

2nd Lieut. G. Barteaux, R.S.I., No. 5 Co., 69th Bn., from 31st March, 1889.
2nd Lieut. A. A. Wilkins, R.S.I., No. 1 Co., 69th Bn., from 31st March, 1889.
2nd Lieut. Walter Purdy, R.S.I., No. 9 Co., 69th Bn., from 31st March, 1889.
2nd Lieut. Wm Hunter, R.S.I., No. 7 Co., 82nd Bn., from 31st March, 1889.

Memo.—The confirmation of rank of Lieut. J. S. Varcoe, No. 9 Co. 33rd Bn, in No. 7 of General Orders (6), 29th March, 1889, is to be omitted, as that officer holds substantive rank from 1st June, 1877.

No. 8.—CERTIFICATES GRANTED—(*Will appear next week, being crowded out of this issue.*)

Gleanings.

A London correspondent writes:—"The last thing in explosives is made from straw, and it is claimed that this Hengst powder is smokeless, flameless, practically non-fouling and non-heating, and that both the recoil and the report are less than those of black powder, with superior penetrative power. It ought to be cheap, too, but it does not seem likely to have energy enough to compete with the powders that all the European countries are now preparing by thousands of tons. It has, however, one apparent advantage—it is granular, and therefore is not liable to 'pack.'"

The Italian Government is now not entirely dependent upon Lord Armstrong's firm for the supply of heavy ordnance, for Krupp has just completed an order for the two largest guns in the world for sea service, weighing 114 tons each and loading from the breech. It is understood that these guns will be placed on board the *Sardegna*, a new battle-ship now completing at Spezia.

The result of the recent *Resistance* experiments has been kept very close by the Admiralty and the naval authorities, but it has transpired that the result of shells filled with high explosives and fired from 9.2-inch breech-loading gun was something terrible. The casemates were of two descriptions, some representing coal bunker protection, and others the protection that is to be given to the batteries of the 47-inch quick firing guns in the ships *Trafalgar* and *Nile*. It was estimated that the casemates would give fair protection against the 6-inch breech-loaders and lighter guns, used at reasonable ranges, and as the 6-inch breech-loading gun will penetrate 9.8 inches of armor, with backing, at 560 yards, or 7.9 inches at 17,000 yards, this was surely all that could reasonably be expected. To fire at the *Resistance* with the 9.2-inch breech-loading gun at 100 yards range meant dire destruction, as this gun can pierce 19.6 inches of armor, with backing, at 160 yards, or 15 inches of armor, with backing, at 2,620 yards. Its results on the *Resistance*, therefore, at point blank range with shells filled with high explosives may be imagined.—*United Service Gazette*.

Capt. Charles Shaler, O.D., April 2, opened the bids that were presented for the construction of the gun foundry, officers' quarters and a railroad turntable and scales at the Watervliet Arsenal. The bids were numerous, and there was a large number of contractors present when they were opened.

History proves that, each time a period of war succeeds a long period of peace, the mode of warfare, or rather tactics, remains for some time in a state of uncertainty. This uncertainty soon gives place to clearer and more simple principles, and upon these is finally established a new mode of warfare, which attains comparative perfection.—*Ambert*.

Soldiers all the world over soon make the discovery that in order to subdue their enemies they must surpass them as well in intelligence as in courage, that they must be acquainted with the nature of their country, with their institutions and modes of existence, and with the historical antecedents, on which their actual power must in great measure be based.—*United Service Magazine*.

It would appear as if the much-needed powder for the "best army rifle in the world," with which, on the authority of Lord Wolseley, the British forces are about to be armed, has been more quickly supplied than even the most sanguine expectations could have realized. It is claimed for this gunpowder, which is the invention of Mr. Hengst, that it is smokeless, flameless, non-fouling and non-heating. It is further advanced on behalf of the new powder that the recoil and report are less than, and the penetrative power and uniformity equal to, those of black powder, with greatly reduced charges. Experiments recently carried out at the testing ranges of Messrs. Cogswell and Harrison, of Harrow, have fairly substantiated these claims, and have further proved that if it is the powder of the future for military purposes, it possesses such merits as to pave the way in the direction of perfection, if such a thing is attainable.—*Army and Navy Gazette*.

No man who knew soldiers or their peculiar way of thinking, or who was acquainted with the many little trifles that go to make up *esprit-de-corps* would ever deprive a soldier of any peculiarity that he prided himself on, without having some overpowering reasons for doing so.—*Wolseley*.

Drill is mechanical, training moral in its operation. Drill teaches men to use their weapons and combine their action. Training enables them to resist panic, and overcome man's natural shrinking from wounds and death.—*Knollys*.

It is admitted that military discipline ought to be rigorous in its execution; but it is important that it have an active principle; that is, that it move to what is good under a sentiment of moral duty, rather than be deterred from what is bad by force of punishment for delinquency.—*Jackson*.

The only true method of maintaining an army by voluntary enlistment is to make it popular, not only in the ephemeral sense that people will cheer it when parading the streets on its return from a successful campaign, nor in that sense that the ordinary toasts at public banquets shall be received with cheers, but in the only sense in which it can be of any practical value by inducing young men to surrender their liberty for a considerable portion of their lives, to enter its ranks, submit to its discipline, and endure its hardships, for the honour and safety of their country.—*Sir I. Simmons*.

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