GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following paper :—

From the Consulting Engineer for Railways, dated Madras, 5th April 1890, No. 243.

SCHEDULE of estimates sanctioned on the Madras Railway up to 28th February 1890.

MADRAS RAILWAY.

SCHEDULE of Works sanctioned or in progress up to 28th February 1890, under the authority of the Madras Government, prepared in accordance with para. 18 of P.W.D. Circular No. 42 of 1880—G.O., No. 22 R., dated 10th January 1881. Limit of cost of each work to be sanctioned by above authority, Rs. 25,000 (*vide* G.O., No. 4 R., dated 9th January 1889).

Register No.	Authority and Date.	Description of Work.	ESTIMATE.						Date of lapse of sanction.	REMARKS. It should be stated in this column whether in progress or completed.
			CAPITAL.			REVENUE.				
			Cash.	Stores.	Total.	Cash.	Stores.	Total.		
			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.		
1	C.E. No. 490, dated 26th July 1887.	Electric-starting semaphore signal interlocked with block instruments required for the trial stations opened during 1887-88.	1,312 0 0	3,424 0 0	4,736 0 0	..	..	..	25th July 1891.	In progress.
2	Do. do. ..	Electric-starting semaphore signal interlocked with block instruments required at stations on the Calicut extension.	492 0 0	1,284 0 0	1,776 0 0	..	..	..	31st Dec. 1889.	Completed.
3	Do. do. ..	Block instruments, stores, &c., required for fitting up trial stations opened during 1887-88.	1,288 0 0	1,480 0 0	2,768 0 0	..	..	..	25th July 1891.	In progress.
4	Do. do. ..	Instruments, stores, &c., required for opening telegraph offices at stations on the Calicut extension.	926 0 0	1,069 0 0	1,995 0 0	..	..	..	25th ,, 1889.	Completed.
5	C.E. No. 830, dated 29th November 1887.	Erecting posts, wires, &c., for electric-starting semaphore signal and bell circuits on the Calicut extension.	319 0 0	983 0 0	1,302 0 0	..	..	..	31st Dec. ,,	Do.
6	C.E. No. 881, dated 21st December 1887.	Electric-starting semaphore signals interlocked with block instruments for Pálghat station.	332 0 0	341 0 0	673 0 0	..	..	..	31st ,, ,,	Do.
7	Do. do. ..	Rail posts, wires, instruments, &c., required for opening telegraph offices, block and bell circuits on Pálghat extension.	635 0 0	1,429 0 0	2,064 0 0	..	..	..	31st ,, ,,	Do.
8	C.E. No. 587, dated 6th August 1888.	Extension of platform and through siding at Nagari.	1,034 0 0	1,603 0 0	2,637 0 0	589 0 0	464 0 0	1,053 0 0	30th Sept. ,,	Do.
9	C.E. No. 748, dated 21st September 1888.	Do. at Ráyalcheru station ..	..	..	..	687 8 0	403 8 0	1,091 0 0	31st Mar. ,,	Do.
10	C.E. No. 766, dated 24th September 1888.	Catch-siding at Kuppam	1,352 0 0	2,087 0 0	3,439 0 0	..	..	..	30th June 1890.	In progress.
11	G.O., No. 756 R., dated 15th September 1888.	Two guards' bungalows at Gooty (each at Rs. 5,088).	8,354 0 0	1,822 0 0	10,176 0 0	..	..	..	30th Sept. ,,	Completed.
12	C.E. No. 811, dated 6th October 1888.	Pointsmen's huts at Nancherla ..	..	..	..	701 0 0	404 0 0	1,105 0 0	30th June ,,	Do.
13	C.E. No. 812, dated 6th October 1888.	Station-master's house at Aspari ..	..	..	..	718 0 0	428 0 0	1,146 0 0	30th ,, ,,	Do.
14	C.E. No. 814, dated 6th October 1888.	Double house for the Station-master at Nandalúr.	..	..	..	1,316 0 0	442 0 0	1,758 0 0	30th ,, ,,	Do.
15	C.E. No. 25, dated 11th January 1889.	Opening direct telegraph communication on the Morse wire between Ráyapuram, Vyasarpady, Perambúr and Madras.	..	..	..	135 0 0	239 0 0	374 0 0	10th Jan. 1890.	Do.
16	C.E. No. 36, dated 11th January 1889.	Extension of platform, &c., at Singanallur.	..	..	..	1,253 0 0	315 0 0	1,568 0 0	30th Sept. 1889.	Do.
17	C.E. No. 100, dated 29th January 1889.	Cross-over road at Pódanúr	350 0 0	2,397 0 0	2,747 0 0	..	..	..	30th June ,,	Do.
18	G.O., No. 127 R., dated 1st February 1889.	Station-house, &c., at Ulli	3,630 0 0	4,307 0 0	7,937 0 0	..	..	..	31st Mar. 1890.	In progress.
19	G.O., No. 111 R., dated 1st February 1889.	Single needle instruments, &c., required for opening telegraph offices at trial and additional stations to meet the requirements of Traffic department.	4,122 0 0	3,588 0 0	7,710 0 0	..	..	..	31st ,, 1891.	Do.
20	C.E. No. 153, dated 18th February 1889.	Horse and carriage dock siding at Guntakal junction.	..	..	..	213 0 0	1,774 0 0	1,987 0 0	30th June 1889.	Completed.
21	G.O., No. 328 R., dated 25th March 1889.	A tiffin-room at Perambúr station ..	3,496 0 0	3,504 0 0	7,000 0 0	..	..	..	31st Mar. 1890.	In progress.
22	C.E. No. 355, dated 17th April 1889.	Locomotive Foreman's bungalow at Gooty.	..	..	..	3,333 0 0	1,939 0 0	5,272 0 0	30th June ,,	Do.
23	C.E. No. 406, dated 8th May 1889.	Weigh-bridge and alteration of cross-over road at Kolar road, Bangalore branch.	348 0 0	2,831 0 0	3,179 0 0	270 0 0	..	270 0 0	30th ,, ,,	Do.
24	G.O., No. 552 R., dated 15th May 1889.	Station-house, &c., at Vanganur ..	10,089 0 0	12,393 0 0	22,482 0 0	..	..	..	30th ,, ,,	Do.
25	C.E. No. 466, dated 28th May 1889.	A new saloon carriage in replacement of the one sold to His Highness Aga Khan.	2,530 0 0	4,250 0 0	6,780 0 0	..	..	..	14th April 1889.	Completed.
26	C.E. No. 514, dated 17th June 1889.	Native signaller's bungalow at Guntakal junction.	2,736 0 0	701 0 0	3,437 0 0	..	..	..	30th June 1890.	In progress.
27	C.E. No. 528, dated 20th June 1889.	Harness-maker's sewing machine and ten Ebrahardt's portable weighing machines.	..	..	..	..	2,525 0 0	2,525 0 0	31st July 1889.	Completed.
28	C.E. No. 595, dated 13th July 1889.	Raising the ground for loading purposes at Kolar road.	..	..	..	1,188 0 0	..	1,188 0 0	31st Mar. 1890.	In progress.
29	G.O., No. 800 R., dated 25th July 1889.	Through siding at Tyakal station ..	1,551 0 0	6,251 0 0	7,802 0 0	49 0 0	..	49 0 0	31st ,, ,,	Completed.
30	C.E. No. 643, dated 2nd August 1889.	Additional shelves for roof lamps at Raichur.	..	..	..	30 0 0	244 0 0	274 0 0	31st Dec 1889.	Do.
31	C.E. No. 661, dated 12th August 1889.	Verandah to the Assistant Traffic Manager's bungalow at Gooty.	..	..	..	709 0 0	353 0 0	1,062 0 0	31st Mar. 1890.	In progress.
32	C.E. No. 664, dated 12th August 1889.	Extension of a laterite siding at Ráyapuram.	..	..	..	300 0 0	1,342 0 0	1,642 0 0	31st Dec. 1889.	Completed.
33	C.E. No. 681, dated 17th August 1889.	Altering the old shed lately used by the Cash department at Salt Cotaurs.	..	..	..	404 0 0	600 0 0	1,004 0 0	31st ,, ,,	Do.
34	G.O., No. 1082 R., dated 8th October 1889.	Alterations and additions to locomotive sidings, &c., at Jalárpet.	1,268 0 0	6,974 0 0	8,242 0 0	3,793 0 0	349 0 0	4,142 0 0	31st ,, 1890.	In progress.
35	C.E. No. 851, dated 17th October 1889.	Fixing a crane capable of lifting five tons at Salem.	281 0 0	2,640 0 0	2,921 0 0	..	..	..	31st Mar. ,,	Do.
36	C.E. No. 857, dated 17th October 1889.	Pointsmen's and scavengers' huts and latrine at Mallapuram.	2,762 0 0	736 0 0	3,498 0 0	..	..	..	31st Dec. ,,	Do.
37	C.E. No. 858, dated 17th October 1889.	Lay-bye, loading bank and goods godown at Kupgal.	1,565 0 0	3,129 0 0	4,694 0 0	..	..	..	30th June ,,	Do.
38	G.O., No. 1146 R., dated 22nd October 1889.	Additional siding and cross-over road at Arkónam.	2,789 0 0	4,903 0 0	7,692 0 0	204 0 0	..	204 0 0	30th ,, ,,	Do.
39	G.O., No. 1155 R., dated 25th October 1889.	Proposed waiting sheds at Perambúr ..	1,610 0 0	5,668 0 0	7,278 0 0	..	..	..	31st Dec. 1890.	Do.

Schedule of Works sanctioned or in progress up to 28th February 1890, under the authority of the Madras Government, &c.—*cont.*

Register No.	Authority and Date.	Description of Work.	ESTIMATE. Capital. Cash.	Capital. Stores.	Capital. Total.	Revenue. Cash.	Revenue. Stores.	Revenue. Total.	Date of lapse of sanction.	Remarks. It should be stated in this column whether in progress or completed.
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
40	C.E. No. 936, dated 8th November 1889.	A tank-house on 15-feet arch bridge No. 242 near the Pennér bridge.	2,222 0 0	135 0 0	2,357 0 0	..	..	..	30th June 1890.	In progress.
41	C.E. No. 952, dated 13th November 1889.	Tank-house to be erected on 20-feet arch bridge No. 180 near the Chitrávati bridge.	..	..	..	2,331 0 0	127 0 0	2,458 0 0	30th ,, ,,	Do.
42	C.E. No. 968, dated 18th November 1889.	Workshop along the engine shed at Rénigunta.	507 0 0	884 0 0	1,391 0 0	..	..	..	30th ,, ,,	Do.
43	C.E. No. 983, dated 23rd November 1889.	Loading bank and goods godown at Somanur.	1,268 0 0	223 0 0	1,491 0 0	..	..	..	30th ,, ,,	Do.
44	C.E. No. 984, dated 23rd November 1889.	Goods godown at Madukarai	961 0 0	240 0 0	1,201 0 0	..	..	..	30th ,, ,,	Do.
45	C.E. No. 993, dated 28th November 1889.	Extension of through siding at Tirupatúr.	226 0 0	861 0 0	1,087 0 0	98 0 0	..	98 0 0	30th ,, ,,	Completed.
46	C.E. No. 994, dated 28th November 1889.	Extension of platform at Tudiyalur ..	797 0 0	778 0 0	1,575 0 0	44 0 0	..	44 0 0	30th ,, ,,	In progress.
47	C.E. No. 995, dated 28th November 1889.	Extension of platform at Kadiampatti ..	835 0 0	508 0 0	1,343 0 0	77 0 0	..	77 0 0	30th ,, ,,	Do.
48	C.E. No. 998, dated 29th November 1889.	Extension of through siding at Sholinghur.	807 0 0	1,930 0 0	2,737 0 0	16 0 0	..	16 0 0	30th ,, ,,	Do.
49	C.E. No. 999, dated 29th November 1889.	Extension of platform at Chinnammápet.	1,425 0 0	1,606 0 0	3,031 0 0	154 0 0	..	154 0 0	30th ,, ,,	Do.
50	G.O., No. 1330 R., dated 3rd December 1889.	Siding and cross-over road at Olavakód.	1,043 0 0	5,841 0 0	6,884 0 0	..	..	..	30th ,, ,,	Do.
51	C.E. No. 1027, dated 7th December 1889.	Auxiliary well of 20 feet diameter to be constructed at Bangalore.	..	..	..	1,102 0 0	332 0 0	1,434 0 0	30th ,, ,,	Do.
52	C.E. No. 1037, dated 11th December 1889.	Station-master's house at Urampad ..	911 0 0	267 0 0	1,178 0 0	..	..	..	30th ,, ,,	Do.
53	C.E. No. 1055, dated 13th December 1889.	Station-master's house at Reddipalli ..	911 0 0	267 0 0	1,178 0 0	..	..	..	30th ,, ,,	Do.
54	C.E. No. 1078, dated 20th December 1889.	Waiting shed at Gúdalúr on the Nílgiri branch.	1,076 0 0	193 0 0	1,269 0 0	..	..	..	30th ,, ,,	Do.
55	G.O., No. 1414 R., dated 20th December 1889.	Permanent station at Pennér	9,503 0 0	5,607 0 0	15,110 0 0	183 0 0	..	183 0 0	31st Dec. ,,	Do.
56	C.E. No. 1089, dated 21st December 1889.	Extension of the platform and through siding at Kamalapuram.	560 0 0	1,813 0 0	2,373 0 0	33 0 0	..	33 0 0	30th June ,,	Do.
57	C.E. No. 1090, dated 21st December 1889.	Extension of the platform and through siding at Kondapuram.	460 0 0	1,421 0 0	1,881 0 0	33 0 0	..	33 0 0	30th ,, ,,	Do.
58	C.E. No. 20, dated 10th January 1890.	Pointsmen's and scavengers' huts at Kadambatur.	1,287 0 0	353 0 0	1,640 0 0	..	..	..	30th Sept. ,,	Do.
59	C.E. No. 21, dated 10th January 1890.	Pointsmen's and scavengers' huts at Tadpatri.	2,937 0 0	611 0 0	3,548 0 0	..	..	..	31st Mar. 1891.	Do.
60	C.E. No. 26, dated 11th January 1890.	Erection of pandals to 8 bungalows at Rénigunta.	..	..	..	719 0 0	655 0 0	1,374 0 0	31st ,, 1890.	Do.
61	G.O., No. 33 R., dated 11th January 1890.	Alterations and additions to the station-house at Bangalore Cantonment.	10,307 0 0	9,021 0 0	19,328 0 0	958 0 0	..	958 0 0	30th June 1891.	Do.
62	C.E. No. 70, dated 23rd January 1890.	Proposed lay-bye and crane at Tirúr ...	861 0 0	2,634 0 0	3,495 0 0	..	..	..	30th Sept. 1890.	Do.
63	C.E. No. 71, dated 23rd January 1890.	A house for the Station-master and Assistant Station-master at McDonald's Choultry.	1,224 0 0	499 0 0	1,723 0 0	..	..	..	30th ,, ,,	Do.
64	C.E. No. 72, dated 23rd January 1890.	A house for the Station-master and the Assistant Station-master at Uttukuli.	1,230 0 0	499 0 0	1,729 0 0	..	..	..	30th ,, ,,	Do.
65	C.E. No. 73, dated 24th January 1890.	Fixing lightning conductors to the buildings at Calicut.	349 0 0	755 0 0	1,104 0 0	..	..	..	31st Mar. 1891.	Not commenced.
66	C.E. No. 75, dated 24th January 1890.	Six temporary huts at Jalárpet for the accommodation of patients infected with small-pox.	..	..	..	163 3 0	132 0 0	295 3 0	30th June 1890.	Completed.
67	C.E. No. 83, dated 29th January 1890.	Converting the salt godown at Bangalore into a running guards' bungalow.	1,387 0 0	887 0 0	2,274 0 0	62 0 0	..	62 0 0	30th Sept. ,,	In abeyance.
68	C.E. No. 90, dated 31st January 1890.	Pandal for a Telegraph Inspector's bungalow at Gooty.	..	..	..	87 0 0	81 0 0	168 0 0	31st Mar. ,,	In progress.
69	Do. do. ..	Pandal for a double engine-driver's bungalow at Gooty.	..	..	..	114 0 0	104 0 0	218 0 0	31st ,, ,,	Do.
70	Do. do. ..	Pandal for a married guard's bungalow at Gooty.	..	..	..	114 0 0	104 0 0	218 0 0	31st ,, ,,	Do.
71	Do. do. ..	Pandal for a fireman's bungalow at Gooty.	..	..	..	206 0 0	166 0 0	372 0 0	31st ,, ,,	Do.
72	Do. do. ..	Pandal for two guards' bungalow at Gooty.	..	..	..	458 0 0	368 0 0	826 0 0	31st ,, ,,	Do.
73	C.E. No. 102, dated 4th February 1890.	Extension of trimming shop in carriage shop at Perambúr Works.	129 0 0	1,107 0 0	1,236 0 0	11 0 0	..	11 0 0	30th Sept. ,,	Not commenced.
74	C.E. No. 104, dated 4th February 1890.	Cross-over road at Kolar road	116 0 0	1,551 0 0	1,667 0 0	..	..	..	30th ,, ,,	In progress.
75	C.E. No. 125, dated 11th February 1890.	Emergent stock-shed at Gooty	988 0 0	1,336 0 0	2,324 0 0	..	..	..	30th June ,,	Completed.
76	G.O., No. 215 R., dated 11th February 1890.	Through siding at Viziamangalam ..	3,204 0 0	7,508 0 0	10,712 0 0	..	..	..	30th Sept. ,,	In progress.
77	G.O., No. 216 R., dated 11th February 1890.	Station-house, &c., at Pallipuram ..	6,072 0 0	7,218 0 0	13,290 0 0	..	..	..	31st Mar. 1891.	Not commenced.
78	C.E., No. 167, dated 20th February 1890.	Proposed alterations and additions to station-house at Kolar road.	2,912 0 0	653 0 0	3,565 0 0	55 0 0	..	55 0 0	30th Sept. 1890.	Do.
79	C.E. No. 170, dated 20th February 1890.	Guard's bungalow for two families at Arkónam.	2,932 0 0	1,615 0 0	4,547 0 0	..	..	..	31st Mar. 1891.	Do.
80	C.E. No. 187, dated 27th February 1890.	A 3 ton crane at Mangalam	433 0 0	1,380 0 0	1,813 0 0	..	..	..	30th June 1890.	Completed.
81	C.E. No. 189, dated 27th February 1890.	Guard's bungalow for two families at Pódanúr.	3,018 0 0	1,145 0 0	4,163 0 0	..	..	..	31st Mar. 1891.	Not commenced.
		Total amount of sanctions granted up to date.	1,15,069 0 0	1,41,140 0 0	2,59,209 0 0	22,910 0 0	13,890 8 0	36,801 2 0		

	Rs.
Budget grant of the year for Capital works	7,82,500
Total sanctions against the budget grant	6,59,795
Balance available for future sanctions ..	1,22,705

MADRAS,
5th April 1890.

(Signed) SIDNEY SMITH, Major, R.E.,
Dy. Consulting Engineer for Railways.

Submitted to Government for transmission to the Director-General of Railways.

Order—dated 14th April 1890, No. 513 R., Public Works.

Ordered to be forwarded to the Director-General of Railways.

(Here enter No. 514 R., dated 14th April 1890.)

(True Extract.)

(Signed) SIDNEY SMITH, Major, R.E.,
Under-Secy. to Govt., P.W.D.,
Railway Branch.

To the Consulting Engineer for Railways.
" Examiner, Guaranteed Railway Accounts.

Endorsement—dated 14th April 1890, No. 514 R., Public Works.

Forwarded.

(By Order.)

Major, R.E.,
Under-Secy. to Govt., P.W.D.,
Railway Branch.

Exd. T. Peters
Spare Copies

RAILWAY.

Govt. of {1890} Madras

PUBLIC WORKS.

Dated April, 14th.

Recd. *Encl.*

G.O., 14th Apr. 1890, Nos. 513, 514 R.

APRIL.

Schedule of Estimates sanctioned on the Madras Railway

Forwarding the — up to 28th February 1890.

MADRAS RAILWAY.

SCHEDULE of Works sanctioned or in progress up to ~~31st January~~ 28th February 1890, under the authority of the Madras Government, prepared in accordance with para. 13 of P.W.D. Circular No. 42 of 1880—G.O., No. 22 R., dated 10th January 1881. Limit of cost of each work to be sanctioned by above authority, Rs. 25,000 (*vide* G O., No. 4 R., dated 9th January 1889).

Register No.	Authority and Date.	Description of Work.	ESTIMATE. Capital. Cash.	Capital. Stores.	Capital. Total.	Revenue. Cash.	Revenue. Stores.	Revenue. Total.	Date of lapse of sanction.	Remarks. It should be stated in this column whether in progress or completed.
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
1	C.E. No. 490, dated 26th July 1887.	Electric-starting semaphore signal interlocked with block instruments required for the trial stations opened during 1887-88.	1,312 0 0	3,424 0 0	4,736 0 0	..	..	..	25th July 1891.	In progress.
2	Do. do. ..	Electric-starting semaphore signal interlocked with block instruments required at stations on the Calicut extension.	492 0 0	1,284 0 0	1,776 0 0	..	..	..	31st Dec. 1889.	Completed.
3	Do. do. ..	Block instruments, stores, &c., required for fitting up trial stations opened during 1887-88.	1,288 0 0	1,480 0 0	2,768 0 0	..	..	..	25th July 1891.	In progress.
4	Do. do. ..	Instruments, stores, &c., required for opening telegraph offices at stations on the Calicut extension.	926 0 0	1,069 0 0	1,995 0 0	..	..	..	25th ,, 1889.	Completed.
5	C.E. No. 830, dated 29th November 1887.	Erecting posts, wires, &c., for electric-starting semaphore signal and bell circuits on the Calicut extension.	319 0 0	983 0 0	1,302 0 0	..	..	..	31st Dec. ,,	Do.
6	C.E. No. 881, dated 21st December 1887.	Electric-starting semaphore signals interlocked with block instruments for Pálghat station.	332 0 0	341 0 0	673 0 0	..	..	..	31st ,, ,,	Do.
7	Do. do. ..	Rail posts, wires, instruments, &c., required for opening telegraph offices, block and bell circuits on Pálghat extension.	635 0 0	1,429 0 0	2,064 0 0	..	..	..	31st ,, ,,	Do.
8	C.E. No. 587, dated 6th August 1888.	Extension of platform and through siding at Nagari.	1,034 0 0	1,603 0 0	2,637 0 0	589 0 0	464 0 0	1,053 0 0	30th ,, ,,	Do.
9	C.E. No. 748, dated 21st September 1888.	Do. at Ráyalcheru station ..	..	..	..	687 8 0	403 8 0	1,091 0 0	31st Mar. ,,	Do.
10	C.E. No. 766, dated 24th September 1888.	Catch-siding at Kuppam	1,352 0 0	2,087 0 0	3,439 0 0	..	..	..	~~31st Dec.~~ 30th June 1890	In progress.
11	G.O., No. 756 R., dated 15th September 1888.	Two guards' bungalows at Gooty (each at Rs. 5,088).	8,354 0 0	1,822 0 0	10,176 0 0	..	..	..	30th Sept. ,,	Completed.
12	C.E. No. 811, dated 6th October 1888.	Pointsmen's huts at Nancherla ..	..	..	..	701 0 0	404 0 0	1,105 0 0	30th June ,,	Do.
13	C.E. No. 812, dated 6th October 1888.	Stationmaster's house at Aspari ..	..	..	..	718 0 0	428 0 0	1,146 0 0	30th ,, ,,	Do.
14	C.E. No. 814, dated 6th October 1888.	Double house for the Stationmaster at Nandalúr.	..	..	..	1,316 0 0	442 0 0	1,758 0 0	30th ,, ,,	Do.
15	C.E. No. 25, dated 11th January 1889.	Opening direct telegraph communication on the Morse wire between Ráyapuram, Vyasarpady, Perambúr and Madras.	..	..	..	135 0 0	239 0 0	374 0 0	10th Jan. 1890.	Do.
16	C.E. No. 36, dated 11th January 1889.	Extension of platform, &c., at Singanallur.	..	..	..	1,253 0 0	315 0 0	1,568 0 0	30th Sept. 1889.	Do.
17	C.E. No. 100, dated 29th January 1889.	Cross-over road at Pódanúr	350 0 0	2,397 0 0	2,747 0 0	..	..	..	30th June ,,	Do.
18	G.O., No. 127 R., dated 1st February 1889.	Station-house, &c., at Ulli	3,630 0 0	4,307 0 0	7,937 0 0	..	..	..	31st Mar. 1890.	In progress.
19	G.O., No. 111 R., dated 1st February 1889.	Single needle instruments, &c., required for opening telegraph offices at trial and additional stations to meet the requirements of Traffic department.	4,122 0 0	3,588 0 0	7,710 0 0	..	..	..	31st ,, 1891.	Do.
20	C.E. No. 153, dated 18th February 1889.	Horse and carriage dock siding at Guntakal junction.	..	..	..	213 0 0	1,774 0 0	1,987 0 0	30th June 1889.	Completed.
21	G.O., No. 328 R., dated 25th March 1889.	A tiffin-room at Perambúr station ..	3,496 0 0	3,504 0 0	7,000 0 0	..	..	..	31st Mar. 1890.	In progress.
22	C.E. No. 355, dated 17th April 1889.	Locomotive Foreman's bungalow at Gooty.	..	..	..	3,333 0 0	1,939 0 0	5,272 0 0	30th June ,,	Do.
23	C.E. No. 406, dated 8th May 1889.	Weigh-bridge and alteration of cross-over road at Kolar road, Bangalore branch.	348 0 0	2,831 0 0	3,179 0 0	270 0 0	..	270 0 0	30th ,, ,,	~~In abeyance.~~ – do –
24	G.O., No. 552 R., dated 15th May 1889.	Station-house, &c., at Vanganur ..	10,089 0 0	12,393 0 0	22,482 0 0	..	..	..	30th ,, ,,	~~In progress.~~ – do –
25	C.E. No. 466, dated 28th May 1889.	A new saloon carriage in replacement of the one sold to His Highness Aga Khan.	2,530 0 0	4,250 0 0	6,780 0 0	..	..	..	14th April 1889.	Completed.
26	C.E. No. 514, dated 17th June 1889.	Native signaller's bungalow at Guntakal junction.	2,736 0 0	701 0 0	3,437 0 0	..	..	..	30th June 1890.	In progress.
27	C.E. No. 528, dated 20th June 1889.	Harness-maker's sewing machine and ten Ebrahardt's portable weighing-machines.	..	..	..	..	2,525 0 0	2,525 0 0	31st July 1889.	Completed.
28	C.E. No. 595, dated 13th July 1889.	Raising the ground for loading purposes at Kolar road.	..	..	..	1,188 0 0	..	1,188 0 0	31st Mar. 1890.	In progress.
~~29~~	~~C.E. No. 625, dated 26th July 1889.~~	~~An emergency stock shed at Gooty~~ ..	..	..	..	~~920 0 0~~	~~974 0 0~~	~~1,894 0 0~~	~~31st ,, ,,~~	~~Do.~~
29	G.O., No. 800 R., dated 25th July 1889.	Through siding at Tyakal station ..	1,551 0 0	6,251 0 0	7,802 0 0	49 0 0	..	49 0 0	31st ,, ,,	Completed.
30	C.E. No. 643, dated 2nd August 1889.	Additional shelves for roof lamps at Raichur.	..	..	..	30 0 0	244 0 0	274 0 0	31st Dec 1889.	Do.
31	C.E. No. 661, dated 12th August 1889.	Verandah to the Assistant Traffic Manager's bungalow at Gooty.	..	..	..	709 0 0	353 0 0	1,062 0 0	31st Mar. 1890.	In progress.
32	C.E. No. 664, dated 12th August 1889.	Extension of a laterite siding at Ráyapuram.	..	..	..	300 0 0	1,342 0 0	1,642 0 0	31st Dec. 1889.	Completed.
33	C.E. No. 681, dated 17th August 1889.	Altering the old shed lately used by the Cash department at Salt Cotaurs.	..	..	..	404 0 0	600 0 0	1,004 0 0	31st ,, ,,	Do.
34	G.O., No. 1082 R., dated 8th October 1889.	Alterations and additions to locomotive sidings, &c., at Jalárpet.	1,268 0 0	6,974 0 0	8,242 0 0	3,793 0 0	349 0 0	4,142 0 0	31st ,, 1890.	In progress.
35	C.E. No. 851, dated 17th October 1889.	Fixing a crane capable of lifting five tons at Salem.	281 0 0	2,640 0 0	2,921 0 0	..	..	..	31st Mar. ,,	Do.
36	C.E. No. 857, dated 17th October 1889.	Pointsmen's and scavengers' huts and latrine at Mallapuram.	2,762 0 0	736 0 0	3,498 0 0	..	..	..	31st Dec. ,,	Do.
37	C.E. No. 858, dated 17th October 1889.	Lay-bye, loading bank and goods godown at Kupgal.	1,565 0 0	3,129 0 0	4,694 0 0	..	..	..	30th June ,,	Do.
38	G.O., No. 1146 R., dated 22nd October 1889.	Additional siding and cross-over road at Arkónam.	2,789 0 0	4,903 0 0	7,692 0 0	204 0 0	..	204 0 0	30th ,, ,,	Do.

Schedule of Works sanctioned or in progress up to ~~31st January~~ 28th February 1890, under the authority of the Madras Government, &c.—*cont.*

Register No.	Authority and Date.	Description of Work.	ESTIMATE. Capital. Cash.	Capital. Stores.	Capital. Total.	Revenue. Cash.	Revenue. Stores.	Revenue. Total.	Date of lapse of sanction.	Remarks. It should be stated in this column whether in progress or completed.
			Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.		
39 40	G.O., No. 1155 R., dated 25th October 1889.	Proposed waiting sheds at Perambûr ..	1,610 0 0	5,668 0 0	7,278 0 0	..	..	..	31st Dec. 1890.	In progress.
40 41	C.E. No. 936, dated 8th November 1889.	A tank-house on 15-feet arch bridge No. 242 near the Pennér bridge.	2,222 0 0	135 0 0	2,357 0 0	..	..	..	30th June ,,	Do.
41 42	C.E. No. 952, dated 13th November 1889.	Tank-house to be erected on 20-feet arch bridge No. 180 near the Chitrávati bridge.	..	..	..	2,331 0 0	127 0 0	2,458 0 0	30th ,, ,,	Do.
42 43	C.E. No. 968, dated 18th November 1889.	Workshop along the engine shed at Rénigunta.	507 0 0	884 0 0	1,391 0 0	..	..	..	30th ,, ,,	Do.
43 44	C.E. No. 983, dated 23rd November 1889.	Loading bank and goods godown at Somanur.	1,268 0 0	223 0 0	1,491 0 0	..	..	..	30th ,, ,,	Do.
44 45	C.E. No. 984, dated 23rd November 1889.	Goods godown at Madukarai	961 0 0	240 0 0	1,201 0 0	..	..	..	30th ,, ,,	Do.
45 46	C.E. No. 993, dated 28th November 1889.	Extension of through siding at Tirupattúr.	326 0 0	831 0 0	1,057 0 0	95 0 0	..	95 0 0	30th ,, ,,	~~In progress~~ Completed
46 47	C.E. No. 994, dated 28th November 1889.	Extension of platform at Tudiyalúr ..	797 0 0	778 0 0	1,575 0 0	44 0 0	..	44 0 0	30th ,, ,,	~~In progress~~ Completed
47 48	C.E. No. 995, dated 28th November 1889.	Extension of platform at Kadiampalli ..	835 0 0	508 0 0	1,343 0 0	77 0 0	..	77 0 0	30th ,, ,,	Do.
48 49	C.E. No. 998, dated 29th November 1889.	Extension of through siding at Sholinghur.	897 0 0	1,930 0 0	2,737 0 0	16 0 0	..	16 0 0	30th ,, ,,	Do.
49 50	C.E. No. 999, dated 29th November 1889.	Extension of platform at Chinnammápet.	1,425 0 0	1,606 0 0	3,031 0 0	154 0 0	..	154 0 0	30th ,, ,,	Do.
50 51	G.O., No. 1330 R., dated 3rd December 1889.	Siding and cross-over road at Olavakód	1,043 0 0	5,841 0 0	6,884 0 0	..	..	..	30th ,, ,,	Do.
51 52	C.E. No. 1027, dated 7th December 1889.	Auxiliary well of 20 feet diameter to be constructed at Bangalore.	..	..	..	1,102 0 0	332 0 0	1,434 0 0	30th ,, ,,	Do.
52 53	C.E. No. 1037, dated 11th December 1889.	Stationmaster's house at Urampad ..	911 0 0	267 0 0	1,178 0 0	..	..	..	30th ,, ,,	Do.
53 54	C.E. No. 1055, dated 13th December 1889.	Stationmaster's house at Reddipalli ..	911 0 0	267 0 0	1,178 0 0	..	..	..	30th ,, ,,	Do.
54 55	C.E. No. 1078, dated 20th December 1889.	Waiting shed at Gúdalúr on the Nílgiri branch.	1,076 0 0	193 0 0	1,269 0 0	..	..	..	30th ,, ,,	Do.
55 56	G.O., No. 1414 R., dated 20th December 1889.	Permanent station at Pennér	9,503 0 0	5,607 0 0	15,110 0 0	183 0 0	..	183 0 0	31st Dec. ,,	Do.
56 57	C.E. No. 1089, dated 21st December 1889.	Extension of the platform and through siding at Kamalapuram.	560 0 0	1,813 0 0	2,373 0 0	33 0 0	..	33 0 0	30th June ,,	Do.
57 58	C.E. No. 1090, dated 21st December 1889.	Extension of the platform and through siding at Kondapuram.	460 0 0	1,421 0 0	1,881 0 0	33 0 0	..	33 0 0	30th ,, ,,	Do.
58 59	C.E. No. 20, dated 10th January 1890.	Pointsmen's and scavengers' huts at Kadambatur.	1,287 0 0	353 0 0	1,640 0 0	..	..	..	30th Sept. ,,	In progress ~~Not commenced~~.
59 60	C.E. No. 21, dated 10th January 1890.	Pointsmen's and scavengers' huts at Tadpatri.	2,937 0 0	611 0 0	3,548 0 0	..	..	..	31st Mar. 1891.	~~In progress~~. — do —
60 61	C.E. No. 26, dated 11th January 1890.	Erection of pandals to 8 bungalows at Rénigunta.	..	..	..	719 0 0	655 0 0	1,374 0 0	31st ,, 1890.	Do.
61 62	G.O., No. 33 R., dated 11th January 1890.	Alterations and additions to the station-house at Bangalore Cantonment.	10,307 0 0	9,021 0 0	19,328 0 0	958 0 0	..	958 0 0	30th June 1891.	Do.
62 63	C.E. No. 70, dated 23rd January 1890.	Proposed lay-bye and crane at Tirúr ...	861 0 0	2,634 0 0	3,495 0 0	..	..	..	30th Sept. 1890.	~~Not commenced~~. — do —
63 64	C.E. No. 71, dated 23rd January 1890.	A house for the Stationmaster and Assistant Stationmaster at McDonald Choultry.	1,224 0 0	499 0 0	1,723 0 0	..	..	..	30th ,, ,,	~~In progress~~. — do —
64 65	C.E. No. 72, dated 23rd January 1890.	A house for the Stationmaster and the Assistant Stationmaster at Uttukuli.	1,230 0 0	499 0 0	1,729 0 0	..	..	..	30th ,, ,,	Do.
65 66	C.E. No. 73, dated 24th January 1890.	Fixing lightning conductors to the buildings at Calicut.	349 0 0	755 0 0	1,104 0 0	..	..	..	31st Mar. 1891.	Not commenced.
66 67	C.E. No. 75. dated 24th January 1890.	Six temporary huts at Jalárpet for the accommodation of patients infected with small-pox.	..	..	..	163 3 0	132 0 0	295 3 0	30th June 1890.	Completed.
67 68	C.E. No. 83, dated 29th January 1890.	Converting the salt godown at Bangalore into a running guards' bungalow.	1,387 0 0	887 0 0	2,274 0 0	62 0 0	..	62 0 0	30th Sept. ,,	In abeyance ~~Not commenced~~.
68 69	C.E. No. 90, dated 31st January 1890.	Pandal for a Telegraph Inspector's bungalow at Gooty.	..	..	..	87 0 0	81 0 0	168 0 0	31st Mar. ,,	In progress.
69 70	Do. do. ..	Pandal for a double engine driver's bungalow at Gooty.	..	..	..	114 0 0	104 0 0	218 0 0	31st ,, ,,	Do.
70 71	Do. do. ..	Pandal for a married guard's bungalow at Gooty.	..	..	..	114 0 0	104 0 0	218 0 0	31st ,, ,,	Do.
71 72	Do. do. ..	Pandal for a fireman's bungalow at Gooty.	..	..	..	206 0 0	166 0 0	372 0 0	31st ,, ,,	Do.
72 73	Do. do. ..	Pandal for two guards' bungalow at Gooty.	..	..	..	458 0 0	368 0 0	826 0 0	31st ,, ,,	Do.
		Total amount of sanctions granted up to date.	98,265 0 0	1,17,627 0 0	2,15,892 0 0	23,764 11 0	14,864 8 0	38,629 3 0		

	Rs.
Budget grant of the year for Capital works	7,82,500
Total sanctions against the budget grant	6,43,336
Balance available for future sanctions ..	1,39,164

(Signed) SIDNEY SMITH, Major, R.E.,
for Consulting Engineer for Railways.

73	C.E. No 102 dated 4th Feby: 1890	Extension of trimming shop on carriage shop at Perambur works	129	1107	1236	11	"	11	30th Sept. "	Not commenced
74	C.E. No 104 dy — do —	Cross over road at Kolar Road	116	1551	1667	"	"	"	30th " "	In progress
75	C.E. No 126 dated 11th Feby: 1890	Emergent stock shed at Gooty	988	1336	2324	"	"	"	30th June "	Completed
76	G.O. No 216 R dy 11th Feby: 1890	Through siding at Vizidrugalam	3204	7508	10712	"	"	"	30th Sept.	In progress
77	G.O. No 216 B dy — do —	Station house at Kallipuram	6072	7218	13290	"	"	"	31st March 1891	Not commenced
78	C.E. No 164 dy 20th Feby 1890	Proposed alterations and additions to station house at Kolar Road	2912	653	3565	55	"	55	30th Sept. 1890	— Do. —
		Total amount of sanctions granted up to date	98,269	0	1,11,021					
79	C.E. No 170 dy 20th Feby: 1890	Guards bungalow for two families at A. Konam	2932	1615	4547	"	"	"	31st March 1891	— Do. —
80	C.E. No 187 dy 27th Feby: 1890	a 3 ton crane at Arangalam	433	1380	1813	"	"	"	30th June 1890	Completed
81	C.E. No 189 dy — do —	Guards bungalow for two families at Podanur	3018	1145	4163	"	"	"	31st March 1891	Not commenced.
		Total amount of sanctions granted up to date	1,18,069	1,41,140	2,59,209	22,910	13,890-8	36,801-2		

Budget grant of the year for Capital works — 7,82,500

Total sanctions against the Budget grant — 6,59,795

Balance available for sanctions — 1,22,705

Sidney Smith
Major R.E.

Madras,
5th April 1890.

Submitted to Government, for transmission to Director-General of Railways.

2. It is pointed out that 44 works reported as completed, and which were inspected during the last half-yearly inspection, have been struck out of this schedule.

Order—dated 17th March 1890, No. 381 R., Public Works.

Ordered to be forwarded to the Director-General of Railways.

(Here enter No. 382 R., dated 17th March 1890.)

(True Extract.)

(Signed) C. J. SMITH, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Railway Branch.

To the Consulting Engineer for Railways.
" Examiner, Guaranteed Railway Accounts.

Exd. P. L. Pereira.
Spare Copies

RAILWAY.

Govt. of {1890} Madras.

PUBLIC WORKS.

Pu Rail
3443/90

Dated March, 17*th*.

Recd. *Encl.*

G.O., 17th Mar. 1890, No. 381 R.

MARCH.

Schedule of Estimates

Ordered that the — sanctioned on the Madras Railway up to 31st January 1890, be forwarded to the Director-General of Railways.

Form No. 1.

PUBLIC WORKS DEPARTMENT.

OFFICE OF CONSULTING ENGINEER FOR RAILWAYS,

Madras, 5th April 1890.

Pencil

Schedule of Estimates sanctioned on the Madras Railway up to 28th February 1890.

40

No. 243.

Submitted to Government for transmission to the Director General of Railways.

~~SUBMITTED.~~

Pencil

Sidney Smith
Major R.E.,
Dy Consg. Engr for Rys.

8/4-90

Pencil 16.6.90 R 13-4-90

A
No. 513 R of 14th April 90

Form No. 3.

Issued
Ordered to be for-
warded to the Director
General of Railways.—

H.E. No 514 R of 14th April 1890

Forwarded.

Rued K
11-4-90 W
for R

P.W.C No. 3443

From

THE CONSULTING ENGINEER
FOR RAILWAYS,
MADRAS,

No. 243

Dated 5th
Received 9 } April 1890

No. of Enclosures. 1

Subject.

Schedule of Estimates
Sanctioned on the Madras
Railway up to 28th February
1890.

A
No. 513-14 R of 14th April 90

D
384

L
The Consulting for Rys
— Ex Sec to Rys Members
O
9-4-90 R 17-4-90
Secy 11-4-90 R 12-4-90

Secy 14-4-90 R 15-4-90

3443.

Govt. of 18 Madras.

PUBLIC WORKS.

Dated

Rcd. Encl.

G.O., 14 April 1891 No. 573-14R.

Schedule of Estimates

Showing that the Estimate
for Construction on
the Madura Railway
up to 28th Feby 1870
has been sanctioned by
the Director General of Rys.

Schedule of Estimates
Sanctioned on the 28th Feby
Forwarded up to
28th Feby 1870.

Hon. 11.4.90 R 12.4.90