

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2944	Press
B.P. No.		Mis.
Dated	15-10	195- 1875

Not to be folded or roughly handled

10

*Proceedings of the Madras Government, Public Works Department,
15th October 1875.*

No. 238. Read the following Proceedings of the Madras Government in the Financial Department, dated 9th September 1875, No. 1,796 :—

Read the following letter from H. St. A. GOODRICH, Esq., Acting Collector and President, Municipal Commission, Vizagapatam, to the Hon. D. F. CARMICHAEL, Officiating Chief Secretary to Government, Fort St. George, dated Vizagapatam, 9th August 1875, No. 1,415.

In continuation of my letter recorded in Proceedings, Madras Government, Revenue Department, No. 509, dated 2nd April last, I have the honor to report as follows.

2. After discussion held at various Meetings, and inspection of the ground between Kotta Petta and the road leading to the Powder Magazine, the Municipal Commissioners procured a survey of the tract in question. A copy thereof is enclosed and the levels are marked thereon.

3. The present condition of affairs is this :—During dry weather and at the time of spring tides the swamp is offensive only in a slight degree. The tank near the outfall is always noticeably offensive. The whole tract coloured blue, at seasons of ordinary and neap tides, generates a poisonous effluvium which is perceptible very plainly at a distance of over 3 miles, and which is most inimical to health and comfort.

4. The high spring tides cover most of this tract. Its average height above mean sea level is 6 inches, or very nearly 2 feet below high spring tide level, but the surface is uneven, and the so-called fish tank holds some water even at low tides, while the whole surface of the tract is slowly being raised by the deposit of excreta and the solid matter brought down by the drains of the port of the town of Vizagapatam which discharge on it.

5. That the raising of this tract is absolutely necessary, in the interest of the public health, the Commissioners were satisfied, and at a Meeting held 19th May 1875, resolved to invite tenders for the performance of the work.

6. Had the Commissioners come to a different conclusion, I had resolved to issue orders, in my capacity of Magistrate, under Section 521 of the Code of Criminal Procedure, to them, requiring that the work be done, believing that the danger to public health from the state of the swamp is extreme. On this point I enclose, for the information of Government, an extract from the Sanitary Commissioner's report on his last visit, and the opinion of the Civil Surgeon.

7. The invitation to submit tenders was advertised in the neighbouring districts and in Madras. The work to be done was said to be the transport to the swamp and spreading thereon of the necessary material to raise the whole surface to a height of 3 feet above spring tide high water level. This material would amount to 385,000 cubic yards.

8. Tenders were received in July, and their consideration preferred, after some discussion, to a Sub-Committee of the Commissioners, who have considered and reported; and on their report the present statement and request of the Commissioners is based.

9. The tenders were at rates ranging from 2½ to 4 Annas per cubic yard. At the lowest of the rates the cost would be Rupees 60,000.

10. One of those who tendered at the lowest rate was Mr. Addis, c.e., and the Commissioners have also obtained from him a statement of the cost at which he would lay a tramway on his own patent and hand it over to the Municipality.

11. The quantity of material needing removal is such that it will be far cheaper to move it on rails, the more so as the adoption of this plan would meet the most weighty objections the Government might entertain to the concession of free convict labour for another year to the Municipality.

12. There were great objections to the late system, under which the prisoners were marched backwards and forwards through crowded streets, when they had frequent opportunities of escaping and communicating with friends, each carrying a little basket of sand from the hill to the swamp at the slow pace which fetters permit. The amount of work performed in this manner has been absurdly small.

The employment, however, of the Vizagapatam prisoners in the kraal fenced with fagots, which does duty for a gaol, would be of doubtful advantage. Space is insufficient, and the proportion of a class of hillmen, very rude and unhandy and difficult to teach any manual art, is large. There is little time to teach them, for all men whose sentences exceed one year are transferred to Rajahmundry.

13. The Commissioners most earnestly request that Government will assist them in their good work, of removing a great public danger, by granting them the labour of the convicts free of charge for one year.

14. They would utilize it as follows:— a proper guard at the sand hill, when the trucks shall be loaded, will supervise the loading of the trucks, which will be work whereof a tale can be demanded. Paid labourers will direct the trucks from the hill to the swamp. It is not certain whether bullock power will be needed or no. Another small gang of convicts, under a guard on the swamp, will tip the trucks and spread the earth. Neither gang will have any but the simplest labour to perform, but it will be useful labour; neither gang will march through the town more than once, and the gang on the swamp need not march through it at all during the day.

15. The cost to the Municipality of the work done by contract will be Rupees 60,000 if the lowest tender be accepted. If the work be done by themselves by convict labour the tramway will cost at most

• Mr. Addis is ready to contract to lay 2 miles for this sum.

† 200, Supervisor.
35, Clerk.
12, Two Peons.
32, Four Maistries.
320, Sixty-four laborers.

Rupees 7,100,* thirty-two 4-ton trucks Rs. 8,000, other tools Rs. 1,500, salaries of workmen† (600 Rupees per mensem for 10 months) 6,000, total Rs. 22,600; a considerable sum would be recovered by the sale of the iron and timber of the permanent-way and of the trucks. These

latter are rendered expensive by the double flanged wheels which run on the centre rail, these are massive pieces of casting costing Rupees 50 each. The system is one which is reported to give great satisfaction in Bombay and elsewhere, and the Commissioners are confident that it is especially suited to the present undertaking.

16. The Commissioners would have to provide a sum of Rupees 40,000,* and to borrow a sum not exceeding this they would request the leave of Government. The interest on a larger sum would reduce

* 25,000 for labour on swamp.
15,000 maximum cost of masonry drains.

their income, already below their needs, to a point too far below them. The town is not wealthy for its size, and the provision of an improved water-supply is a task which will be expensive. If the Government grant the present request, a public Meeting will be immediately convened, a subscription solicited either as free gift or loan. Mr. G. L. Narasinga Row has already promised Rupees 6,000 as a free gift, and the Commissioners feel little doubt that his good example will be followed if, by the assistance of Government now sought, this most necessary work becomes easy and comparatively cheap.

17. The Commissioners are well assured that the opportunity now existing for the constructing of a tramway may never recur. Mr. Addis, to whom they would entrust the work, may not long remain here, and they could not under ordinary circumstances afford to secure his services. They trust that this application will be favourably entertained, and that the orders of Government may be communicated to them in order that the necessary arrangements for the construction of the tramway may be at once made.

18. The estimated cost of labour is not a final estimate, nor can the time within which the work will be completed be confidently anticipated. The Commissioners believe that two months being given for the laying of the tramway and construction of trucks, (which is the time Mr. Addis demands,) ten months more would suffice to complete the work.

19. In the progress of the work much of the benefit anticipated will be secured at an early stage. It is intended to raise the whole tract to 3 feet above high-water spring tide level, but, long before that level is attained, the swamp will be dry and the garbage and ordure that now fester around the town will be carried out into the tideway through the outfall.

20. For the construction of the masonry drain shown on the plan the Commissioners hold Mr. Addis' tender for Rupees 7,000; the provision of cross drains, so as to carry off all rain water and all that percolates from the higher level near the parade ground, will be necessary. In the estimate given the maximum cost is assumed, before raising their loan the Municipality will have the most careful estimates prepared and will consider them. The sum required will amount to 30,000 Rupees, but not, as they believe, to 40,000 Rupees; a considerable sum would be recovered by sale of materials; and the sale of the 52 acres of reclaimed land would in no long time enable the Municipality to discharge the debt incurred in its reclamation. Mr. A. V. Narasinga Row, who owns a parcel of land at the corner of the fish tank, has undertaken to permit its reclamation and to pay the whole proportionate cost thereof.

THE project will be referred to the Public Works Department in view to the preparation of a careful estimate of the outlay that will be required, which should be furnished as speedily as possible; together with an opinion on the feasibility of the work proposed, which promises to remove a serious nuisance and to be very desirable in other respects.

2. The Government are of opinion that the labour of the convicts may be given under the altered conditions of the undertaking. In the meanwhile the President of

Proceedings of the Madras Government, Public Works Department,
15th October 1875.

the Municipality should report at what rates the reclaimed land is likely to sell for, as building lots or for other purposes, and whether any considerable portion of it is likely to be taken up at once.

(True Extract.)

(Signed) D. F. CARMICHAEL,
Officiating Chief Secretary.

No. 239. ORDER THEREON, 15th October 1875, No. 2,944.

CIVIL WORKS, No. 15-A.

THE District Engineer of Vizagapatam will submit a detailed survey, levels, and estimate of the proposed work, and will at the same time report the deductions from estimate to be made on account of supply of convict labour for filling in and spreading the earth at either end of tramways (of the usual construction), as proposed by the President of the Municipal Commission.

2. It will be referred to the Judicial Department to ascertain the exact number of convicts that can be made available daily for the work, as on it depends the time in which the project can be worked out.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the District Engineer, Vizagapatam, with Plan.
" Judicial Department.
" Financial "

Encl. S. T. Austin.
Spare Copies

M. 57.

Vinagapataam
9 August 1875.
50

From

The Civil Surgeon.
Vizagapatam.

To. The Magistrate and Magistrate.
Vizagapatam.

Shr. I have the honor to report that during the last month the exhalations from the swamp to the west of Kottapeta have been of a most offensive nature, and the odor of which was so nauseating during certain hours of the day that it was with only great difficulty business could be carried on in the public offices. The native Residents in the direction of Kottapeta suffered severely from the same effluvia, and amongst whom are now several patients suffering from a low form of fever.

Cholera is reported to be prevailing in towns along the sea coast. I would strongly advise that the suggestion of the Sanitary Commissioner for raising the level of the swamp, to enable the drainage of the town being carried out to sea, may be adopted as soon as possible.

I have &c.

(Signed) J. O. Mackenzie.
Civil Surgeon.

J. O. Mackenzie

(True copy)
J. O. Mackenzie
Magistrate

Extract from the Inspection notes by the Sanitary Com-
 =missioner, Vizagapatam Municipality dated
 15th March 1875.

"This fish pond is simply a nuisance, receiv-
 "ing as it does, the drainage of a portion of the
 "town, and it is very questionable moreover whe-
 "ther the fish bred in this place can be
 "thoroughly wholesome as food. I should re-
 "commend the municipality to extend the
 "present channel along the margin of the
 "present pond, up to the tidal limits, and to
 "connect the whole of the drainage which
 "now falls into the swamp, with this tidal
 "channel, reclaiming and gradually filling
 "up the fish pond, and land to the north
 "of it for garden land, or building sites, but
 "this work should be laid out by a profession-
 "al Engineer, who would take care that the
 "drainage of the upper part of the town near
 "to the Native Infantry parade ground and
 "lines was made to fall into the salt water
 "channel instead of stagnating as at present.

8 "If a salt water channel was car-
 "ried up to near the market place it would
 "be possible to provide latrine accommodation
 for

1875
 September
 Volume No 3.

Mr. Walter Smith
 Collector of Vizagapatam
 dated August 9, 1875.
 No 1443

No 3238/75

11/10/75

Copy of the Notice
 Surgeon Walter Smith
 dated August 9, 1875

11/10/75

GO 15 October 75
 No 3238

"for the western side of the town, by build-
"ing small places over the channel and
"leaving the cleansing to be done by tidal
"influence."

x x x x

/True Extract/

J. D. P.

Ag. Produce
Ag. President M. C.

Detailed Estimate of the probable cost of raising the swamp to the west of the Town of Vizagapatam.

Description of Work.	Number	Measurements			Superf. Contents in Sq. Feet.	Cubic Contents in Cu. Yards.
		Length ft.	Breadth ft.	Depth ft.		
Raising the portion in the plan marked A2.1		500	13.8	4.32	298,080	160,050
D ₁ D ₂ A2.2		2,400	200	3.78	191,0400	950,400
D ₁ D ₂ A2.3		140	55	2.40	31,680	5,280
D ₁ D ₂ A2.4		633	72	2.00	91,152	45,576
D ₁ D ₂ A2.5		520	275	5.98	855,140	569,140
D ₁ D ₂ A2.6		1,540	267	4.74	2,031,229.20	1,208,867.2
D ₁ D ₂ A2.7		1,258	100	3.48	1,524,224	648,824
D ₁ D ₂ A2.8		500	160	3.48	278,400	118,400
D ₁ D ₂ A2.9		550	224	5.85	7,522,875	495,495
D ₁ D ₂ A2.10		1,914	384	4.76	3,475,485.76	2,028,523.76
D ₁ D ₂ A2.11		600	77	4.85	2,52,370	165,370
D ₁ D ₂ A2.12		548	220	4.91	6,777,69.60	4,14,849.6
D ₁ D ₂ A2.13		90	64	5.40	31,104	17,584
D ₁ D ₂ A2.14		348	154	4.55	2,25,007.60	1,27,785.6
D ₁ D ₂ A2.15		120	42	4.55	22,732	12,552
					111,64,171.46	62,87,527.16

Deductions: 4,32,370.68
107,35,800.48

Proposed channel in the centre of the swamp to carry off the filthy and drainage water of the town of Vizagapatam.

Foundation to channel	1	3,265	12	3 3/4	14,6925
Side walls of channel	2	3,265	1 1/2	3 3/4	36,721 3/4
					18,365 3/4
					68,02 1/2

Vizagapatam
Collector's Office,
9th August 1875

H. Gordon
Asst. Collector &
Resident M.C.

1875
By order
of the Collector
of Vizagapatam
1875 to 14/15

Per
3238/75
4/1/95

Return from Deputy
of the Secretary Genl
-in-charge dated 15th
March 1875

G.O. - 15 October 75
No. 38

Abstract Estimate of the probable cost of raising the swamp
to the west of the town of Vizagapatam. 132

Quantity. Description of Work Rate. Per amount Total
item

277,474 Cubic Yards of earth } 3. C. Yds 8,324.12
Sundries and Superintendents 5. Per Cent 416.14
Total Rs 8,740.26

Proposed Channel in the centre of the swamp to
carry off the filthy and drainage water of the
town of Vizagapatam.

6,802 1/2 C. Yds of rubble masonry } 15. C. Yds 102,033.25
Excavating foundation - - - 150.00
Sundries and Superintendents 5. Per Cent 5,101.64
Total Rs 107,284.89

Total for raising the swamp and
the masonry channel } Rs 116,025.15

Vizagapatam
Collector's Office.
9th August 1875

A. G. P. D.
M. C. Collector
President M. C.

*Note. This rate of three
annas per cubic yard
was the D. P. D. estimate
the rates at which
contractors tendered
ranged from 2 1/2 to 4 as.

No. 1415
Office August 9th 1875

To,
The Honorable Court of Admirals;
By what Secretary to Government,
Fort Saint George.

2. After discussion held at various meetings and inspection of the ground between Kotton Hill and the road leading to the Poudre mesa near the Municipal Commissioners procured a survey of the tract in question. A copy thereof is enclosed and the levels are marked thereon.

is a low land and the level of the water is very low. The present condition of affairs is this. During dry weather and at the time of spring tides the swamp is offensive only in a slight degree. The tank near the outfall is always noticeably offensive. The whole tract coloured blue at seasons of ordinary and neap tides & generates a poisonous effluvia which is perceptible very plainly at a distance of over three miles and which is most inimical to health and comfort.

4. The high spring tides, comes out of the tract.

De la Haye

James O'Neil

Order Letter from the
Director of Immigration

dated 9th August 1875

11/15

4-1288/75

Black-tailed Calumet of
the remarkable coat of

Improving the Answer

the road of the

26. The above is a true and correct copy of the original.

1000

1000/1000

1895

Q-15 Q-15 75 m/h 232

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them.

tract. The average height above mean sea level is six inches or very nearly two feet below high spring tide level, - but the surface is uneven and the so-called fish tank holds some water even at low tides, while the whole surface of the tract is slowly being raised by the deposit of excreta and the solid matter brought down by the drains of part of the town of Cochin which discharge on it.

5. That the raising of this tract is absolutely necessary in the interest of the public health the Commissioners were satisfied and at a meeting held 19th May 1875 resolved to invite tenders for the performance of the work.

6. Had the Commissioners come to a different conclusion I had resolved to issue orders in my capacity of Magistrate under Section 521 of the Code of Criminal Procedure, to them requiring that the work be done, believing that the danger to public health from the state of the swamp is extreme. On this point I enclose for the information of Government an extract from the Secretary Commissioner's Report on his last visit and the opinion of the Civil Surgeon.

7. The invitation to submit tenders was advertised in the neighbouring districts and in Madras. The work to be done was said to be the transport to the swamp and spreading thereon of the necessary material to raise the whole surface to a height

height of three feet above spring tide high water level. This material would amount to 385,000 cubic Yards.

8. Tenders were received in July, and their consideration deferred after some discussion to a sub-committee of the Commissioners, who have considered and reported and on their report the present statement and request of the Commissioners is based.

9. The tenders were at rates ranging from 2 1/2 to 12 Rupees per cubic Yards. At the low end of the rates the cost would be Rs 60,000.

10. One of those who tendered at the lowest rate was Mr. Addis (C.B.) and the Commissioner has also obtained from him a statement of the cost at which he would lay a tramway on his own patent and hand it over to the Municipality.

11. The quantity of material necessary removal is such that it will be far cheaper to move it on rails than by the most weighty objections to the Government might sustain to the concession of free convict labour for another year to the Municipality.

12. There were great objections to the plan system under which the prisoners were marched backwards and forwards through crowded streets, when they had frequent opportunities of escaping and communicating with

which will be expensive. If the Government grant the present request a public meeting will be immediately convened a paper petition solicited either as free gift or loan. Mr. G. S. Narasingaiah has already promised Rs 6000. As a free gift and the Commissioner feels little doubt that his good example will be followed if by the assistance of Government now sought this most necessary work becomes easy & comparatively cheap.

17. The Commissioners are well assured that the opportunity now existing for the construction of a tramway may never recur. Mr. Addis to whom they would entrust the work may not long remain here and they could not under ordinary circumstances afford to replace his services. They trust that their application will be favorably entertained and that the order of Government may be communicated to them in order that the necessary arrangements for the construction of the tramway may be at once made.

18. The estimated cost of labour is not a final estimate, nor can the time within which the work will be completed be confidently anticipated. The Commissioners believe that 10 months being given for the laying of the tramway and construction of tracks (which is the time Mr. Addis demands) ten months more would suffice to complete the work.

19. In the progress of the work much of the benefit

benefit anticipated will be secured at an early stage. It is intended to raise the whole tract to 3 feet above high water spring tide level, but, long before that level is attained, the swamp will be dry and the garbage and ordure that now festers around the town will be carried out into the tideway through the outfall.

20. For the construction of the masonry drain shown on the plan the Commissioner holds Mr. Addis' tender for 7000 Rs; the provision of power drains so as to carry off all rain water and all that percolates from the higher level near the parade ground will be necessary. In the estimate given the maximum cost is assumed, before raising the town. The estimate prepared have the most careful estimates prepared and with confidence. The sum required will amount to 30,000 Rupees, but not as they believe to 40,000 Rupees, a considerable sum would be recovered by sale of materials and the value of the 52 acres of reclaimed land would in no long time enable the Municipality to discharge the debt incurred by its operations. Mr. S. S. Narasingaiah who owns a parcel of land at the corner of the first tank has undertaken to permit its reclamation and to pay the whole proportion to the Government. Have the honor to be, Yours most obediently, A. C. Goodrich, Collector.

Financial Department

PROCEEDINGS of the MADRAS GOVERNMENT.

Read the following letter from

the Acting Collector of Vizagapatam, dated
9th August 1875, No. 1145.

Order thereon, Octarammud, 9th September 75, No. 1996.

The project will be re-
ferred to the Public Works Depart-
ment in view to the preparation of
a careful estimate of the outlay that
will be required, which should be fur-
nished as speedily as possible, together
with an opinion on the feasibility of
the work proposed, which promises
to remove a serious nuisance and to
be very desirable in other respects.

2. The Government are of opi-
nion that the labor of the convicts
may be given under the altered condi-
tions of the undertaking. In the
meanwhile the President of the
Municipality should report at
what rates the reclaimed land is
likely

1875-1876: Diff
No. 3238

Mr. The Secretary
to Government

Mr. The Secretary
to Government

Mr. The Secretary
to Government

Mr. The Secretary
to Government

Mr. The Secretary
to Government

Mr. The Secretary
to Government

GO 15 October 75 in B. 12238

likely to sell for, as building
lots or for other purposes, and whether
any considerable portion of it is
likely to be taken up at once.

True extract.

Wm. H. Harrison
Offg. Chief Secy.

To
The Public Works Department.
with original papers and map.

Ex 100 30711-12 10-22

Public Works Dept.

Proceedings of the Madras Government

Under date the 11th 1875

Read the following

P. Public Dept. No. 1996 of 19th Sept. 1875

Mr. C. J. Addis is a man of high character and high ability. He is a man of high character and high ability. He is a man of high character and high ability.

The work in question is perfectly feasible but the Govt cannot approve of the employment by the Municipality of Vizagapatnam, on any work towards provision of funds for which the sanction and aid of Govt are requested, of one who stands in the position that Mr. Addis does towards the Govt.

Can the D.R. be given? I think it better to let Mr. Addis be employed, if the Govt are no better means of getting their work done. Mr. Addis's attention may be confidently drawn to his shortcomings when in public employment.

Mr. C. J. Addis is a man of high character and high ability. He is a man of high character and high ability. He is a man of high character and high ability.

Mr. C. J. Addis is a man of high character and high ability. He is a man of high character and high ability. He is a man of high character and high ability.

Dated 9th Sept 1875 No. 1996 of 19th Sept. 1875

Dec 11-10-75 Dec 15-10-75 Dec 27-9-75 Dec 11-10-75 Dec 11-10-75

Regarding the purchase of the land for the purpose of the railway, the Government of Madras has decided to purchase the land for the purpose of the railway.

It will be seen from
 G.O. N^o. 1754 dated 19th Sept^r
 1881 that Mr. Addis left
 the Gov^t. Service without
 properly accounting for
 a sum of Rs. 1529.18 which
 has from that time till
 now remained unad-
 justed. Moreover the
 Gov^t. as recorded in
 G.O. N^o. 273 D & 1881 of
 9th Feb^r. and 3rd July
 have not felt satisfied
 of the superiority of Mr.
 Addis's Tramway system.
 Under these circumstances
 they decline to permit
 its adoption, or Mr.
 Addis's connection with
 the works as a Contractor,
 or in any Executive capa-
 city.

Mr.

Total sum adjudged Rs	1221-1-8
Adjusted	1572-0-0
Balance	<u>1529-18</u>

270
 Mr. Addis may
 however, if the Mani-
 cipality wish it, be more
 appropriately employed
 than the Public Works
 Agency in furnishing
 detailed surveys, Plans,
 Sections, Estimates, and
 specifications of the work,
 distinctly showing the
 system in which it is
 proposed to carry it
 out.

Accepting the figures
 given, it is proposed to
 move 385,000 cubic yards
 of earth, a distance
 which is ~~estimated~~
~~estimated~~ ~~estimated~~
~~estimated~~ ~~estimated~~ ~~estimated~~
 (385,000) which at
 the rate of 100 cubic
 yards a day, would be
 completed in 3,850 days
 or 10 years 6 months 10 days

yards per Spick (32 in number) per day. To dig and fill that quantity of earth daily would require 370 convicts tasked at 4 cubic yards each, and 247 more to spread the earth at 6 cubic yards each; a total of upwards of 600 men. It will be submitted to the Jail Dept. to consider whether that number of convicts with their guards can be supplied.

work. I full detail Mr. This before us we can consider the Agency & 25/9 MR

It is quite unnecessary to refer this question. The maximum number in the Jail is 325. average number 292. The question to be asked is the average number that can be regularly given for the work. This can be com-

municated to the Municipality who will frame their labour estimate accordingly -

Need not discuss this in the Encl. Dept. I think that Mr. M. S. were recorded.

The C.O. & D. also I think to the Dist & Mr. M. S. to be returned to submit a report & estimate.

No 2944 Public Works Dept. 31^c

Proceedings of the Madras Government Under date the 15th Oct. 1875 Read the following

Pro. Financial Dept. (H.C. N. 1796 of 9th Sept. 1875)

The District Engineer of Vizagapatnam will submit a detailed Survey, Levels, and Estimate of the proposed work. And will at the same time report the deductions from Estimate to be made on account of supply of Convict Labour

MR

16/10

Labour for felling in
and spreading the
earth at either end
of Grainways (of the
usual construction) as
proposed by the Presi-
dent of the Municipal
Commission.

It will be referred
to the Judicial Dept.
to ascertain the exact
number of Convicts that
can be made available
daily for the work;
as on it depends the
time in which the pro-
ject can be worked
out.

N^o 238/9

L^d L^d L^d

D. S. Vizagapatam
Judl Dept
Fint -
despt 2.11.75

6650



Govt. of Madras.

PUBLIC WORKS.

G. B. Vizagapatam

27/12

1875, No. 2944

No. 238-239

Declaration of the survey
to the West of the town
of Vizagapatam.

In Dtr: Engr. to submit
detailed survey, and
estimate of the proposed
work, & at the same time
report the deductions
made from the estimate
of the supply of land on