Public Works (1890) Department.

RAILWAY BRANCH.

G.O., No. 1834-5 Ry.

DATED 19th November

[Despatch Abstract.]

Mr G. T. Bridges. — Report of relief of duties of — on Villupuram-Guntakal State Railway, and of his having joined his appointment on the Tiruvalur-Mutupet section of the Mayavaram-Mutupet Railway; ordered to be forwarded to the Govt. of India.

Forwarded

Indexed.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	974-5	Ry	8-7-90				
	1266	„	26-8-90				

FURTHER PAPERS.

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

30th October 1888, No. 899 R., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read again the following papers :—

G.O., dated 27th September 1888, Nos. 788, 789 R., Public Works.

G.O., dated 9th July 1888, Nos. 561, 562 R., Public Works.

From the Consulting Engineer for Railways, dated Madras, 30th June 1888, No. 215.

From the Agent, South Indian Railway, to the Consulting Engineer for Railways, dated Trichinopoly, 28th June 1888, No. 532.

Your letter No. 396 A of the 19th instant. This company will be prepared to accept the services of seventeen Government Engineers (subject to the Chief Engineer's approval of the men offered) for employment upon construction work on the Villupuram-Dharmavaram State Railway.

Submitted for the information of Government in continuation of this office endorsement No. 175, dated 1st June 1888.

Order—dated 9th July 1888, No. 561 R., Public Works.

Ordered that the following letter be forwarded to the Government of India.

(Here enter No. 562 R., dated 9th July 1888.)

(True Extract.)

W. H. COAKER, Major, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

From the Joint Secretary to the Government of Madras, Public Works Department, Railway Branch, to the Secretary to the Government of India, Public Works Department, dated 9th July 1888, No. 562 R.

In continuation of my endorsement No. 458 R., dated 4th June 1888, I am directed to forward copy * of the Proceedings of Government, and to state that, on the assumption that the whole of the line from Villupuram to Dharmavaram, 301 miles, may be commenced at the same time, the Agent, South Indian Railway, is prepared to accept on loan from the Government of India the services of 17 Executive and Assistant Engineers. It is proposed to place the general supervision of the whole of the line under Mr. Spalding as Deputy Chief Engineer, and no officer above the rank of Executive Engineer will therefore be required. The numerous connections with open lines afford unusual facilities for inspecting the extensions. I am to request that the above number of Engineers may be made available so soon as sanction to commence work is received.

* No. 561 R., dated 9th July 1888.

2. In order that no delay may occur in the construction of the Villupuram-Dharmavaram line when sanctioned, His Excellency the Governor in Council desires me to ask that a money grant be at once made to permit of the acquisition of the land and thus prevent obliteration of the lockspitting.

3. I am further to request that a staff of one Executive and four Assistant Engineers may be provided as soon as possible for employment on a working survey

of the Máyavaram-Mutupet line, the District Board of Tanjore having sanctioned the survey and provided for the necessary expenditure.

4. The acceptance of the services of Government Engineers already employed on the South Indian Railway has been subject to their qualifications being considered satisfactory by the Chief Engineer, and this Government would be glad to be furnished with the confidential reports submitted by the officers under whom the several Engineers now available have recently served.

G.O., dated 28th July 1888, Nos. 616, 617 R., Public Works.

From the Consulting Engineer for Railways, dated Madras, 20th July 1888, No. 233.

Letter from the Agent, South Indian Railway, dated 13th July 1888, No. 582.

Submitted to Government for transmission to the Government of India in continuation of the Proceedings of Government, No. 457 R., dated 4th June 1888.

2. An application for an increase of Mr. Clifford's salary from Rs. 250 to Rs. 300 is embodied in the Proceedings* above quoted, and is now under the consideration of the Government of India. The Agent, South Indian Railway, now forwards an application for a further increase to his salary from Rs. 300 to Rs. 350.

*See para. 4 of the Consulting Engineer's endorsement.

3. In submitting the present application, the Chief Engineer points out that "Assistant Engineers who joined the service after Mr. Clifford are on receipt of Rs. 409 per mensem, while he, quite as well qualified for the work in hand, is still drawing only Rs. 250."

4. The further increase solicited is recommended for the sanction of the Government of India.

Order—dated 28th July 1888, No. 616 R., Public Works.

Ordered to be forwarded for the sanction of the Government of India in continuation of Proceedings No. 457-8 R., dated 4th June 1888.

(Here enter No. 617 R., dated 28th July 1888.)

(True Extract.)

W. H. COAKER, Major, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

Endorsement—dated 28th July 1888, No. 617 R., Public Works.

Forwarded.

W. H. COAKER, Major, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

G.O., dated 11th August 1888, Nos. 644, 645 R., Public Works.

Telegram from the Joint Secretary to the Government of Madras, Public Works Department, Railway Branch, to the Secretary to the Government of India, Public Works Department, dated 10th August 1888.

Agent, South Indian, writes:—If it is still desired that Government Engineers only should be employed under the orders of Chief Engineer and of his Deputy, I am prepared on behalf of the company to carry out such an arrangement.

From the Govt. of India, Public Works Department, dated 2nd July 1888, No. 1619 G.

No. 492 D.

Referred to the Consulting Engineer for Railways for early report.

(Signed) W. H. COAKER, Major, R.E.,
Offg. Joint Secy. to Govt., P.W.D.,
Railway Branch.

From the Consulting Engineer for Railways, dated Madras, 10th August 1888, No. 257.

From W. S. BETTS, Esq., Agent, South Indian Railway, to the Consulting Engineer for Railways, dated Trichinopoly, 9th August 1888, No. 668.

In compliance with the request contained in your letter No. 499 A of the 31st ultimo, I forward herewith a copy of the Chief Engineer's views with regard to the staff of officers he considers should be employed upon the construction of the Villupuram-Dharmavaram State Railway.

2. You will observe that Mr. Logan would prefer employing upon this work a portion of the staff at present engaged under his orders, and I concur with him that it would be advantageous both to the State and to the Company if this could be sanctioned, but if it still be desired that Government Engineers only should be employed under the orders of the Chief Engineer and of his Deputy, I am prepared on behalf of the company to carry out such an arrangement.

ENCLOSURES.

Letter from the Chief Engineer, to the Agent, dated Trichinopoly, 25th June 1888, No. 6/88 C/179.

[Your No. 7713/912 of 21st instant.]

I estimate that, to ensure rapid and efficient progress on the Villupuram-Dharmavaram extension, the line should be portioned off into 24 divisions, each under an Engineer, and I estimate the monthly cost of such a staff as follows:—

		RS.
Head-quarters.		
Deputy Chief Engineer		1,200
One 1st-class Engineer, 1st grade		864
Two 3rd-class Engineers for relief, &c., at Rs. 455 each		910
Divisions—24 Engineers.		
Three 1st class, viz., two of 1st grade at Rs. 864 ... ... =	1,728	
One of 2nd grade at Rs 773 ... ... =	773	
		2,501
Eight 2nd class, viz., four of 1st grade at Rs. 659 ... ... =	2,636	
Four of 2nd grade at Rs. 591 ... ... =	2,364	
		5,000
Thirteen 3rd class at Rs. 455		5,915
Total ...		16,390

2. The divisions have been carefully considered with reference to the bridges and works on each and in the light of Resident Engineer Mr. Spalding's late thorough inspection of the country. The average length of division (300 miles—No 24) is 12½ miles, the longest is 17½ and the shortest 5 miles long. The latter is the 7th division on which there are the Pálár bridge and two stations.

3. I am satisfied that a strong staff at head-quarters is essential to effective supervision over a long length of line, and I have therefore provided for an experienced Engineer for the head-quarters office, together with two junior Engineers for relief and any special duties required. It is often important to be able to send aid at once to any point requiring it, and I believe that the staff recommended for this purpose will be none too numerous for the work before it.

Letter from the Chief Engineer, to the Agent, dated Trichinopoly, 8th August 1888 No. 8/88 V.D/50/5.

With reference to the Consulting Engineer's letter,* a copy of which you sent me, I am of opinion that the staff of Engineers proposed† by me will be sufficient if good and efficient men are provided.

2. If Government Engineers only are to be employed, I suggest that the appointments should carry rank and pay as near as possible to the scale estimated in my list already submitted.‡

3. I would, however, beg that Government be asked to bear in mind that if the South Indian Railway Company are to undertake the construction of the Villupuram-Dharmavaram Railway, it will be of very great advantage to the Company's Chief Engineer to have at least a few Engineers associated with him who have been trained in the South Indian Railway system of working.

4. If Government would be good enough to furnish a nominal roll with details as to the careers and experiences of the Engineers whom they wish employed on the Villupuram-Dharmavaram staff, I should be in a position to determine on their distribution, which would, I presume, as heretofore in the Company's service be left to the discretion of the Chief Engineer.

5. I propose to divide the line into 24 districts or divisions, each in charge of an Engineer, and to work this staff with one Deputy Chief Engineer and a reserve of three Engineers, one of whom I estimate would be required at head-quarters and two would be required as spare for leave and contingencies.

6. I propose Mr. Spalding as Deputy Chief Engineer, not merely because he is the Company's senior Resident Engineer--having officiated at times as Chief Engineer, once for 18 months during a time of peculiar difficulty and trial,—but because he is, in my opinion, otherwise well fitted for the appointment. He is a hard-working, practical-minded officer, with long and varied experience of the men and materials available, of the modes of construction under varying conditions, and of the manner of dealing with the rivers and drainages of this part of the country.

7. Mr. Spalding moreover lately carried out a most painstaking and thorough inspection of the line staked out from Villupuram to Tirupati and Dharmavaram.

8. During this inspection he walked on foot along nearly every one of the 300 miles of the line, and was thus able to suggest many minor—but in the aggregate by no means insignificant—improvements which would doubtless equally have been seen by Mr. Geoghegan in revising the laying out had he been commissioned to construct the line, but which none the less render Mr. Spalding an officer specially adapted for the post of Deputy Chief Engineer during construction.

9. In support of this proposed mode of working, I would point to the system in force on the South Indian Railway Company in constructing the line from Madras to Tuticorin, a distance of over 400 miles. At first I worked the 200 miles of southern extension from Trichinopoly to Tuticorin and Madura in direct communication with my assistants on the works without the aid of a deputy, and it was only after the northern extension from Tanjore to Madras added on another 200 miles to the work in hand that it was considered necessary to appoint a Deputy chiefly for inspection purposes.

10. It does not seem to me therefore that a stronger supervising staff is necessary on the 300 miles of the Villupuram-Dharmavaram line that was equal to the requirements of the South Indian Railway 400 miles with its greater number of works and large bridges in much more troublesome foundations than are at all likely to be met in the rocky country of the Villupuram-Dharmavaram line.

11. I propose that the Deputy Chief should have his head-quarters at Trichinopoly beside the Chief Engineer. At first I thought of Vellore as being more central, but all our experience goes to show the value of locating together—side by side—the controlling and administrative heads of departments. For greater promptitude is secured in every way, and many matters are quietly settled in as many minutes as sometimes take days, coupled with misunderstanding and friction to decide by correspondence, when those who have to decide are too far apart for personal conference. In the present case, moreover, Vellore can be reached by two lines of rail (the Madras and South Indian) *viâ* Erode and Arkónam in 15 and 22 hours, respectively.

12. In making up the staff, I beg for consideration for the under-named Engineers who have been at work on the Villupuram-Dharmavaram project under my orders since the Company undertook the preliminary operations, viz. :—

		Salary per mensem.
		RS.
(1) T. H. LeMesurier,	Assistant Engineer	300
(2) H. B. Young,	do.	350
(3) R. A. Clifford,	do.	250

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* Dated 31st July 1888.

† Letter to Agent, No. 6/88 C/179 of 25th June 1888.

‡ With letter No. 6/88 C/179 of 25th June 1888.

13. There is also a temporary Engineer on the South Indian Railway staff, for the retention of whose services I beg favorable consideration. Mr. J. A. D. Lloyd* joined the Company's staff as a temporary Engineer in 1885 to aid in the works entailed by the extraordinary floods of November and December 1884, and he has done much good and workmanlike service up to the present time, when the additional waterways on which he is employed are nearly completed. These four officers have worked conscientiously and well. The first-named three were employed on the Villupuram-Dharmavaram surveys under Mr. Geoghegan and are acquainted with the business in hand and part of the country traversed.

14. The fourth named (Mr. Lloyd) is a man of much experience in railway construction, and the labor and material market with which we shall have to deal. It would therefore be not only a graceful act, but a gain to the undertaking to recognise by retaining the services of these four officers. I beg that, if at all practicable, I may be allowed to do so, otherwise they will be cast adrift at a time when it is difficult, if not impossible, to obtain other employment.

15. I presume the Company's Chief Engineer will be empowered to enforce such rules and regulations on the staff as to work and expenditure as have heretofore been the practice in the Company's Engineering Department.

16. With reference to a working survey of the proposed Máyavaram-Mutupet line, I shall be happy to supervise generally the preparation of the plans and estimates.

Submitted to Government for transmission to the Government of India with reference to their letter No. 1619 G., dated 12th July 1888, referred for report under Public Works Department endorsement No. 492 D., dated 10th August 1888, herewith returned.

2. The staff proposed by the Chief Engineer is probably not in excess of requirements if the whole length of line, viz., 301 miles, be commenced at the same time.

3. If the Deputy Chief Engineer is located at head-quarters, there would appear to be no good grounds for giving him a higher salary than Rs. 1,000 (the former pay of the appointment) and proportionate travelling allowances.

4. The pay of the several members of the staff on the Government of India Public Works list will, it is presumed, be determined by their respective grades in the department, and therefore upon the officers whose services are at the present time, or from time to time, available.

5. The Agent will be again addressed with a view to ascertaining what staff the Chief Engineer proposes to employ exclusively upon the Máyavaram-Mutupet survey.

6. It is in my opinion unadvisable for this staff to take the field before December next, as the line runs through rice-fields for a great portion of its length, and this cannot be surveyed until the crops are cut.

ORDER—dated 11th August 1888, No. 644 R., Public Works.

Ordered that the following letter be forwarded to the Government of India.

(Here enter No. 645 R., dated 11th August 1888.)

(True Extract.)

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

From the Joint Secretary to the Government of Madras, Public Works Department, Railway Branch, to the Secretary to the Government of India, Public Works Department, dated 11th August 1888, No. 645 R.

In forwarding Proceedings of Government, No. 644 R., dated 11th August 1888, in reply to your letter No. 1619 G., dated 2nd July 1888, requesting that this Government would use its influence to induce the South Indian Railway Company to employ Government officers wholly on the Tirupati-Dharmavaram and other lines, I am directed to express the hope of His Excellency the Governor in Council that an allotment of funds at least sufficient to acquire the land and proceed with the earthwork of the portion of line between Villupuram and Vellore may be made immediately available; otherwise a great portion of the work already done will be completely obliterated by the approaching monsoon and have to be done over again.

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* Resident Engineer salary Rs. 773 per mensem.

2. His Excellency in Council trusts that financial exigencies will not be held to warrant a postponement of at least thus much of that portion of the line which promises to pay a fair rate of interest upon its capital outlay.

G.O., dated 18th September 1888, No. 763 R., Public Works.

From G. H. D. WALKER, Esq., Under-Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 6th September 1888, No. 2300 G.

I am directed to acknowledge the receipt of your letter No. 458 R., dated 4th June 1888, submitting, for the sanction of the Government of India, an estimate, amounting to Rs. 57,589, for the staff required for work in the Villupuram-Dharmavaram survey under the South Indian Railway Company. In reply, I am to convey the sanction of the Government of India to the estimate for six months from 1st April 1888, with the exception of Mr. Spalding's salary, regarding which orders will be issued hereafter on your intimating to this office the salary drawn by him in the Company's service, whether a substitute has been appointed in his place on the ordinary staff, and, if so, on what pay.

2. I am also to communicate sanction to the entertainment of the following temporary Engineers with effect from the dates and on the salaries noted against each :—

Mr. Otto Spies,	on	Rs. 250	from	20th	January	1888.
,, T. H. LeMesurier,	on	,, 300	,,	1st	February	,,
,, H. B. Young,	on	,, 350	,,	6th	,,	,,
,, R. A. Clifford,	on	,, 300	,,	1st	April	,,
,, E. F. Handcock,	on	,, 409	,,	1st	,,	,,
,, H. V. Faulconer,	on	,, 409	,,	1st	,,	,,

The services of all these men must be terminated on 30th September, the date on which the sanction to the estimate accorded in para. 1 will expire.

3. With reference to your letter No. 617 R., dated 28th July 1888, I am to state that as Mr. Clifford's pay has already been raised from Rs. 250 to 300, the Government of India thinks it unnecessary to sanction a further increase in so short a space of time.

4. It has been noted that Mr. Ives never joined his appointment.

Order—dated 18th September 1888, No. 763 R., Public Works.

Communicated to the Consulting Engineer for Railways with reference to Proceedings, No. 457 R., dated 4th June 1888, and to his endorsement No. 233, dated 20th July 1888.

2. The Consulting Engineer will report, for the information of the Government of India, the particulars regarding Mr. Spalding's salary, &c.

(True Extract.)

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

Telegram from the Joint Secretary to the Government of Madras, Public Works Department, Railway Branch, to the Secretary to the Government of India, Public Works Department, dated 18th September 1888.

Your No. 2300 G. Unexpended balance sixteen thousand. Propose retain Engineers necessary to close realignment. Surveys in progress and record field work with revised through chainage within total sanction; otherwise work already done will be useless. Please approve by wire.

Telegram from the Secretary to the Government of India, Public Works Department, to the Joint Secretary to the Government of Madras, Public Works Department, Railway Branch, dated 21st September 1888.

Your wire 18th. Your proposal to retain Engineers approved.

From the Consulting Engineer for Railways, dated Madras, 26th September 1888, No. 323.

Letter from the Chief Engineer, South Indian Railway, dated 17th September 1888, No. 9/88 C/121.

Your letter No. 1455 of 17th instant.

(*a*) Mr. Spalding's pay is Rs. 864 per mensem.
(*b*) A substitute was appointed in the ordinary staff.
(*c*) On pay of Rs. 821 per mensem.

I note that the Consulting Engineer intends to ask Government of India for permission to keep on some of the Engineers to complete unfinished work. I estimate that the unexpended balance of allotment is Rs. 16,000, and I beg that I may be allowed to retain such a staff as will be covered by this balance to complete operations at least between Villupuram and Vellore, as otherwise much of the work that has been and is being done will be lost. The sanction deviations from the original centre line and the flattening of unnecessarily sharp curves have considerably altered the chainage and the positions of centre line and tangent stones, &c., and if the rectification of these is not now completed, the omission will be the source of much complication and confusion hereafter when the works are undertaken.

Every member on the establishment list of the staff holds his appointment at one month's notice. No one has yet received this notice, but I have to-day sent out the necessary intimations to all concerned.

Letter from the Agent, South Indian Railway, No. 799, dated 21st September 1888.

Submitted to Government for transmission to the Government of India with reference to para. 1 of their letter No. 2300 G., dated 6th September 1888, embodied in G.O., No. 763 R., dated 18th September 1888.

Order—dated 27th September 1888, No. 788 R., Public Works.

Ordered to be forwarded to the Government of India with reference to their letter No. 2300 G., dated 6th September 1888.

(Here enter No. 789 R., dated 27th September 1888.)

(True Extract.)

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

Endorsement—dated 27th September 1888, No. 789 R., Public Works.

Forwarded.

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

Read also the following paper:—

From G. H. D. WALKER, Esq., Under-Secretary to the Government of India, Public Works Department (General), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 17th October 1888, No. 2716 G.

With reference to your No. 789 R., dated 27th September 1888, and in continuation of Public Works Department No. 2300 G., dated the 6th idem, I am directed to communicate the sanction of the Government of India to the appointment of Mr. W. H. Spalding as a temporary Engineer on the Villupuram-Dharmavaram survey under the South Indian Railway Company on a salary of Rs. 864 per mensem, with effect from the 27th January 1888.

Order—dated 30th October 1888, No. 899 R., Public Works.

Communicated to the Consulting Engineer for Railways with reference to his endorsement No. 323, dated 26th September 1888.

(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. J. Henricus.
Spare Copies

RAILWAY.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated October, 30th.

Recd. *Encl.*

G.O., 30th Oct. 1888, No. 899 R.

OCTOBER.

Temporary Engineers

Correspondence relating to the appointment of — on the Villupuram-Dharmavaram State Railway under the South Indian Railway Company, communicated to the Consulting Engineer for Railways.

PUBLIC WORKS SECRETARIAT

25th April 1889, No. 451 R., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Railway.

Read the following papers :—

From G. H. D. WALKER, Esq., Under-Secretary to the Government of India, Public Works Department (General), to the Joint Secretary to the Government of Madras, Public Works Department (Railway Branch), dated Calcutta, 21st March 1889, No. 835 G.

I am directed to request that you will furnish the Government of India with a diagram showing the divisions started on the Cuddapah-Nellore Railway extensions, a list of the staff employed in each division (distinguishing Government employés from temporary hands), and a statement showing the probable requirements for divisions not yet opened, but which will be opened during the course of the next financial year.

No. 1647 C.

Referred to the Consulting Engineer for Railways for compliance.

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

28th March 1889.

From the Consulting Engineer for Railways, dated Madras, 20th April 1889, No. 202.
From W. S. BETTS, Esq., Agent, South Indian Railway, to the Consulting Engineer for Railways, dated Trichinopoly, 18th April 1889, No. 467.

Referring to your letter No. 310, dated 30th March 1889, I have the pleasure to submit the diagram map called for, and also a statement showing the districts opened and staff employed thereon.

2. The Chief Engineer reports—

"I shall be fully prepared to open all the districts as soon as the necessary staff arrives. At present of the officers posted and not yet joined, I have only heard of Mr. Elston, Executive Engineer, 2nd grade, who may be expected shortly; and of the large number of subordinates under orders, I do not know when I may expect one. I am writing to you on this matter with a view of obtaining information as to what officers and subordinates are really coming. A special workshop and stores division is shown in the accompanying statement of staff, in charge of which I propose to retain Executive Engineer Mr. W. G. Gilchrist. All of the wood and iron work requiring preparation in this country for the Villupuram-Dharmavaram line will have to be manufactured at these shops as there are no facilities whatever for this kind of work in the country traversed by the Extension, and it will undoubtedly be an economy to have an experienced Engineer in charge of the work.

"Engineering Assistant is, as you are aware, a designation under which a considerable number of young men have in the company's service received a practical training in engineering and have risen to responsible position as Engineers both in Government and private service.

"Among the Engineering Assistants enumerated in the present list, two (Messrs. Ellis and Williams) have been educated at Cooper's Hill and one (R. M. Logan) in the engineering course at King's College, London.

"With reference to the number of Engineers still required, there are three districts, exclusive of the one to be taken up by Mr. Elston, still to be occupied, and there are therefore three more Engineers required to complete the staff. Messrs. Alexander and Johnston have been posted, but I do not know whether or when they will join."

ENCLOSURE.

SOUTH INDIAN RAILWAY.

VILLUPURAM-DHARMAVARAM SECTION.

Statement of Staff emploed.

Head-quarter staff ... W. H. Spalding, Deputy Chief Engineer.
W. K. Stent, Executive Engineer, 2nd grade.
T. H. LeMesurier, Assistant Engineer, at Rs. 300.

Division.	Mileage.	EXECUTIVE ENGINEER IN CHARGE.		ASSISTANT ENGINEER.		ENGINEERING ASSISTANT.		UPPER SUBORDINATES.		LOWER SUBORDINATES.	
		Name.	Grade.	Name.	Grade.	Name.	Grade.	Name.	Grade.	Name.	Grade.
1	From V.M. 0 to 18	J. A. D. Lloyd ..	Rs. 773.	....	..	....	..	*H. Martin*, Sub-Engineer ..	3rd grade	T. T. Rungiah, Sub-Inspector.	Rs. 40.
2	18 to 33	*B. P. Basu* ..	3rd grade	....	..	....	..	C. H. Parker, Inspector .. .. S. Sinnappa Pillai, Inspector .. *C. B. Howard*, Overseer	Rs. 125. ,, 100. 1st grade	.... C. Appasami Iyer, Sub-Inspector.	.. .. Rs. 60.
3	33 to 50	*E. F. Gordon* ..	3rd do.	....	..	J. S. H. Ellis ..	Rs. 150.	W. Impett, Inspector .. .. *H. Macartney*, Sub-Engineer ..	Rs. 100. 3rd grade	.... C. Ramasami Iyer, Sub-Inspector.	.. Rs. 65.
4	50 to 66	*A. S. Gerard* ..	2nd do.	H. B. Young ..	Rs. 350.	....	..	P. Muthusami Iyer, Inspector ..	Rs. 75.	*Private Cruiz*, Sub-Overseer.	1st grade-
5	66 to 78	*C. Von Ahn* ..	3rd do.	....	..	....	..	C. E. F. Benz, Inspector .. *H. Bristow*, Sub-Engineer ..	,, 50. 3rd grade	.... A. P. Murugasen, Inspector.	.. Rs. 50.
6	78 to 90	*T. W. Grant* ..	2nd do.	....	..	A. McK. Atkinson ..	Rs. 250.	J. Kelly, Inspector .. .. *W. Maher*, Overseer .. .. M. Mitchell, Inspector	Rs. 100. 1st grade Rs. 100.	T. Gerrard, Surveyor Manickum Pillai, Sub-Inspector. T. Ponnusami Pillai, Sub-Inspector. E. M. Taylcr, Sub-Inspector.	,, 30. ,, 50. ,, 30. ,, 25.
7	90 to 99	*F. G. Brook Fox* ..	3rd do.	....	..	R. M. Logan ..	,, 150.	*T. M. McReddie*, Sub-Engineer ..	3rd grade	....	..
8	99 to 113	*H. G. F. Smith* ..	4th do.	....	..	....	..	K. A. Kristnamacharry, Inspector .. *Kampta Prasad*, Overseer ..	Rs. 80. 3rd grade	....	.. ..
9	113 to 124	*W. L. Buyers* ..	1st do.	....	..	E. A. Faulconer ..	Rs. 150.	C. A. Montgomery, Inspector .. D. C. Donovan, Inspector .. *W. A. Maine*, Sub-Engineer ..	Rs. 150. ,, 100. 2nd grade	....	.. .. ..
10	124 to 136	*C. E. Elliot* ..	4th do.	....	..	....	..	T. A. Soosia Pillai, Inspector .. *Nubbee Ahmed*, Supervisor .. J. Padbanaba, Inspector .. .. W. R. Gheese, do. ..	Rs. 85. 1st grade Rs. 100. ,, 100.	....	.. ..

11 & 12	From Tirupati. 0 to 26	*C. A. Bull* ..	1st do.	....	..	W. R. S. Williams ..	Rs. 150.	*D. Upson*, Supervisor	2nd grade	W. L. Bond, Sub-Inspector.	Rs. 50.
		K S. Chatterjee ..	4th do.	....	..	W. E. Beveridge ..	,, 150.	*Radha Lall*, Overseer	2nd do.	Girdhari Lall, Sub-Inspector.	,, 40.
								P. O'Neil, Inspector	Rs. 100.	E. W. Beveridge, Sub-Inspector.	,, 30.
13 & 14	26 to 57	*C. Swappe* ..	1st do.	*C. T. R. Scovell.*	2nd grade	S. E. Vaikuntam Iyer.	,, 150.	*H. C. Woods*, Sub-Engineer ..	2nd grade	....	..
15	57 to 70	Will be started as soon as Engineer arrives.									
16	70 to 84	*A. Sprenger* ..	1st grade	....	..	....	..	*J. B. Welsh*, Supervisor ..	..	....	..
17	84 to 97	Will be started as soon as Engineer arrives.						Lutchman Lal, Inspector ..	Rs. 100.	....	..
18	97 to 112	*W. Sherman* ..	1st grade	Temporarily employed on survey duty (Máyavaram-Mutupet).							
19	112 to 127	Will be started as soon as Engineer arrives.									
20	127 to 139										
21	139 to 152	*T. Michell* ..	3rd grade	....	..	....	..	....	..	....	..
22	152 to 166	*A. Penny* .	1st do.	....	..	....	..	*S. R. Agostey*, Supervisor ..	..	....	..
Work-shop.	Trichi-nopoly.	*W. G. Gilchrist*, Survey duty.	2nd do.	Temporarily on South Indian Railway staff.				H. Coghlan, Inspector	Rs. 150.	....	..
				R. A. Clifford.	Rs. 300.	....	..	E. S. Alexander, Sub-Engineer .. A. McGrath, Surveyor .. .. P. Gurunatham, Do. ..	,, 350. ,, 100. ,, 80.	....	.. .. ..

(Signed) W. S. BETTS,
Agent.

(Signed) D. LOGAN,
Chief Engineer.

Submitted to Government with reference to their Proceedings, No. 1647 C., dated 28th March 1889 (herewith returned).

ORDER—dated 25th April 1889, No. 451 R., Public Works.

Ordered to be forwarded to the Government of India with reference to their letter No. 835 G., dated 21st March 1889.

(Here enter No. 452 R., dated 25th April 1889.)

(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.

ENDORSEMENT—dated 25th April 1889, No. 452 R., Public Works.

Forwarded.

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

Exd. J. Henrious.
Spare Copies

RAILWAY.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated April, 25th.

Recd. Encl.

G.O., 25th April 1889, Nos. 451 R., 452 R.

APRIL.

Villupuram-Dharmavaram Railway

Forwarding copy of letter from the Agent South Indian Railway, submitting diagram showing the divisions started on the — with a list of staff employed, &c.

No. 335-D of 23-6-90 Cno 57 C/8

Mayavaram Mutupet Railway :- Estimate of the probable expenditure on the Trivalur Mutupet Section of the — Transf. to the Financial Dept.

Ref. [illegible] 1359 of 23-6-90

No 894

South Indian Railway,
AGENT'S OFFICE,
TRICHINOPOLY, 23rd June 1890.

From
The AGENT,
SOUTH INDIAN RAILWAY,

To
The CONSULTING ENGINEER FOR RAILWAYS,
MADRAS.

Sir,

To Govt. with Endt. No. 427 18-6-90

In continuation of my letter No. 852 of the ~~14th~~ 13th instant with which I forwarded a statement of the Staff proposed to be employed on the construction of the Tiruvalur Mutupet Railway, I have to apply for the sanction of Government to the employment on that work of Mr. G. T. Bridges who has been on the Staff of the Villupuram Guntakal State Railway.

The Chief Engineer has submitted the following proposal.

"Mr. Bridges was engaged on the Survey "and staking out of the Mayavaram Mutupet line and "he is therefore acquainted with the country and "will be more useful in the revision of the alignment "and in selecting brickfield sites, and in staking "out the proposed realignments than a man new "to the country."

"Mr. Bridges' present pay is Rs. 300 and I "propose to give him Rs. 409 the pay of a 3rd class 2nd "grade Resident Engineer on the South Indian Railway scale."

I am, Sir,
Your most obedient Servant
William Betts
Agent.

G.S.A.

REGISTER
No. 831
FILE
No.

Pw $\frac{\text{Enc 1}}{6197/90}$

From
The Agent,
South Indian Railway,
Trichinopoly.

To
The Consulting Engineer for
Railways,
Madras.

Dated 23rd June 1890
Received 25.6.90 No. 894
Nil Enclosure.

E.R. CR

Form No. 1.

Public Works Department.

Office of Consulting Engineer for Railways,

Madras. 30th June 1890.

Letter from the Agent, South Indian Railway No. 894 dated 23rd June 1890.

No. 456.

Submitted for the orders of Government in continuation of this office Endorsement No. 427* dated 18th June 1890.

* Vide G.O. No. $\frac{972 R}{973 R}$ dated 8th July/90, No: 338 Dg 23-6-90.

2. The appointment of Mr. Bridges is recommended, as he is thoroughly acquainted with the country traversed by the line.

Subject.—

Application for the appointment of Mr. G. T. Bridges on the M. M. Ry: on Rs 409-p.m.

Sidney Smith
Major, R.E.
Offg: Cons: Engr: for Rys:

AH

PWC No. 6197

B Form No. 3. No. 974 R d/ 8th July/90.

JH. 5/7/90

Ordered the forwarded for the sanction of the Government of India.

H.E. No. 975 R d/ 8th July 1890.

Forwarded.

Info despd to India 8th July/90.

G. 3/7/90

J. York.

From

THE CONSULTING ENGINEER FOR RAILWAYS,

MADRAS,

No. 456

Dated 30th
Received 1st } June 1890

No. OF ENCLOSURES. 1

Subject.

Submitting for the orders of Government letter from the Agent S.I.Ry. regarding the employment of Mr. G. T. Bridges on the Mayavaram Mutupet Ry.

B

No. 974-75 R d/ 8th July/90

O 1/7
Ah. 3/7 R 5-7-90

B 12/7

Sec 11/7

B

All communications should be addressed to the Secretary.

No. 2124 G.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

GENERAL.

To

The Joint Secretary to the Govt. of Madras
Public Works Department, Railway Branch.

Simla, the 9th August 1890

Sir,

In reply to your letter No. 975 R. dated 8th July 1890, I am directed to communicate the sanction of the Government of India to the employment on the Tiruvalur-Mutupet Railway of Mr. G. T. Bridges as a temporary Engineer on a salary of Rs. 409/- per month subject to the conditions for the employment of temporary Engineers as laid d'n in Public Works Code, Chapter I, paragraph 88A, Rule IV; that is to say, he will be on the footing of a monthly servant and

and must understand that his appointment carries absolutely no claim to pension or to any absentee allowances beyond those conditionally given by the rules of the Civil Service Regulations to temporary employés, and he will have to sign a declaration that this is clearly understood by him.

2. The date on which Mr. Bridges joined his appointment on the Railway and the period for which his services will be required should be reported to this office and Mr. Bridges should be included in the Estimate of the Establishment for the line.

3. I am to request, should it be necessary to retain Mr. Bridges' services beyond the period for which sanction is now accorded, that application for the same may be

made

made three months prior to expiry of this sanction.

I have the honour to be,
Sir,
Your most obedt. servant,

J E Dallas

Asstt. Secy: to the Govt. of India

bch

Documents accompanying
Nil

T.W.C. No. 8122

Read ~~19-VIII-90~~
28-8-90.

Ok 31.VIII

B

No. 1266 R

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 26th Augt/90.

READ again the following

Progs: of the Madras Govt: P.W. Deptt:— } H.E. No: 974-75 R of 8th July 90

Read also the following

Letter from the Govt. of India P.W. Deptt:— } H.E. No: 2124 G of 9th Augt 90

Communicated to the Consulting Engineer for Railways with reference to his endorsement No. 456 dated 30th June 1890.

JH 22/8

2. The date on which Mr. Briggs joined his appointment having already been reported to the Govt: of India in Progs: No. 1173 R dated 12th August 1890, the Consulting Engineer's attention

H 23/8

Sent to Madras for index & section

will

be directed to the
requests in paras 2
of the letter read above

W.J.R.

B.
No 1266R of 26 Aug/90.

To
The Cons. Engr for Rys
" Exr Gl Ry Accts

SRC 1/10

No. 1565

South Indian Railway,
AGENT'S OFFICE,
[illegible], Trichinopoly 30th October 1890.

From

The AGENT,
SOUTH INDIAN RAILWAY

To

The CONSULTING ENGINEER FOR RAILWAYS,
MADRAS.

Sir,

x With E.R.

Your letter No 929 of the 29th August last. The Chief Engineer has reported to me as follows:—

"I beg to inform you that Mr G. T. " Bridges handed over Charge of his duties " in District No 8 to 10 of V. G. State Railway " on the 7th July 1890 and joined his appoint- "-ment on the Tiruvalur Mutupet Section " of Mayavaram Mutupet Railway from the " 8th July 1890. His Services will be required " till the 31st December 1891."

I am,
Sir
Your most Obedient St.

Walter J. Hooper
for Agent.

REGISTER
No. 1438
FILE
No.

No. Dated 188
Copy forwarded to
6/11/90

From
THE AGENT,
South Indian Railway,
Negapatam.
To
THE CONSULTING ENGINEER FOR RAILWAYS,
Madras.

Dated 30th October
Received 1st Novr
1890
No. 1565
ENCLOSURE

Take action

Form No. 2.

PUBLIC WORKS DEPARTMENT.

OFFICE OF CONSULTING ENGINEER FOR RAILWAYS,
Madras, 11th November 1890.

Letter from the Agent, South Indian Railway No 1565 dated 30th October 1890

No. 790.

SUBMITTED for transmission to the Government of India with reference to para 2 of its No 2124 G dated 9th August 1890 embodied in P.G. No 1266 R dated 26th idem.

The Agent, South Indian Railway, states that services of Mr G. T. Bridges will be required on the Mayavaram-Mutupet Railway, till the 31st December 1891. He joined the appointment on 8th July 1890.

Major R.E.
for Offg. Con. Engr. for Rys.

P. W. Br. 10/[illegible]

Form No. 3.

No 451-52 R d/ 25-4-89.
· 899 R d/ 30-10-88
· 974-75 R d/ 8-7-90
· 1266 R d/ 26-8-90

From

THE CONSULTING ENGINEER
FOR RAILWAYS,
MADRAS.

No. 790-

Dated 11th } November 1890.
Received [illegible] }

NO. OF ENCLOSURES. one

Subject.

Submitting for transmission to the Govt: of India letter from the Agent S. I. Ry. reporting the relief of Mr. G. T. Bridges on the S. I. Ry. for employment on the Tiruvalur-Muttupet Section of the Mayavaram-Muttupet Ry.

R

B.

No 1834-35 R d/ 19th Novr 90.

PUBLIC WORKS DEPARTMENT,
RAILWAY BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ again the following

Progs: of the Madras Govt. P. W. Deptt. } H. G. No. 1266 R of 26th Augt 90

Read also the following:

Endorsement from the Consg: Engr for Rys. } H. G. No. 790 of 11th Novr 90

HG 16/11/90

Ordered to be forwarded to the Govt: of India for information with reference to para 2. of its letter No. 2124 G of 9th Augt 90

H. G. No 1835 R of 19th Novr 90

Forwarded.

D 20/11

Ms: R

2.

The Consg Engr for Rys }
Exr Gl Ry Accts. } D 20/11

~~Sir Dr J. H. Gan[illegible]~~ — C.B.

B. No 1834-35 Rd/19 Nov 90.

Km. 13.XI.90
D.P. [illegible]
J.C. 20.XI.90
M 21/11