 45 ..	
do with offsets	..	..	1	..	..	1	10 14	1	10 14	..	..	1	~~10 14~~ ..	
do Diagonally graduated	4	..	..	..	2	6	1 2	3	3 6	..	..	6	6 12 ..	
Squares T 42"	..	..	1	..	..	1	3 ..	..	..	1	3 ..	..	..	
do 30"	..	..	1	..	..	1	4 1 ..	..	..	1	4 1 ..	..	..	
Staves Levelling Telescopic	6	4	3	12	..	25	20 4 ..	14	[illegible]	..	..	14 28	[illegible] 567	
Tapes Metallic Measuring 100 ft	32	12	2	8	39	91	6 5 4	46	[illegible]	..	..	91	676 5 4 ..	
do 50 ft	22	..	36	14	..	72	4 2 3	[illegible]	..	..	..	72	791 2 ..	
							Carried over Rs				3025 3 10		3701 2 4	

Provincial Service

List of Scientific Instruments required by Circle Officers of the P.W.D. for 1879-80

Description of Articles	Circles 1st Circle	2nd Circle	3rd Circle	4th Circle	5th Circle	Total	Rate	To be procured from Local Market No.	Amount	Government Stores No.	Amount	London Indent No.	Amount	Total Grand total
							Brought forward	Rupees	.. .. ..		3023 3 10		3701 4 6	
Theodolite 5"	..	..	..	..	1	1	198 4 ..	..	.. .. ..	1	198 4 ..	..		
Thermometer Standard	..	..	..	1	1	2	25 8	..	.. .. ..	2	51	..		
Drawing Board 36"×24"	..	..	2	..	..	2	58 8 8	..	.. .. ..	2	117 1 4	..		
Glass Tracing Large	1	..	2	..	..	3	102 6 ..	..	.. .. ..	3	307 2 ..	..		
Crow Quills	..	..	..	..	16	16	.. 1 ..	16	1	..	.. .. ..	..	..	
						Total Instruments		Rupees	1		3696 11 2		3701 4 6	7398-15-6

Madras
25th January 1879

H. N. Baddeley Lieut. R.E.
Acting General Supt. P.W. Stores

W. Hughes Major R.E.
Acting Supt. Engr. 3 Circle
29.1.79

[illegible]

Annual

ome Budget for 1879-80

Duplicate

No. ______

INDENT FOR STORES required for the Public Works Department in the Madras Presidency for the service of the Indian Government.

I HEREBY certify that the Stores enumerated in this Indent are absolutely required for the service of the Public Works Department for a period of twelve months, and I further certify that I have, by a personal inspection of Books and Stores, satisfied myself that they comprise the least possible quantity necessary for the above period.

Dated this ______ day of ______ 187__,

at ______

Signature ______

Rank Secretary to Government P.W.D.

NOTE.—1. In cases in which a personal inspection of Books and Stores cannot be made, the portion of the certificate relating thereto should be scored through.

2. The Indent should be paged, and the signature attached to the last line of the Indent.

Received by the Director-General of Stores in

Names of Stores	Established proportion	How established proportion is calculated	Quantity in Stores on [illegible]	Quantity due on previous Indents	Number or quantity now indented for	Price if obtainable in India	In…	Value of quantity due on previous Indents	Value of quantity now indented for	Remarks	Shipped or sent on previous…	Proposed to be supplied	Remarks of the Director-General…
…partment													
…nce Stores													
1878–79													
…ic Instruments													
…Gold, compt with arms … No				44				276 12 –					
… compt with arms	"	"	"	1				75 – –					
…Cisterns with Stand	"	"	"	4				207 6 4					
…Glass for Rain Gauges	"	"	"	12				47 10 –					
…ical Instruments in boxes 2nd Set	"	"	"	2				12 10 –					
—— do —— 3rd Set	"	"	"	3				26 5 9					
—— do in Teak Stick Case large	"	"	"	6				56 6 –					
…boxwood 2ft. Gunter's joint … No	"	"	"	1				2 7 –					
…Ivory Rolling 12 inches	"	"	"	6				17 – –					
…ditto do 15	"	"	"	1				9 – –					
do 18	"	"	"	2				20 4 –					
do 12	"	"	"	1				11 – –					
…Bevel Boxwood … sets	"	"	"	7				63 – –					
do with Offsets	"	"	"	7				22 17 –					
[illegible]								47 16 –					
								77 – –					
								437 – –					
								389 3 6					

Allowed to be obtained in India [illegible] in the Madras Presidency (Continued).

Names of Stores				Quantity due on previous Indents				Value: Of quantity due on previous Indents.	Value: Of quantity now indented for.	Remarks.
Surveying										
[illegible]										
Do. Stand	"	"	"	1				978.15 "		
3 Foot [illegible]	"	"	"	1				552.10 "		
Level Stand								1789.8 "		
[illegible]								3301.6 "		
Do. [illegible]	"	"	"	12				15.12 "		
[illegible]	"	"	"	6				6 " "		
Do. [illegible]	"	"	"	6				184.2 "		
Do. [illegible]	"	"	"	6				97.2 "		
Do. [illegible]	"	"	"	6				132 " "		
Do. [illegible]	"	"	"	6				53.2 "		
[illegible]	"	"	"	6				87.12 "		
[illegible] with handles	"	"	"	6				13.8 "		
Do. [illegible]	"	"	"	29				29 "		
[illegible] 10 inches	"	"	"	24				24 "		
[illegible] 8 inches	"	"	"	26				13.8 "		
[illegible] 11 inches	"	"	"	24				6 "		
[illegible]	"	"	"	24				16 " "		
[illegible]	"	"	"	24				12 " "		
								71 " "		
								192.8 "		
								24 " "		

2316.3.0 [illegible]

Provi

Manus

do.

do.

Plans f

Surface

Spades

Tools

do.

Turn

do.

Vices

Diamond

in the Madras Presidency (Continued).

	Quantity due on previous Indents.	Value of quantity due on previous Indents.	Value of quantity now indented for.	Remarks.
Brought forward				
6 do		999 6 –		
7 do	216	662 3 –		
10 do	1832	1600 10 –		
[illegible]h	20	385 – –		
[illegible]ks 18 x 20	12	21 – –		
[illegible]umper	1	101 – –		
[illegible] inches in boxes complete	10	9 6 –		
[illegible]ths do	7	661 8 –		
do	6	352 6 –		
do	3	– 15 –		
6 do	2	2 12 –		
Walling Glass	1	2 – –		
	2	40 – –		
Total Value of Tools		4812 3 –		
Special				
Gauges of Sizes	2356	18449 8 –		
Total Value of Cancelled Gauges		18449 8 –		
Grand				
Rupees		27722 3 3		

W. C. A. Baddeley
Lieut R.A.
Acting General [illegible]

1879–80

Instruments

Value: Of quantity due on previous Indents.	Value: Of quantity now indented for.	Remarks.	Shipped or under provision.	Proposed to be provided.	Remarks of the Director-General of Stores.
	11. 0. 8				
	316.13 –	✓			
	56.4 –	✓			
	22.16 –				
	580 – –	✓			
	977.12 –	✓			
	137 – –	✓			
	77 – –	✓			
	29.4 –	✓			
	20.4 –	✓			
	45 – –	✓			
	10.16 –	✓			
	6.12 –	✓			
	564 – –	✓			
	[illegible]	✓			
	292.2 –	✓			
Total value of Instruments	[illegible]				
	1000 – –				
	292 – –				
	36.4 –				

Annual Indent on England for Stores required in the Madras Presidency (Continued).

Value: Of quantity due on previous Indents.	Value: Of quantity now indented for.	Remarks.
	[illegible]	
	[illegible]	
	30 . .	
	[illegible]	
	[illegible]	
	[illegible]	
	36 12 .	
	29 . .	
	18 14 .	
	27 . .	
	7 4 .	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	

Annual Indent on England for Stores required in the Madras Presidency (Continued).

29

Names of Stores.	Established proportion.	How established proportion to be calculated.	Quantity in Store on [illegible]	Quantity due on previous Indents.	Number or quantity now indented for.	Price if obtainable in India.	Rate.	Value: Of quantity due on previous Indents.	Value: Of quantity now indented for.	Remarks.	Shipped or under provision.	Prepared to be provided.	Remarks by the Director-General of Stores.
Files half round bastard inches 12"								Brought forward	[illegible]				
do 8"					[illegible]		[illegible]		36				
do 6"					[illegible]		[illegible]		6				
Files half round smooth 14"					[illegible]		[illegible]		[illegible]				
do 12"					[illegible]		[illegible]		[illegible]				
do 8"					[illegible]		[illegible]		[illegible]				
do 6"					[illegible]		[illegible]		[illegible]				
Files round bastard inches 14"					[illegible]		[illegible]		[illegible]				
do 16"					[illegible]		[illegible]		[illegible]				
do 12"					[illegible]		[illegible]		[illegible]				
do 8"					[illegible]		[illegible]		72				
do 6"					12		[illegible]		6				
Files round smooth 12"					12		[illegible]		[illegible]				
[illegible] 14"					[illegible]		[illegible]		[illegible]				
do 12"					[illegible]		[illegible]		[illegible]				
[illegible]					[illegible]		[illegible]		[illegible]				
[illegible]					[illegible]		[illegible]		[illegible]				
[illegible] inches 36"					3		[illegible]		[illegible]				
do 18"			1		3		[illegible]						
[illegible]					15		[illegible]						
[illegible]			1		9		[illegible]						
[illegible]					[illegible]		[illegible]						

Annual Indent on England for Stores required in the Madras Presidency (Continued).

Names of Stores.	Established proportion.	How established proportion is calculated.	Quantity in Store on 1st January	Quantity due on previous Indents.	Number or quantity now indented for.	Price if obtainable in India.	Rate.	Value: Of quantity due on previous Indents.	Value: Of quantity now indented for.	Remarks.	Shipped or under previous	Proposed to be provided	Remarks by the Director-General of Stores
								Brought forward	324.12.–				
No.	"	"	"	"									
	"	"	"	"	40		[illegible]		101.4.–				
[illegible] of … winding and Screws [illegible]		"	"	"	20		[illegible]		46.14.–				
from 2" to 3" [illegible] Sets	"	"	"	"									
7/8 Do. No.	"	"	"	"	2		25.–.–		50.–.–				
8"	"	"	"	"	3		13.–.–		39.–.–				
Do.	"	"	"	"	3		2.–.–		6.–.–				
	"	"	"	"	2		2.–.–		4.–.–				
[illegible] Differential Pulley Blocks to lift 1 Ton No.	"	"	"	"	1	26.12.–			26.12.–				
Do. Do. 2 Tons	"	"	"	"	1	87.4.–			87.4.–				
								Total Value of Tools	3562.2.–				
[illegible] Workshops													
Metal													
2⅝" Tons	"	"	"	"	1	25 to 30 per Ton [illegible]							
1⅝"	"	"	"	"	2								
1⅜"	"	"	"	"	4								
3/4"	"	"	"	"	5								
8"	"	"	"	"	1	130			3120.–				
2⅞"	"	"	"	"	1	[illegible]							
3⅞"	"	"	"	"	1								
7/8"	"	"	"	"	2								
1⅞"	"	"	"	"	3								
								Carried forward					

N.B.—The red-ink columns to be left blank for filling up in England.

Annual Indent on England for Stores required in the Madras Presidency (Continued).

Names of Stores.	Established proportion.	How established proportion to be calculated.	Quantity in Store on 1st January [illegible]	Quantity due on previous Indents.	Number or quantity now indented for.	Price if obtainable in India.	Rate.	Value: Of quantity due on previous Indents.	Value: Of quantity now indented for.	Remarks.
inches 4/8" — Pairs	"	"	"	"	2			Brought ford	2170 " "	
3/8" — "	"	"	"	"	1					
inches inches 2" × 1/2" — "	"	"	"	"	2					
3" × 1/2" — "	"	"	"	"	2					
3" × 1/2" — "	"	"	"	"	1					
3" × 1/2" — "	"	"	"	"	2					
2 1/2" × 1/2" — "	"	"	"	"	2					
1 1/2" × 1/2" — "	"	"	"	"	1					
2 1/2" × 1/2" — "	"	"	"	"	2					
2" × 1/2" — "	"	"	"	"	2	Not [illegible]			2265 "	
1 1/2" × 1/2" — "	"	"	"	"	1	75 to 30% over Service Scale				
1 1/2" × 1/2" — "	"	"	"	"	1					
inches inches inch 4" × 4" × 1/2" — "	"	"	"	"	1					
3 1/2" × 3 1/2" × 1/2" — "	"	"	"	"	4					
3" × 3" × 1/2" — "	"	"	"	"	5					
feet feet inch 12' × 3" × 3/8" — "	"	"	"	"	5					
12' × 2 1/2" × 3/8" — "	"	"	"	"	5					
inches 2" — "	"	"	"	"	1/2					
1 3/4" — "	"	"	"	"	1/2					
1 1/2" — "	"	"	"	"	1/2					
1 1/2" — "	"	"	"	"	1/2					
1" — "										

Names of Stores.	Established proportion.	How established proportion is calculated	Quantity in Store on	Quantity due on previous Indents.	Number or quantity now indented for.	Price if obtainable in India.	Rate.	Value Of quantity due on previous Indents.	Value Of quantity now indented for.	Remarks.
Abstracts of the foregoing Indents for 1879-80										
alue of Instruments										
of Machinery										[illegible]
of Tools										1050.12
of Metal (for Presidency Workshops)										2061.2
										3388.-
Grand Total								Rupees 17106.2.4		

1879

H. C. Hermann

~~[illegible]~~ Engineer Presidency Exec^l Madras

W. H. Beddeley Lieut. R.E.

Acting General Superintendent Workshops

Value		Remarks.	Shipped or otherwise provided.	Proposed to be provided.	Remarks of the Director of [illegible]
Of quantity due on previous Indents.	Of quantity now indented for.				

Names of Stores	[illegible]	[illegible]	Quantity in Store	Quantity due on previous Indents	Number or quantity now indented for	Price if obtainable in India	[illegible]	Value: Of quantity due on previous Indents	Value: Of quantity now indented for	Remarks	Shipped or under provision	Proposed to be provided	Remarks
Special													
Machinery										The delivery and suction pipes to be of wrought iron and as light as possible. Each pump to be fitted			
Centrifugal Pumps Inches 6	–	2	–	–	1		650		Rs 650	with the proper suction foot valve, suitable Bolt joints.			
do do 7	–				1		850		850	&c complete			
do do 8	–				1		1000		1000	A double supply of Indian rubber washers bolts &c to be furnished with each pump			
and Steam … double Cylinder Engine with the … fittings … should be fitted with … to the Feed Pump … connected with the Feed Pump … of Wrought Iron fitted with … joints instead of Indian rubber	–	–	–		1		Rs 4500		Rs 4500				
… should be supplied with													

eft blank for filling

Annual Indent on England for Stores required in .... (Continued)

Names of Stores.	Established proportion.	How established proportion is calculated	Quantity in Store on	Quantity due on previous Indents.	Number or quantity now indented for.	Price if obtainable in India.	Rate.	Value		Remarks.
								Of quantity due on previous Indents.	Of quantity now indented for.	

Annual Indent on England for Stores required

NAMES OF STORES.	Established proportion.	How established proportion is calculated	Quantity in Store on	Quantity due on previous Indents.	Number or quantity now indented for.	Price if obtainable in India.	Rate.

Provincial Service

Annual

Indent for Government of India

for 1879–80.

provided for in the Public Works Budget for the year 187 .

Port to which to be shipped.	Estimated Cost.		Amount of Budget Provision	Remarks.	Price if obtainable o	
	Rate.	Amount.			Rate.	Amount.

Annual Indent for Stores from England which have been provided for in the Public Works Budget for the year 1879-80

[illegible]

[illegible]

1878-79

[illegible]

Description of Stores	Established Proportion	Balance in Store	Due on former Indents	Quantity now Indented for	Port to which to be shipped	Estimated Cost. Rate.	Estimated Cost. Amount.	Amount of Budget Provision	Remarks.	Price if obtainable on the spot. Rate.	Price if obtainable on the spot. Amount.
[illegible]	.	.	14		Madras		6376.12				
[illegible]	.	.	8				75				
[illegible]	.	.	6				787.6.4				
[illegible] Instruments in boxes 2nd Set	.	.	12				47.10				
do do 3rd Set	.	.	5				128.12				
do do [illegible]	.	.	1				36.8.7				
[illegible]	.	.	6				56.4				
[illegible] 15 inches	.	.	1				2.7				
do do do 10	.	.	4				17				
do do do 10	.	.	1				9				
do do do 12	.	.	2				26.6				
[illegible]	.	.	1				11				
do do with [illegible]	.	.	7				63				
do [illegible]	.	.	3				71.12				
do [illegible]	.	.	2				47.14				
[illegible]	.	.	20				27				
[illegible]	.	.	60				437				
							389.3.6				
							8658.7.8				
					Value of Instruments &c. [illegible]		10471.2.3				
					Madras		928.16				
							332.15				
							1759.8				
					Value of Machinery		3301.[illegible]				

25 to 30% [illegible]

nnual Indent for Stores from England which have been provided for in the Public Works

Description of Stores	Established Proportion	Balance in Store	Due on former Indents	Quantity now Indented for	Port to which to be shipped	Estimated Cost. Rate.	Estimated Cost. Amount.	Amount of Budget Provision.
					Brought forward Rs		587 6 -	
[illegible]	-	-		36	Madras		13 8 -	
[illegible]	-	-		24			6 - -	
[illegible]	-	-		24			15 - -	
[illegible]	-	-		24			12 - -	
[illegible]	-	-		71			71 - -	
[illegible]	-	-		97			195 8 -	
[illegible] Steel & do	-	-		24			20 - -	
[illegible]	-	-		50			75 - -	
[illegible]	-	-		318			662 3 -	
[illegible]	-	-		1838			1602 10 -	
[illegible]	-	-		722			325 - -	
[illegible]	-	-		12			21 - -	
[illegible]	-	-		1			101 - -	
[illegible]	-	-		12			9 6 -	
[illegible]	-	-		7			661 8 -	
[illegible]	-	-		6			381 6 -	
[illegible]	-	-		3			- 18 -	
[illegible]	-	-		3			2 13 -	
[illegible]	-	-		1			2 - -	
[illegible]	-	-		8			40 - -	
					Total Value of Tools		4312 3 -	
					Madras		18447 8 -	
					Total Value of Enamelled Iron Gauges		18447 8 -	
					Indents Rupees		37732 3 -	

Provincial Remittance Sto

A

Chain Iron Galv

do

Compressors Comprehen

do Pneumatic

Levelling Instrume

Watts Parallel Bras

do do

Watts folding Brass

do do

Troutes Plotting Boxe

do do

do do

Stanes Levelling

Tapes Metallic

do

nnual Indent for Stores from England which have been provided for in the Public Works Budget for the year 1879-80

Description of Stores.	Established Proportion.	Balance in Store.	Due on former Indents.	Quantity now Indented for.	Port to which to be shipped.	Estimated Cost. Rate.	Estimated Cost. Amount.	Amount of Budget Provision.	Remarks.	Price if obtainable on the spot. Rate.	Price if obtainable on the spot. Amount.
[illegible] 1879-80											
Instruments											
Chain Iron Galvanized Measuring 100 ft with arrows											
do do 66 ft do				27	Madras	10 8 9	[illegible] 13		25 to 30 % and Commission		
Compasses Prismatic				12		7 3	86 4				
do Miners with Stand				2		11 7	23 14				
Levelling Instrument Dumpy 14 inches				10		58	580				
[illegible] Holding 18 inches				6		154 10	927 12				
do do 12				8		17 2	137				
[illegible] 3 ft 9 inches joint				7		11	77				
do do 2 ft 6				12		2 7	29 4				
[illegible] Holding Boxes do	No.			10		7 11	70 10				
do do with Offsets				5		9	45				
do do Decimally divided				1		10 14	10 14				
Staves Levelling Telescopic	No.			6		1 2	6 12				
Tapes Steel Measuring 100 ft		20		28		20 4	567				
do do 66 ft		57		91		6 5	576 5				
				72		4 2 3	298 2				
					Total Value of Instruments		2701 4 6				
Machinery											
Machine Sawing Vertical	No.			1	Madras	1000	1000				
Apparatus Boring	do			2		197 12	395 8				
Gauge Steam with Pressure	do			2		28 2	56 4				
					Total Value of Machinery		1451 12				
Tools and Plant											
Anvils Iron Smiths 2½ cwt	No.										
Anchors 2 cwt				4	Madras	11 16 3	46 12				
do 1½ cwt				2		40	80				
do 1 cwt				2		35	70				
Blocks Iron Galvanized Single for 2½ inches Ropes				2		20	40				
do do [illegible]				9		16 2	145 10				
do do double do				4		9 3	36 12				
do do treble do				2		16 11	33 6				
Chisels Carpenters Firmer ½ inch to 1½ inch				2		31 12	63 4				
Compasses Carpenters Spring	Sets			8		3 6	27				
[illegible]	No.			3		2 10	7 14				
do do 8 inches		72				12	54				
do do 10 inches		72				8	36				
do do 12 inches		36				7	15 12				

nnual Indent for Stores from England which have been provided for in the Public Works

cription of Stores		Established Proportion.	Balance in Store.	Due on former Indents.	Quantity now Indented for.	Port to which to be shipped.	Estimated Cost. Rate.	Estimated Cost. Amount.	Amount of Budget Provision.
6" under	No.	„	„	„					
11"	„	„	„	„	24		- 2 6	3 - -	
10"	„	„	„	„	36		1 5 -	47 4 -	
10"	„	„	„	„	24		- 9 -	13 8 -	
8"	„	„	„	„	24		- 6 -	9 - -	
11"	„	„	„	„	24		- 4 -	6 - -	
15"	„	„	„	„	72		1 2 -	81 - -	
12"	„	„	„	„	72		- 11 -	63 - -	
8"	„	„	„	„	48		- 12 -	36 - -	
6"	„	„	„	„	12		- 8 -	6 - -	
15"	„	„	„	„	12		- 6 -	4 8 -	
12"	„	„	„	„	60		1 2 -	67 8 -	
8"	„	„	„	„	63		- 11 -	62 - -	
6"	„	„	„	„	48		- 10 -	30 - -	
11"	„	„	„	„	36		- 7 -	16 12 -	
10"	„	„	„	„	108		1 2 -	121 8 -	
12"	„	„	„	„	108		- 14 -	94 8 -	
8"	„	„	„	„	96		- 17 -	72 - -	
6"	„	„	„	„	12		- 8 -	6 - -	
	„	„	„	„	12		- 6 -	4 8 -	
10"	„	„	„	„	12		- 10 -	7 8 -	
12"	„	„	„	„	108	Madras	- 9 -	60 12 -	
10"	„	„	„	„	108				
	„	„	„	„	16				
	„	„	„	„	18				
ches	„	„	„	„	3				
	„	„	1	„	3				
	„	„	„	„	18				
brass	„	„	1	„	9				
per ft to 3/8"	Dels.	„	1	„	5				
3/8" to 1"	„	„	2	„	6				
1/2" to 1/2"	„	„	„	„	6				
	Do.	„	„	„	90				

Provincial Premises

For

Iron round
do
do
do
Iron Square
do
do
do
do
do
do
do
Iron flat
do
do
do
do
do
do
do
do
do
Iron Angle
do
do
Iron Sheet
do
Hoop Iron
do
do
do

[illegible] Indent for Stores from England which have been provided for in the Public Works [illegible]

Description of Stores	Established Proportion.	Balance in Store.	Due on former Indents.	Quantity now Indented for.	Port to which to be shipped.	Estimated Cost.		Amount of Budget Provision.
						Rate.	Amount.	
[illegible]				[illegible]	Cocanada	Rs 130 per ton	Rs 2385	

Gwynnes Centrif[illegible]

do

do

12 H.P. Clayton[illegible]

Portab[illegible]

Shaftin[illegible]

Madras

20th January

187[illegible]

…nnual Indent for Stores from England which have been provided for in the Public Works

…escription of Stores.	Established Proportion.	Balance in Store.	Due on former Indents.	Quantity now Indented for.	Port to which to be shipped.	Estimated Cost.		Amount of Budget Provision.	
						Rate.	Amount.		
…ecial									
… Machinery									
…ed Pumps [illegible] inches [illegible]					Madras				The delivery [illegible]
Do [illegible]				1		Rs 650	Rs 650		… light [illegible]
Do [illegible]				1		850	850		… section [illegible]
[illegible]				1		1000	1000		… double [illegible]
									… be [illegible]
…and Shuttle [illegible] Centrifugal [illegible] …Engine with the [illegible] …should be fitted with an Injector [illegible] …the Hand Pump …connected with the Hand Pump should …ought [illegible] fitted with universal joints [illegible] …of India rubber hose …should be supplied with a Pulley …the end of Crank shaft in addition …equipment [illegible] Box of Tools [illegible] and …Pipe [illegible] Injector [illegible]				1		2500	2500		
…and Steam Road Engine [illegible]				1		3800	3800		

Field Tubes of Special [illegible]

A C H [illegible]

In Charge
Executive Engineer [illegible]

nnual Indent for Stores from England which have been

escription of Stores.	Established Proportion.	Balance in Store.	Due on former Indents.	Quantity now Indented for.

[illegible] 6-3-77 [illegible]

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following :—

From,

The Supg. Engr. Third Circle { (H.C. No. 438 d/20th Jany. 1879)

do —— do —— (" " 532 " 3rd Feby. ")

do —— do —— (" " 855 " 18th " ")

With the foregoing endorsement the Supg. Engineer, Third Circle, forwards the Annual Home Indent for Public Works Stores for the year 1879-80, with the Budget Estimate of Tools and Plant to be obtained locally.

~~2. Under London supplies the following provision will be made~~

Can't we buy these in the market
to save importing?
The [illegible] a
Steam Fire Engine

[illegible]

H.P. 5/2

~~in the outgoing Budget:-~~

~~For Financial Remittance and Special Stores~~	~~Rs 28,206~~
~~For purchase of large Steamer for the Godavari Delta Works Rs~~	~~" 20,000~~
	~~48,206~~

54 The amounts of the demands for Tools and Plant, as given in the Superintendent's Statements, differ from those in the Budget Estimates of the Superintending Engineers. It will be better if, in future Budget Estimates, the Superintendent enters only the amounts required for expenditure by himself, and for London Supplies ~~and~~ leaving the Supdg Engineers to include in their Budget Estimates the sums proposed to be

for [illegible]
Correction [illegible]
Which [illegible] with the
Suggest to [illegible]
Supdg [illegible]
[illegible] the [illegible]
[illegible]
[illegible]
On these [illegible]
Compared with the [illegible]
by [illegible]

2 Under London supplies, the amount required, as per Tabular Statement now submitted with the Supdg Engineer's endorsement No. 855 of 18th Feby 1879, is Rs 25,513, as ~~follows~~ shown below:-

Instruments	Rs 1817
Machinery	" 56
Tools	" 1340
Special Machinery	" 2,300
Steamer for Godavari Deltas	" 20,000
	25,513

but Rs 48,206 having been provided for London Supplies in the Provincial Budget for 1879-80, the difference, Rs 22,693, will now be

withdrawn and credited
to the Reserve under
Tools and Plant.

3. In Part IV of the
Provincial Budget
for 1879-80, Rs 12,000
have been allotted to
the General Superintendent
of Public Works Stores
for Repairs and Carriage
of Tools, but as that
Officer can ~~[illegible]~~ apply for
only Rs 5,000, the difference,
Rs 7,000, will also be
withdrawn and credited
to the Reserve under
Tools and Plant.

These are ~~[illegible]~~ &
~~[illegible]~~ upon
warning them of the
importance of taking care
of the instruments in them
& carefully
promptly returning for
repairs any Pub. Wks. Dept.
No. 12/2
of 20 March 1875 & 1876
See Govt. of India 1876 — No 125

[illegible]

Enough funds are provided [illegible] [illegible] the [illegible]. The necessity [illegible] against [illegible] being repaired [illegible] and the [illegible] of such [illegible] [illegible] for the appropriation. W 24.3.79

Supg. Engrs.
Exr. P. W. Accts.
Fin. Dept.
Genl. Supt. P. W. Stores

expended by divisional
Officers. On the present
occasion, the figures entered
in the Superintendent's
Budget Estimates have
been adopted only when
provision for tools and
plant was not ~~made~~ included
in the Circle Budgets.

× 5 The sum of Rs 30,000
has been provided in
the Budget for 1879-80
on account of probable
increase of capital of the Presidency
Workshops.

W 6.3.79

Letters from the Supdg. Engr. Third Circle No. 438 d/20th January 1879 - No. 532 d/ 3rd Feby and No. 855 d/ 18th Feby 1879, submitting the Annual Indent of the P. W. Workshops in the Home Govt. for the year 1879-80.

Recirculated to His Grace the Governor.

The indents have now been reduced to the extent directed.

WH
24.2.79

6. 2. RC33. 2

Public Works Store Depart.

No. 1129

Madras 28th January 1879

From,

The General Superintendent,
Public Works Stores & Workshops

To,

The Executive Engineer,
Presidency Division.

Sir,

I have the honor to forward for submission to Government, through the Supdg. Engineer 5th Circle, the Annual Indent on the Home Government for the year 1879-80, together with a copy of the same indent in the form required by the Government of India to accompany the Budget.

2. The total requirement of the Circle Officers for 1879-80, amounts to Rs 77,703, out of which stores to the value of Rs 11,194 can be supplied from Stock in hand and supplies expected from England on previous indents. Stores to the value of Rs 14,505 have been eliminated, on account of intrenching tools

tools available for transfer from famine supplies, leaving a balance of Rs 51,004 for which funds will have to be provided as detailed below.

3 Expenditure in India

Circle Officers for new supplies exclusive of stores, available in P.W. Stores, as per red ink figures in part IV, Budget Estimate . . . Rs 5,673 - -

Do Do for Repairs and Carriage . . . 24,610 - -

General Superintendent P.W. Stores for Contingencies . . . 5,000 - -

Do Repairs to Machinery, Tools, and Instruments &c . . . 7,000 - -

Total Indian Expenditure . . . . . . 42,283 - -

Funds required for London supplies P.W. Stores General as per Home Indent for 1879-80 . . Rs 8,721 - -

Total requirements in India and England . . 51,004 ~~51,574~~ - -

Metal

Metal required by the Dowleishwaram Workshop as per Home Indent for 1879-80 not included in part IV Budget Estimate being raw materials for workshop purposes . . . . Rs [illegible] - -

Machinery for P.W. Stores Special as per Home Indent for 1879-80 Rs 140 - -

making a total of Rs 28,206 for London supplies as per Home Indent for 1879-80

4 As all stores are now classed as "Provincial" and no article will be issued from Stores without payment it becomes necessary that Divisional Officers should have funds placed at their disposal to pay for such articles as they may require.

5 Actual requirements only of Divisional Officers, have been included in this Indent, with the exception of entrenching tools which have been eliminated, as the tools issued to Famine Relief Works of which a large number must still be

no

are the Railroads in fair order, ought to be available for transfer from one Division to another. I have omitted also such articles as are readily and economically manufactured locally, thus reducing the amount for London supplies to the lowest limit compatible with efficiency.

6 It is assumed that under G.O. 20th August 1870 No 3321 a large number of tools will be sent to the Workshops for repairs. These tools after repair will either be returned to the Divisional officers or deposited in Store for re-issue, and as the cost of repairs must be borne either by the Divisional officers or by the Store Department provision of funds should be made for meeting this charge. The same remark applies also to unserviceable Instruments sent for repairs or returned for final deposit in store.

7 The Machinery and Plant of the

Stores

these generally will require repairs during the year 1870-71, and it is suggested that the provision of [illegible] will be sufficient to meet this and the repairs to tools alluded to in the preceding para.

8 No established proportion has been fixed, pending issue of orders on Circular from Chief Engineer No. of 2nd January 1870 on the maintenance of Reserve Stock to be hereafter held by each Division in the Presidency.

9 I beg to invite particular attention to part II Budget Estimate compiled from the Divisional Returns herewith submitted, the largest amount required is by the Kistna Division for repairs to Floating Plant. It is for Government to determine whether the amount asked for will be given.

10 The Department has been put

[illegible]

to much inconvenience for the want of Pumps, those in Store are much worn and works very insatisfactorily. I have included in this Indent under "Special Service" 3 Gwynne's Centrifugal Pumps, with one 12 HP Engine Portable for driving them also a crane for Engine. I beg that the Government may be moved to accord sanction for the supply of these most necessary articles.

I have &c &c

(Signed) W. L. C. Baddeley Lieut R.E.
Ag. General Supt Ph. Stores

No. 5903

Submitted to the Supg Engineer 3rd Circle with reference to his No. 741 Dated 17th January 1879.

Encl 1 (Signed) S. C. Plummer Lieut
Actg Engr in chr. Presidency &c
19th January 1879.

No.

No. 438

(True copy)

Forwarded to the Chief Engineer Public Works Department with the six enclosures duly countersigned.

H. Clark Major R.E.
Ag. Supg. Engineer 3rd Circle

Supg. Engineer's Office 3rd Circle
Mount 2[illegible]th January 1879

No. 672 W Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT

Under date the 6th March 1877

Read the following —

From
The Supdg. Engr. Third Circle } (No. 428 of 28th Jany. 1877)
" do do (" 532 " 3rd Feby ")
" do do (" 855 " 18th " ")
" General Supt. P.W. Workshops (" 4504 " 25th " ")

With the foregoing endorsement the Supdg. Engr. Third Circle, forwards the Annual Requirement for Public Works Stores for the year 1877-78 with the Budget Estimate of Tools and Plant to be obtained locally.

2. Under London supplies the amount required, as per Tabular Statem

W.E. 26/2

now submitted with the
Supdg Engineer's statement
No 855 of 16th Feby 1879,
is Rs 25,513, as shown
below:—

Instruments	Rs 1817
Machinery	" 56
Tools	" 1340
Special Machinery	" 2300
Stores for Office outlay	" 20000
	25,513

but Rs 48,206 having
been provided for London
supplies in the Provincial
Budget for 1879-80 the
difference, Rs 22693, will
now be withdrawn and
credited to the Reserve
under Tools and Plant.

3. In Part IX of
the Provincial Budget
for 1879-80, Rs 12,000
have been allotted to
the General Superintendent
of L. & Stores for Office
and carriage of Tools,
but as that Officer
now applies for only
Rs 2700, the difference
Rs 9300, will also be
withdrawn and credited
to the Reserve under
Tools and Plant.

4. The amounts of
the demands for Tools
and Plant, as given in
the Superintendents'
statements, differ from
those in the Budget
Estimates of the Supdg
Engineer. It will be
better if, in future

Budget Estimates, the Supdt enters only the amounts required for expenditure by himself, and for London supply leaving the Depy Engineers to include in their Budget Estimates the sums proposed to be expended by Divisional Officers. On the present occasion the figures entered in the Supdt's Budget Estimates have been adopted only when provision for tools and plant was not included in the Circle Budgets.

5. The sum of Rs [illegible] has been provided in the Budget for 1879-80 on

on account of probable [illegible] of Capital of the Bombay Workshops

18/4/79

But as the Govt are of opinion that Rs 10000 should be sufficient for this purpose the difference, Rs 20000 will also be withdrawn and credited to the Revenue under Tools & Plant

Supg Engrs
Exr. P. W. Acctt
Finl. Deptt
Genl. Supdt. O.W. Stores

Chief 01 – 3 – 77

20.3.78 = 7976.
26.5.78 = 1026.
9.7.78 = 1946.
17.3.78 = 778.
9.4.78 = 1028.
20.1.78 = 2376
28.8.78 = 33205
18.4.78 = 7888. 7861
17.10.78 = 57. [illegible]
16.12.78 = 476346
[illegible] 1.79. [illegible]
61. 761. 25.1.79

PUBLIC WORKS.

11/3/75

Nos. 93-94

Annual Home Indent

for Public Work Stores

for the Year 1879-80

Filed in the

6