The Gun Experiments at Erith.

To the Editor of the Times.

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Sin.—It may be interesting to some of your readers to hear from Sin.—It may be interesting to some of your readers to hear from the Company of the Might of the Ordenance experiments upon the Stong un of Her Might's ship Thunderor.

Full accounts of both sets of experiments have appeared in your columns, and I need not repeat the dottalls. It is necessary to require the experiments have appeared in your columns and I need not repeat the dottalls. It is necessary to require the experiments of the second graphy of the experimentally fired, was exactly similar to that of the first. This, as I do that the experimentally fired, was exactly similar to that of the first. This, as I do think, is altogether filed. It as soon as provious man much more completely and to an essentially different manner. The mechanical indications, to my mind, are that the first gun spill in consequence of a jamb caused by proviour laplury while the second gunder of the gunder of the powder gases. Soft the oral cyl-dence of the gunder of the powder gases. Soft the oral cyl-dence of the gunder of the powder gases. Soft the oral cyl-dence of the gunder of the gunder gase is the language of the gunder of

those of the gun which burst on board the Thunderer. will be at once seen that the conclusion jumped at on the occa sion of the second explosion is, at all events, premature, for the explosions are of completely diffierent characters. In the first gun the bore is not expanded much beyond the broken edg of the steel tube which remains in the stump of the gun. the second the bore is expanded and the steel tube is expanded over the whole of the space which had been occupied by the front charge of powder. In the first gun the huge band or jackel which encircles the main body of the gun, and which weigh many tons, is quite intact, in the second it is burst from end to end, and a portion of it is blown clean away. When the first gun was fired the water compressor which checked the re coil was uninjured, but when the second gun was fired with two charges, the violence of the recoil was so great that i burst the compressor. In one word, the nature of the second explosion is much more violent than that of the first; the re coil was much greater, and the seat of the explosion was much further back towards the breech of the gun. Do not these facts prove that the first gun could not have been double loaded?"

The Services and the Civil Engineers.

The following remarks of H. R. H. the Duke of Cam bridge, Field Marshal Comdg. in chief are worth reading in connection with those of Lieut.-General Sir Edward Selby Smyth, on the subject of efficiency and politice There are many points in the remarks of His Roys Highness especially applicable to us as Canadians.

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The annual banquet of the Institute of Civil Engineers tool place on Saturday last. Responding for the Army and Auxil'an Forces, the Duke of Cambridge said that of late years the Servic had been subject to a great deal of criticism; but he thought of the whole that the devotion of both c Teers and men had been recognized in the recent contests in which the country had been engaged. Referring to the controversy on the length of service it he army he said that he wisned to remain neutral; but he said was necessary to hit upon a period of service. He noticed with pleasure the presence of his friend Lord Chelmsford, who, from his recent experience, could speak with authority on the subject but it might be put to them whether they would prefer working of skill or boys in anything that had to be undertaken. The polis in dispute had not yet been settled, but he hoped it soon would be Science, he hoped, would materially aid us to hold our own will the small force we possessed against other great countries of the world, but he was only speaking the sentiments of a soldier whe he said that he wished to remain at peace with all. They migh depend upon it, however, that a powerful man was much bette off than a weak one, A weak man might have to submitt to any in suit, but a man on an equality with another neither insuited hin neighbor nor was insulted himself. As with individuals, so it with nations, and be therefore gladly found himself supported the opinion that the efficiency of the Army, Navy, and Volunce forces should be maintained. The army at the present mome was the most placid element in the country, for the srmy knew no politics. Eather than see an army become political he would have no army at all. These, he believed, wore not only his ow sentiments, but the sentiments of the profession. There was time when the Volunceors had not attained the proficency which he was glad to say both the Militia and Volunteers had now at tained. Those bodies were now powerful ele

thorough belief in the system. Another solution, less satisfactory has been sought in the large more cantile interests lying wholly outside this circle of arthury and ordnance authorities which are known to be involved in maintaining the reputation of the "Wooling of the Strain of