I think the subsidy might be a little less than what is asked: a tri-monthly service might do at

I enclose you two articles of mine which appeared in the Globe.

I have, &c., Julius Vogel

Enclosure in No. 6.

Messrs. Denny Brothers to Mr. J Galbraith.

DEAR SIR.

Dunbarton, 2nd December, 1878.

Herewith you have designs for the proposed mail steamships between the United Kingdom

and New Zealand, and we give you the leading particulars, with a short general description.

The builders' dimensions are 400 x 45 x 34 feet, gross register tonnage about 4,215; the horsepower nominal to be 700, capable of developing 4,000, diameter of cylinders about 58 and 100, and 5 feet stroke; boilers with about 12,000 feet heating surface, and about 400 feet fire-grate. The whole machinery to be constructed with a special view for working safely in such a long voyage. The ship and machinery to have the highest class at Lloyds, and built under their special survey Passenger accommodation—84, first class; 34, second class; 450, third class: the whole accommodation arranged and got up so as to afford the maximum of comfort attainable at sea. For the first and second class the furnishings for table and beds to be of the best manufacture, and liberal in supply Most of the first class will be only two in a state-room, a few with only one, and a number of familyrooms will be provided. In respect of comfort to passengers in every way, all advantage will be taken

of the experience of others and of ourselves to render the ships as perfect as can be.

The draft of water, fully laden and coaled, will be 24 feet. The ship would lighten at the end of the voyage about $3\frac{1}{2}$ feet, the double bottom being filled with water. This double bottom will be throughout the ship, in order to adjust her trim as the coal gets consumed. It will also add to the strength of the ship, as well as being of great safety in case of damage being sustained in the bottom. Care will be taken to divide the ship with a proper number of watertight compartments, with simple

contrivances to isolate various parts of her in the event of collision or other mishaps.

At an average draft of 21 feet the speed in trial will be $14\frac{1}{4}$ knots; at sea, under ordinary circumstances, the average speed will be $12\frac{1}{4}$ knots.

The sail-power will be sufficient to work the ship in the event of an accident to the machinery.

The lower masts and yards of iron, with a complete outfit of spare sails.

For such a long voyage storage for an abundant supply of fuel must be given, and this is met by provision for about 2,400 tons in fixed coal spaces, which will be sufficient for the voyage under ordinary circumstances, and with about 400 tons to spare.

In addition to the liberal supplies mentioned for passengers, the other departments of the ship, in nautical instruments, sailmaker's and boatswain's stores, cordage, &c., will be efficient for such a

In the machinery department spare shafts, propeller-blades, valve-gear, and other duplicates to

insure easy remedy at sea or abroad, will be placed on board.

In short, we have endeavoured in the designs submitted to you—and will make it our study if the service is to be established—to carry out the views laid down at the interviews between Sir Julius Vogel, you, and our senior, as to the ships being so carefully designed, constructed, and put to sea, as to justify the New Zealand Government in initiating a service which shall give satisfaction and lead to We are, &c., its extension.

James Galbraith, Esq., Glasgow

WM. DENNY AND BROTHERS.

TABLE A .- Earnings, Outwards, with Emigrants, Cabin Passengers, and Cargo.

		t	IGS.					
	Tons.	Tons.		£	8.	d. £	s.	đ.
Space in hold for cargo, &c., allow-		1,410	70 first-cabin passengers, at £70	4,900	0	0		
ing for broken stowage		1,110	25 second-cabin passengers at	875	0	0		
Deduct room allowed for stowage	225	ļ.	£35	0.100		_		
passengers' stores and water		!	450 steerage passengers, at £18		0	o		
Ditto for first-and second-cabin	71	ŧ	907 tons cargo, at £3 10s	3,174	0	0		
passengers' stores and water	• •	į.	-			- 17,049	0	0
Ditto for steerage passengers'	112	Ì	Less 10 per cent. brokerage	•••		1,704	0	0
baggage		ł	commission to agents, and					
Ditto for first- and second-cabin	95		return primage					
passengers' baggage		503				15,345	0	0
Personagers weggengo			Less cost of victualling for			4,925	0	0
Space for cargo		907	first- and second-cabin and steerage passengers					
			Net earnings outwards	•••		£10,420	0	0

TABLE B.—Earnings, Homewards, with Passengers and Wool.

Space available for Cargo, 2,523 tons measurement.

EARNINGS.						-
	£	8.	d.	£	s.	d.
2,000 tons measurement greasy wool, equal to 1,000 tons weight, at §d. per lb.	5,833	0	0			
523 tons measurement washed wool, equal to 174 tons weight, at \(^3_4\)d. per lb.	1,218	0	0			
-	7,051	0	0			

70 first-class passengers £4,900 at £70	£	8.	d.	£	s.	d.
25 second ditto, at £35 875						
50 steerage ditto, at £20 1,000						
	6,775	0	0			
•	13,826	0	0			
Less 10 per cent. commission	1,382	0	0			
and return primage	 -]	L2,444	0	0
	•	•		2,125	0	0
same cost as outwards			-			
			£	•	0	0
Less cost of victualling, at same cost as outwards	••	•	_		0	0