

(1) Number of pages 24(2) Date of repair 4-11-38(3) Initials of the Referencer CP**MADRAS RECORD OFFICE.****Government of Madras.***Public Works* **DEPARTMENT.***Cons. to 2 1860*

G.O. No.	304	Press Mis.
Dated	8-2-	1860

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

No. 106. Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer ;
to the Secretary to Government, dated 18th January 1860, No. 9264.

With reference to paragraph 10 of Extract Minutes of Consultation, No. 2234, 23rd October 1858, I have the honor to forward the replies of the several District Engineers to a circular sent to them calling for a statement of all officers considered competent to undertake the construction of important works. The term officer has been generally understood to mean those of the Engineer establishment, and as information from all districts has not been furnished for the Upper Subordinate establishment, the enclosed summary of replies extends only to Sub-Engineers.

SUMMARY of replies from District Engineers, regarding Officers competent to undertake the execution of important works, in answer to Chief Engineer's Circular CXVII of 1859-60.

District.	Rank and Names.	Service in the D. P. W.		Description of works they have executed.
Ganjam	Captain Phillips, 1st Assistant District Engineer.	Since 9th May 1854.		52 miles of road in Kimidi with masonry works varying from road tunnels to 30 feet span. Had charge of an executive range in Ganjam for three years, equal to three taluqs comprising 100 miles of road repairs of irrigation works. Constructing river embankments and head sluices. A civil dispensary, taluq kach'haris, custom houses, flag staff, wells, &c.
Vizágapatám.	The District Engineer reports that there are no Executive Officers or Subordinates in his district capable of superintending works of any great importance.			
		Years.	Month.	
Gódlávári	Mr. R. Smith, 1st Assistant District Engineer.	10	11	Several large locks and kalingals quarry operations, river embankment, a long line of canal and distribution of water. On leave with irrigation company.
Do.	Captain Greenaway, 1st Assistant District Engineer.	3	8	Several locks, kalingals, sluices, river embankments and defences. Several miles of navigation and irrigation channels.
Do.	Mr. G. Tuke, 1st Assistant District Engineer.	9	10	Locks and kalingals, light house at Kákináda and river improvements also minor irrigation channels.
Do.	Mr. W. Rundall, 2nd Assistant District Engineer.	4	1	Experience has been confined to large earthworks and small masonry works; but may be entrusted with the construction of the usual works of irrigation.
Do.	Mr. Hawkins, 2nd Assistant District Engineer.	4	7	Has not hitherto had the opportunity of constructing any important works but possesses ability; is deficient in energy; is of a mechanical turn.
Krishna... ..	Captain Pollard, 1st Assistant District Engineer.	6	0	Channels of navigation and irrigation and masonry works in connection therewith.
Do.	Lieutenant Beatty, 1st Assistant District Engineer.	7	0	Ditto ditto ditto.

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

SUMMARY of replies from District Engineers, regarding Officers, &c.—Continued.

District.	Rank and Names.	Services in the P. W. D.		Description of works they have executed.
		Years.	Month.	
Krishna.	Lieutenant Magnay, 1st Assistant District Engineer.	5	0	Channels of navigation and irrigation and masonry works in connection therewith.
Do.	Mr. Ottman, Sub-Engineer.	26	0	Almost every description of work connected with the department.
Nellúr.....	Captain Ritherdon, 1st Assistant District Engineer.	5	10	Immediate charge of Pennair anicut general duties and charge of a range.
Do.	Lieutenant Marshall, 1st Assistant District Engineer.	7	1	Trunk roads, five and six large bridges the principal one nine arches of 12 yards span, irrigation repairs.
Do.	Mr. Sage, Assistant Engineer.	8	5	Has had executive charge of Pennair anicut works; well qualified for charge of important works.
Do.	Mr. H. Irving, Sub-Engineer.	7	4	Quarrying and laying down a tramway at Daulésvaram; a two arch bridge of considerable span in Nellúr, a taluq kach'hari.
Kurnúl... ..	None.....			
Chengalpat ...	Mr. Kennedy, 1st Assistant District Engineer.	4	7	Has been employed on the Eastern coast canal, has built three bridges; two of brick and one of wood.
Do.	Lieutenant H. Tulloch.	4	7	Repairs of roads, irrigation works and buildings and construction of new buildings.
Kadapa... ..	Captain Palmer, 1st Assistant District Engineer.	6	0	Has been employed on roads, bridges and ghâts and restoring ruined tanks. —On Medical certificate to Europe.
Do.	Mr. George, 2nd Assistant District Engineer.	4	0	Has had few opportunities of distinguishing himself, but what he has done, he has done well.
Do.	Mr. Arnold, Sub-Engineer.	12	0	Has been variously employed, principally on road works and in charge of a range including the town and cantonment of Kadapa.
Bellári.....	Captain Babington, 2nd Assistant District Engineer.	7	10	Road work and bridges from Cúmpa to Sirci, road and public bungalows from Sirci to Dhárwar frontier. A lattice bridge in Cuddalúr, bridges over Narihalla, Kaniganahalla, and Chattram river in Bellári, with charge of Rámandrúg ghâts and roads, also irrigation channels.
Do.	Captain Syme, 2nd Assistant District Engineer.	5	6	Roads in Vizágapatám, Chikákól. Has had executive charge of ranges, been employed on irrigation works generally. Head sluices, bridges and channels.
North Arcot.	Lieutenant Clay.	5	11	Was employed on the Vellár anicut and on the bridge over the Pálár at Vellúr.
South Arcot.	Mr. B. T. Norfor, Executive Engineer.	4	2	On the Cuddalúr harbour works, Puniúr bridge of twenty-one arches and on roads.
Do.	Mr. W. E. Wright, 1st Assistant District Engineer.	5	0	Road work, a bridge, five arches of 48 feet one of two arches of 30 feet and smaller works.
Do.	Mr. Graham, Sub-Engineer.	11	3	Largely employed on ghâts and roads of many miles with bridges and tunnels.

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

SUMMARY of replies from District Engineers, regarding Officers, &c.—Continued.

District.	Rank and Names.	Service in the P. W. D.		Description of works they have executed.
		Years.	Month.	
Tanjúr.....	Captain Palmer, 1st Assistant District Engineer.	5	9	A bridge of 24 arches 36 feet span in Chikákól, another of three arches over Dendagedda, built a custom house at Kalingapatám and numerous kalingals, sluices, &c., aqueducts and various other works.
Do.	Captain Burn, 2nd Assistant District Engineer.	4	2	Has been employed in the construction of roads and canals.
Trichinápalí... ..	None reported on in terms required by the Circular.			
Madura... ..	Mr. Harington, 1st Assistant District Engineer.	6	0	Is competent to undertake the executive of important works.
Tinnevelli.....	Lieutenant J. O. Hasted, 1st Assistant District Engineer.	3	4	Ordinary repairs to works of irrigation and communications.
Coimbatúr...	Captain Ryves... ..			Only just joined from Pegue and no report yet received regarding him.
Do.	Mr. W. B. Leggatt, 2nd Assistant District Engineer.	4	11	Qualified to superintend ordinary works as carried on in India, has not been employed on a work of any importance.
Do.	Mr. Bush, 2nd Assistant District Engineer.	4	8	Ditto. Ditto. Ditto.
Salem... ..	Mr. O'Hara, 2nd Assistant District Engineer.	16	2	Works in Ireland under the Limerick navigation company, channels in Rajámándri, and public buildings at Vizágapatám, two large bridges at Vániambádi.
Do.	Mr. Norfor, 2nd Assistant District Engineer.	1	6	40 miles of new road—not had any other work of importance.
Canara North and South..	Lieutenant Hunter, 1st Assistant District Engineer.	5	0	Has had experience in roads and bridges.
Do.	Lieutenant Hankin, 1st Assistant District Engineer.	6	6	Has had experience in roads and bridges.
Do.	Lieutenant Law, 2nd Assistant District Engineer.	6	0	Has had no experience except in road making and tracing which he is well practiced in a difficult country.
Malabár... ..	Mr. W. B. Smith, 1st Assistant District Engineer.	6	9	A kalingal in the Gódávári district part of the Ellúr canal and an aqueduct.
Do.	Mr. C. Koiug, 2nd Assistant District Engineer.	4	5	Part of the Sadras canal, a lock and a kalingal, and on road work.
Do.	Captain Babington, temporary Assistant Engineer.	2	4	Road work, wooden bridges and bungalows.
Bangalúr.....	Captain Mayne, Executive Engineer.	5	0	Pálár bridge for the most part. Roads and ghâts in North Arcot, barracks at Bangalúr, and tower and spire to the church, 130 feet high.
Jackatalla.....	Captain Morgan.....	5	6	A tidal lock and kalingal on East coast canal and in charge of a forest.
Do.	Lieutenant Hankin, 2nd Assistant District Engineer.	4	8	Roads in Rajámándri and Military buildings at Saint Thomas' Mount and Jackatalla.

Central office of P. W.,
Sépákkam,
18th January 1860. }

(Signed) J. H. BELL, Lieut.-Colonel,

Chief Engineer.

*Proceedings of the Madras Government, Public Works Department,
for the month of February 1860.*

No. 107.

ORDER THEREON, 8th February 1860, No. 309.

Ordered to be recorded.

(Signed) T. PYCROFT,
Chief Secretary

PUBLIC WORKS DEPARTMENT.
Public.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following letter from Lieutenant-Colonel J. H. BELL, Chief Engineer; to the Secretary to Government, dated 18th January 1860, No. 9264.

With reference to paragraph 10 of Extract Minutes of Consultation, No. 2234, 23rd October 1858, I have the honor to forward the replies of the several District Engineers to a circular sent to them calling for a statement of all officers considered competent to undertake the construction of important works. The term officer has been generally understood to mean those of the Engineer establishment, and as information from all districts has not been furnished for the Upper Subordinate establishment, the enclosed summary of replies extends only to Sub-Engineers.

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District.	Rank and Names.	Service in the D. P. W.		Description of works they have executed.
Ganjam ...	Captain Phillips, 1st Assistant District Engineer.	Since 9th May 1854.		52 miles of road in Kimidi with masonry works varying from road tunnels to 30 feet span. Had charge of an executive range in Ganjam for three years, equal to three taluqs comprising 100 miles of road repairs of irrigation works. Constructing river embankments and head sluices. A civil dispensary, taluq kach'haris, custom houses, flag staff, wells, &c.
Vizágapatám.	The District Engineer reports that there are no Executive Officers or Subordinates in his district capable of superintending works of any great importance.			
Gó dávari	Mr. R. Smith, 1st Assistant District Engineer.	Years. 10	Month. 11	Several large locks and kalingals quarry operations, river embankment, a long line of canal and distribution of water. On leave with irrigation company.
Do.	Captain Greenaway, 1st Assistant District Engineer.	3	8	Several locks, kalingals, sluices, river embankments and defences. Several miles of navigation and irrigation channels.
Do.	Mr. G. Tuke, 1st Assistant District Engineer.	9	10	Locks and kalingals, light house at Kákináda and river improvements also minor irrigation channels.
Do.	Mr. W. Rundall, 2nd Assistant District Engineer.	4	1	Experience has been confined to large earthworks and small masonry works; but may be entrusted with the construction of the usual works of irrigation.
Do.	Mr. Hawkins, 2nd Assistant District Engineer.	4	7	Has not hitherto had the opportunity of constructing any important works but possesses ability; is deficient in energy; is of a mechanical turn.
Krishna ...	Captain Pollard, 1st Assistant District Engineer.	6	0	Channels of navigation and irrigation and masonry works in connection therewith.
Do.	Lieutenant Beatty, 1st Assistant District Engineer.	7	0	Ditto ditto ditto.

SUMMARY of replies from District Engineers, regarding Officers, &c.—Continued.

District.	Rank and Names.	Services in the P. W. D.		Description of works they have executed.
		Years.	Month.	
Krishna.	Lieutenant Magnay, 1st Assistant District Engineer.	5	0	Channels of navigation and irrigation and masonry works in connection therewith.
Do.	Mr. Ottman, Sub-Engineer.	36	0	Almost every description of work connected with the department.
Nellur.....	Captain Ritherdon, 1st Assistant District Engineer.	5	10	Immediate charge of Pennair anicut general duties and charge of a range.
Do.	Lieutenant Marshall, 1st Assistant District Engineer.	7	1	Trunk roads, five and six large bridges the principal one nine arches of 12 yards span, irrigation repairs.
Do.	Mr. Sage, Assistant Engineer.	8	5	Has had executive charge of Pennair anicut works; well qualified for charge of important works.
Do.	Mr. H. Irving, Sub-Engineer.	7	4	Quarrying and laying down a tramway at Daulésvaram; a two arch bridge of considerable span in Nellur, a taluq kach'hari.
Kurnul... ..	None.			
Chengalpat ...	Mr. Kennedy, 1st Assistant District Engineer.	4	7	Has been employed on the Eastern coast canal, has built three bridges; two of brick and one of wood.
Do.	Lieutenant H. Tulloch.	4	7	Repairs of roads, irrigation works and buildings and construction of new buildings.
Kadapa... ..	Captain Palmer, 1st Assistant District Engineer.	6	0	Has been employed on roads, bridges and ghâts and restoring ruined tanks. —On Medical certificate to Europe.
Do.	Mr. George, 2nd Assistant District Engineer.	4	0	Has had few opportunities of distinguishing himself, but what he has done, he has done well.
Do.	Mr. Arnold, Sub-Engineer.	12	0	Has been variously employed, principally on road works and in charge of a range including the town and cantonment of Kadapa.
Pellâri.....	Captain Babington, 2nd Assistant District Engineer.	7	10	Road work and bridges from Cûmpta to Sirci, road and public bungalows from Sirci to Dhârwar frontier. A lattice bridge in Cuddalur, bridges over Narihalla, Kaniganahalla, and Chattram river in Bellâri, with charge of Râmandrûg ghâts and roads, also irrigation channels.
Do.	Captain Syme, 2nd Assistant District Engineer.	5	6	Roads in Vizâgapatâm, Chikâkôl. Has had executive charge of ranges, been employed on irrigation works generally. Head sluices, bridges and channels.
North Arcot.	Lieutenant Clay.	5	11	Was employed on the Vellâr anicut and on the bridge over the Pâlâr at Vellâr.
South Arcot.	Mr. B. T. Norfor, Executive Engineer.	4	2	On the Cuddalur harbour works, Punnîr bridge of twenty-one arches and on roads.
Do.	Mr. W. E. Wright, 1st Assistant District Engineer.	5	0	Road work, a bridge, five arches of 48 feet one of two arches of 30 feet and smaller works.
Do.	Mr. Graham, Sub-Engineer.	11	3	Largely employed on ghâts and roads of many miles with bridges and tunnels.

SUMMARY of replies from District Engineers, regarding Officers, &c.—Continued.

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Do.	Captain Burn, 2nd Assistant District Engineer.	4	2	Has been employed in the construction of roads and canals.
Trichinâpali...	None reported on in terms required by the Circular.			
Madura... ..	Mr. Harington, 1st Assistant District Engineer.	6	0	Is competent to undertake the executive of important works.
Tinnevelli....	Lieutenant J. O. Hasted, 1st Assistant District Engineer.	3	4	Ordinary repairs to works of irrigation and communications.
Coimbatûr...	Captain Ryves...			Only just joined from Pegue and no report yet received regarding him.
Do.	Mr. W. B. Leggatt, 2nd Assistant District Engineer.	4	11	Qualified to superintend ordinary works as carried on in India, has not been employed on a work of any importance.
Do.	Mr. Bush, 2nd Assistant District Engineer.	4	8	Ditto. Ditto. Ditto.
Salem.	Mr. O'Hara, 2nd Assistant District Engineer.	16	2	Works in Ireland under the Limerick navigation company, channels in Rajâmandri, and public buildings at Vizâgapatâm, two large bridges at Vâniambâdi.
Do.	Mr. Norfor, 2nd Assistant District Engineer.	1	6	40 miles of new road—not had any other work of importance.
Canara North and South..	Lieutenant Hunter, 1st Assistant District Engineer.	5	0	Has had experience in roads and bridges.
Do.	Lieutenant Hankin, 1st Assistant District Engineer.	6	6	Has had experience in roads and bridges.
Do.	Lieutenant Law, 2nd Assistant District Engineer.	6	0	Has had no experience except in road making and tracing which he is well practiced in a difficult country.
Malabâr... ..	Mr. W. B. Smith, 1st Assistant District Engineer.	6	9	A kalingal in the Gôdâvari district part of the Ellûr canal and an aqueduct.
Do.	Mr. C. Koing, 2nd Assistant District Engineer.	4	5	Part of the Sadras canal, a lock and a kalingal, and on road work.
Do.	Captain Babington, temporary Assistant Engineer.	2	4	Road work, wooden bridges and bungalows.
Bangalûr....	Captain Mayne, Executive Engineer.	5	0	Pâlâr bridge for the most part. Roads and ghâts in North Arcot, barracks at Bangalûr, and tower and spire to the church, 130 feet high.
Jackatalla....	Captain Morgan.....	5	6	A tidal lock and kalingal on East coast canal and in charge of a forest.
Do.	Lieutenant Hankin, 2nd Assistant District Engineer.	4	8	Roads in Rajâmandri and Military buildings at Saint Thomas' Mount and Jackatalla.

Central office of P. W.,
Sépâkkam,
18th January 1860.

(Signed) J. H. BELL, Lieut.-Colonel,
Chief Engineer.

ORDER THEREON, 8th February 1860, No. 309.

Ordered to be recorded.

(True Extract.)

Chief Secretary.

Summary of Replies from District Engineers, regarding Officers appointed to undertake the execution of important works, in answer to Circular **CXVII** of 1859/60.

Direct Donors Names since in the Description of works they have executed.

Caroline

1. 1. 2
Captain Chilling, 1st Regt. since 9th

District Engineers May 1854. (Range in Georgia) for 3 years equal to 3 Lakes comprising

100 miles of road repairs of Crignation rocks. Constructing

Over in banknotes and gold coins. A Civil Disobeyant!
Salute! Machine, Custom. Houses, Day Staff, well, well!

Dear Sir,
 The District Engineer reports that there are no Executive Officers or Subordinates in
 his District capable of superintending works of any great importance.

Cordwaye & Wm. O. Smith
1st Lieut. Dick Englemann

Y several large locks and Atlantic Quay operations.
" " Over embankments, a long line of Canal and distrib-
ution of water and levees with Kingline Embankment.

tin of water and leave with Virginians Company.

Detroit
Dear and brave
service in
D.C.M.
or Description of work they have executed

Captain Greenway *Sold.* General Weeks, Quartermaster, since, Civil-servantment
1st Lieut. Duff *8* and ordered several miles of navigation and irrigation
Siddons *Channels.*

Wm. C. Smith,
Lieut. Col. Engineer, U.S.A.
Sackett and Wadsworth's Light House at Canada
Point, New York.

[illegible]

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Lieut. - Collard

6 " Channels or Navigations and Irrigations and Masonry works in connection therewith.

Hopkins Sixth Engineer

"	Lieutenant	Servant		Ditto
"	1st Lieut.	Engineer	" "	Ditto

[illegible]

Mr. Pittman
Chas. Engineer

Chapman *Captain Dyer* *Immediate charge of Pennam* *Direct*

Lieutenant Marshall
1st U.S. Dist^{ct} Engineer

Division	Rank and Name	Service in Off. D.	Description of works they have executed.
Bengal	Major H. P. Leggatt Engineer 4	11	He got reward regarding him. Qualified to understand ordinary works as carried on in India has not been employed on a work of any importance.
	Major H. P. Leggatt Engineer 4	8	Ditto
	Major H. P. Leggatt Engineer 4	8	Ditto
Orissa	Major H. P. Leggatt Engineer 4	8	Ditto
	Major H. P. Leggatt Engineer 4	8	Ditto
Madras	Major H. P. Leggatt Engineer 4	8	Ditto
	Major H. P. Leggatt Engineer 4	8	Ditto

Commissary	Lieutenant Colonel 1st Assistant District Engineer 1	6	Has had experience in Roads and Bridges
"	Lieutenant Colonel 1st Assistant District Engineer 6	6	Has had experience in Roads and Bridges
"	Lieutenant Colonel 1st Assistant District Engineer 6	6	Has had no experience except in Road making and tracing which he is well practiced in a difficult country.
Malabar	Lieutenant Colonel 1st Assistant District Engineer 6	6	Has had experience in the Railway & part of the Canal and an aqueduct.
"	Lieutenant Colonel 1st Assistant District Engineer 6	6	Part of the Sabar Canal: a lock and a part of the Canal made on Road work.
"	Lieutenant Colonel 1st Assistant District Engineer 2	4	Road work, Wooded Bridges and

District	Rank and Name	Service in R. F. S.	10 Description of works they have executed.
Bangalore Bangalore	Captain Mayne C. E. Engineer	1 5 "	Bazaar Bridge for the most part. Roads and Bridges in a short street, barracks at Bangalore and Town & here is the Church 130 feet high.
Jachattalla	Captain Vargan	5 "	600 total Lock and Calingulak and East Coast Canal and in charge of a Forest.
Jachattalla	Lieutenant of Company 2nd District Dist. Engineer	4 or 8	Roads in Rajahmundry and Military buildings at Saint Thomas's Mount and Jachattalla

Central Office of Dist.
S. Jachattalla
18th January 1862
W. Jachattalla

J. Jachattalla
Chief Engineer

21
Central Office of the
Establishment
18th January 1860.

N^o 9264.
From
The Chief Engineer
To
The Secretary to Government
Public Works Department.

Sir,
With reference to para 10 of
Extract & Minutes of Consultation N^o 2234
23rd October 1858 I have the honor to forward
the replies of the several District Engineers
to a Circular sent to them calling for a
Statement of all Officers considered competent
to undertake the construction of important works.
The term Officer has been generally understood
to mean those of the Engineer Establishment
and as information from all Districts has
not been furnished for the Upper Subordinate
Establishment

1860 Department
of the

Enclosed in a letter from
the Chief Engineer to the
Secretary to Government
N^o 9264 dated 18th
January 1860.

4
N^o 164/60.

Summary of replies from
District Engineers regarding Officers
considered competent to undertake the
construction of important works
in answer to Chief Engineer
Circular N^o 111 of 1850.

Establishment, the enclosed summary of
replies extends only to Sub Engineers.

Sipahkhan
18th January
1860

H. G. C. S.
Asst. to the Chief Eng.

I have the honor to be,
Sir,
Your most Obedt. servant,
W. H. Bell Lieut. Colonel
Chief Engineer

To
The Secretary to Government
Public Works Department

6m. 29th Oct/58 K. 6816

Mr. J. D. Cunningham
Broughton 10th February
1861.

Dear Sir,
I have the honor to acknowledge
the receipt of your letter of the 11th inst.

Tristram H. St. L.
Received 1208

26th Nov. 1860
I have the honor to acknowledge
the receipt of your letter of the 11th inst.

Referring to a summary of the
results of the investigation into the
cause of the fire at the
Barracks on the 10th inst. I have
the honor to inform you that the
results of the investigation are as follows:

No. 106 + 107.

225th 1860 K. 2. 27. 107.

To the Hon. Secy
of the War Office