8 11/95 | RH/5-6 | 95

7532/RH-95

His Excellency the Governor

Public Works Department,

Public Works (1896) Department.

G.O., No. 1034-5.L

DATED 5th December 1896

[Despatch Abstract.]

Steam launch: Ordered that the Govt. of India be requested to arrange for this Govt. being furnished with a design specification and estimate for constructing at the Kidderpore Dockyard a — for use in the Kistna Delta.

Steam launch: Requesting that this Govt. may be furnished with a design specification and estimate for constructing at the Kidderpore Docks and a — for use in the Kistna Delta.

1897
To Current No. 250

INDEXED.

5/12

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

His Excellency the Governor.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

No 1034 I of 5th Decr 1896.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the
Read the following:
~~READ the following~~

Print Letter from the Supg. Engr., Second Circle (H.E. No 1820-K, dated 5 October 1896)
Print Memo to do do (H.E. No 165-K.S. - - 21 do)
Print Letter from the Supg:Engr: II Circle (H.E. No:2147 K, dated 7th Novr 1896
Print Note by the Chief Engineer for Irrgn: (H.E. No: 214. I. d/ 27th Novr 1896)

Order thereon: -

The following letter will be sent to the Government of India ..... Marine Department. 107

To The Supg. Engineer, Second Circle.
" Chief Engineer for Irrigation with copy of letter to Govt of India, Marine Dept.

27/11
96

D
11/1/97

No 1035 I of 5th Decr 1896.

To,

The Secretary to the ,
Govt: of India
Marine Department.

Sir,

Draft approved by I.

In forwarding herewith a copy of proceedings Madras Government No: 1034 I dated 5th Decr 1896, I am directed to request, that the Government of India will be pleased to arrange for this Government being furnished, as soon as possible, with a design specification and estimate for constructing at the Kidderpore Dockyard, a ... steam launch, for use in the Kistna Delta, the conditions being as indicated in the Superintending Engineer's letter recorded in the accompanying proceedings.

2.54
3.12.96

Issue

3/12

D I
D
11/1/97

3.12.96

E. I. Form No 1—1,000—27-11-96.

H.E. 1.12.96

8

Public Works (1896) Department.

CURRENT No. 10869

Order

From the Chief Engineer for Irrign.

No. 214 I.

Dated 27th November, 1896

Received 1.12.96

Enclosures 4

Spare copies

SUBJECT.

Steam Launch for use in the Kistna Delta. Note submitting with the recommendation that arrangements may be made for obtaining from the Kiddepore Dockyards plan, specification and estimate for a—

BACK PAPERS.

G.O.	No.	Department.	Date.
R 29 II	2.9.96		
I 13 II	12 9 96		
R 321 KS	5.10 96		
I 165 KS	21.11 96		
R 366 KS	7 11 96		
G.O 935 I	7 11 96		
G.O 822 I	24 10 95		
R 368 W	15 4 91		
G O 2085 I	4. 3 91		
G.O 736 I	23.11. 87		

FURTHER PAPERS.

G.O.	No.	Department.	Date.

No 214. I

9P

Note by the Chief Engineer for Irrigation

Submitted to Government with the recommendation ... that arrangements may be made for obtaining from the Kidderpore Dockyard a plan specification and estimate for a steam launch for use in the Kistna Delta.

2. The statement referred to by the Superintending ... Engineer was recently verified by the Superintending Engineer Sixth Circle, and refers to the "Daisy" the launch which is kept on the Periyar lake.

3. The conditions to be fulfilled by the launch required for the Kistna Delta are sufficiently given in the .. Superintending Engineer's letter.

J. J. Wilson

For Chief Engineer for Irrigation.

Chepauk

27th November 1896

Public Works (1896) Department.

CURRENT No.

R366KS

Order

From The Suptg Engineer II Circle

No. 2147 K.

Dated 7th November 1896

Received

Enclosures

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SUBJECT.

Steam launch "Daisy" Periyar Project- Forwarding certain remarks as to the suitability of the – on the Kistna-

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Superintending Engr's office,
2nd Circle.

6P

No. 2147 K. Dated 7 November 1896

From,
Major W. L. C. Baddeley R.E.
Superintending Engineer,
2nd Circle.

To
The Chief Engineer,
For Irrigation.

Sir,

In reference to your No. II/165 K.I.† of 21st October, 1896, I have the honor to inform you that the length, breadth, & draught of the "Daisy"* would be suitable; but as the launch might have to encounter strong winds & rough water in the river during floods, it is essential that she should be stiff & stable. If in order to meet these requirements it is necessary to give her greater beam & length, there would be no objection to doing so, within the limits of 60' length & 12' beam.

As

† Vide linked file of K. 629 m/95.

* Length 45 ft
Beam 9 ft
Draught 3 ft.

As regards speed I am informed that the "Daisy" could tow 6 loaded punts, and that her speed was much in excess of that given in the tabular statement you sent me. Perhaps the N. H. P. has been under stated by a clerical error.

2) However, as the Kistna runs at least 6 miles an hour in floods, it is necessary that the launch now asked for should be capable of steaming at least 3 miles an hour against the full force of the current. The launch should be of the twin screw type & be capable of steaming with one screw, as there is always a danger of the screws getting foul with drift wood.

3) She should be provided with bollards for towing, and should be thoroughly strong & reliable in a rough river. No cabin accommodation is required; but the engine room should be covered in. I would suggest that enquiry be made whether the Specification sent with your letter under reference refers to the "Daisy", for I am told that she was not put together at the Periyar until 1893 while the date of construction in the Specification is given as 1888. Does the Specification refer to one of the other launches, the name "Daisy" being entered by mistake.

I have the honor to be,
Sir,
Your most obdt Servant,
W. Baddeley Major R.E.
Superintending Engineer,
II Circle.

CH
FOR IRRIG
10 Nov 96
No. K366K

Ows11
12869/96

Public Works (1896) Department.

CURRENT No.

Order

From The Chief Engineer for Irrign

No. II/1654S.

Dated 21st November 1896

Received

Enclosures

Spare copies

SUBJECT.

Steamer required for the Kistna Delta – Supdg Engr is requested to state the dimensions and speed of the – as the "Daisy" would be unsuitable for use above the Anicut and forwards a statement showing the parti of her dimensions

Statement showing particulars of dimensions &c of the Steam Launch "Daisy" Periyar Project

Name	Description	When and where built	Original cost	Tonnage	Nominal Horse power	Speed	Dimensions				Fuel wood		How employed.
							Length	Breadth	Draught		Quantity carried	Consumption per hour	
									Forward	Aft			
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			£			Miles	Ft:	Ft:	Ft:	Ft:	C. yds	C. yds	
Daisy	Iron single Screw Launch	Glasgow 1888	760	13	7	6	45	9	3	3	2	1/4	Employed in towing boats with materials &c

FURTHER PAPERS.

G.O.	No.	Department.	Date.

BACK PAPERS.

G.O.	No.	Department.	Date.

Encl 7 I No 165 KS (II)
21.10.96

OW 5-3 / 10829/96

P

II
No 165 KS d/ 21-10-96

Memo

Encl.

The undersigned has the honour to request, with reference to letter No 1820 K dated 5th Oct /96 from the Supg Engr II Circle that he will be so good as to state length, breadth, draught and speed of the steamer required for the Kistna delta. The "Daisy" would probably be unsuitable for use above the anicut. She is pretty powerful but can do only six miles an hour. A statement showing the particulars of her dimensions is enclosed for information.

20/10

N.H.
21/10

To, The S-E H II Circle

BR 19-10-96

R321 KD/56

[illegible]

Revenue

The Commissioner [illegible] request

has the honour to

request with reference

to Letter No 1820 K dated

5th Oct/96 from the Supdg

Engr II Circle that he will

be so good as to state

length, breadth, Draft

and speed of the steamer

required for the work as the

the "Daisy" would probably

be unsuitable for use

above the Anicut. He

is pretty [illegible] that

[illegible] any [illegible]

[illegible] Attachment

showing the dimensions

of two steamers [illegible]

[illegible]

[illegible]

20/10

Public Works (1896) Department.

CURRENT No.

R321 KD/56

Order

From The Supdg Engr 2 Circle

No. 1820 K.

Dated 5th October 1896.

Received

Enclosures

Spare copies

SUBJECT.

Steam Launch of the type of the "Daisy" for the Kistna Delta. Recommends the provision of a —

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Supg: Engineer's Office,
2nd Circle Bezwada
5 October 1896

No. 1820 K.

2 P

From

Major W. L. C. Baddeley R.E.
Supg: Engineer,
2nd Circle.

To

The Chief Engineer,
For Irrigation
Madras.

Sir,

In reference to your No. 13. II d/ 12th Septr: '96 and previous correspondence. I have the honour to inform you that I think it is very necessary that these works should be provided with a steam launch of the type of the "Daisy".

2. Two stern wheelers are under construction at the Kidderpore docks for the Kistna, but these are shallow draught vessels especially intended for towing boats when the river is low, and for inspection work below the Anicut, for which a draught of more

than

than 3' is in admissible.

The only steamer now on the works, the "Alexandra", is only 10 H.P. and quite unsuited for work on the river during high freshes. She is also rapidly wearing out and I strongly recommend that a launch like the "Daisy" be procured from England.

3. The danger of having only one steamer was strongly marked during the late floods, as if the "Alexandra" had broken down in attempting to cross the river she would either have been carried over the Anicut, or else have been obliged to anchor in the river for almost 3 weeks. In either case all her crew would have been lost, as it would have been impossible to send any other boat to their assistance.

4. The specification for the "Daisy" can, I presume, be obtained from your Office or that of the Madura Dn, and if my proposal be approved, I beg that an indent may be sent home in time to have the launch ready for use here before next May.

I have the honour to be,
Sir,
Your most obdt Servant,

W. Baddeley
Major R.E.
Supg Engr: II Circle.

CHIEF ENGINEER
FOR IRRIGATION.
7 OCT. 96
No. 1324K

6354
10865/96

Public Works (1896) Department.

CURRENT No.

Order

From The Chief Engineer for Irrign

No. 13 . II

Dated 12th September 1896.

Received

Enclosures

Spare copies

SUBJECT.

Steam Launch "Daisy"
Informs that the — cannot be spared, as it is always in use at Periyar

8

R 25 II/56 B

Public Works (1896) Department.

CURRENT No.

R 29 II

10347
10353

Order

10347
10349

From The Supdg Engineer 2 Circle

No. 2634 L.

Dated 2d September 1896

Received

Enclosures

Spare copies

SUBJECT.

The "Daisy" Steam Launch in No. 1 Periyar. On Enquiring whether — can be transferred to the Kistna

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

GINEER
GATION.
.96

Rcy. II/96

BACK PAPERS.

G.O.	No.	Department.	Date.
	935 I.	P.W.	7.11.95
	822 I.	"	24.10.91
	208 I.	"	4.3.91
	736-37 I.	"	23.11.87

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Superintending Engr's Office
2nd Circle.
No. 263 Gb dated 2d September 1896

From.

Major W. L. C. Baddeley R.E.
Superintending Engineer
II Circle.

To

The Chief Engineer,
for Irrigation,

Sir,

In reference to G.O. No. 935 I, dated 7th November. 1895: I have the honor to enquire whether the "Daisy" steam launch could be transferred to the Kistna.

2. There will be a good deal of towing work to be done for the next two years, as the Seethanagaram quarry has been closed, and nearly all the stone for the Western Division will have to be brought across the river until arrangements can be made for opening a new quarry in the Kistna Western Division

3. It is also very unsatisfactory to have only one steam launch on the works, for in the event of her breaking

down there is no other vessel to send to her assistance.

4. I am certain that the "Daily" if in good order would be most usefully employed here & I hope that the transfer ~~would~~ will be approved and carried into effect as soon as possible.

5. The launch might be brought to Madras in pieces, and after being put together and thoroughly overhauled in the P. W. workshops, sent to Bezwada by ~~via~~ the Buckingham canal.

I have the honor to be,
Sir,
Your most obdt. Servt.
W. Baddeley
Major R.E.
Superintending Engineer,
II Circle

CHIEF ENGINEER
FOR IRRIGATION.
4 SEP 96
No. 29-II

From:

The Superintending Engr.
II Circle

To

The Chief Engineer,
For Irrigation.

No. 263 Gl dt 2 September
1896

—

The "Daisy" steam launch
in No. 1 Periyar Dn —
Enquiring whether
can be transferred to
the Kistna.

No. 935 I., 7th November 1895.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

Read—the following paper :—

> From S. D. PEARS, Esq., Superintendent of Works, No. I Periyár Division, to the Chief Engineer, Public Works Department, dated Periyár, 26th October 1895, No. 125 C.E.

I have the honour to enclose a copy of the tools and plant return for this division for the half-year ending August 1895, and to request orders as to the disposal of the articles therein enumerated.

2. Those entered in black type have already been disposed of either by sale or by transfer to other divisions under G.Os. Nos. 2569 W. and 3130 W., dated 15th October and 7th December 1894, respectively.

3. Of the remainder, I require instructions as to which articles you would wish to keep as being likely to be useful hereafter in the Public Works Stores or in other divisions and which to sell and in view of the very heavy expense of transport to the Public Works Stores at Madras, amounting to about Rs. 70 per ton, I would recommend that as much as possible of it shall be sold.

4. With regard to prices I would suggest that I may be authorized to fix these. The value arrived at by an arbitrary annual deduction from the original book value is likely to be widely wrong in many cases and I would propose to fix their values by consideration of each item on its own actual merits. I would then advertise a price list, and of all such things that are not sold by the 15th January 1896 at the price list values I would hold an auction at Periyár on that date.

5. Your selection of the items to be reserved for Government will of course be made on the assumption that such items are in fairly good order. Should it appear from my final inspection of them at the close of the works that any of them are so much worn as to make it doubtful whether they are worth reserving, I will again report on these accordingly, and will suggest that such should be relegated to the proposed auction in January 1896.

6. The favour of early orders is requested.

—

Enclosure.

No. I Periyár Division.

List of machinery and tools, &c., available for sale or transfer to other divisions on the 31st August 1895.

Item number.	Particulars.	Number.	Remarks.
	Scientific Instruments.		
1	Levels, cushings	5	Lent to Madura Division officer. a.
2	Staves, telescopic	10	
3	Theodolite	2	
4	Omnimeter	1	
5	Prismatic compass	4	
6	Chain, measuring 100 feet	3	
7	Do. 50 ,,	4	
8	Tape, metallic 100 feet	14	
9	Do. 50 ,,	15	

List of machinery and tools, &c., available for sale or transfer to other divisions, &c.—*cont.*

Item number.	Particulars.		Number.	Remarks.
	Scientific Instruments—cont.			
10	Steel tape, 50 feet		3	a.
11	Mathematical instrument box, 1st class		2	
12	Do. do. 2nd ,,		1	
13	Do. do. 3rd ,,		3	
14	Straight edge brass		3	
15	Rules, parallel rolling		8	
16	Scales, plotting	sets	5	
17	Pentagraph		1	
18	Spirit levels		9	
19	Plumb bob		6	
20	Steel foot rule		3	
21	Scales, card boards		2	
22	Thirty inches T square		1	
23	French curves		18	
24	Drawing pens, 1st class		2	
25	Rain gauges, tin		2	
26	Rain gauge, Crossley's		1	
27	Current metre		1	
28	Rule folding box, wood, 3 feet		3	
29	Do. do. 2 ,,		3	
30	Quadrant ghât tracing		1	
31	Cross staff		1	
32	Tachometer		1	
33	Jees pit levelling staves		2	
34	Barometer		1	
35	Slope rule		1	
36	Photographic comera, Stanley's		1	
	Tunnel Machinery.			
37	**Rock boring machine**		8	
38	**Air compressor**		2	
39	**Air distributor**		2	
40	**Air receivers**		2	
41	**Water injector**		1	
42	**Blast fan with shaft to exhaust 6,000 cubic feet**		1	
43	Rock drilling machine, hand, Jordons (patent)		2	b.
44	Rock drills of sizes		144	
45	**Roots boiler, 15 horse power**		3	
46	**Horizontal engine and compressor, 15 horse power**		2	
47	**Receivers**		2	
48	**Three and a half inches rock drilling machine**		6	
49	**Six feet stretcher bar with clamps, &c.**		8	
50	**Distributors**		2	
51	**Four inches rock drilling machine**		6	
52	**Compound rock drills**		6	
53	Horizontal engine and compressor, 50 horse power		1	a.
	Concrete manufacturing machinery.			
54	**Stone breakers**		1	b.
54A.	Stone breakers		8	
55	Mortar mixers		2	
56	Concrete mixers		2	
57	Disintegrators		4	
58	Conveyors		4	
59	Mortar mill, complete		3	
60	Main shaft with pulleys		1	
61	Counter shaft with pulleys		2	
62	Shaft with measuring drums		1	
	Light Railway plant.			
63	**Portable Railway**	feet	3,000	Sold—*vide* G.O. No. 317 W., dated 7th February 1895.
63A.	Portable railway	feet	8,088	
64	Points and crossings	sets	25	a.
65	Turn tables		5	
66	Side tipping wagons		54	
67	End tipping wagons		25	
	Turbines.			
68	150 horse power turbine with shaft and gearing		1	a.
69	Turbine, 60 horse power		1	
70	**Turbine, 50 horse power**		1	
71	**Tnrbine, 6 horse power**		1	Sold—*vide* G.O. No. 2569 W., dated 15th October 1894.
	Hoisting gear.			
72	Crane, portable, 1 ton		6	a.
73	Do. do. ½ ton		6	
74	Crab winch, 5 tons		2	b.
75	Do. 4 tons		1	a.
76	Do. 3 tons		3	
77	Do. 2 tons		2	
78	Hydraulic jacks		2	
79	Travelling jacks		2	
80	Blocks, iron, galvanized		26	
81	Do. Westons differential, 2 tons		1	
82	2-ton differential pulley block with chain		1	

List of machinery and tools, &c., available for sale or transfer to other divisions, &c.—*cont.*

Item number.	Particulars.		Number.	Remarks.
	Hoisting gear—cont.			
83	Lifting gear for locks	pairs	2	b.
84	Winding engine with fittings complete		1	a.
85	**Derrick crane**		1	b.
85A.	Derrick crane		1	
	Pumps.			
86	Horizontal double acting force pumps to throw 3,000 gallons per hour to a height of 150 feet.		1	a.
87	**Tangeys special steam pump 8″ steam cylinder and 5″ water cylinder with condenser foot valve, steam and water pipes for a lift of 140 feet.**		1	
88	Tangeys special steam pump 4″ steam cylinder and 4″ water cylinder with condenser foot valve, steam and water pipes for a lift of 60 feet.		1	
89	**Tangeys special steam pump with 8″ steam cylinder and 4″ water cylinder.**		1	
90	**Pump, centrifugal, 10″**		1	
91	Pump, centrifugal, 8″		1	
92	**Pump, centrifugal, 6″**		1	Transferred—*vide* G.O. No. 187 I., dated 26th February 1895.
93	Pump, Pulsometer No. 5		4	a.
94	Do. do. No. 4		1	
95	Hand pumps		7	b.
96	**Archimedian screws**		4	Two transferred—*vide* G.O. No. 187 I., dated 26th February 1895.
97	Sand pumps with cutter and gearing		1	b.
98	Flexible steam hose		3	a.
99	Ten feet length of wire-bound delivery hose		2	
100	**Centrifugal pump 1½″**		1	
101	Pitcher spout pump with steel driving point and wrought iron pipes.		1	b.
102	Flexible suction hose		5	a.
103	Donkey pump		3	b.
104	Tanned canvas rubber lined delivery hose		1	a.
105	Do. do. 195′		1	
106	Guy screws		6	b.
	Engine and steam boilers.			
107	Portable engine, 8 horse power		3	a.
108	Do. do. 6 do.		2	
109	Vertical boiler, 6 do.		3	
110	**Portable Locomotive boiler**		1	
110A.	Portable Locomotive boiler		1	
111	Pressure gauge		4	
112	Portable engine, 10 horse power		2	
113	Oil engines		2	a (One of them lent will be kept with the launch to which it belongs.)
	Lights.			
114	Wells light, large		4	a.
115	Do. small		3	
116	Wells Hurricane lamps		3	
117	Public Works square lanterns		15	b.
118	Wells torch lamps		15	
119	Coxe Plummet lamps		2	
120	Engine head lamp		1	
	Weighing plant.			
121	Weighing machine, 4 tons		2	b.
122	Do. 1 ton		2	
123	Beam scale		2	
124	Fair banks weighing machine		1	a.
	Electric plant.			
125	**Electric firing machine**		1	
125A.	Electric firing machine		1	a.
126	**Test box galvanometer**		1	
127	Electric bell, 4½″		2	a.
128	Chattering bell		5	
129	Electric bell 2½″		1	
130	Bell inturruptor for continuous ringing		1	
131	Three shutter indicator with bell		1	
132	Leclannche battery, 4 cells		2	
133	Do. 2 ,,		2	
134	Bell wire	yards	690	
135	Insulators		40	
136	Wire single galvanized miles		3½	
137	Chinapushes cream colors		1	
138	Level belt stretcher		1	
139	Belt shippers		1	
	Wire Ropeway.			
140	A. Ropeway, 6 miles		1	b.
141	B. Ropeway, half mile		1	
142	Buckets with hangers		25	

List of machinery and tools, &c., available for sale or transfer to other divisions, &c.—*cont.*

Item number.	Particulars.	Number.	Remarks.
	Miscellaneous.		
143	Circular saw table with fly wheel, complete	1	b.
144	Semiportable steam saw mill	1	
145	General joiner	1	a.
146	Hydraulic press, 50 tons	1	
147	Tipping boxes	100	b.
148	Bulls dredger	13	
149	Trolly, four wheeled	1	
150	Surki screens	19	
151	Sand do.	25	
152	Priestman's steam dredger	1	a.
153	Luthe screw cutting	1	
154	Grinding stone with trough and pully to work by steam power	1	
155	Fan blowers or ventilating	1	
156	Jim crows	3	
157	Winchester rifle	1	b.
	Floating plant.		
158	Rowing boat	3	All these should be sold by auction on the spot except the "Daisy," "Mary" and "Maud" and the ~~ten~~ four iron barges, which should be retained for future use on the lake.
159	Half out rigged boat	1	
160	Wooden barge, large and small	20	
161	Wrought iron barge	4	
162	Steam launch	3	
163	Cochin boat, large and small	26	
164	Dug-out	7	
165	Iron framed punt	2	
	Tools, Ordinary.		
166	Pick-axes	660	a.
167	Hand axes	61	
168	Felling axes	522	
169	Hammers, sledge	625	
170	Do. hand	57	
171	Do. steel stone breaking, 3, 4, 5, 7 and 10 lb	2044	
172	Do. miners	74	
173	Mamoties	2283	
174	Crow bars	406	
175	Jumpers	1598	
176	Bill hooks, country	373	
177	Rammers, iron	39	
178	Road tampers	199	
179	Shovels and spades	69	
180	Sickles	143	
181	Steel wedges	135	
182	Pitch forks	3	
183	Rakes	5	
184	Screw jumpers	3	
185	Pointing trowels	95	
186	Steel amalgum bell with cast iron bracket	1	
187	Earth angers	1	
188	Masons trowels	1	b.
189	Tin opener	2	
190	Tin cutter	2	
191	Glass cutter	1	
192	Iron chatties	800	
193	Galvanized iron buckets	368	
194	Watering cans	109	
195	Empty tins	678	
196	Nipper	3	
197	Picottah buckets	4	
198	Brass padlock	1	
	Workshop Tools.		
199	Bellows, english	19	a.
200	Anvils	24	
201	Swage blocks	2	
202	Revetting hammers	8	
203	Do. dies top and bottom	12	
204	Steel hammers, 1½ lb	14	
205	Do. 1 lb	8	
206	Files of sizes	496	
207	Vices, large	15	
208	Do. hand	4	
209	Chisels, cold	56	
210	Ratchet braces with bits	11	
211	Taps and dies and stock sets	12	
212	Screw plate with 4 taps	1	
213	Monkey wrench	12	
214	Clyburn spanner	22	
215	Ordinary spanner	17	
216	Gas tongs	8	
217	Tongs	15	
218	Snaps punch	2	
219	Burnishers	3	
220	Carpenters' tool box	3	
221	Do. compass	2	

List of machinery and tools, &c., available for sale or transfer to other divisions, &c.—*cont.*

Item number.	Particulars.	Number.	Remarks.
	Workshop Tools—cont		
222	Anger of sizes	187	a.
223	Saw, hand	69	
224	Do. large	12	
225	Do. circular	3	
226	Do. bow	1	
227	Nail puller	2	
228	Grinding stone	3	
229	Callippers	7	
230	Hydraulic punching gear	1	
231	Tube erepander	2	
232	Blacksmiths' and fitters' tools in box set	1	
233	Planes trying	2	
234	Do. joining	2	
235	Bellows, country	4	
236	Fitters compass	1	
237	Blacksmiths' hammer	2	
238	Wrench parrot nose to take 1″ to 2″ pipe	1	
239	Tongs adjustable pipe No. 3 (¾″ to 2¼″)	1	
240	Pipe wrench and tube cutters No. 2 (1″ to 2″)	1	
241	Instantaneous vice	6	
242	Portable forge	2	
243	Portable vice on wheels	2	
244	Oil stone turkey in case	1	
245	Crucibles	2	
246	Marble mortor	1	
247	Pincers	2	
248	Saws tenon	2	
249	Soldering tools	2	

PERIYAR,
26th October 1895.

(Signed) S. D. PEARS,
Supdt. of Works, No. I Periyár Divn.

ORDER—No. 935 I., dated 7th November 1895.

The items in the statement appended to the foregoing letter which are marked "*a*" will be transferred to the Public Works Stores and those marked "*b*" will be sold at Periyár. It will be understood that the selection is in accordance with paragraph 5 of the Superintendent of Works' letter.

2. The Superintendent of Works will have full discretion as to the prices to be charged to the Public Works Stores; these prices should be what the articles may reasonably be supposed to be worth *at the stores*, the cost of carriage thereto being borne by the project.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chief Engineer for Irrigation.
„ the Consulting Engineer for Railways.
„ Superintending Engineers.
„ the Consulting Architect to Government.
„ the Superintendent of Works, No. I Periyár Division.
„ the Examiner, Public Works Accounts.
„ the Chairman, Harbour Trust Board.

Exd. P. Seetharam.
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CHIEF ENGINEER
FOR IRRIGATION.
19 NOV.95
No. 8924

IRRIGATION.

Govt. of {1895} Madras.

PUBLIC WORKS.

Dated November, 7th.

Recd. *Encl.*

G.O. No. 935 I., 7th Nov. 1895.

NOVEMBER.

Tools and Plant

Orders as to the disposal of the — in No. I Periyár division.

11