

- (1) பக்தங்கலின் எண்ணிக்கை 28
 (2) புதுக்கித் திருப்பிய நாள் 8/88
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் low

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பெருந்திணை துறை

அரசாணை எண். 3040 w
 மு. கோப்புத் தாள் எண்.

அச்சகம்
பல்லகை

நாள் :

27-9-1888

1988

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

3040
X

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers :—

From J. HANNAN, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated Bezvada, 29th August 1888, No. 1328 K.S.

I have the honor to forward herewith, for your approval and sanction of Government, a statement of stores manufactured in Europe, but to be purchased in India during the quarter ending 30th September 1888, and to state that the greater portion of the iron stores required are for the shutters and shutter gearing for irrigation and surplus sluices on the Ellore canal, the revised estimate for which was lately sanctioned. As they are urgently required, the favor of obtaining the early sanction of Government is solicited.

No. 3348 C.

Referred to the Superintending Engineer, V Circle, for favor of early report whether any of the articles can be supplied from the Public Works Stores.

(By order.)

(Signed) W. L. C. BADDELEY, Captain, R.E.,
4th September 1888. Dy. Chief Engineer, P.W.D.

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepák, 18th September 1888, No. 2600.

In returning your endorsement No. 3348 C., dated 4th September 1888, I have the honor to state that the articles marked with blue pencil in the statement of the Superintending Engineer, II Circle, are available for immediate issue. These have been received from England for the Kistna Eastern division.

2. I also forward two lists of articles received from England for the Kistna Eastern division, now ready for issue. Indents for issuing these have been forwarded to the Executive Engineer by the General Superintendent for signature.

ORDER—dated 27th September 1888, No. 3040 W., Public Works.

The local purchase of such of the articles entered in Mr. Hannan's list as are not available in the Public Works Stores is sanctioned.

2. Before proposing the purchase in the local market of stores of European manufacture, Superintending Engineers should satisfy themselves that the articles are not available in the Public Works Stores.

(True Extract.)

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

To the Superintending Engineer, II Circle, with one list.

V Circle, with two lists.

" Examiner, Public Works Accounts, with list of stores to be purchased locally.
To other Superintending Engineers.

To other Superintending Engineers.

„ the Consulting Architect to Government.

Exd. J. Henrious.
Spare Copies.

GENERAL.
ACCOUNT.

Gobt. of 1888 Madras.
PUBLIC WORKS.

Dated September, 27th.

Recd.

Encl.

G.O., 27th Sept. 1888, No. 3040 W.

SEPTEMBER.

Stores

Purchase of certain — for the II Circle during the quarter ending 30th September 1888, sanctioned; and Superintending Engineers directed to satisfy themselves that before proposing the purchase of stores that such articles are not available in the Public Works Stores.

2ND JUNE 1888, No. 314 L, PUBLIC WORKS.

3040
3

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following letter from J. HANNAN, Esq., Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, dated Bezvada, 28th April 1888, No. 245 K.S. :—

I have the honor to submit a complete revised estimate for the Ellore canal, amounting to Rs. 2,15,766, which shows a saving on the original estimate of Rs. 39,633.

2. The individual estimates for this canal were revised by the late Executive Engineer Mr. Grant, with the exception of the estimates for the Tammileru aqueduct and the Chattaparru outlet, which were revised by me in accordance with your verbal instructions on your recent inspection. I have also revised (third revision) the estimate for the Madepalli channel, and in the accompanying report will, I trust, be found all the necessary information regarding it and all the other works for which estimates are submitted.

3. This report is enclosed as also a list of plans and documents sent in a separate parcel.

4. I trust that you will be able to recommend the estimate for sanction, as we are badly in want of sanctioned estimates in the Kistna Eastern Division to enable us to work out our grants.

ENCLOSURES.

REPORT to accompany revised estimate for the Ellore canal.

In para. 48 of his Note, printed with G.O. No. 3528, of 22nd December 1876, the Chief Engineer for Irrigation laid down the principles on which the improvements to the Ellore canal should be carried out and his instructions were followed by Captain Campbell in preparing the estimate. But as it was found out subsequently that the levels on which the estimate was based were utterly wrong, his proposals could not be carried out. Another revised estimate was subsequently framed by Mr. Grant, Executive Engineer, based on correct levels, and differing altogether from the former both as regards bed and surface fall and especially in the provision it made for lowering the canal between the Tammileru aqueduct and the Ellore canal with a view to obviating the flooding of the town of Ellore. This estimate was never submitted, as it was found (vide correspondence marginally quoted) that it was unnecessary to lower the canal.

- 1 Demi-official letter from Mr. Grant, dated 15th March 1888.
- 1 Demi-official letter from Colonel Morant, to the Chief Engineer, dated 22nd March 1886.
- 1 Demi-official letter from Colonel Hasted, dated 3rd April 1886.
- 1 Letter No. 890 K.S., of 31st August 1887, para 9, from Mr. Randall to the Chief Engineer for Irrigation.

2. The estimate now submitted has been prepared in accordance with instructions given in paras. 15 to 18 of Chief Engineer for Irrigation's Inspection Notes for February 1888, and which is practically reverting to the original proposals.

3. The bed and surface fall now allowed for the canal is that fixed by Mr. Grant, and is shown on the accompanying longitudinal section. The depth of water in canal at F.S.L. at its head will be 8 feet; it will have a bed and surface fall from head to the new Kasarapalli aqueduct at 10th mile of 0.152 feet per mile, the floor of aqueduct and bed level coinciding at this point. From here to Ellore lock the surface fall will be the same, but the bed fall will be reduced to 0.077 or nearly 1 inch per mile. Further on, I will show how this bed level accommodates itself to the sills of the different masonry works. The longitudinal section shows that it practically coincides with the existing bed level, so that no deepening is necessary or provided for. In para. 48 of Chief Engineer for Irrigation's Note quoted, he laid it down that the minimum width of water surface in the interests of navigation was to be, except at masonry works, 60 feet. The accompanying table of discharges gives the bottom widths required for the purposes of irrigation, and it will be seen that they also comply with the condition as regards navigation. The existing bottom widths correspond to within a foot or two of the widths tabulated, so that no widening is required, or allowed for, in the estimate. Banks require to be raised and brought to proper section in places. The berms also require to be raised so as to confine the water-way to its proper section, but this is now being done from the annual clearances, and no provision is necessary, or has been made for this work in the estimate.

4. The total amount of the estimate now submitted comes to Rs. 2,17,367, showing a saving on the sanctioned estimate of Rs. 38,032. The saving is on earth-work for which a sum of Rs. (26,870 + 29,640) = 56,510 was allowed in the original, but which has now been struck out, as it is not required.

5. The different masonry works to be modified and improved and adapted to requirements will now be noticed. The mileages given for the works are delta mileages, 50 chains will have to be deducted to get canal mileage as given on longitudinal section.

The Budemeru aqueduct (7 miles 60 chains).—An old work in good order, only requires coping and iron rails. This has been provided for. Level of its floor is 38.10, the bed level of canal being 38.32.

Kasarapalli aqueduct (10 miles 75 chains).—A new work. Completed. Nothing required. Floor and canal bed levels coincide.

Buddeveram outlet (15 miles 60 chains); *Aulakur outlet* (19 miles 10 chains).—The floor of the former is at 56.66 against canal bed = 37.49 a difference of slight importance. The present body walls are to be demolished to floor level, and the works are to be modified and adapted to screw-shutters as shown in plan No. 5. The floor of the latter is 36.76 and the canal bed 37.23.

Pottipaud outlet (20 miles 17½ chains).—This will be fitted with screw-shutters as shown in plan No. 6. Sill level = 37.91 against canal bed = 37.14. Note remark in red on plan.

Veeravalli inlet (22 miles 58 chains).—Has its crest now at 41.30, which will have to be raised to F.S.L. = 44.30 (see plan No. 7).

Narasannapalem outlet (24 miles 60 chains).—Body wall will be demolished, and it will be fitted with screw-shutters, see plan No. 10 and remark thereon in red ink. Floor of outlet is 37.56; canal bed 36.80.

Outlet and inlet at 26 miles 10 chains.—Will be improved (see plans Nos. 11 and 7).

Outlet (27 miles 69 chains).—The crest of this has to be raised from 41.37 to 43.25 F.S.L. (see plan No. 12).

Peddapad outlet (32 miles 29 chains).—The present crest is 41.09. It will be raised to F.S.L. at 42.58. As this was the last escape above the proposed new lock, Mr. Grant proposed to have calingula posts and shutters and use it for surplusing water after the irrigation which would have to be got rid of above new lock. This is not now necessary, and crest will be raised permanently to F.S.L. The original amount of estimate has been allowed to stand.

West Tummiteru aqueduct (37 miles and 40 chains).—See plans Nos. 13, 13-A, 13-B. The modifications to this work have been designed and estimated in accordance with Chief Engineer for Irrigation's instructions in para. 17 of his Inspection Notes for February last. The lower side wall of aqueduct is to be demolished as well as the present tow-path arches. The piers of aqueduct are to be extended and new arches turned on their springing from maximum recorded F.L. The under vents of aqueduct will be closed up on lower side by a wall built up to floor level of aqueduct, the crest of which will form the sill for shutters which will now constitute the side wall of aqueduct. There are 12 vents of 16 feet; each vent is divided in two by an upright double groove iron standard in which the shutters will slide, as on consideration it was thought that this would be a better arrangement than having shutters 16 feet long, as suggested by Chief Engineer for Irrigation in his Notes, as if made like ordinary shutters, they would be very heavy and clumsy, and if trussed, a horizontal platform of wrought iron girders or beams would have to be substituted for the present arches, which would be more expensive and no particular advantage would be gained as the diminution of the water-way by the iron standards 6" x 5" is practically unimportant. These standards will be firmly bedded below in masonry of wall, and

above in the masonry of arch, and will have vertical plates riveted on to their ends to take and distribute the pressure on the masonry.

A detailed plan of the shutter is forwarded for approval. The clip plates are all in one piece. The design of nut and clip plate is the same as those used on the Ryves's canal head sluice, and which were approved of by Chief Engineer for Irrigation on his recent inspection. The upstream side wall of aqueduct is to be lowered 1.5 feet in accordance with Chief Engineer for Irrigation's instructions.

Chattaparru outlet at 40 miles 20 chains.—See plans Nos. 14, 14-A. In para. 19 of his Notes the Chief Engineer for Irrigation says, "That the alterations of this work for which Rs. 7,230 were provided for in the completion estimates should be begun." It is thought that this is a mistake, as it is at variance with the decision come to on the spot, namely, that 10 or 12 vents fitted with screw-shutters were to be constructed with their sills at canal bed level, and that the crest of the weir was to be left as a flush escape. The crest of that portion now occupied by the self-acting shutters is to be raised to F.S.L., and shutters removed, if, after further trial and removing counter-weights, they were not found to act, and that the whole work was to have a foot bridge over it; a plan and estimate was accordingly prepared on these instructions.

Captain Campbell's proposal and design as sanctioned was to convert the whole weir, which is 250 feet long, into a series of sluices, and his design could not be carried out in any case, as his levels are 2½ feet wrong. The present Chattaparru escape consists of two distinct works. The old flush escape with a wooden foot bridge, and the comparatively new weir consisting of four bays of 48 spanned with self-acting shutters.

The design and estimate now submitted provides for converting them into one continuous weir with crest at F.S.L. with a set of 11 shutters 7.5 feet wide and 5.5 feet high in the centre and with a foot bridge over the entire work. The old wooden platform bridge with its piers, not being in line, it could not be worked in, and as it would mar the appearance of the whole work, it is to be demolished, as rebuilding is only a matter of some 500 or 600 rupees. As regards the self-acting shutters. Their balance levers (the Chief Engineer for Irrigation knows the design) are connected with a flat iron bar 6" x 1", and it is believed that it is this bar which getting covered with silt anchors them down and prevents them from acting. This bar has now been taken off one of the shutters, and one 2" x 1" substituted. If the shutters are got to act, it will not be necessary to alter the design now submitted. If they do not act, it may be found necessary instead of raising crest to F.S.L., to increase the number of screw-shutter openings. The design will admit of this. As the foot bridge does not in any way interfere with them, being built below the crest wall on which they act.

6. A lump sum provision has been made for tow-paths to iron girder bridge at Ellore.

7. All the works on the canal to be modified and improved, and for which provision has been duly made, have now been noted. In addition to these there are the following inlets to be constructed, and for which provision is also made:—

					RS.
At 22 miles 70 chains one 1,000 feet long, estimate	...	...	...	...	1,900
" 15 " 60 " 450 " " " " " " "	...	...	...	...	800
" 27 " 69 " 250 " " " " " " "	...	...	...	...	530
" 30 " 50 " 150 " " " " " " "	...	...	...	...	345
" 31 " 0 " 500 " " " " " " "	...	...	...	...	1,065
" 32 " 29 " 72 " " " " " " "	...	...	...	...	190
" 32 " 30 " 300 " " " " " " "	...	...	...	...	660
" 34 " 40 " 300 " " " " " " "	...	...	...	...	675

All these inlets are to consist of simply an apron 9 feet wide 1 foot 6 inches thick resting on 6 inches of gravel built at F.S.L., in accordance with plan No. 8.

The following outlets are to be built:—

					RS.
One at 22 miles 70 chains 1,100 feet long, estimate	...	...	...	...	4,800
" at 30 " 50 " 960 " " " " " " "	...	...	...	...	4,438
" at 31 " 0 " 500 " " " " " " "	...	...	...	...	2,395
" at 32 " 30 " 500 " " " " " " "	...	...	...	...	2,410
" at 34 " 40 " 500 " " " " " " "	...	...	...	...	2,455

These are to be constructed in accordance with plan No. 9.

At 12 miles 60 chains a tunnel is allowed to pass local drainage.

8. A sketch showing the different catchment basins draining into the canal is forwarded, as also detailed and abstract statements showing the discharges from these basins, the points at which they will cross the canal and the provision made for crossing them. The discharges from the catchment basins have been calculated by the formula $D = 450 M^2$. The principal catchment basin is the Budemeru, having an area of 450 square miles requiring a discharge of 30,000 cubic feet a minute. Most of this is provided for by cutting down the banks for the whole of the 7th mile to berm level. The accompanying statements give all the necessary information as to the disposal of the drainage.

9. The following estimates for minor drains in connection with the canal have been revised:—

B. Land.					Original.	Revised.
					Rs.	Rs.
Nakkalam drain	...	...	...	...	120	160
Kesarapalli "	...	...	...	...	710	308
Ampapuram "	...	...	...	...	50	80
Veeravalli "	...	...	...	...	300	90
Narasanapalem drain	...	...	...	...	...	50
Totagudem "	...	...	...	...	1,480	100
Peddapad "	...	...	...	...	...	80
East Tammileru flood bank	...	...	...	...	...	...

L. Earth-work.

Nakkalam drain	...	...	...	...	670	425
Ampapuram	...	...	...	...	1,800	3,187
Veeravalli	...	...	...	...	350	1,896
Narasanapalem	...	...	...	...	1,875	856
Totagudem	...	...	...	...	...	535
Peddapad	...	...	...	...	6,780	2,020

and call for no remark.

10. The estimate for the Madepalli channel, a distributary from the Ellore canal at 39 miles 11 chains, was sanctioned in G.O. No. 644 I, of 18th September 1886, as it took off below the proposed new lock the head sluice was designed to suit the proposed arrangement; but now that those arrangements have been abandoned, a revised design for a head sluice had to be made and opportunity was taken to revise the bed falls of the channel, so as to give a velocity of 2 feet per second. The whole estimate has accordingly been revised, but the sanctioned line adhered to. The amount of the estimate is the same, but an additional under-tunnel has been allowed at 3 furlongs 150 feet from head. By the proposed lowering of the Ellore canal, 26 acres of land at the head of this channel, at present irrigated, would have been thrown out of cultivation. This is now obviated. As there have been numerous petitions against this channel, all the plans in connection with it are herewith forwarded. One sketch-map and one large tracing show the different lines of channels which have been proposed and equally objected to, and on no sufficient or reasonable grounds as far as can be seen. The line has been shifted from the west of the town to the east side at an extra cost of Rs. 10,000, but without giving any more satisfaction. The latter line, though so much shorter, is more expensive on account of heavy land compensation and heavy masonry works (please see comparative statement printed with G.O. No. 644 I, of 18th September 1886). A channel must be dug to irrigate the land between the east and west Tammileru and to meet the increasing demand for water towards the Collair, where new irrigation is being taken up and to put a stop to the present system of bunding up these two streams for the purposes of irrigation.

(Signed) J. HANNAN,
Superintending Engineer, II Circle.

28th April 1888.

Capital Expenditure on Public Works (not charged against Revenue).

49. Irrigation.
Kisna Delta System.
Eastern Section.
I. Works.
Ellore Canal.

COMPARATIVE STATEMENT showing the differences between original and revised estimates.

Main head.	Sub-head.	Miles and chains.	ORIGINAL ESTIMATE.			Miles and chains.	REVISED ESTIMATE.			Remarks.
			Items.	Amount.	Total for each sub-head.		Items.	Amount.	Total for each sub-head.	
(2) Main Canals and Distributaries.	F. River & Hill Torrent Works.	20-54 20-54	Ampapuram outlet inlet	Rs.	Rs.	15-00 15-03 19-10 20-17 22-52 22-70 22-70 24-60 24-60 25-10 26-10 27-09 27-09 30-50 30-50 31-00 31-00 32-19 32-29 32-30 32-30 34-40 34-40 37-10	1. Inlet constructing.	Rs. 500	Rs. 500	Estimate herewith.
				1,200	1,200		2. Badharu outlet improvements.	1,210	1,210	Do.
				1,497	1,497		3. Author do.	1,497	1,497	Do.
				400	400		4. Peddipad do.	400	400	Do.
				4,800	4,800		5. Inlet improvements	4,800	4,800	Do.
				1,900	1,900		6. Outlet constructing	1,900	1,900	Do.
				330	330		7. Inlet do.	330	330	Do.
				5,289	5,289		8. Inlet improvements	5,289	5,289	Do.
				310	310		9. Narasanapalem outlet improvements.	310	310	Do.
				715	715		10. Inlet improvements	715	715	Do.
				630	630		11. Outlet do.	630	630	Do.
				615	615		12. Inlet constructing.	615	615	Do.
				345	345		13. Outlet improvements.	345	345	Do.
				4,438	4,438		14. Inlet constructing.	4,438	4,438	Do.
				1,065	1,065		15. Outlet do.	1,065	1,065	Do.
				2,395	2,395		16. Inlet do.	2,395	2,395	Do.
				190	190		17. Outlet do.	190	190	Do.
				2,560	2,560		18. Inlet do.	2,560	2,560	Do.
				660	660		19. Peddipad outlet improvements.	660	660	Do.
				2,410	2,410		20. Inlet constructing.	2,410	2,410	Do.
				675	675		21. Outlet do.	675	675	Do.
				2,455	2,455		22. Inlet do.	2,455	2,455	Do.
				4,000	4,000		23. Outlet do.	4,000	4,000	Do.
				2,630	2,630		24. West Tammileru aqueduct alterations.	2,630	2,630	Do.
				840	840					Estimate herewith.

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(Signed) H. R. MEAD, Colonel, R.E.,
Chief Engineer for Irrigation.

$$\frac{3040}{6}$$

No. 82 I.

Submitted to Government.

2. As the comparative statement forwarded by the Superintending Engineer exhibits all completed works and items for which detailed estimates have already been sanctioned by Government, as well as those for which estimates have now been submitted, while lump sums entries are included for several works for which the arrangements have not yet been settled, a revised comparative statement prepared in this office is appended to this endorsement. This statement shows only the items for which the Superintending Engineer has now submitted detailed or revised estimates which are recommended for the sanction of Government.

3. A sum of Rs. 11,267 provided by the Superintending Engineer as a contribution to local funds towards the construction of a bridge over the Ellore canal at Bezvada has not been included in the revised statement, pending the receipt of the plans and estimates for the bridge called for in G.O. No. 203 I., dated 21st March 1888.

4. Against a sanctioned provision of Rs. 10,120 for "minor improvements to old masonry works," the Superintending Engineer forwarded an estimate amounting to only Rs. 2,000, and stated that the details of this provision cannot now be worked out. In the absence of any explanation to justify the reduction of the lump sum originally provided in the completion estimates, and as no lump sum amount need be re-sanctioned until the details of the work proposed to be done are available, the original provision has been left unaltered, pending the submission for sanction of a correct estimate when one can be prepared of the improvements to be carried out.

OOTACAMUND,
23rd May 1888.

(Signed) H. R. MEAD, Colonel, R.E.,
Chief Engineer for Irrigation.

To the Joint Secretary to Government,
Public Works Department, Irrigation Branch.

ORDER—dated 2nd June 1888, No. 314 I., Public Works.

The revised estimates, amounting to Rs. 90,856, for the works on the Ellore canal in the Kistna Eastern Delta, enumerated in the revised comparative statement appended to the foregoing endorsement of the Chief Engineer for Irrigation, are sanctioned in supersession of the previously sanctioned estimates amounting to Rs. 1,30,455, the saving of Rs. 39,699 effected by the present estimates being added to the balance of the amount reserved for unforeseen works which will then be increased to Rs. 2,49,916.

2. This sanction has been registered as No. 28 I. of 1888-89.

(True Extract.)

(Signed) H. R. MEAD, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, II Circle, with 97 enclosures.
" Examiner, Public Works Accounts, with 8 duplicate abstract estimates.
" Revenue Department.

Exd. F. R. Bantleman.
Specie Copies

3040
7

IRRIGATION.
ACCOUNT.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated June, 2nd.

Recd.

Encl.

G.O., 2nd June 1888, No. 314 L.

JUNE.

Ellore Canal

Revised estimates for certain works on
the — in the Kistna Eastern Delta, sanc-
tioned.

3040
3/8

No. 314 J 2-6-88
2060W-27-7-83

1888.

P. W. DEPARTMENT.

Current No. 8790

From

The Supt. Engineer
II Circle.

ENCLOS. - 1

No. 1328 K. S.

Dated 29th August 1888

Received 3rd Sept. 1888

SUBJECT.

Forw. for favor of obtaining
early sanction of Govt. a
statement of English stores
to be purchased in India
during the quarter ending
30th September 1888.

B 11/19

DISPOSAL.

No. 3347 C Dated 14th Sept. 1888

Referred to the
Supt. Engr. II Circle for
favour of early report
whether any of the articles
can be supplied from
the P.W. Stores.

(B.O.)

(sd) W.L.C.B.

B.E.W.

Superintending Engineer's Office
II Circle, Bangalore
29th August 1888.

From

J. Hannan Pogurro,
Superintending Engineer,
II Circle.

To

The Chief Engineer,
Public Works Department,
Madras.

Sir,

I have the honor to forward
herewith for your approval and sanction
of Government, a statement of stores manu-
factured in Europe, but to be purchased
in India during the quarter ending 30th
September 1888, and to state that the
greater portion of the iron stores required
are for the shutters, and shutter gearing
for irrigation, and surplus sluices on the
Kolleru Canal, the revised estimate for
which was lately sanctioned. As they
are urgently required, the favor of
obtaining

obtaining the early sanction of Govern-
ment is solicited.

I have the honor to be

Si

Your Most obed^t Servant

Harman

Superintending Engineer

W. C. C.

3040
10

Compd

1/27/1888
15-9-88
Peggs No. 558 W
6-9-88

P. W. Dept.
To be returned with
reply.

No. 3348 C 2/4 Sept. 1888

Referred to
the Suptg. Engineer
I circle for favour
of early report
whether any of the
articles can be
supplied from the
P.W. stores.

(By order)

W. B. Baddley
Capt R. & Co.
Dy. Chief Engineer P.W.D.

From,
The Suptg. Engineer,
2nd Circle.

To,
The Chief Engineer,
P.W.D.

Dated 29th August 1888.

No. 1328 Rd.

Enclos. 1.

English Stores. Statement
of— to be purchased in
India during the Quarter
ending 30th Sept. 1888,
for the Krishna Eastern D.
Forwards for favor of
obtaining early sanction of
Govt. a—

Referred

No. 2600

SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chepak, 18 September 1888.

From
Col. H. M. Vibart R. & Co.

3 P
3040

To
The Chief Engineer
P.W. Department.

SIR,

Enclosures.

In returning your enclose-
ment No. 3348 C dated 4 Sep-
tember 1888, I have the honor
to state that the articles
marked with blue pencil in
the statement of the Super-
intending Engineer Second
Circle, are available for imme-
diate issue. These have been
received from England for
the Krishna Eastern Division.
2. I also forward two lists
of

of articles received from
England for the Krishna
Eastern Division, now ready
for issue. Indents, for issuing
these, have been forwarded to
the Executive Engineer by the
General Superintendent for
signature.

I have the honor to be

Sir,

Your Most Obedt Servant

W. R. S. P. & Co. R. C.

Assty Engineer & Co. R. C.

No 3365C. 4.9.88
 4.6.312. 2.6.88
 No 2060W. 27.7.83

From P.W.C. No 9473
 THE SUPERINTENDING ENGINEER,
 V Circle,
 To The Chief Engineer
 P.W. Department.

Dated 18 September 1889.
 Recd. 20

ENCLOSURES. 4

No. 2600.

English Stores.

States that the items marked with blue pencil in the statement of the Supply Engineer & Circle are available for immediate issue.

From the S.S. II Circle No 1328K. 27.29.8.88
 " S.S. II " " 2600 27.18.9.88.

To the S.S. II Circle
 with list -
 " S.S. II Circle, with
 2 list
 - Surplus with list of stores
 to be purchased
 - Other Supply Engineer
 - CAO Gmt.

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 27 September

Read the following

1. The local purchase of much of the articles entered in Mr. Hauman's list, as are not available in the P.W. Stores, is sanctioned.

2. Before proposing the purchase in the local market of stores of European manufacture Supply Engineer should satisfy themselves that the articles are not available in the P.W. Stores.

Wm
 4.9.88
 C. J. 20/10/88

~~Wm~~

(1)

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14

15 May 19

219-887 2017
105 15:9
1000/10

Gobt. of (1888) Madras.

PUBLIC WORKS.

W. J. C.

Dated

Recd.

Encl.

G.O. 27 Sep 1888, No. 30400

Stores

Purchase of certain —
for the 20 miles during
the quarter ending 30 Sep/88,
sanctioned, and ~~attention~~
of Mr. J. J. J. directed to
satisfy themselves that
before proposing the pur-
chase of stores that such
articles are not available
in the M. Stores.

220

15

W. J. C.